HIGHWAY WORK PROPOSAL

Proposal Number: 1 8

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

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Trempealeau	7130-08-72	WISC 2014 026	C Independence, Osseo Road Elk Creek Bridge B-61-0211	STH 93
Trempealeau	7132-07-70	WISC 2014 027	C Independence, Burrows Road A Street to 7th Street	STH 93
Trempealeau	7132-08-72	WISC 2014 028	C Independence, Osseo Road A Street to Indee Boulevard	STH 93

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, $ 100,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: February 11, 2014 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time November 26, 2014	
Assigned Disadvantaged Business Enterprise Goal 6%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)	(Bidder Signature)
(Print or Type Name, Notary Public, State Wisconsin)	(Print or Type Bidder Name)
(Date Commission Expires)	(Bidder Title)

Notary Seal

For Department Use Only

Type of Work

Grading, base aggregate, concrete pavement, concrete curb and gutter, concrete sidewalk, sanitary sewer, water distribution, asphaltic surface, storm sewer, pavement marking, signing, traffic control, lighting, retaining walls, pedestrian railing, erosion control, finishing items, building removal, parcel clearance, B-61-0211.

Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2007 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

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

(3) The department will provide bidding information through the department's web site at 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/engrserv/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

Wisconsin Department of Transportation

DT1303 1/2006

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

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

(Signature of Attorney-in-Fact)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

Wisconsin Department of Transportation

DT1305 8/2003

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

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

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

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

(Signature of Authorized Contractor Representative) (Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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87. Project Concrete Crack Mitigation and Repair Special, Item SPV.0105.01. 98
88. Concrete Pavement Joint Layout, Item SPV.0105.02. 99
89. Railing Pipe Galvanized R-61-14, Item SPV.0105.03. 100
90. Railing Steel Type C5 Galvanized Pedestrian M-61-001, Item SPV.0105.04; Railing Steel Type C5 Galvanized Pedestrian M-61-002, Item SPV.0105.05. 102
91. Audio System Enclosure, Item SPV.0105.06. 105
92. Street Lighting Dimming Control System, Item SPV.0105.07. 106
93. Abatement of Asbestos Containing Material Parcels 38, 39, and 84, Item SPV.0105.08. 108
94. Concrete Sidewalk HES 6-Inch, Item SPV.0165.01. 110
95. Concrete Sidewalk Cure and Seal Treatment, Item SPV.0165.02. 110
96. Stamp and Color Concrete Sidewalk 4-inch, Item SPV.0165.03. 111
97. Retaining Wall Concrete Steps, Item SPV.0165.04. 112
98. Wall Modular Block Mechanically Stabilized Earth LRFD, Item SPV.0165.05. 113
99. Concrete Pavement 9-Inch Special, Item SPV.0180.01; Concrete Pavement HES 9-Inch Special, Item SPV.0180.02. 123
100. Excavation, Hauling and Disposal of Petroleum Contaminated Soil Item SPV.0195.01.; Excavation, Hauling and Disposal of Lead Contaminated Soil, Item SPV.0195.02. 124
101. Asphaltic Surface Special, Item SPV.0195.03. 132

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 7130-08-72, C Independence, Osseo Road, Elk Creek Bridge B-61-0211, STH 93, Trempealeau County; Project 7132-07-70, C Independence, Burrows Road, A Street to 7th Street, STH 93, Trempealeau County; and Project 7132-08-72, C Independence, Osseo Road, A Street to Indee Boulevard, STH 93, Trempealeau 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, 2014 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 (20130615)

2. Scope of Work.

The work under this contract shall consist of grading, base aggregate, concrete pavement, concrete curb and gutter, concrete sidewalk, building removal, parcel clearance, sanitary sewer, water distribution, asphaltic surface, storm sewer, pavement marking, signing, asphaltic surface temporary, asphaltic curb, traffic control, lighting, B-61-0211, retaining walls, pedestrian railing, erosion control, finishing items 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.

Prior to beginning operations under this contract, submit in writing the proposed schedule of operations to the engineer for approval.

Do not close STH 93 until placement of detour and or traffic control devices have been approved by the engineer.

Do not remove B-61-0956 until Stage 1B work is completed and open to traffic and not before June 1, 2014.

Complete construction operations on STH 93 to the stage necessary to reopen it to local traffic on concrete pavement between Adams Street/CTH Q (North) and Elm Street prior to 12:01 AM August 15, 2014.

Supplement standard spec 108.11 as follows:

If the contractor fails to complete the work necessary to reopen STH 93 to local traffic on concrete pavement prior to 12:01 AM August 15, 2014, the department will assess the contractor $1690 in interim liquidated damages for each calendar day that the roadway remains closed to local traffic after 12:01 AM, August 15, 2014. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed to local traffic beyond 12:01 AM.

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

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

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

Urban Environment
This project is located in an urban environment, once the concrete pavement and concrete sidewalks are poured, take necessary precautions to preserve the condition of the new concrete items. Any pavement or sidewalk that is damaged is to be replaced at the contractor's expense.

Take care in protecting all building faces and overhangs from damage, dirt, and concrete. When working near the buildings, place a shield (plywood, sheeting, etc.) up against the building to protect it. The cost of this work is included in the bid item that is being worked on at the time. The contractor is responsible for returning the building face to its original condition if any damage occurs, or any dirt or concrete is adhered to the building face.

Encroachments
There are several encroachments within the right-of-way that will not be altered by this project. It is the responsibility of the contractor to avoid these encroachments. The

contractor is responsible for any damage to encroachments and for returning the encroachments to their original condition if any damage occurs. Special care shall be spent to avoid impacts to historical properties listed elsewhere in this document.

Street Lighting
Street lighting between CTH Q and 3rd Street is to remain in operation until the new street lighting is operational. Notify Excel Energies to have the existing poles removed at least two weeks prior to the desired removal date.

The lake level may be lowered to an elevation of 775.00 the duration of Stage 2a. Contact the Jim Biesek with the City of Independence at (715) 985-3055 one week prior to the desired start work date and notify him of any change in schedule. Contact Karen Kalvelage with the Wisconsin Department of Natural Resources at (608) 785-9115 if further drawdown is desired.

Construction Staging
Conform the schedule of operations to the construction staging as shown in the traffic control plans and as described herein unless modifications to the schedule are approved in writing by the engineer. Work on items outside of the designated work zone may be permitted providing that STH 93 traffic is not restricted and the engineer has received and approved a proposed traffic control plan associated with item. Traffic control items required to complete the associated work are incidental to work being completed.

Stage 1A

- Complete clearing and grubbing and remove existing pavement and sidewalk from 105+50 to 120+50 on STH 93.
- Complete installation of water, sanitary and storm sewer from Station 105+25 to Station 120+50 and razing of Parcel 84.
- Xcel Energy electric pole relocation.
- Complete grading from Station 105+50 to 120+50 on STH 93.
- Complete temporary widening on STH 121.

Stage 1B

- Remove existing pavement and sidewalk on STH 93 from Station 104+75 to Station 105+50 and on STH 121.
- Complete installation of water, sanitary and storm sewer from Station 104+75 to Station 105+50 and along STH 121 from P50+00 to P52+25.
- Complete base, concrete pavement STH 93 from 104+75 to Station 120+50.
- Complete curb and gutter from Station 105+50 right and Station 105+00 left to Station 120+50.
- Construct base, concrete pavement, and temporary asphalt widening on STH 121 westbound from Station 51+40 to P55+00.
- Construct temporary path to dam.
- Place signing and pavement marking necessary for opening to Stage 2 traffic.

Stage 2A

- Remove B-61-0956 and construct B-61-0211.
- Complete remaining roadway items and retaining walls from Station 105+00 to Station 120+50.
- Complete work necessary to complete grading, water, sanitary and storm sewer, base and concrete pavement on STH 93 from Station 84+50 to Station 95+00.

Stage 2B

- Complete remaining items of roadway work.

4. Traffic.

STH 121 shall remain open to traffic at all times and be constructed as shown in the staging plans.

STH 93 will be closed to through traffic and will utilize a two stage detour plan as described below.

Stage 1
Stage 1 traffic will be detoured via STH 121 – USH 53 – USH 10 while work is being completed from Station 104+75 to the end of the project. STH 121 will be constructed under traffic as shown in the plans.

Stage 2
Stage 2 traffic will be detoured via STH 95 – USH 53 – STH 121. Stage 2 is not to be begin until Stage 1 is open to traffic and not before June 1, 2014.

Stage 2A

At the beginning of the construction operations for B-61-211, install detour as shown in the plans and close STH 93 to through traffic. Upon completion of Stage 2A allow two lanes of local traffic between Elm Street and Adams Street (County Road Q North). Do not reopen to local traffic until completing the following work: B-61-211, sanitary and water, storm sewer, curb and gutter, base aggregate dense, and concrete paving.

Stage 2B
During Stage 2B local traffic will be allowed between Elm Street and Adams Street (County Road Q North).

Maintain access across STH 93 for local traffic at either Tracy Street\7th Street North or 6th Street South at all times.

Maintain access across STH 93 for local traffic at either 7th Street South or Howard Street at all times.

Local access across STH 93 at CTH Q will be maintained throughout Stage 2. Three, one day closures of CTH Q will be allowed to complete, sanitary and water services work and concrete pavement. When CTH Q is closed, maintain access to Adams Street via Railway Street such that local traffic can cross STH 93 at Adams Street to access County Road Q North. The vacated First Street may be used for local traffic during the construction of the Adams Street intersection with STH 93.

Pedestrian Traffic
Maintain contiguous pedestrian access, in accordance to the Americans with Disabilities Act (ADA) Accessibility Guidelines (ADAAG), along STH 93 and all local side roads by means of existing sidewalk or new sidewalk for all abutting businesses and properties. Pedestrian traffic shall be maintained at all times in such a way to accommodate ADAAG except between Adams Street and Elm Street during Stage 2A where pedestrian access shall be maintained along the existing sidewalk and temporary path over the Elk Creek dam.

When required, close sidewalks in accordance to the standard detail drawing "Traffic Control, Sidewalk Closure." Provide temporary pedestrian access on a hard surface material as approved by the engineer. Gravel or base course material is not acceptable. Maintaining pedestrian access is considered incidental to the contract.

Local Vehicle Access
Maintain access for local, business and emergency traffic at all times on a minimum of a base aggregate dense surface. Maintain reasonable access to all properties in accordance to standard spec 104.6.4. When construction operations will temporarily restrict access to a property or change existing access to a property, coordinate with the resident and or owner at least 48 hours prior to the work. Construct driveway approaches to commercial businesses in stages or provide temporary access such that access to commercial property is provided at all times.

Work By Others
The City of Independence will be planting trees in several locations throughout the project. Notify the Mayor of the City of Independence via phone at (715) 985-3055 two weeks prior to placing concrete sidewalk or pavement.

5. Utilities.

This contract comes under the provision of Administrative Rule Trans 220.
107-065 (20080501)

The following utilities have facilities with the project limits:

- City of Independence – Water& Sewer
- Midwest Natural Gas Incorporated – Natural Gas
- Xcel Energy – Electrical Distribution
- Tri-County Communications Coop – Cable Television
- Tri-County Communications Coop – Communication

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the required prior work will be completed and the site will be available to the utility. Follow-up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

City of Independence has extensive storm sewer, sanitary sewer, and water main facilities within the project area. These facilities are shown on the plan and are being replaced with this project.

Midwest Natural Gas will have a representative on site during all operations where their line may be exposed and work with the contractor on locating and providing any necessary support to their line while exposed.

The contact for Midwest Natural Gas Incorporated natural gas facilities is Eliot Solsrud, contact information below:

Midwest Natural Gas Incorporated
23389 Whitehall Road, Independence, WI 54747
Office: (715) 985-5500
Cell: (715) 780-9233

Station 50+79 RT – Station 51+85 RT STH 93: Gas main is approximately 32 inches deep in this area. No conflict anticipated.

Station 56+50 RT – Station 60+35 RT STH 93: 1-1/2 inch steel gas main will be replaced prior to construction with a new 2-inch PE main 8 to 10 feet towards the south ROW from the current location. The existing steel natural gas main will be purged and abandoned in place.

- **Station 57+35 STH 93 Crossing:** This crossing will be replaced with the main. Installation of new storm sewer utilities will expose the relocated gas line.
- **Station 58+65 STH 93 Crossing:** This service line will be relocated approximately 2 to 4 feet east of current location prior to construction. The old service line will be abandoned in place.

Station 60+35 RT to Station 61+60 RT STH 93: 1-1/2 inch gas main is approximately 5-1/2 feet deep and no conflicts are anticipated.

- **Station 60+50 STH 93 Crossing (7th Street):** 1-1/2-inch steel natural gas main crossing will be purged, abandoned and replaced with a new 2-inch PE crossing at approximately 60+35 prior to construction. New main will tie in outside of project area north on 7th St. to existing main. Installation of new storm sewer utilities will expose the relocated gas line but no conflicts are anticipated.

Station D10+35 RT – Station D11+00 RT S. 6th Street: No conflict anticipated.

This is a 1-1/2 steel natural gas main, approximately 28 inches deep. No conflict anticipated.

Station 70+25 STH 93 Crossing: This 1-1/2 steel natural gas main is approximately 60 inches deep and currently is not in conflict with existing storm sewer. Conflict with new sanitary and water not expected because of depth. Installation of new water, sanitary and storm sewer utilities will expose the gas line. No conflict anticipated.

Station 74+00 STH 93 Crossing (4th Street): This 1-1/2 steel natural gas main is approximately 32 inches deep at the north ROW and 48 inches deep at the south right-of-way of STH 93. Conflict with new sanitary and water not expected because of depth. Installation of new water, sanitary and storm sewer utilities will expose the gas line. No conflict anticipated.

Station Q100+50 RT – Station Q100+85 RT CTH Q: This is a 3 inch steel line approximately 40 inches deep. Installation of new water, sanitary and storm sewer utilities will expose the gas line. No conflict anticipated.

Station K10+50 LT – Station K12+40 LT CTH Q/Adams Street: Installation of new storm sewer utilities may conflict as storm sewer crosses this 3-inch steel gas main in several locations. If conflict is identified and storm sewer cannot be adjusted to avoid, notify Midwest Natural Gas to adjust main. Upon notification Midwest Natural Gas will

adjust its 3 inch steel main down to avoid storm sewer. Two days are required to complete this work.

Station 95+80 RT – Station 105+50 RT STH 93: This 1-1/2 inch gas main will be purged, abandoned, and relocated in the Spring of 2013, prior to June 1, from Station 95+80 to Station 105+50. This re-located main will tie in to existing gas main on Elm St. using 2 inch PE pipe and be located as close as possible to the north right-of-way of Elm St. and then turn north as close as possible to the east right-of-way of STH 93 to Station 104+00 STH 93. This 2-inch main will temporarily terminate at Station 104+00 STH 93. MNG will tie over or replace existing mains and service lines depending on conflicting sewer and water facilities at the following crossings:

- **Station 96+85 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.
- **Station 97+10 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.
- **Station 99+05 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.
- **Station 100+65 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.
- **Station 103+10 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.

Station P50+50 LT – Station P53+76 LT STH 121 to Station 105+50 LT – Station 107+00 LT STH 93: Prior to construction, Midwest Natural Gas will install a 2 inch PE gas main from the existing gas main on STH 121 at approximately Station P51+75 as close as possible to the north right-of-way of STH 121 and along the east right-of-way of STH 93 up to approximately Station 105+75 STH 93 where it will cross to the west side of STH 93 and then out of the right of way onto private easements along the west side of the roadway. The existing main and services will be purged and abandon between Station 105+75 to 112+50 on STH 93.

Installation of new water, sanitary and storm sewer utilities will expose the gas line. No conflict anticipated.

Station105+50 RT – Station 112+50 RT STH 93: This portion of this gas line is going to be relocated prior to construction on private property on the west side of STH 93 as described previously.

Station112+50 RT – Station 116+00 RT STH 93: Installation of new water and sanitary sewer utilities will expose the 1-1/2 inch steel gas line. No conflict anticipated.

- **Station 113+25 STH 93 Crossing:** A new service line will be installed and the existing steel line will be purged and abandoned in place prior to construction. Installation of new water and sanitary storm sewer utilities will expose the relocated gas line. No conflict anticipated.
- **Station 114+30 STH 93 Crossing:** Installation of new water and sanitary storm sewer utilities will expose this gas service line. No conflict anticipated.
- **Station 114+85 STH 93 Crossing:** Installation of new water and sanitary storm sewer utilities will expose this gas service line. No conflict anticipated.

Station 110+65 LT – Station 111+20 LT STH 93: The gas line will be relocated prior to construction on private property on the west side of STH 93 as described under Station 105+50 LT - Station 107+00 LT STH 93. Installation of new water and sanitary storm sewer utilities will expose the gas line. No conflict anticipated.

Station 116+00 RT – Station 120+25 RT STH 93: Installation of new storm sewer may expose the 1-1/2 inch steel gas line in this area. Gas line is near the storm sewer but is not expected to conflict. If while placing the storm sewer a conflict is determined, notify Midwest Natural Gas to adjust main. Upon notification Midwest Natural Gas will adjust its main to avoid storm sewer within three working days.

- **Station 116+60 STH 93 Crossing:** Installation of new water, sanitary and storm sewer utilities will expose the gas line. No conflict anticipated.
- **Station 117+45 STH 93 Crossing:** Installation of new sanitary and water utilities will expose the gas line. No conflict anticipated.
- **Station 118+15 STH 93 Crossing:** Installation of new water and sanitary sewer utilities will expose the gas line. No conflict anticipated.
- **Station 119+30 STH 93 Crossing:** Installation of new sanitary and water utilities will expose the gas line. No conflict anticipated.

Xcel Energy – Electrical Distribution
Several lighting poles will remain in place during construction and will not be removed until new lighting is installed and activated. Poles allowed to remain in place are not in conflict with paving or curb and gutter but may be within paved terrace areas or sidewalk. All utility adjustments and relocations completed by the owner.

The contact for Xcel Energies electric facilities is Alex Lueck, contact information below:

3215 Commerce St., La Crosse, WI 54603
Office: (608) 789-3625
Cell: (608) 799-6282
Alex.J.Lueck@xcelenergy.com

Station 55+65 LT STH 93: Existing light pole is within proposed sidewalk and will be moved to back of right of way prior to construction.

Station 59+75 LT – Station 60+75 LT STH 93: No conflicts expected with the underground electric line and it will remain. The pole at 59+75 left will be moved back to the right of way prior to construction, the pole at 59+79 right will remain.

Station B10+35 RT 7th Street: Existing light and utility pole is outside of roadway grading and will remain.

Station B11+25 LT – Station B11+50 LT STH 93: Installation of new sanitary utilities will expose the underground electric line which will remain in place.

Station 64+65 RT STH 93: Existing light pole will be removed after installation of new curb and gutter.

Station D10+45 LT S. 6th Street: Existing utility pole is outside of roadway grading limits. Pole will remain.

Station D11+00 RT S. 6th Street: Existing utility pole is within grading limits and near back of proposed C&G. Pole will be moved to back of right of way prior to construction.

Station 70+25 RT STH 93: Existing light pole will be removed during construction upon completion of the new curb and gutter adjacent to the pole.

Station 72+10 RT STH 93: Existing light pole will be removed during construction upon completion of the new curb and gutter adjacent to the pole.

Station 72+65 LT STH 93: Existing light and utility pole is within proposed sidewalk and will be moved to back of right of way prior to construction.

Station 73+50 RT – Station 73+95 RT STH 93: Buried electrical line will be disconnected in association with building razing.

Station 73+95 RT STH 93: Existing light and utility pole is within proposed roadway and will be moved to back of right of way prior to construction.
Station 74+15 LT STH 93: Existing light and utility pole is within proposed roadway grading but will not conflict. Pole will remain.

Station 76+65 RT STH 93: Existing light pole will be removed during construction upon activation of the new lighting in the area.

Station 77+50 LT STH 93: Existing light pole will be removed during construction at the start of Stage 2, once STH 93 has been closed to traffic.

Station 78+10 RT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 79+25 RT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 79+92 RT STH 93: Existing guy pole is behind proposed back of sidewalk and will not conflict with construction. Pole will be removed during construction.

Station 80+40 RT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 80+70 LT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction at the start of Stage 2, once STH 93 has been closed to traffic.

Station 81+60 RT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 82+75 RT STH 93: Existing light and utility pole is close to proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 83+95 RT STH 93: Existing light and utility pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station K10+65 RT CTH Q: Existing light and utility pole is within proposed sidewalk and within 2' lateral clearance of proposed C&G. Pole will be moved during construction after the removal of First Street pavement, curb and sidewalk.

Station K12+15 RT Adams Street: Existing light and utility pole is within proposed sidewalk and will be moved prior to construction.

Station 87+05 RT STH 93: Existing light and utility pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 89+25 RT STH 93: Slope grading and structure construction will conflict with existing utility pole. Light pole will be removed prior to construction.
Station 91+00 RT STH 93: Existing pole is outside of roadway grading and will remain.

Station 91+50 RT STH 93: Existing light pole is within proposed sidewalk and will be removed during construction upon activation of the new lighting in the area.

Station 92+50 RT STH 93: Existing pole is outside of roadway grading and will remain.

Station 93+90 RT STH 93: Existing light and power pole is within proposed sidewalk and within roadway grading. Pole will be moved back to right of way prior to construction.

Station 95+05 RT STH 93: Existing utility pole is between proposed C&G and proposed sidewalk. Pole is located outside of the required 2' lateral clearance and will remain.

Station 96+40 RT STH 93: Existing light and utility pole and underground electrical line is located between the proposed C&G and sidewalk. The pole and underground electric will remain, no conflicts anticipated.

Station 97+60 RT STH 93: Existing utility pole is between proposed C&G and proposed sidewalk and will remain, no conflicts anticipated.

Station 98+75 RT STH 93: Existing utility pole is between proposed C&G and proposed sidewalk and is located outside of the required 2' lateral clearance and will remain.

Station 100+10 RT STH 93: Existing light and utility pole is within grading limits and between proposed C&G and proposed sidewalk. Pole will be moved to 2' from the face of curb after construction.

Station 100+60 LT STH 93: Existing service utility pole is within proposed roadway and will be moved to 2' behind face of curb after removal of existing sidewalk during construction.

Station 101+40 RT STH 93: Existing utility pole is between proposed C&G and proposed sidewalk and will remain.

Station 102+70 RT STH 93: Existing utility pole is within proposed roadway. Pole will be moved to 2' behind face of curb prior to construction.

Station 103+75 RT STH 93: Existing utility pole is within proposed roadway. Pole will be moved to 2' behind proposed face of curb prior to construction.

Station 105+05 LT STH 93: Existing light pole is within proposed roadway and will be removed during construction at the start of Stage 2, once STH 93 has been closed to traffic.

Station 105+50 RT STH 93: Existing utility pole is within proposed roadway and will be moved to the back of the right of way prior to construction.

Station 106+75 RT STH 93: Existing light and utility pole is located in proposed curb. Pole will be moved to 2' behind face of curb during construction upon removal of the existing sidewalk.

Station 108+40 LT STH 93: Existing utility pole is located within the proposed sidewalk but will remain. Cut at pole location will require adjustment of pole during construction.

Station 108+70 RT STH 93: Existing light and utility pole is located inside the required 2' lateral clearance from the face of proposed curb. Approximately 4.5' cut at pole location will require this pole to be moved and adjusted during construction. Pole will be moved to

a temporary location within the temporary easement and set to a permanent position 2' behind face of curb upon completion of curb and gutter.

Station 109+95 RT STH 93: Existing utility pole will conflict with proposed roadway grading. Pole will be moved to a temporary location on private property on the west side of the roadway prior to construction and set to a permanent position 2' behind face of curb upon completion of curb and gutter.

Station 111+30 RT STH 93: Existing utility pole will conflict with proposed roadway grading. Pole will be moved to a temporary location on private property on the west side of the roadway prior to construction and set to a permanent position 2' behind face of curb upon completion of curb and gutter.

Station 112+80 RT STH 93: Existing utility pole is within proposed curb. Pole will be moved to back of right of way prior to construction.

Station 112+90 LT STH 93: Existing utility pole is within proposed sidewalk and will be moved to 2' behind face of curb during construction after removal of existing sidewalk.

Station 114+10 RT STH 93: Existing light and utility pole is within proposed roadway. Pole will be moved to back of right of way prior to construction.

Station 114+50 LT STH 93: Existing utility pole is within proposed sidewalk and will be moved to 2' behind face of curb during construction after removal of existing sidewalk.

Station 115+00 RT STH 93: Existing utility pole is within proposed sidewalk and will be moved to back of right of way prior to construction.

Station 116+85 RT STH 93: Existing utility pole is within roadway grading but is not in conflict with sidewalk or roadway and will remain.

Station 116+85 LT STH 93: Existing utility pole is within proposed sidewalk and will be moved to 2' behind face of curb during construction after removal of existing sidewalk.

Station 117+85 RT STH 93: Existing utility pole is within roadway grading but is not in conflict with sidewalk or roadway and will remain.

Station 117+90 LT STH 93: Existing utility pole is within proposed sidewalk and will be moved to 2' behind face of curb during construction after removal of existing sidewalk.

Station 118+90 LT STH 93: Existing utility pole is within proposed sidewalk. Pole will be moved to 2' behind face of curb during construction after removal of existing sidewalk.

Station 119+75 RT STH 93: Existing utility pole is within roadway grading but is not in conflict with sidewalk or roadway and will remain.

Station 120+10 LT STH 93: Existing utility pole is within roadway grading but will not conflict with sidewalk or roadway and will remain.

Station P50+72 LT STH 121: Existing utility pole guy wire is within Stage 2A temporary widening and will be moved with pole at P50+85 to the back of the right of way prior to construction.

Station P50+85 LT STH 121: Existing power pole is within Stage 2A temporary widening and will be moved to the back of the right of way prior to construction.

Station P52+40 RT STH 121: Existing utility pole guy wire is within Stage 1A temporary widening and will be moved to the north side of STH 121 at the right of way prior to construction.

Station P53+90 RT STH 121: Existing utility and light pole is in conflict with Stage 1A temporary widening and will be moved to back of right of way prior to construction.

Tri-County Communications Cooperative - Cable Television
Tri-County Communications Cooperative has cable television located overhead thru the project and will relocate with Xcel Energies Electrical Distribution poles as previously described. There are no further conflicts that those poles previously described.

The contact for Tri-County Communications cable television facilities is Mike Lightfoot, contact information below:

23451 Whitehall Rd
P.O. Box 846
Independence, WI 54747
Telephone: (715) 985-3004
Email: mlightfoot@tcc.coop

Tri-County Communications Cooperative - Communications
Notify Tri-County Communications two working days prior to excavating over their facilities. A representative of Tri County Communications will be on site during all operations where their line may be exposed and work with the contractor on locating and providing any necessary support to their line while exposed.

The contact for Tri-County Communications underground communication facilities is Buck Webb, contact information below:

417 5th Ave N., Strum, WI 54770
Telephone: (715) 695-2691
Email: bwebb@tcc.coop

Station G10+20 RT – Station G10+75 RT Howard Street: Telephone line located within the grading limits. No conflict anticipated.

Station 50+79 RT – Station 51+65 RT STH 93: Telephone line located within the grading limits. No conflict anticipated.

Station 59+75 STH 93 Crossing: Existing overhead crossing will be re-located with Xcel poles.

Station B10+15 RT – Station B10+35 RT 7th Street: Telephone line located outside of the grading limits. No conflict anticipated.

Station C10+15 LT – Station C10+75 LT Tracy Street: No conflict anticipated.

Station D10+15 RT S. 6th Street – Station D11+05 RT N. 6th Street: Installation of new storm sewer manhole, sanitary, and water utilities will conflict, line will remain in service and must be supported during construction.

Station 72+65 LT – Station 82+00 LT STH 93: Conduit packages along STH 93 will remain and be supported and protected as necessary when water and/or sanitary\storm sewer crossings are required. Manholes will be adjusted prior to paving. Notify TCC one day prior to excavating for inlets at 74+15 left, 74+50 left, 77+03 left to expose and protect their line during construction of the inlets.

Station 74+40 STH 93 Crossing: Installation of new storm sewer, sanitary, and water utilities will expose the line.

Station 82+00 LT – Station 83+80 RT STH 93: Conduit packages along STH 93 will remain and be supported and protected as necessary when water and/or sanitary\storm sewer crossings are required.

Station Q100+00 RT – Station 83+80 RT STH 93: Conduit packages along CTH Q will remain and be supported and protected as necessary when water and/or sanitary\storm sewer crossings are required.

Station 83+80 RT – Station 85+85 RT STH 93: Conduit packages along STH 93 will remain and be supported and protected as necessary when water and/or sanitary\storm sewer crossings are required.

Station 85+85 RT – Station90+00 RT STH 93: Telephone and fiber optic lines will be abandoned in place prior to construction.

Station K10+60 LT CTH Q\Adams St: No conflicts expected.

Station K11+50 LT – Station K13+00 CTH Q\Adams St: Installation of new storm sewer utilities will expose the facility however no conflicts are anticipated. Notify TCC one day prior to excavating for inlet to expose and protect their line.

Station 87+10 RT – Station 102+70 RT STH 93: Roadway and slope grading will decrease cover over the fiber optic utility line. No conflicts expected.

Station 94+75 STH 93 Crossing: Installation of new storm sewer manhole, sanitary, and water utilities will conflict, line will remain in service and must be supported during construction.

Station 94+75 LT – Station 104+00 LT STH 93: Fiber optic line is located outside of the grading limits. No conflict anticipated.

Station 104+00 LT – Station 106+50 LT STH 93: Fiber optic line is located within the grading limits, within fill slope. No conflict anticipated.

Station 106+50 – Station 109+25 LT STH 93: Fiber optic line is located outside of the grading limits. No conflict anticipated.

Station 109+25 – Station 110+25 LT STH 93: Fiber optic line is located approximately 40" deep within grading limits of driveway reconstruction. Notify TCC one day prior to excavating for driveway at 109+90 to expose and protect their line. No conflicts anticipated.

Station 110+25 – Station 111+60 LT STH 93: Fiber optic line is located outside of the grading limits. No conflict anticipated.

Station 111+60 – Station 111+75 LT STH 93: Fiber optic line is located approximately 40-inches deep within grading limits of driveway reconstruction. Grading will decrease cover over utility line. No conflicts anticipated.

Station 111+75 LT – Station 120+50 LT STH 93: Fiber optic line is located within the grading limits, within fill slope. No conflict anticipated. Pedestals at 116+85 left and right will be re-located during construction. Notify TCC upon removal of pavement and sidewalk. Work will be completed within one working day.

Station P52+50 RT - 55+15 RT STH 121: Fiber optic line is within temporary widening for Stage 1A and will be moved onto private property prior to construction.

6. Railroad Insurance and Coordination.

A Description

Comply with standard spec 107.17 for all work affecting Wisconsin Central Ltd property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Wisconsin Central Ltd and Its Parents.

Notify evidence of the required coverage, and duration to Jackie Macewicz, Manager Public Works, 1625 Depot St., Stevens Point, WI, 54481, TELEPHONE (715) 345-2503, FAX (715) 345-2534, email jackie.macewicz@cn.ca. Include the following information on the insurance document:

Project: 7132-08-72
Route Name: STH 93, Trempealeau County
Crossing ID: 281 808P
Railroad Subdivision: Whitehall Sub
Railroad Milepost: 183.55

A.2 Work by Railroad
The railroad will perform the no work.

A.3 Names and addresses of Railroad Representatives for Consultation and Coordination
Contact Jackie Macewicz, Manager Public Works, 1625 Depot St., Stevens Point, WI, 54481, TELEPHONE (715) 345-2503, FAX (715) 345-2534, email jackie.macewicz@cn.ca for consultation on railroad requirements during construction.

Contact Mary Ellen Carmody, Audit Officer, Administration Service Center, 700 Pershing Street, Pontiac, MI 48340, TELEPHONE (248) 452-4705, FAX (248) 452-4972, email maryellen.carmody@cn.ca for flagging arrangements. Advise Ms. Carmody that the flagging services are to be billed at the rate for a public highway project.

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

A.4 Temporary Grade Crossing
If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 several weeks prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.5 Train Operation
Approximately two through freight trains operate daily through the construction site. Through freight trains operate at up to 35 mph.

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

Both the department and City of Independence personnel will inspect construction of sanitary sewer and water main under this contract. However, construction staking, testing, and final acceptance of the sanitary sewer and water main construction will be by the City of Independence.
105-001 (20061009)

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Amy Adrihan at (715) 392-7972.
(0080901)

9. Construction Over or Adjacent to Navigable Waters.

Supplement standard spec 107.19 with the following:

Elk Creek is classified as a navigable waterway.
(0040415)

10. Historical\Archeological

The Leo Breska Texaco Company Service Station (AHI #168405) stands on the south side of STH 93 in Independence. The historic boundary along STH 93 coincides with the existing right-of-way. The Texaco Sign at approximately 67+00 RT is to remain and is not to be modified in any way.

The Independence Dam (AHI #168409) is located just east of the STH 93 Bridge in Independence. The historic boundary is consistent with the structure itself as it spans Elk Creek, the long axis of which parallels the adjacent STH 93 bridge.

AHI #49654, the Saints Peter and Paul Catholic Church (AHI #49654) stands on the east side of STH 93. Along STH 93 (Osseo Road), the historic boundary coincides with the right-of-way (and property line).

11. Erosion Control.

Supplement standard spec 107.20 as follows:

Perform construction operations in a timely and diligent manner, continuing all construction operations methodically from the initial topsoil stripping operation through the subsequent grading and finishing to minimize the period of exposure to erosion.

Immediately re-topsoil graded areas, as designated by the engineer, after grading is completed within those areas. Seed, fertilize, and mulch or erosion mat all topsoiled areas within five working days after placement of topsoil.

12. Erosion Control Structures.

Within seven calendar days after the commencement of work on the bridge superstructure, place all permanent erosion control devices, including riprap, erosion mat, ditch checks,

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

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.
107-070 (20030820)

13. 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)

14. Removing Buildings.

Work under this contract includes razing and removing buildings, disposing of all material and debris, removing all miscellaneous land improvements, if any, placing compacted backfill in the exposed basements and openings resulting from the removal of the buildings, and grading the vacant site. Abandon the present sanitary sewer or septic system and water systems in accordance to current statutes, ordinances, and regulations.

Amend standard spec 204.3.2.3 to allow removal of buildings, by relocation, intact to a new site beyond the right-of-way limits.

If the contractor elects to move structure(s) from the parcels but fails to remove the structure(s) from the premises by the time set forth earlier in this contract for completion, the contractor shall forfeit any and all rights, title and interest in the structure(s), and the structure(s) and any salvageable materials remaining on the premises shall revert to the ownership and control of the Wisconsin Department of Transportation to dispose of as it sees fit; but nothing shall in any way release the contractor from any of the contractor's duties, obligations or liability under the terms and provisions of this contract. The contractor shall not sell, nor in any manner transfer title of the structure(s) to a third party until the structure(s) is removed from the right-of-way limits.

The department has no knowledge regarding the condition of the structure(s) or their related components. The department cannot and does not warrant the condition of the

structure(s) or their components, nor does the department warrant, guarantee, or imply the suitability of the structure(s) for moving.

Raze and remove the buildings and backfill the resulting exposed openings at the following locations:

Project	Parcel	Type of Building	Address
7132-08-22	31	Single Story, two stall car wash.	Hwy 93 Independence, WI
7132-08-22	38	Two story commercial structure with residential apartment.	23652 Washington Street Independence, WI
7132-08-22	39	Two story, commercial structure with residential apartments and commercial office space.	23646 Washington Street Independence, WI
7132-08-22	84	One story, single family home with detached two car garage partially converted into a commercial kitchen and a detached, single story commercial office space.	35936 Osseo Road Independence, WI

Perform the following:

- Remove the structures from the premises. This includes all basement walls and floor, slabs and other outdoor fixtures or improvements, clean and remove all debris from the site. The exposed openings for the basement shall be backfilled with sound earth and compacted, graded, seeded and mulched, as well as any other disturbed areas.

- Remove and dispose of all asbestos and hazardous materials in compliance to current local, state, and federal guidelines and laws, including asbestos not discovered in the pre-razing inspections included in these specifications. The most recent edition of any applicable standard, code, or regulation shall be in effect. Where conflict among the requirements of these specifications occurs, follow the most stringent. Only a qualified and certified asbestos removal contractor shall perform the removal of asbestos. If not licensed to remove asbestos, employ a certified subcontractor to perform this work. An inspection report for each building indicating the presence or absence of asbestos in exposed positions of the structure is included in this proposal, unless otherwise indicated.

- The successful bidder shall arrange for the public and/or private utility companies to disconnect their services and remove meters. Make arrangements with the local plumbing inspectors to inspect the abandonment of well and septic systems and/or sewer and water laterals. In accordance to state laws and administrative rules, licensed well driller and pump installer contractors shall accomplish all water well abandonment.

- Conduct all demolition, removal, and backfilling operations in such a manner that all conflicts with vehicular traffic on adjacent streets and highways are avoided. Use barricades or fencing, or both, when needed to guarantee the safety of pedestrians or motorists.

- Definite notice of intentions to start work, and before backfilling operations of the exposed basement notify engineer to inspect the site

- Upon completion of the backfilling operations of the exposed basements and other openings, fine-grade and shape the area.

Underground Fuel Storage Tanks

The successful bidder will be supplied with a copy of the Environmental Site Assessment for each parcel for which an assessment was deemed necessary or for sites on which underground storage tanks were removed. A private consultant will remove any tanks discovered during the Environmental Site Assessment before razing activities begin.

If tanks are discovered on the site during razing that were not removed as part of or in the absence of an Environmental Site Assessment, immediately cease razing operations on the site and contact the department. The department will hire a private consultant to remove the discovered tanks.

Asbestos Removal

Comply with the requirements of the Environmental Protection Agency (EPA) regulations, National Emission Standards for Asbestos, the Occupational, Safety and Health Administration (OSHA) regulations on asbestos removal, all applicable Wisconsin Department of Natural Resources (DNR) regulations, and local government regulations. The most recent editions of all applicable standards, codes, or regulations shall be in effect. Where conflict among the requirements of these specifications occurs, follow the most stringent. In addition, the following requirements apply to this work:

Any person performing asbestos abatement must comply with all training and certification requirements, rules, regulations, and laws of the State of Wisconsin regarding asbestos removal.

Properly notify the Department of Natural Resources and the Department of Health and Social Services at least ten working days prior to starting the project.

Asbestos removal is considered incidental to razing and removing buildings and will not be measured for payment separately.

Disposal of Materials
Supplement standard spec 104.8 with the following:

All salvage removed from the buildings, including fixtures and appurtenances such as screens and storm sash, shall be the property of the contractor and shall be entirely removed from the premises. Clear the entire premises of all decomposable and combustible refuse, debris, and materials resulting from the removal of the buildings. Upon completion of the work, leave the entire premises in a neat condition. Do not deposit or leave decomposable or combustible refuse, debris, or materials resulting from the removal of the buildings on any state-owned lands, or right-of-way of any highways, including any exposed openings resulting from razing activities.

All living trees, shrubs, evergreens and other vegetation shall remain the department's property. Use care to preserve as much of the landscaping as is reasonably possible.

Custody of the Building
Upon written order by the department representative to commence work, the buildings and surrounding state-owned property shall be under the custody of the contractor. Nothing in this proposal shall be interpreted as setting forth the condition of any building or the appurtenances thereto. Except as otherwise provided herein, it is to be understood that the department accepts no responsibility for the protection of buildings and appurtenances against damages sustained either prior to or subsequent to the time of the letting of the work under this contract. The contractor shall take such measures as are necessary to safeguard the public from damages or injury.

While the buildings are in the contractor's custody, keep the buildings in a closed condition. Do not remove doors or windows from the buildings until the actual day of razing, unless all openings are sealed as approved by the engineer. Only the contractor and his subcontractor shall salvage building components. At all times, do not allow the general public in the buildings or on the grounds.

Removal and Razing Operations
This work shall be in accordance to standard spec 204 and as hereinafter provided.

Furnish all labor, equipment, tools, transportation, and incidentals necessary for the performance of the work.

Remove all concrete steps, concrete sidewalks, and concrete slabs from the premises.

In compliance with the ordinances and permit requirements of the municipality in which the buildings are situated and in the presence of the local governing unit, a certified well driller and pump installer shall seal or abandon all sewer and water lines and/or wells.

Until standing walls have been razed, the walls shall be reasonably and safely braced at all times to ensure complete safety during the wrecking operations.

Break, roll, and remove all basement walls, floors, and footings in their entirety from the site.
Dispose of all non-hazardous demolition waste in a landfill licensed or approved in writing by the Department of Natural Resources and in accordance to NR500, Wisconsin Administrative Code. Failure to properly dispose of solid waste is a violation of State Solid Waste Statutes and Administrative code and is subject to issuance of a citation under Wisconsin Statute 287.81(2)(a).

Remove all hazardous materials from the site, **only** after proper notification and compliance with the department requirements of the Wisconsin Department of Natural Resources and local government regulations.

Remove all material from the premises in a safe manner and in compliance with all applicable laws and ordinances. Do not disturb adjacent property.

Backfill
Prior to any backfill operations, notify the engineer to inspect all exposed areas resulting from the razing and removal operations. Ensure that all exposed basements and openings are free of all refuse and debris.

Backfill exposed basements and openings in accordance to standard spec 204.3.1.2 to the present surrounding ground elevation. Compact the backfill in accordance to standard spec 207.3.6.2. Furnish granular backfill meeting the requirements of standard spec 209 for use as backfill material.

Fill the septic systems with granular material and abandon all wells and/or sanitary sewers, if any, in compliance with all ordinances and permit requirements of the municipality in which the buildings are situated and those of the State of Wisconsin.

Fencing
After removing the buildings, furnish and erect suitable fencing around the basement, porch openings, and other large open excavations to protect and safeguard the public from all hazardous conditions created by the operations. Install the fencing in such a manner to ensure that the general public is prevented from falling into any openings. The fence shall be a height of 52 inches, and the posts shall be at least 58-inches high and spaced at a distance no greater than ten feet apart. After all open excavations have been backfilled satisfactorily, remove the fencing.

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

James Gondek, Asbestos License Number AII-108099, and John Roelke, License Number AII-119523, inspected the structure located at STH 93 (Parcel 31) in Independence, Wisconsin for asbestos on November 22, 2013. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Dan Haak of TRC at (608) 826-3828, or dhaak@trcsolutions.com.

In accordance with NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days prior to beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Amy Adrihan: Wisconsin Department of Transportation, Northwest Region, 1701 N. 4th Street, Superior, WI 54880; (715) 392-7972 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI. 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Parcel 31
- Site Address: STH 93 (Parcel 31), Independence, WI
- Ownership Information: WisDOT
- Contact: Amy Adrihan
- Phone: (715) 392-7972

Insert the following paragraph in Section 6.g.:

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

107-125 (20120615)

16. Archaeological Monitoring

Archaeologically significant sites exist in the project area. The site is Saints Peter and Paul Catholic Church property located along the right side of STH 93 from Station 108+57 to Station 113+00 and along PE109+75 on the left from Station PE30+45 to Station PE31+25.

Provide two weeks' notice to the Environmental Services Section before doing any work in the areas of these sites. Environmental Services will provide a qualified archaeologist to be on site at all times when work occurs near these areas.

The contact at Environmental Services is Lynn Cloud, (608) 266-0099.

If a potentially significant archaeological feature or material is discovered during construction operations, the qualified archeologist will promptly coordinate with the WIDOT engineer and with Environmental Services to determine an appropriate course of action.

17. Construction Trenches.

Upon completion of the normal work day and when work is not in progress, all trenches within the roadway or sidewalk resulting from construction activities which are not fully backfilled shall be plated with steel plates suitable for carrying a vehicle or pedestrian traffic, respectively, as directed by the engineer. The plating shall be in addition to the barricades and traffic control devices required for lane colure or traffic control, and shall be incidental to other items of work.

18. Water Distribution Systems.

A Description

This special provision describes references, quality assurance, delivery storage and handling requirements, construction requirements, field quality control, and disinfection as it pertains to installation of the water main pipe and fittings, valves and boxes, hydrants, services, and insulation that make up the water distribution system.

A.1 Summary

Section includes:

1. Water main pipe and fittings.
2. Valves and boxes.
3. Hydrants.
4. Services.
5. Insulation.

A.2 References

ASTM:

1. A126 - Gray Iron Castings for Valves, Flanges, and Pipe Fittings
2. A536 - Ductile Iron Castings
3. B88 - Seamless Copper Water Tube
4. B152 - Copper Sheet, Strip, Plate, Rolled Bar
5. D429 - Tests for Rubber Adhesion to Rigid Surfaces
6. D2842 - Test for Water Absorption of Rigid Cellular Materials
7. D1248 - Polyethylene Plastics Extrusion Materials for Wire and Cable

AWWA:

1. C150 - Thickness Design of Ductile Iron Pipe
2. C151 - Ductile-Iron Pipe, Centrifugally Cast for Water or other Liquids
3. C153 - Ductile-Iron Compact Fittings for Water Service
4. C502 - Dry-Barrel Fire Hydrants
5. C504 - Rubber-Seated Butterfly Valves

6. C509 - Resilient-Seated Gate Valves for Water Supply Service
7. C515 - Reduced-Wall, Resilient-Seated Gate Valves, for Water Supply Service
8. C600 - Installation of Ductile Iron Water Mains and their Appurtenances
9. C605- Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water
10. C900- Polyvinyl Chloride (PVC) Pressure Pipe, 4-inch through 12-inch for Water Distribution.

A.3 Submittals
Submit Certificate of Compliance for products listed under Article 1.04.

Submit proposed method of joint conductivity.

Submit a water main schedule which shall include construction progression, sampling, and flushing locations and any information necessary to complete the installation. A schematic drawing of the Work shall also be provided.

A.4 Quality Assurance
Provide Certificates of Compliance from the manufacturer certifying that the following products meet the respective requirements listed in Article 1.02:

Water main piping
Valves
Hydrants

A.5 Delivery, Storage, and Handling
Inspect all pipe and products during the unloading process. Notify engineer of any cracked, flawed or otherwise defective products. Remove all products found to be defective by the engineer from the Site. Handling and storage of products shall be in accordance to section 2.2 of AWWA C600.

B Execution
B.1 Construction Requirements
Pressure Tap:
Install tap in location shown on the drawings. Use approved tapping machine designed specifically for tapping under pressure. Install tapping sleeve and gate valve as part of assembly. Install blocking as required.

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

Connect to Inplace Fitting:
Isolate segment of inplace pipe and remove blocking as required. Remove plug and drain water from the line. Install blocking as required.

Joint Conductivity:
Provide electrical bond across all joints between pipes and appurtenances. Install copper jumpers by either shop or field applications. Fasten multiple jumper strips with silicon bronze bolts and nuts.

Welding:
Grind surfaces to be welded to remove coating and oxide and to provide clean metal surface. Use metallic-arc process for stop applications. Use exothermic process for field applications. Refinish welded area with protective coating after connection is made.

Thrust Restraint:
Install thrust restraints at all bends, tees and plugs. Concrete Blocking:
Place between the fitting and undisturbed trench wall. Minimum thickness: 12 inches. Minimum area in square feet shall be in accordance to the following:

Pipe	Tee or Plug	1/4 Bend	1/32 and 1/8 Bend	1/16 Bend
6-inch	2.9	3.1	1.6	0.8
8-inch	3.7	5.3	2.9	1.4
10-inch	5.7	8.1	4.4	2.2
12-inch	8.1	13.4	6.6	3.2
16-inch	15.1	21.4	11.6	5.9
20-inch	23.2	30.2	18.1	9.3
24-inch	33.6	48.5	26.1	13.3

Size blocking based on the larger main. Verify that bolts are accessible after concrete is poured.

Timber Blocking: Use for temporary blocking only for maximum 8-inch mains. Minimum timber size: 4-inch by 4-inch.

Restrained Joints: Submit method and type to engineer for approval. Install in accordance to “Thrust Restraint Design for Ductile Iron Pipe”.

B.2 Field Quality Control
Perform the following tests upon completion of the system and prior to being placed into service:

Pressure and Leakage Test:
Perform pressure and leakage test in accordance to AWWA C600. Test Pressure: 150 psi. Test Duration: 2 hours. Gage Requirements: Size: 4-1/2-inch dial. Range: 0 to 200 psi. Gradation: 2 psi. Accuracy: 1/2 percent. Do not allow pressure to vary more than 5 psi during the test. Do not allow pressure to vary more than 2 psi during the last hour of the test. Allowable Leakage: One-half of the volume allowed by AWWA C600 in accordance to the following:

$$L = \frac{SD\sqrt{P}}{266{,}400}$$

L=Allowable Leakage in Gallons Per Hour
S=Length of Pipe Tested in Feet
D=Nominal Diameter of Pipe in Inches
P=Average Test Pressure During Test in Pounds/ Square Inch (Gage)

Testing Services:
Perform separate pressure and leakage test on the services with the corporation stops open. Test Pressure: 100 psi. Allowable Leakage: None. At contractor's option, service testing may be done concurrent with main testing.

Electrical Conductivity Test:
Perform electrical conductivity test to verify that electrical thawing of the system may be accomplished by Owner.

Test Parameters:
Perform test within 1 week after pressure testing. Perform test after back-filling is completed and while line is at normal operating pressure. Test Current: 350 amperes DC plus or minus 10 percent. Test Duration: 5 minutes. Test between hydrants in segments of convenient length.

Procedures: Furnish DC current source, cable and all required equipment of adequate capacity to accomplish the test. Clamp cables to hydrant flange bolts. Conduct test with hydrant in the open position and caps on. Measure current continuously throughout the test with a DC ammeter hooked on a cable lead. Start test at minimum current level and increase to test level. Drain hydrant and tighten caps after test.

Failure and Correction: Failure of a segment shall be determined by current measurements that are insufficient, intermittent or unsteady. Isolate and correct defective contact points as indicated by failed tests. Retest failed segments after correction.

B.3 Disinfection
Disinfect all newly installed water mains, appurtenances and services in accordance to AWWA C651. Tablet or Continuous Feed Method: Hold chlorine solution in pipe for a minimum period of 24 hours. Initial dosage: 50 ppm minimum. Residual dosage after hold period: 10 ppm minimum.

Flush system within 24 hours after disinfection is completed.

Sampling and Testing:
After final flushing, obtain 2 sets of samples taken a minimum of 24 hours apart. Each sample set shall include: One sample for every 1,200 feet of main. One sample at each dead-end. Ensure that 1 sample is obtained from each branch of main.

Minimum sample required: 2. Perform coliform tests on each sample. Rechlorinate if any sample tests positive for coliform.

19. Sanitary Sewer Systems.

A Description

This special provision describes references, submittals, handling and delivery of materials, staking, maintenance, preparation, and field quality control as it pertains to installation of the gravity sanitary sewer pipe, sanitary manholes and appurtenances, service connections, service pipe, and riser pipe that make up the sanitary sewer system.

A.1 Summary

Section Includes:

1. Gravity sanitary sewer pipe.
2. Sanitary manholes and appurtenances.
3. Service connections.
4. Service pipe.
5. Riser pipe.

A.2 References

ANSI:

1. A21.4 - Standard for Cement - Mortar Lining for Ductile Iron Pipe and Fittings
2. A21.11 - Standard for Rubber - Gasket Joints for Ductile Iron Pressure Pipe and Fittings
3. A21.51 - Standard for Ductile Iron Pipe Centrifugally Cast
4. A21.53 - Standard for Ductile Iron Compact Fittings, 3-inch through 16-inch

ASTM:

1. A48 - Specification for Gray Iron Castings
2. A74 - Specification for Cast Iron Soil Pipe and Fittings
3. C76 - Specification for Reinforced Concrete Pipe
4. C361 - Specification for Reinforced Concrete Low Head Pressure Pipe
5. C425 - Specification for Compression Joints for VCP and Fittings
6. C478 - Specification for Precast Reinforced Concrete Manhole
7. C564 - Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
8. D2321 - Recommended Practice for Installation of Flexible Thermo-plastic Sewer Pipe
9. D3034 - Specification for PVC Sewer Pipe and Fittings
10. F477 - Elastomeric Seals for Joining Plastic Pipe
11. F714 - Specification for PE Sewer Pipe and Fittings

A.3 Submittals

Submit Shop Drawings for each manhole. Quality Assurance/Control Submittals: Submit Certificates of Compliance from manufacturers certifying that materials meet reference specifications listed in Article 1.02. Submit record of service connections weekly to engineer.

A.4 Handling and Delivery of Materials
Inspect pipe and materials during unloading process and notify engineer of cracked, flawed or otherwise defective material.

A.5 Staking
Engineer will provide sanitary sewer offset stakes at 50-foot intervals once. Repeat staking shall be provided by contractor.

A.6 Maintaining Sewer System
Maintain flow in sanitary sewers on continuous basis while construction is underway. Plug sewers with inflatable plug. Provide pumps, portable generators, hoses, and related items appurtenant to the Work. Sewer service lines to individual users may be disconnected for a period not to exceed 2 hours.

B Execution
B.1 Preparation
Line and Grade: Provide means for accurately transferring line and grade from ground surface stakes to working point in trench. Water Stops: Provide in manholes as required to prevent infiltration into system.

B.2 Field Quality Control
Remove all dirt and foreign material from pipe interior prior to testing.

Gravity Sewer Pipe:
Pipe Diameter 27 Inches and Smaller: Air test.
Pipe Diameter Larger Than 27 Inches: Infiltration test.

Perform the following tests upon completion of sewer construction and prior to any external plumbing connections:

Infiltration Test:
Manholes shall be watertight, with no leakage permitted. Place 90-degree V-notch weirs in locations directed by engineer to measure leakage in sewer lines. Allowable leakage rate shall be 100 gallons/day/inch diameter/mile of sewer between any adjacent manholes. Provide corrective measures for lines exceeding the allowable leakage rate.

Air Test:
Place inflatable sewer stoppers in manhole at each end of reach to be tested. Connect 1 end of an air hose to plug used for air inlet. Connect other end of hose to portable air control equipment. This equipment consists of valves and pressure gages used to control the rate air flows to the test section and to monitor air pressure inside the pipe. Connect an air hose between compressor (or other source of compressed air) and control equipment. Add air to pipe section. Monitor air pressure so pressure inside pipe does not exceed 5.0 psig. When pressure reaches 4.0 psig, stop air supply so internal pressure is maintained for 2 minutes. These 2 minutes allow time for air temperature to come to equilibrium with the pipe walls. During this time check plugs with soap solution to detect any plug leakage. If plugs are

found to leak, bleed off air, tighten plugs, and begin again by supplying air. After temperature has been allowed to stabilize for 2 minutes, disconnect air supply and allow pressure to decrease to 3.5 psig. At 3.5 psig, start stopwatch to determine time required for pressure to drop to 2.5 psig. Provide corrective measures for any line not meeting requirements. Test results are usually better if sewer pipe walls are damp at time of testing. Time shall be equal to or greater than the allowable time shown in table at end of this section.

Deflection Test:
Perform on PVC pipe at least 30 days after trench backfill has been placed. Perform test by pulling a mandrel through each line between manholes without aid of mechanical pulling devices. Mandrel diameter: Minimum 95 percent of the base inside diameter of the pipe as follows:

Nominal Size (in.)	Base I.D.	5% Deflection Mandrel
4	3.874	3.68
6	5.742	5.46
8	7.665	7.28
10	9.563	9.08
12	11.360	10.79
15	13.897	13.20
18	16.975	16.13
21	20.004	19.01
24	22.481	21.36
27	25.326	24.06
30	28.639	27.21
33	32.224	30.61
36	35.808	34.02
42	40.401	38.38
48	46.094	43.79

The line will be considered acceptable if mandrel can progress through line without binding. Provide corrective measures for lines not meeting these requirements.

Time Required for a 0.5 PSIG Pressure Drop for Size and Length of Pipe Indicated

1 Pipe Diameter (inches)	2 Minimum Time (minutes:seconds)	3 Length for Minimum Time (feet)	4 Time for Longer Length (seconds)	Specified Minimum for Length (L) Shown (minutes:seconds)							
				100 feet	150 feet	200 feet	250 feet	300 feet	350 feet	400 feet	450 feet
4	1:53	597	.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12
8	3:47	298	.760 L	3:47	3:47	3:47	3:47	3:48	4:26	5:04	5:42
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54	39:16
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35	51:17
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:16	50:30	57:42	64:54
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07
33	15:35	72	12.926 L	21:33	32:19	43:56	53:52	64:38	75:24	86:10	96:57
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34	115:23
42	19:74	57	20.942 L	34:54	52:21	69:49	87:15	104:42	122:10	139:37	157:04
48	22:67	50	27.352 L	45:35	68:23	91:11	113:58	136:46	159:33	182:21	205:09

20. Removing Old Structure Over Waterway With Minimal Debris Station 88+42.2, Item 203.0600.S.01.

Conform to standard spec 203 as modified in this special provision.

Add the following to standard spec 203:

203.3.6 Removals Over Waterways and Wetlands

203.3.6.2 Removing Old Structure Over Waterway with Minimal Debris

(1) Remove the existing Structure B-61-0956 over the Elk Creek in large sections and conforming to the contractor's approved structure removal and clean-up plan. During superstructure removal, prevent all large pieces and minimize the number of small pieces from entering the waterway or wetland. Remove all reinforcing steel, all concrete, and all other debris that falls into the waterway or wetland. The contractor may leave limited amounts of small concrete pieces scattered over the waterway floor or wetland only if the engineer allows.

(2) Submit a structure removal and clean-up plan as part of the erosion control implementation plan required under standard spec 107.20. Do not start work under the structure removal and clean-up plan without the department's written approval of the plan. Include the following information in the structure removal and clean-up plan:

- Methods and schedule to remove the structure.
- Methods to control potentially harmful environmental impacts.
- Methods for superstructure removal that prevent all large pieces and minimize the number of small pieces from entering the waterway or wetlands.
- Methods to control dust and contain slurry.
- Methods for removing piers and abutments. If blasting in water, include restrictions that regulatory agencies and the contract require.
- Methods for cleaning the waterway or wetlands.

(3) If stockpiling spoil material, place it on an upland site an adequate distance from the waterway, wetland, or any open water created by excavation. Install silt fence between the spoil pile and the waterway, wetland, or excavation site.

Add the following Removing Old Structure bid item to standard spec 203.5.1:

ITEM NUMBER	DESCRIPTION	UNIT
203.0600.S.01	Removing Old Structure Over Waterway With Minimal Debris Station 88+42.2	LS

203-020 (20080902)

21. Removing Concrete Sidewalk.

Supplement standard spec 204 with the following:

Removal of the concrete sidewalk where buildings\stairs abut the new sidewalk shall include performing a full depth saw cut approximately one foot from the buildings\stairs or as close as possible to the buildings\stairs. Remove the remaining pieces of sidewalk by the buildings\stairs using other methods approved by the engineer. Payment of the full depth saw cut will be paid for under the bid item Sawing Concrete. During the saw cutting and sidewalk removal, take extreme care to not damage the buildings\stairs. The contractor will be responsible for any damage to the building. Salvage any rebar that extend into the sidewalk from the buildings\stairs and incorporate into the new concrete sidewalk.

22. Removing Concrete Retaining Wall (Parcel 77), Item 204.9105.S.01; Removing Concrete Retaining Wall (Parcel 78), Item 204.9105.S.02; Removing Concrete Retaining Wall (Parcel 79), Item 204.9105.S.03

A Description

This special provision describes removing concrete retaining wall in accordance to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement
The department will measure Removing Concrete Retaining Wall as a single lump sum unit of work for each retaining wall and associated items removed, acceptably completed.

E Payment
Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
204.9105.S.01	Removing Concrete Retaining Wall (Parcel 77)	LS
204.9105.S.02	Removing Concrete Retaining Wall (Parcel 78)	LS
204.9105.S.03	Removing Concrete Retaining Wall (Parcel 79)	LS

204-025 (20041005)

23. Temporary Shoring, Item 206.6000.S.

A Description
This special provision describes designing and providing temporary shoring at locations the plans show.

B Materials
B.1 Shoring Design
Provide a shoring design for each location where the plan requires temporary shoring. Have a professional engineer, registered in the State of Wisconsin and knowledgeable of the specific site conditions and requirements, verify the adequacy of the design. Submit one copy of each shoring design, signed and sealed by the same professional engineer verifying the design, to the engineer for incorporation into the permanent project record.

C Construction
Provide temporary shoring at each required location conforming to the design developed for that location.

Remove the shoring when it is no longer needed unless the engineer allows it to remain in place. Backfill the space that is excavated but not occupied by the new permanent construction conforming to standard spec 206.3.13.

D Measurement
The department will measure Temporary Shoring by the square foot acceptably completed at locations the plans show, measured as the area of exposed face in the plane of the shoring from the ground line in front of the shoring to a maximum of one foot above the retained grade. Shoring used for staged construction in multiple configurations without removal and reinstallation will be measured once based on the configuration with the largest area of exposed face.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
206.6000.S	Temporary Shoring	SF

Payment is full compensation for designing and providing shoring; for providing a signed and sealed copy of the design; and for backfilling and removing the shoring.

The department will not pay for temporary shoring, installed for contractor convenience, that is not required in the plans.

206-005 (20110615)

24. 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 sublot 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)

25. Steel Piling.

Supplement standard spec 511.3 as follows:

All pile driving operations shall be done in compliance with Wisconsin Administrative Code, Chapter COMM 7, unless otherwise noted in the plan documents.

Pile Driving Plan Submittal. Not less than two weeks prior to commencing pile driving operations, or at any time the contractor proposes to change pile driving methods, the contractor shall submit a Pile Driving Plan to the engineer for review. The pile-driving plan shall contain full details of the steel pile driving operations and the methods employed to control and monitor vibration levels. The pile-driving plan shall contain the following minimum information:

- Listing and description of equipment and tools used.
- Description of proposed pile driving methods and operations.
- Discussion of methods employed to control and monitor vibration levels.

The pile driving plan submittal is for quality control and record keeping purposes. Review of this plan by the engineer shall not relieve the contractor of his responsibility for the accuracy and adequacy of the plan when implemented in the field.

Safety. The engineer shall, at all times, have the authority to prohibit or halt the contractor's pile driving operations if it is apparent that through the methods being employed, the safety and convenience of the traveling public is being jeopardized or that vibration levels are excessive or above allowable levels.

Condition Surveys. The contractor shall conduct and document preconstruction and post-construction surveys of any nearby buildings or structures that have a potential for vibration damage. The engineer may require condition surveys of facilities not deemed to have damage potential by the contractor. The contractor shall make right of entry arrangements with the property owners for these condition surveys. Prior to any pile driving, the pre-construction

survey records shall be made available to the engineer for review. After completion of pile driving work, the contractor will perform a post-construction survey and make these records available to the engineer for review. The contractor shall be responsible for any damage resulting from pile driving operations.

These condition surveys shall consist of visually inspecting and recording all existing defects in the structures before and after construction. Photographs and/or videotape may be used to assist in documentation. Condition surveys will be performed on structures within 100 feet of pile driving operations when a vibratory hammer will be used. The contractor shall submit a written report to the department, detailing the visual and photographic investigation of potentially affected structures. This report will include copies of the pre-construction and post-construction surveys and discuss any discrepancies and findings.

Vibration Control and Monitoring. All vibration control and monitoring shall comply with COMM 7.63, Instrumentation and COMM 7.64, Control of Adverse Effects.

Whenever there is a potential for vibration damage to adjacent buildings, structures, or utilities, the contractor shall monitor the piling installation operations with an approved seismograph, located as approved, between the pile driving work and the closest structure subject to vibration damage, and as close as practical to the subject structure. Peak particle velocity shall not be allowed to exceed the safe limits of the nearest structure subject to vibration damage. The contractor shall monitor vibrations when using a vibratory hammer and structures are within 100 feet of the pile driving operations.

Vibration monitoring shall be performed by a qualified vibration specialist, subject to the engineer's approval. The vibration specialist shall monitor vibration levels in accordance to Chapter COMM 7.64(4) of the Wisconsin Administrative Code and interpret the seismograph records to ensure that the seismograph data shall be effectively utilized in the control of pile driving operations with respect to the existing structures and utilities.

Chapter COMM 7.64 (4)-2 of the Wisconsin Administrative Code states that the maximum allowable limit on ground vibration for structures not listed in Chapter COMM 7.64 (4)-1 shall be established after consulting with the owner of the structure or utility. In no case shall these vibration limits exceed the following criteria:

Structure Type	Maximum Peak Particle Velocity (Inches per Second)
Reinforced Concrete Structures, Unoccupied	4.0
Steel Structures, Unoccupied	4.0
Buried Utilities	2.0
Wells and Aquifers	2.0
Green Concrete (Less Than 7 Days)	1.0

Data recorded for each vibration occurrence shall be furnished to the engineer prior to the next vibration-causing work and shall include the following:

- Identification of vibration monitoring instrument used.
- Description of equipment used by the contractor.
- Name of qualified observer and interpreter.
- Distance and direction of recording station from the vibration area.
- Type of ground at recording station and material on which the instrument is sitting.
- Peak particle velocity and principal frequency in each component.
- A dated and signed copy of records of seismograph readings.
- A comparison of measured seismograph readings to maximum allowable readings identified in Chapter COMM 7 of the Wisconsin Administrative Code or as specified in this Special Provision.
- If the maximum allowable vibration levels are exceeded, the contractor will halt further pile driving operations until he documents the operational changes to be used to reduce the next vibration levels to below the acceptable levels.

If the recorded vibration data exceeds the allowable levels established in Chapter COMM 7 of the Wisconsin Administrative Code or as specified in this Special Provision, the contractor will immediately halt all work creating the excessive vibrations until such time that the contractor changes his operations and can show that acceptable vibration levels will be maintained.

All costs associated with the work described herein shall be considered incidental to the bid item of "Steel Piling".

26. Concrete Staining Multi-Color B-61-211, Item 517.1015.S.01.

A Description

Furnish and apply a multi-color concrete stain to the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

B Materials

B.1 Mortar

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

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

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

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

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces. Use the following products, or equal as approved by the department:

Tri-Sheen Concrete Surfacer, Smooth by TK Products
Tri-Sheen Acrylic by TK Products
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products
Safe-Cure and Seal EPX by Chem Masters
H + C Shield Plus by Sherwin-Williams

C Construction

C.1 General

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

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

C.2 Preparation of Concrete Surfaces

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

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

C.3 Staining Concrete Surfaces

Apply the concrete stain in accordance to the manufacturer's recommendations.

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

The color of the staining shall produce a multi-color effect that consists of multiple colors replicating varying natural stone coloration. Stain the joints between stones produced by the form liner to create the appearance of grouted joints.

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

C.4 Test Areas
Prior to applying stain to the structure, apply the stain to sample panels measuring a minimum of 48-inches x 48-inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, prior to staining. Submit color samples to the department prior to staining the sample panels. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between stones produced by the form liner. Do not apply stain to the structure until the department approves the test panels.

C.5 Surfaces to be Coated.
Apply concrete stain to the surfaces in accordance to the plan.

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

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1015.S.01	Concrete Staining Multi-Color B-61-211	SF

Payment is full compensation for furnishing and applying the coloring system; for preparing the concrete surface; and for constructing and staining the sample panels.
517-115 (20130615)

27. Architectural Surface Treatment B-61-211, Item 517.1050.S.01.

A Description
Construct a concrete masonry architectural surface treatment on the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

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

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

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

C Construction

C.1 Equipment

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

C.2 Form Liner Preparation

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

Apply form release per manufacturer's recommendations.

C.3 Form Liner Attachment

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

C.4 Surface Finishing

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

Grind or fill pouring blemishes.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment B-61-211	SF

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

517-150 (20110615)

28. Concrete Steps.

Supplement standard spec 602.3.3 as follows:

The contractor shall provide access, meeting the approval of the engineer and property owner or resident, while step reconstruction is taking place.

29. Cover Plates Temporary, Item 611.8120.S.

A Description
This special provision describes furnishing, installing and removing a steel plate to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

B Materials
Provide a 0.25-inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C (Vacant)

D Measurement
The department will measure Cover Plates Temporary as units, acceptably completed in place.

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	Each

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.
611-006 (20030820)

30. Fence Safety, Item 616.0700.S.

A Description
This special provision describes furnishing and installing a plastic fence at locations shown on the plans and as hereinafter provided.

B Materials
Furnish notched conventional metal “T” or “U” shaped fence posts.

Furnish fence fabric meeting the following requirements:

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Service Temperature:	-60° F to 200° (ASTM D648)
Tensile Yield:	Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

Drive posts into the ground 12 to 18 inches. Space posts at 7 feet.

Where specified to be installed along existing railing, install fence in a way as to not damage the existing railing yet provides a secure barrier to pedestrian traffic.

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

D Measurement

The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S.	Fence Safety	LF

Payment is full compensation for furnishing and installing fence, posts and fasteners; and maintaining in satisfactory condition; and for removing and disposing of fence, posts and fasteners at project completion.

31. General Requirements for Electrical Work.

Amend standard spec 651.2, Materials, by adding the following paragraphs:

(7) The approved products list is located at:
http://www.dot.wisconsin.gov/business/engrserv/docs/ap4/electrical.pdf

32. Electrical Service Meter Breaker Pedestal (CB 100), Item 656.0200.01; Electrical Service Meter Breaker Pedestal (CB 200), Item 656.0200.02.

A Description
This work shall be in accordance to the requirements of standard spec 656, the plans, standard detail drawings, and as hereinafter provided.

B Materials
In accordance to standard spec 656.2 with the following exception:

Amend standard spec 656.2.3, Meter Breaker Pedestal Service, by adding the following paragraph:

(2) Furnish meter pedestal with a painted finish. Paint meter pedestal using an epoxy primer and topcoat to match the lighting control cabinet finish.

C Construction
In accordance to standard spec 656.3 with the following exception:

Amend standard spec 656.3.2, Service Lateral, paragraph (1) to read as follows:

(1) The local utility shall furnish and install a 100 A, 120/240 volt AC, single phase, 3-wire underground electrical service lateral. Arrange and assume responsibility for the timely installation of the service lateral by the utility. The lateral shall be terminated at a meter pedestal as the plans show.

Submit the application to the utility for all required electrical services. Pay the utility installation costs promptly and seek reimbursement through the "Electrical Service Lateral" administrative contract bid item.

Arrange for future monthly energy usage billing to be established in the name of the appropriate entity. Contact the City of Independence for this information.

Ensure that electrical service is installed and energized a minimum of one week prior to the lighting system activation deadline.

D Measurement
The department will measure the Electrical Service Meter Breaker Pedestal bid item as a single lump sum for each service acceptably completed.

E Payment
In accordance to the plans and standard spec 656.5.

33. Anchor Assemblies Light Poles on Structures, Item 657.6005.S.

A Description
This special provision describes furnishing and installing anchor bolt assemblies for light poles as shown on the plans, and as hereinafter provided.

B Materials
Furnish anchors of the size and spacing as given on the plans, and that conform to ASTM A449 or AASHTO M314 GR 55. The upper 8 inches of the bolts, nuts, and washers shall be hot-dipped galvanized in accordance to ASTM A153, Class C. Provide enlarged threads on nuts for proper fit after galvanizing.

C Construction
Provide two nuts and two washers per anchor bolt, and install per light standard manufacturer's recommendations.

D Measurement
The department will measure Anchor Assemblies Light Poles on Structures as a unit for each individual anchor bolt assembly, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
657.6005.S	Anchor Assemblies Light Poles on Structures	Each

Payment is full compensation for furnishing and installing the anchorages.
657-060 (20100709)

34. Seismograph 7130-08-72, Item 999.1000.S.01; 7132-08-72, Item 999.1000.S.02.

A Description
This special provision describes furnishing a seismograph and employing trained operators to continuously monitor building vibration.

B Material
Use seismographs that are in accordance to ILHR 7.63, and are continuous strip recorders supplied with all the accessories necessary for making seismographic observations.

C Construction
Monitoring procedures shall be in accordance to ILHR 7.64 and the following: Take seismograph readings prior to construction activities to establish an ambient index.

Place the seismograph to continuously monitor all construction activities or as directed by the engineer. If construction activities generate ground vibration in excess of the Peak Particle Velocity Limits as shown in ILHR 7.64, stop the construction operation in progress and consider and implement alternate construction methods.

D Measurement
The department will measure Seismograph as a single complete lump sum unit of work, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1000.S.01	Seismograph (7130-08-72)	LS
999.1000.S.02	Seismograph (7132-08-72)	LS

Payment is full compensation for furnishing and operating a seismograph, an operator, and accessories.
999-005 (20030820)

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

A Description
This special provision describes conducting a crack and damage survey of the residences and business located adjacent to STH 93 between Station 77+00 and 86+00.

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 lump sum unit of work, acceptably completed.

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

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

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

36. Shredded Hardwood Bark Mulch, Item SPV.0035.01.

A Description
This special provision describes furnishing and installing Shredded Hardwood Bark Mulch at the locations shown on the plans and in accordance to the requirements of standard spec 632, the plans, and as hereinafter provided.

B Materials
Provide Shredded Hardwood Bark Mulch, as shown on plan and in accordance to standard spec 632.2.6.

Shredded Hardwood Bark Mulch shall be finely shredded and shall be the product of a mechanical chipper, hammermill, or tub grinder. The material shall be fibrous and uniformly dark brown in color, free of large wood chunks, and shall be substantially free of mold, dirt, sawdust, and foreign material. No portion of the material shall be in an advanced state of decomposition.

The material shall not contain chipped up manufactured boards or chemically treated wood, including but not limited to wafer board, particle board, and chromated copper arsenate (CCA) or penta-treated wood. The material shall contain no bark of the black walnut tree.

The material, when air dried, shall all pass a 4- inch screen and no more than 20 percent by mass of the material shall pass a 0.10-inch sieve. Unattached bark or greenleaf composition, either singly or combined, shall not exceed 20 percent each by mass. The maximum length of individual pieces shall not exceed 4 inches.

C Construction
Install mulch in accordance to standard spec 632.3.9 to a depth of 3 inches over entire area of bed. Keep mulch 1" below finish elevation of adjacent paved surfaces while maintaining 3 inch depth.

Do not use any weed barrier fabric in bark mulch areas. Place the Shredded Hardwood Bark Mulch in such a manner as to not damage plants already in place.

D Measurement
The department will measure Shredded Hardwood Bark Mulch by the cubic yard, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Shredded Hardwood Bark Mulch	CY

Payment is full compensation for furnishing and installing all materials.

37. Sidewalk Vault Closure, Item SPV.0035.02.

A Description
This work shall consist of constructing a concrete masonry retaining wall for closure of existing sidewalk vault openings as shown on the plans.

B Materials
Concrete masonry retaining wall shall meet the requirements of standard spec 504. Waterproof membrane shall comply with pertinent standard specs of standard spec 516.

C Construction
Concrete masonry retaining wall shall meet the requirements of section 504 of the standard specifications. Waterproof membrane shall comply with pertinent sections of section 516.

D Measurement
The department will measure Sidewalk Vault Closure by the cubic yard in place, acceptably completed. This quantity will include the vault opening plus 6 inches coverage on each side of the opening.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Sidewalk Vault Closure	CY

Payment is full compensation for furnishing and installing all concrete masonry retaining wall, for waterproof membrane painting on all exposed foundation wall surfaces. Removing sidewalk and the granular backfill of vault will be paid for separately under the respective bid items.

38. Concrete Masonry Footing, Item SPV.0035.03.

Construct the concrete masonry footing in accordance to standard spec 504 and in accordance to the plan details.

39. Storm Sewer Exploration, Item SPV.0060.01.

A Description
This special provision describes performing the exploratory excavation of the stormsewer in sufficient advance of the grading and storm sewer construction operations to allow uninterrupted progress of these operations.

B (Vacant)

C Construction
Excavate any materials to expose the top of the drainage structure, remove any obstructions between the top of the structure so that the flow line may be determined. Notify the engineer once the flowline of the pipe is visible.

D Measurement
The department will measure Storm Sewer Exploration by each structure, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Storm Sewer Exploration	Each

Payment is full compensation for furnishing all excavation, for placing and compacting backfill material, and for restoring the work site.

40. Metal Bench, Item SPV.0060.02.

A Description

This special provision describes furnishing and installing a metal bench anchored in concrete sidewalk as shown on the plans and as hereinafter provided.

B Materials

Furnish outdoor, street furniture quality, 6 foot metal bench, black in color, with vertical metal slats and decorative arms on each end. Metal Bench will be capable of anchoring into concrete. Some models which conform to this specification are:

CR-10 Classic Series Bench
Victor Stanley, Inc.
P.O. Drawer 330
Dunkirk, Maryland 20754 USA
(800) 368-2573

Model 510-0086
Campton Bench
Barco Products
11 N. Batavia Ave.
Batavia, IL 60510
(800) 338-2697

Model # LB-72
Lemars Series Classic Ribbed Steel Park Bench
Belson Outdoors, Inc.
111 North River Road
North Aurora, IL 60542
(630) 897-8489

Furnish stainless steel anchor bolts, nuts and washers or as required by manufacturer for anchored installation in concrete. Manufacturers shop drawings and installation instructions shall be submitted to engineer. Engineer will approve shop drawings and tree grate pattern prior to installation.

C Construction

Assemble Metal Bench according to manufacturer's instructions and set in place as shown on plans and the details. At this time request engineer's approval of placement, if needed, relocate as directed by the engineer before anchoring into concrete.

D Measurement

The department will measure Metal Bench by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Metal Bench	Each

Payment is full compensation for furnishing and placing all materials.

41. Trash Receptacles, Item SPV.0060.03.

A Description

The work of this item includes furnishing and installing Trash Receptacle anchored in concrete sidewalk at the locations as shown on the plans, or as directed by the engineer.

B Materials

Furnish street furniture quality metal trash receptacle, black in color, with a minimum 32 gallon capacity, maximum 36-gallon capacity. Exterior appearance should be a cylindrical container, consisting of vertical metal slats with a flare at the top. Receptacle will be capable of anchoring into concrete and have a solid liner and have a top shielding contents from rain.

Some models which conform to this specification are:

(PRS-36) Production Series 36 gal Receptacle with Rain Bonnet Lid

Victor Stanley, Inc.
P.O. Drawer 330
Dunkirk, Maryland 20754 USA
(800) 368-2573

Model # BRKT32 Ribbed Steel Trash Receptacle with Rain Bonnet

Belson Outdoors, Inc.
111 North River Road
North Aurora, IL 60542
(630) 897-8489

Model BRKT32
32 Gallon Receptacle
Barco Products
11 N. Batavia Ave.
Batavia, IL 60510
(800) 338-2697

Furnish stainless steel anchor bolts, nuts and washers or as required by manufacturer for anchored installation in concrete. Manufacturers shop drawings and installation instructions shall be submitted to engineer. Engineer will approve shop drawings and tree grate pattern prior to installation.

C Construction

Assemble Trash Receptacle according to manufacturer's instructions and set in place as shown on plans and the details. At this time request engineer's approval of placement, if needed, relocate as directed by the engineer before anchoring into concrete.

D Measurement
The department will measure Trash Receptacle by each individual unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Trash Receptacles	Each

Payment is full compensation for furnishing and placing all materials.

42. Tree Grate, Item SPV.0060.04.

A Description
Under this specification for tree grate, the contractor shall furnish and install the tree grate, frame, and all hardware necessary for installation in the location and manner specified in the plans per the pertinent provisions of standard specs 501 and 505.

B Materials
Tree grates and frames will be grey cast iron conforming to ASTM A-48 Class 35B or better. They will be of uniform quality, free from blowholes, porosity, hard spots, shrinkage distortion or other defects. The tree grates and frames will be smooth and well cleaned by shot-blasting and free of paint or primer. The tree grate pattern will comply with A.D.A. Guidelines. Manufacturers shop drawings and installation instructions shall be submitted to engineer. Engineer will approve shop drawings and tree grate pattern prior to installation.

Acceptable manufacturers and products include:

Neenah Foundries
2121 Brooks Avenue
P.O. Box 729
Neenah, WI 54956
(800) 558-5075
Fax: (920) 729-3661
Adirondack R-8742

East Jordan Iron Works, Inc.,
301 Spring Street
East Jordan, Michigan 49727
(800) 626-4653
Plaza 8654

Urban Accessories
465 East 15th Street
Tacoma, WA 98421
(877) 487-0488
Fax: (253) 572-1119
Fan: 4' square

Or approved equal.

C Construction
Installation as detailed per plans will be in accordance to the manufacturer's recommendations.

D Measurement
The department will measure Tree Grate by each individual unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Tree Grate	Each

Payment is full compensation for furnishing all necessary materials, including tree grate, frame, and necessary hardware.

43. Sidewalk Inlet, Item SPV.0060.05.

A Description
This special provision describes furnishing and installing a sidewalk inlet, in accordance to the plan details and as hereinafter provided.

B Materials
Inlet must connect to a 6-inch drain tile and be able to withstand medium-duty pneumatic tire traffic, autos, and light trucks at speeds less than 20 MPH and be ADA compliant. Drainage grate must fit snugly into inlet, be connected to the frame on which it rests and be removable. Grate must have a flow capacity of greater than 40 gallons per minute.

C Construction
Connect inlet to 6-inch underdrain, verify that subgrade material is adequate to support inlet assembly. Install inlet vertical, plumb and flush with the finished surface. Protect inlet from debris during sidewalk installation and verify that inlet remains plumb and centered. Install grate upon completion of sidewalk installation.

D Measurement
The department will measure Sidewalk Inlet by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Sidewalk Inlet	Each

Payment is full compensation for excavation, furnishing, and installing all materials, including inlet and grate, backfill material, for placing and compacting backfill material, and for restoring the work site.

44. Gate Valve and Box, 6-Inch, Item SPV.0060.31; 8-Inch, Item SPV.0060.32.

A Description

This special provision describes furnishing and installing gate valves and valve boxes, in accordance to the plan details and as hereinafter provided.

B Materials

Gate Valves, shall be mechanical-joint, resilient wedge type rated for 200-psi cold water working pressure design. Gate valves shall have O-ring packing and non-rising stem, with a 2-inch square operating nut, and open counter-clockwise (left-hand opening). Gate Valves shall be in accordance to AWWA C515. Markings to be cast on the bonnet or body shall include: open indicating arrow, manufacturer's name, pressure rating, year of manufacture, and size.

Valve boxes shall be cast iron, vertical, 3 piece, Buffalo type with a 5-1/4 inch shaft. Shaft screw type boxes shall be of adequate length to provide for 8 feet of pipe cover and be adjustable to 6 inches up or down from the standard box length.

C Construction

Verify that subgrade material is adequate to support valve assembly. Install valves with stems vertical and plumb. Install boxes plumb and centered over the valve nut. Verify that box remains plumb and centered during backfill. Adjust box cover to required grade.

D Measurement

The department will measure Gate Valve (Size) and Valve Box by each individual unit where each unit includes one gate valve and valve box, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.31	Gate Valve, 6-Inch and Valve Box	Each
SPV.0060.32	Gate Valve, 8-Inch and Valve Box	Each

Payment is full compensation for excavation; furnishing and installing materials; backfilling; disposing of surplus material, adjusting to match final grade, cleanup and restoring work.

45. Tee, 6-Inch x 6-Inch, Item SPV.0060.33; 8-Inch x 6-Inch, Item SPV.0060.34, 8-Inch x 8-Inch, Item SPV.0060.35; 10-Inch x 6-Inch; Item SPV.0060.36; 10-Inch x 8-Inch, Item SPV.0060.37.

A Description

This special provision describes installing tees in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials

Ductile Iron: AWWA C153 (ANSI A21.53); Cement-Mortar Lining: AWWA C104; Joints: Mechanical.

C Construction

Provide all tees on all mains with a reaction backing as shown or specified.

D Measurement

The department will measure Tee (Size) 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.0060.33	Tee, 6-Inch x 6-Inch	Each
SPV.0060.34	Tee, 8-Inch x 6-Inch	Each
SPV.0060.35	Tee, 8-Inch x 8-Inch	Each
SPV.0060.36	Tee, 10-Inch x 6-Inch	Each
SPV.0060.37	Tee, 10-Inch x 8-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

46. Plug, 6-Inch, Item SPV.0060.38; 8-Inch, Item SPV.0060.39.

A Description

This special provision describes installing plugs in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials

Ductile Iron: AWWA C153 (ANSI A21.53)

C Construction
Provide all tees on all mains with a reaction backing as shown or specified.

D Measurement
The department will measure Plug (Size) 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.0060.38	Plug, 6-Inch	Each
SPV.0060.39	Plug, 8-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

47. Reducer, 6-Inch x 4-Inch, Item SPV.0060.40; 8-Inch x 6-Inch, Item SPV.0060.41.

A Description
This special provision describes installing a reducer in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Ductile Iron: AWWA C153 (ANSI A21.53)

C Construction
Provide all reducers on all mains with a reaction backing as shown or specified.

D Measurement
The department will measure Reducer (Size) by the 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.0060.40	Reducer, 6-Inch x 4-Inch	Each
SPV.0060.41	Reducer, 8-Inch x 6-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

48. Corporation, 1-Inch, Item SPV.0060.42.

A Description

This special provision describes excavating, furnishing, and installing corporation stop in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials

Furnish corporation stops that are Mueller H-150000, Ford F600, or equal. The inlet shall have an AWWA taper thread. The outlet shall have a copper flare straight connection.

C Construction

Install corporation stops with a watertight connection with approved tapping machine. Install under main pressure. Place a double wrap of Teflon tape around the threads prior to installation.

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

Curb stop and box shall be installed at the location shown on the drawings. Verify that the subgrade material is adequate to support the curb box assembly. Install boxes plumb and centered over the tee head. Verify that box remains plumb and properly aligned during backfill. Adjust box cover to required grade. Key all curb stops after backfill to ensure proper operation.

D Measurement

The department will measure Corporation 1-Inch by each individual unit installed 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.0060.42	Corporation, 1-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

49. Curb Stop and Box, 1-Inch, Item SPV.0060.43.

A Description

This special provision describes excavating, furnishing, and installing curb stop and box in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Furnish curb stops and boxes with valve type Mueller H-15154 Mark II Oriseal, or equal. The inlet and outlet shall have a copper service thread. The box shall be type Minneapolis Pattern, extension, with length of 8 feet, upper section diameter of 1.5 inches, and be adjustable to 6 inches up or down from specified length.

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

Curb stop and box shall be installed at the location shown on the drawings. Verify that the subgrade material is adequate to support the curb box assembly. Install boxes plumb and centered over the tee head. Verify that box remains plumb and properly aligned during backfill. Adjust box cover to required grade. Key all curb stops after backfill to ensure proper operation.

D Measurement
The department will measure Curb Stop and Box, 1-Inch by each individual unit installed 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.0060.43	Curb Stop and Box, 1-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; adjusting to match final grade, cleaning up and restoring the site of work.

50. Fire Hydrant, Item SPV.0060.44.

A Description
This special provision describes placing a hydrant in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Furnish dry barrel hydrants that meet the requirements of AWWA C502. Hydrants shall be Waterous Pacer WB67 or equal. There shall be 2 hose connections, each 2-1/2 inch diameter. There shall be one steamer connection, 4-inch diameter. The threads shall be National Standard. The Operating Stem shall open left with O-ring seals. The hydrant shall have a traffic flange. The hub shall be a 6-inch mechanical joint. The main valve opening shall be 5-inch diameter. The barrel diameter shall be 5-inch. Drain to operate only when hydrant is closed. Bury depth shall be 8.5 feet (ground to bottom of hub). Hydrants shall have a 16-inch break off section. The cap nuts shall be pentagon. They color shall be red.

Provide permanent markings which indicate manufacturer's name, year of manufacture, and bury depth.

C Construction
Verify that subgrade material is adequate to support hydrant. Place thrust block, crushed rock and tar paper in accordance to Drawing details. Install and maintain hydrant in a plumb position. Where groundwater is present, plug drain hole and affix "Pump After Use" tag to the hydrant.

D Measurement
The department will measure Fire Hyddrant as each individual unit, acceptably completed. Unit includes installation of hydrant, base, blocking and crushed rock.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.44	Fire Hydrant	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

51. Connecting to Existing Water Main, 4-Inch, Item SPV.0060.45; 6-Inch, Item SPV.0060.46; 8-Inch, Item SPV.0060.47, 10-Inch, Item SPV.0060.48.

A Description
This special provision describes making a connection to the existing water main, as shown on the plans, and as hereinafter provided.

B Materials
Provide backfill that is in accordance to the standard specifications.

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

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

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

D Measurement
The department will measure Connecting to Existing Water Main (Size) 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.0060.45	Connecting to Existing Water Main, 4-Inch	Each
SPV.0060.46	Connecting to Existing Water Main, 6-Inch	Each
SPV.0060.47	Connecting to Existing Water Main, 8-Inch	Each
SPV.0060.48	Connecting to Existing Water Main, 10-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

52. Adjusting Water Main Valve, Item SPV.0060.49.

A Description
This special provision describes adjusting valve box heights in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Valve Boxes Extension: Cast Iron 5-1/4" screw type

C Construction
Adjust the water valve box height by excavating around the existing valve box and rotating the top section to the new grade; backfilling to grade.

Add or remove midsections, as necessary, to make adjustments; allow for at least 6 inches of top section adjustment to remain.

Make valve adjustments in paved areas after the binder course has been laid; cut and remove the binder course to allow for the valve box top section to be adjusted to 1/8 inch to ¼ inch below the finished asphalt elevation. Replace removed asphalt with hot mix asphalt of comparable grade to the binder course.

D Measurement
The department will measure Adjusting Water Main Valve by each individual adjustment, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.49	Adjusting Water Main Valve	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

53. Removing Hydrant and Lead, Item SPV.0060.50.

A Description
This special provision describes removing hydrant and valve in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Provide backfill that is in accordance to the standard specifications.

C Construction
Hydrant removal consists of excavating to hydrant base, and removing all appurtenances. Install a plug at main end and connect using mechanical joints. Upon removal, backfill to grade.

D Measurement
The department will measure Removing Hydrant and Lead by each individual unit, acceptably removed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.50	Removing Hydrant and Lead	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

54. Removing Gate Valve, Item SPV.0060.51.

A Description
This special provision describes removing gate valve in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Provide backfill that is in accordance to the standard specifications.

C Construction
Gate valve removal consists of excavating to base, and removing all appurtenances. Install a plug at main end and connect using mechanical joints. Upon removal, backfill to grade.

D Measurement
The department will measure Removing Gate Valve by each individual unit, acceptably removed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.51	Removing Gate Valve	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

55. Removing Existing Curb Stop and Box, Item SPV.0060.52.

A Description
This special provision describes removing existing curb stop and box in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
Provide backfill that is in accordance to the standard specifications.

C Construction
Removing Existing Curb Stop and Box consists of excavating to base, and removing all appurtenances. Install a plug at main end and connect using mechanical joints. Upon removal, backfill to grade.

D Measurement
The department will measure Removing Existing Curb Stop and Box by each individual unit, acceptably removed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.52	Removing Existing Curb Stop and Box	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

56. Removing and Salvaging Drinking Fountain, Item SPV.0060.53.

A Description
This special provision describes removing and salvaging drinking fountain in accordance to standard specs 204 at a location referred to in the plans and as hereinafter provided.

B (Vacant)

C Construction
Remove existing drinking fountain taking care as to not damage the unit. Upon removal, deliver to the City of Independence Wastewater Treatment facility. Contact Dennis Pronschinske at (715) 530-0934 to schedule a time for delivery.

D Measurement
The department will measure Removing and Salvaging Drinking Fountain for each individual unit, acceptably salvaged.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.53	Removing and Salvaging Drinking Fountain	Each

Payment is full compensation for removal and delivery of the water fountain, and all incidentals necessary to complete the contract work.

57. Sanitary Manhole, Type 1, Item SPV.0060.54.

A Description
Furnish and install a sanitary drop manhole including furnishing and installing manhole sections and adjusting rings.

B Materials
The precast section shall conform to ASTM C478, Cone: Eccentric, Pipe Joints: Gasketed, water-tight. Covers and Frames shall conform to ASTM A48, Neenah Type R-1642 with concealed pick holes. The steps shall be cast aluminum by Modern Metals Foundary (A-12) and by polypropylene coated steel by MA Industries. The seals shall be by Infi-shield, Inc. or approved equal.

C Construction
Place precast manhole base on a compacted granular subgrade. Locate steps within 1 inch of vertical alignment and within 1 inch of required vertical spacing. Provide monolithic base for drop manholes. Maximum allowable deviation from staked grades: Alignment: 0.30 feet, Elevation: 0.03 feet.

D Measurement
The department will measure Sanitary Manhole, Type 1 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.0060.54	Sanitary Manhole, Type 1	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

58. Sanitary Sewer Wye, 8-Inch x 4-Inch, Item SPV.0060.55; 8-Inch x 6-Inch, Item SPV.0060.56; 10-Inch x 4-Inch, Item SPV.0060.57; 10-Inch X 6-Inch, Item SPV.0060.58; 10-Inch x 8-Inch, Item SPV.0060.59.

A Description
This special provision describes furnishing and installing sanitary sewer wyes.

B Materials
The sanitary sewer wyes, shall be PVC SDR 35 in accordance to ASTM D3034-04a and Article 3.2.5 (a) of standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

C Construction
Construction shall be in accordance to Chapter 5.3.0 *Laying of Building Sewers* of standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

D Measurement
The department will measure Sanitary Sewer Wye (Size) by each individual wye, 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.0060.55	Sanitary Sewer Wye, 8-Inch x 4-Inch	Each
SPV.0060.56	Sanitary Sewer Wye, 8-Inch x 6-Inch	Each
SPV.0060.57	Sanitary Sewer Wye, 10-Inch x 4-Inch	Each
SPV.0060.58	Sanitary Sewer Wye, 10-Inch x 6-Inch	Each
SPV.0060.59	Sanitary Sewer Wye, 10-Inch x 8-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

59. Bend, 8-Inch, 45 Degree, Item SPV.0060.60; 90 Degree, Item SPV.0060.61.

A Description
This special provision describes installing a 8-inch bend in accordance to standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and as hereinafter provided.

B Materials
ASTM A536, AWWA C153 (ANSI A21.53).

C Construction
Provide all plugs, caps, tees, and bends deflecting 22 1/2 degrees or more on all mains with a reaction backing or prevent movement by attaching suitable metal rods or clamps as shown or specified.

D Measurement
The department will measure Bend, 8-Inch by each individual type and 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.0060.60	Bend, 8-Inch, 45 Degree	Each
SPV.0060.61	Bend, 8-Inch, 90 Degree	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

60. Connect to Existing Sanitary Sewer, Item SPV.0060.62.

A Description
This special provision describes furnishing and installing a PVC coupling to an existing sanitary service.

B Materials
Furnish Fernco Series; ASTM D5926, SSTM C1173, CSA B602, or other pre-approved by engineering coupling.

C Construction
Install the sanitary sewer transition coupling according to Fernco standard specifications and product quality. Engineering will approve coupling installation.

D Measurement
The department will measure Connect to Existing Sanitary Sewer Service by each individual unit installed 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.0060.62	Connect to Existing Sanitary Sewer	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

61. Connect to Existing Sanitary Sewer Service, 4-Inch Service, Item SPV.0060.63; 6-Inch Service, Item SPV.0060.64.

A Description
This special provision describes furnishing and installing a PVC coupling to an existing sanitary service.

B Materials
Furnish Fernco Series; ASTM D5926, SSTM C1173, CSA B602, or other pre-approved by engineering coupling.

C Construction
Install the sanitary sewer transition coupling according to Fernco standard specifications and product quality. Engineering will approve coupling installation.

D Measurement
The department will measure Connect to Existing Sanitary Sewer Service by each individual unit installed 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.0060.63	Connect to Existing Sanitary Sewer, 4-Inch Service	Each
SPV.0060.64	Connect to Existing Sanitary Sewer, 6-Inch Service	Each

Payment is full compensation for excavation, furnishing and installing all materials including plug with end cap; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

62. Connect to Existing Sanitary Manhole, Item SPV.0060.65.

A Description
This special provision describes core drilling into an existing manhole and installing rubber boot with seal.

B Materials
Furnish Press seal Gasket Corp. PSX Gasket; ASTM C923

C Construction
Seal each core drill using PSX Gasket Seal in accordance to product manufacturer standard specifications and approved by engineer.

D Measurement
The department will measure Connect to Existing Sanitary Manhole 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.0060.65	Connect to Existing Sanitary Manhole	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

63. Connect Existing Sanitary Sewer to New Sanitary Manhole, Item SPV.0060.66.

A Description
This special provision describes core drilling into a new manhole and installing rubber boot with seal.

B Materials
Furnish Press seal Gasket Corp. PSX Gasket; ASTM C923

C Construction
Seal each core drill using PSX Gasket Seal in accordance to product manufacturer standard specifications and approved by engineer.

D Measurement
The department will measure Connect Existing Sanitary Sewer to New Sanitary Manhole 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.0060.66	Connect Existing Sanitary Sewer to New Sanitary Manhole	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

64. Capping Existing Sanitary Sewer Service, 4-Inch, Item SPV.0060.67; 6-Inch, Item SPV.0060.68.

A Description
This special provision describes abandoning or capping an existing sanitary sewer service.

B Materials
ASTM A536, AWWA C153 (ANSI A21.53).

C Construction
Field verify existing sanitary sewer service is not in service. Abandon or cap.

Provide all plugs, caps, tees, and bends deflecting 22 ½ degrees or more on all mains with a reaction backing or prevent movement by attaching suitable metal rods or clamps as shown or specified.

D Measurement
The department will measure Capping Existing Sanitary Sewer Service 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.0060.67	Capping Existing Sanitary Sewer Service, 4-Inch	Each
SPV.0060.68	Capping Existing Sanitary Sewer Service, 6-Inch	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

65. Remove Existing Sanitary Manhole, Item SPV.0060.69.

A Description
This special provision describes removing an existing sanitary sewer manhole.

B Materials
Provide backfill that is in accordance to the standard specifications.

C Construction
Removing Existing Sanitary Sewer Manhole consists of excavating to base, and removing all appurtenances. Install a plug at end of existing sewer main. Upon removal, backfill to grade.

D Measurement
The department will measure Remove Existing Sanitary Manhole by the unit, acceptably removed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.69	Remove Existing Sanitary Manhole	Each

Payment is full compensation for excavation, furnishing and installing all materials including; removing structure, backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

66. Abandon Existing Sanitary Sewer, Item SPV.0060.70.

A Description
This special provision describes abandoning existing sanitary sewer.

B Materials
ASTM A536, AWWA C153 (ANSI A21.53).

C Construction
Field verify existing sanitary sewer line is not in service. Abandon or cap.

Provide all plugs, caps, tees, and bends deflecting 22 1/2 degrees or more on all mains with a reaction backing or prevent movement by attaching suitable metal rods or clamps as shown or specified.

D Measurement
The department will measure Abandon Existing Sanitary Sewer 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	Abandon Existing Sanitary Sewer	Each

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

67. Concrete Control Cabinet Base Type Special, Item SPV.0060.20.

A Description
This special provision describes constructing a concrete base for WisDOT lighting control cabinets.

B Materials
In accordance to standard spec 654.2.

C Construction
In accordance to standard spec 654.3.

D Measurement
The department will measure Concrete Control Cabinet Base Type Special 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.0060.20	Concrete Control Cabinet Base Type Special	Each

Payment is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor rods, nuts, and washers; for bar steel reinforcement, if required; and for excavating, backfilling, and disposing of surplus materials.

68. Lighting Control Cabinet, Item SPV.0060.21.

A Description
This special provision describes furnishing and installing a Lighting Control Cabinet. Work under this item shall be in accordance with the Standard Specifications, this special provision, and the plans.

B Materials
Furnish Lighting Control Cabinet from the WisDOT qualified product list.

Furnish load center circuit breakers as follows:

- (1) 15A/1P Controls
- (1) 30A/2P Surge Protection
- (4) 30A/2P Lighting Circuits (240V Phase to Phase Circuits)
- (4) 30A/2P Receptacle Circuits (120V Phase to Ground Circuits)
- Additional rated breakers as required to operate audio and dimming control systems

B.1 Time Clock

Furnish a NEMA 3R rated time clock with capacitor backup, equipped with an automatic daylight savings time and leap year adjustment. Time clock shall be incorporated for control of all receptacle circuits.

B.2 Incidental Materials and Enclosure Finish

Furnish mounting equipment, terminals and additional appurtenances required for integrating a dimming control system and audio system components into the cabinet. Additional dimming control and audio system components shall be furnished and installed under separate bid items in this contract and not accounted for with this item. Furnish a cabinet enclosure sized to include all necessary equipment including components of the dimming control and audio systems. Adjust size of control cabinet base if enclosure size will exceed the footprint of the base.

Furnish necessary wiring, miscellaneous accessories, and hardware as required for a complete and fully operational unit.

Exterior surfaces and hardware shall be pretreated with an iron phosphate coating and powder coat painted black and dried by radiant heat.

C Construction

Install the cabinet and necessary wiring, miscellaneous accessories, and hardware as required for a complete and fully operational unit.

Follow manufacturer instructions for installation.

Exposed threaded equipment mounting hardware shall be stainless steel. Coat threaded stainless steel hardware and dissimilar metal threaded hardware with an approved zinc-based anti-seize compound.

Demonstrate the operation of time clock to the City of Independence. Furnish all manuals and instructions to the city.

D Measurement

The department will measure Lighting Control Cabinet 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.0060.21	Lighting Control Cabinet	Each

Payment is full compensation for furnishing and installing all materials, including cabinet, wiring, conduits, accessories, hardware and fittings necessary to install the cabinet.

69. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black, Item SPV.0060.22; Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black – Furnish Only, Item SPV.0060.08.

A Description
This work shall be in accordance with the requirements of standard spec 657, the plans, standard detail drawings, and as hereinafter provided.

B Materials
In accordance with the plans and standard spec 657.2 with the following exception:

Amend standard spec 657.2.6, Transformer Bases, paragraph (1) to read as follows:

(1) Furnish cast aluminum alloy transformer bases designed as specified for traffic signal support structures in standard spec 657.2.1(1) and selected from the department's approved products list. Ensure that castings are true to pattern in form and dimensions and free from pouring faults, sponginess, cracks, sharp edges, blow holes, and other defects in positions affecting strength and value for the service intended. Furnish all bases with a manufacturer applied black anodized finish. Bases anodized after purchase from the manufacturer will not be accepted without approval from the Engineer.

C Construction
In accordance with the plans and standard spec 657.3.

C.1 Furnish Only
Deliver materials as shipped complete with packaging and stabilizing intact to the City of Independence public works facility. Contact the City a minimum of five business days prior to delivery to make arrangements.

D Measurement
The department will measure Transformer Bases Breakaway 11 ½-Inch Bolt Circle Black as each individual transformer base, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.22	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	Each
SPV.0060.08	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black – Furnish Only	Each

Payment for the Transformer Bases bid items is full compensation for providing the transformer base, mechanical grounding connector, and related hardware; for leveling shims if required; and for providing an anodized finish.

70. Poles Type 5-Aluminum Black, Item SPV.0060.23; Poles Type 5-Aluminum Black – Furnish Only, Item SPV.0060.09.

A Description
This work shall be in accordance with the requirements of standard spec 657, the plans, standard detail drawings, and as hereinafter provided.

B Materials
In accordance with the plans and standard spec 657.2 with the following exception:

Amend standard spec 657.2.1, Poles, paragraph (7) to read as follows:

> Construct poles of aluminum materials having sufficient rigidity that, with all material installed and in place as the plans show, the centerline of the shaft appears vertical. Include vibration dampers in all poles.

Amend standard spec 657.2.1, Poles, by adding the following paragraphs:

> (23) Furnish all poles with a manufacturer applied black anodized finish. Poles anodized after purchase from the manufacturer will not be accepted without approval from the Engineer. Pole cap, nut covers and associated materials shall have a matching anodized finish.

B.1 Pole Accessories
Flag Pole Bracket: Furnish light poles with reinforced integral flag pole brackets for accommodate flag shafts of up to 1-inch diameter. All exposed surfaces shall be black in color to match the pole finish.

C Construction
In accordance with the plans and standard spec 657.3. Install banner bracket unit in accordance with the pertinent provisions of standard spec 657 and as the manufacturer directs.

C.1 Furnish Only
Deliver materials as shipped complete with packaging and stabilizing intact to the City of Independence public works facility. Contact the City a minimum of five business days prior to delivery to make arrangements.

D Measurement
The department will measure Poles Type 5-Aluminum Black as each individual pole, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Poles Type 5-Aluminum Black	Each
SPV.0060.09	Poles Type 5-Aluminum Black – Furnish Only	Each

Payment is full compensation for providing all materials, including poles, all hardware and fittings necessary to install the pole; and for providing an anodized finish.

71. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black, Item SPV.0060.24; Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black – Furnish Only, Item SPV.0060.10.

A Description
This work shall be in accordance with the requirements of standard spec 657, the plans, standard detail drawings, and as hereinafter provided.

B Materials
In accordance with the plans and standard spec 657.2 with the following exception:

Amend standard spec 657.2.3.2, Aluminum Arms, paragraph (5) to read as follows:

> (5) Furnish a clean luminaire arm with a manufacturer applied black anodized finish. Arms anodized after purchase from the manufacturer will not be accepted without approval from the engineer. Brackets, fitters and associated materials shall have a matching anodized finish.

C Construction
In accordance with the plans and standard spec 657.3.

C.1 Furnish Only
Deliver materials as shipped complete with packaging and stabilizing intact to the City of Independence public works facility. Contact the City a minimum of five business days prior to delivery to make arrangements.

D Measurement
The department will measure Luminaire Arms Single Member 4 ½-Inch Clamp 6-FT Black as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black	Each
SPV.0060.10	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black – Furnish Only	Each

Payment is full compensation for providing all materials, including all hardware, fittings, mounting clamps, shims if required; for providing an anodized finish, and all attachments necessary to completely install the luminaire arm.

72. Luminaires Utility LED Category A Black, Item SPV.0060.25; Luminaires Utility LED Category A Black – Furnish Only, Item SPV.0060.11.

A Description

This special provision describes furnishing and installing Light Emitting Diode (LED) roadway luminaires.

B Materials

Furnish Luminaires Utility LED from the department qualified product list. No bid Luminaires shall conform to applicable portions of standard spec 659.2.2 and the WisDOT Specifications for LED Roadway Luminaires. The luminaire housing shall be all aluminum with factory finished durable corrosion and UV resistant black powder-coated or anodized aluminum finish. Housing access shall be tool-free. The luminaire/arm mounting configuration shall fit the specified pole fitter being used per the plan. The luminaire shall be UL listed, IP 66 rated.

LED lamps shall be in the 4000K color temperature range with a minimum of 70 CRI. A NEMA sized "Category Label" label shall be fixed to the bottom of the luminaire and be visible from a passing vehicle.

The luminaire shall be equipped with a voltage-sensing LED driver, to accommodate 120-277V with 90% power factor and THD 20% max at full load. Surge protection shall be provided and tested in accordance with the specifications. The luminaire shall also be equipped with a quick-disconnect plug for connecting the pole riser wires to the terminal block. A strain relief shall retain the pole riser wires within the luminaire.

Luminaires shall be capable of full range dimming and full integration with the dimming control system.

Furnish shop drawings as specified in 506.3.2, except submit 5 copies with the materials list. Ensure the drawings contain sufficient detail to allow satisfactory review and show the dimensions of all equipment shown in the plans.

C Construction

Under the bid item Luminaires Utility LED, furnish and install luminaires and all necessary miscellaneous accessories and hardware to complete the installation of the luminaires.

Follow all manufacturer's instructions regarding luminaire installation.

Three single-conductor No. 12 stranded wires shall be used to connect the luminaires to their respective branch conductors in the pole base. Each luminaire feeder wire shall be protected by one 5-amp fuse. Fuses and fuse holders shall be as per the details in the plan.

All exposed threaded equipment mounting hardware shall be stainless steel.

Coat all threaded stainless steel hardware and dissimilar metal, threaded hardware with an approved zinc-based anti-seize compound (Loctite or Jet-Lube prior to assembly.

Place a sticker on the bottom of the luminaire (incidental to luminaire bid item) to clearly identify the WisDOT Luminaire Category A. The sticker should be visible from to a person standing on the ground.

This item includes fully integrating the LED luminaires with the dimming system. Luminaires shall operate as described in the Street Lighting Dimming Control System article in these special provisions.

C.1 Furnish Only

Deliver materials as shipped complete with packaging and stabilizing intact to the City of Independence public works facility. Contact the City a minimum of five (5) business days prior to delivery to make arrangements.

D Measurement

The department will measure Luminaires Utility LED Category A Black as each individual lighting unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Luminaires Utility LED Category A Black	Each
SPV.0060.11	Luminaires Utility LED Category A Black – Furnish Only	Each

Payment is full compensation for furnishing and installing all materials, including luminaire, accessories, hardware and fittings necessary to install the luminaire workable first class condition.

73. Decorative Light Unit Type B, Item SPV.0060.26; Decorative Light Unit Type C, Item SPV.0060.06 Decorative Light Unit Type C – Furnish Only, Item SPV.0060.07; Decorative Light Unit Type D, Item SPV.0060.27.

A Description

This special provision describes furnishing and installing decorative street lighting units at the locations shown in the plan.

B Materials

B.1 Material Qualifications

Furnish a complete list of documentation in accordance with standard spec 651.2 and the following requirements. Furnish the following list of documentation detailing the characteristics of the decorative light units:

- Engineer's verification showing the light pole and concrete foundation design criteria
- Graphical depiction showing verification of the light unit arrangement and all accessories (receptacles, flower basket hanger, flag holder, banner, speaker mounting, Christmas decoration bracket, street signs, handhole) are in the correct orientation
- Light pole color and finish sample
- Paint finish durability information
- Illumination modeling results and luminaire test files (.ies format) for design standards verification
- Cut sheets, warranty information and parts list for all equipment
- Luminaire data including: optical design features, backlight/uplight/glare control, heat dissipation, energy usage, color spectrum, maintenance features, dimming operation

The information required in the above list must be furnished to the project engineer after letting. The engineer will not approve any materials prior to bid letting. Do not order materials until the engineer approves the list. Prepare one additional copy of all submittals to send to the City of Independence.

B.2 Concrete Foundation (Type B and C Only)

Furnish concrete masonry, bar steel reinforcement, anchor rods, nuts, washers, conduit, grounding electrode and all incidental materials in accordance with the pertinent provisions in standard spec 654.2.

B.3 Pole

Furnish light poles as shown on the plans and as hereinafter provided. The light pole shall conform to the following requirements:

- Poles shall consist of aluminum composition of sufficient strength to accommodate the loading parameters as shown on the plans and rated for 90 mph per AASHTO standard specifications for structural supports, 2009.

- Poles shall have a fluted cross section with an integral decorative base section. A two-piece “clam-shell” is not allowed. Poles shall be factory welded to the base section and shipped as one piece.
- Pole shafts shall feature a dovetail track type cross section to allow for modular accessory installation.
- Pole shafts shall feature separate integral wiring raceways for isolating low voltage wiring from lighting system wiring.
- An integral decorative base section is preferred. To be acceptable, any two-piece “clam-shell” type must have finish to match the pole. The two-piece base sections shall fit around the fluted pole with a maximum of 1/4” clear opening. Base sections shall feature hardware to firmly secure the base to the pole without movement or rotation. An access door shall be provided for wiring access.
- Poles shall have dimensional characteristics as shown on the plans
- Handhole access door required within the decorative base section and grounding lug; factory welded to the pole interior, opposite from the access door
- Pole and complete assembly shall be anodized and finished with polyester powder coat black; finish shall pass 1,000 hour salt fog test per ASTM B117
- Furnish galvanized L-type anchor rods

B.3 Luminaire

Furnish luminaires as shown on the plans and as hereinafter provided. The luminaire shall conform to the following requirements:

- Luminaires shall be traditional shaped teardrop style with prismatic glass refractor/reflector; glass optic shall be approximately 17" diameter, 34” tall and 14” glass depth (Type B, Type C and Type C Furnish Only) / 14” diameter, 26” tall and 10” glass depth (Type D).
- Luminaires shall feature cast aluminum housing with separate sealed enclosures for LED array and driver/power connections respectively. Heavy duty tool-free latches for access to the optical and driver/power connection compartments are required.
- Both IES distributions Type II and III are acceptable if the luminaire can meet all other requirements
- LED light source with 4,000K (+/- 15%) color temperature maximum; 3,000K is also acceptable and preferred. All luminaire types shall operate at the same color temperature.
- Luminaire shall provide required illumination while operating at a maximum 150 watts (Type B, Type C and Type C Furnish Only) / 77 watts (Type D).
- Luminaire shall provide illumination performance as follows:
    - 0.6 average foot-candles
    - 4.0:1 average-minimum illumination ratio
    - 0.4:1 veiling luminance ratio or best achievable
    - Criteria listed above assume a light loss factor of 0.81 applied
- These parameters shall be considered maximum values not to be exceeded
- Illumination results shall be based on the roadway section as shown in the plans; and the average spacing as shown in the plans
- Luminaire ratings shall includes the following:

- B.U.G. (Backlight / Uplight / Glare) rating of 3-3-3 or better
- I.P. rating of 65 or greater
- All components U.L. listed for wet locations

- Luminaire shall feature the following accessories:
  - Capable of full range dimming and integration with dimming control system
  - Spike top finial
  - Self leveling fitter
  - Internal house side shield (do not install unless noted on the plan, furnish only)

B.4 Luminaire Arm

Furnish aluminum luminaire arm with decorative fitter and brace for luminaire support. Luminaire arm shall allow for self-leveling luminaire fitter with weather tight wire-way from the pole to the luminaire. Arm finish shall match requirements listed in section B.3

B.5 Pole Accessories (All Types Unless Noted Otherwise)

Receptacle and Cover: Furnish reinforced receptacle housing within the light pole, a weather resistant flush receptacle box and heavy duty while-in-use cover. Furnish a 20A/125V GFCI receptacle and wiring connections. While-in-use cover shall be metal fabrication and black in color to match the pole finish.

Flower Basket Hanger: Furnish a reinforced integral flower basket hanger mounting section within the light pole and a single hanger rod. All materials shall be metal fabrication and black in color to match the pole finish. Basket hanger shall be capable of supporting up to 50 pounds.

Flag Pole Bracket: Furnish light poles with reinforced integral flag pole brackets for accommodate flag shafts of up to 1-inch diameter. All exposed surfaces shall be black in color to match the pole finish.

Banner Brackets: Furnish light poles with reinforced integral banner brackets for accommodating bolt-on type banner arms. Furnish two 1” diameter, 30-inch long cast aluminum banner brackets with ball end cap per pole. All exposed surfaces shall be black in color to match the pole finish.

Eyelets: Furnish light poles with two (2) integrally mounted eyelets for seasonal decoration attachments. All exposed surfaces shall be black in color to match the pole finish.

Christmas Decoration Bracket: Furnish mounting bracket designed to accommodate the City’s existing equipment, as shown on the plans. Confirm design by furnishing example to the City for verification.

Outdoor Audio System Components: Furnish mounting accommodations designed for outdoor speaker attachments. Speaker mounting accommodations shall be designed for

periodic removal and re-installation. Furnish outdoor rated speaker cable terminals, including an electrically isolated routing from the pole base to the speaker mounting position. Speaker mounting accommodations shall include threaded plugs (or otherwise) for sealing openings when speakers are not installed.

Street Sign Mounting: Furnish mounting equipment designed to accommodate one street sign per pole. Assume a maximum sign size of 24" x 24".

C Construction
Install Decorative Street Light unit in accordance with the pertinent provisions of standard spec 657 and standard spec 659, the plans and as the manufacturer directs.

This item includes fully integrating the decorative luminaires with the dimming system. Luminaires shall operate as described in the Street Lighting Dimming Control System article in these special provisions.

C.1 Furnish Only
Deliver materials as shipped complete with packaging and stabilizing intact to the City of Independence public works facility. Contact the City a minimum of five business days prior to delivery to make arrangements.

D Measurement
The department will measure Decorative Light Unit (Type) 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.0060.26	Decorative Light Unit Type B	Each
SPV.0060.06	Decorative Light Unit Type C	Each
SPV.0060.07	Decorative Light Unit Type C – Furnish Only	Each
SPV.0060.27	Decorative Light Unit Type D	Each

Payment is full compensation for furnishing all materials; installing a complete street lighting unit.

74. Remove and Salvage Light Post, Item SPV.0060.71.

A Description
This special provision describes removing and salvaging light post in accordance with standard spec 204 at a location referred to in the plans and as hereinafter provided.

B (Vacant)

C Construction
Remove the existing light post taking care as to not damage the unit. Upon removal, deliver to the City of Independence Wastewater Treatment facility. Contact Dennis Pronschinske at (715) 530-0934 to schedule a time for delivery. Work also includes identifying the existing power source, safely disconnecting the light post and abandoning all underground conduit and wiring.

D Measurement
The department will measure Remove and Salvage Light Post as each individual unit, acceptably salvaged.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.71	Remove and Salvage Light Post	Each

Payment is full compensation for removal and delivery of the Light Post, and all incidentals necessary to complete the contract work.

75. Bar Steel Reinforcement HS Coated Railing, Item SPV.0085.01.

Furnish and place the bar steel reinforcement HS coated railing in accordance to standard spec 505 and in accordance to the plan details.

76. Concrete Curb and Gutter Cure and Seal Treatment, Item SPV.0090.01.

A Description
This work includes treating all newly constructed concrete curb and gutter with a surface cure and seal treatment as shown on plans, and as hereinafter provided.

B Materials
The treating material shall conform to ASTM C1315, ASTM C309, and AASHTO M148 specifications and be produced by a manufacturer on the Wisconsin Department of Transportation's approved products list.

C Construction
Application rates for the treating material shall be in accordance to the manufacturer’s specifications.

D Measurement
The department will measure the Concrete Curb and Gutter Cure and Seal Treatment by the linear foot, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Curb and Gutter Cure and Seal Treatment	LF

Payment is full compensation for furnishing and applying Concrete Curb and Gutter Cure and Seal Treatment.

77. Galvanized Pipe Railing, Item SPV.0090.02.

A Description
This special provision describes fabricating, galvanizing, and installing railing in accordance to standard spec 506 and 513 and the plan details, as directed by the engineer, and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement
The department will measure Galvanized Pipe Railing in length by the linear foot along the top rail, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Galvanized Pipe Railing	LF

Payment is full compensation for fabricating, galvanizing, transporting, and installing the railing, including any touch-up and repairs.

78. Reveal Curb, Item SPV.0090.03.

A Description
This special provision describes installing concrete curb at building faces in accordance to standard spec 601 and the plan details, as directed by the engineer, and as hereinafter provided.

B Materials
Furnish concrete curb that is according to the pertinent requirements of standard spec 601.

C Construction
Place curb in locations to cover the building face to the existing reveal line of the building foundation. Curb is to be installed in cases where the building foundation will remain exposed upon completion of the sidewalk installation.

D Measurement
The department will measure Reveal Curb by linear foot, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Reveal Curb	LF

Payment is full compensation for furnishing all foundation excavation and preparation; for providing all materials, including concrete, expansion joints; for placing, finishing, protecting, and curing; for sawing joints; and for disposing of surplus excavation material, and restoring the work site.

79. Sidewalk Survey, Item SPV.0090.04.

A Description
This special provision describes the contractor-performed Sidewalk Survey required to perpetuate the existing back of sidewalk location to the new back of sidewalk location at locations identified in the plan or as directed by the engineer.

B (Vacant)

C Construction
Perform survey and staking tasks as necessary to perpetuate the horizontal and vertical location of the existing back of sidewalk to the new back of sidewalk.

D Measurement
The department will measure Sidewalk Survey by linear foot, acceptably completed as directed by the engineer or shown in the plans.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Sidewalk Survey	LF

Payment is full compensation for furnishing all labor and materials required to perform the work of this section including documenting and reestablishing the existing sidewalk location; setting construction stakes as necessary; for relocating and resetting damaged or missing construction stakes, providing Survey and staking documentation to the department.

80. Culvert Pipe Temporary 12-Inch Special, SPV.0090.05.

Construct the Culvert Pipe Temporary 12-inch in accordance to standard spec 520 and in accordance to the plan details.

81. Concrete Curb and Gutter 30-Inch Special, Item SPV.0090.06.

Construct the Concrete Curb and Gutter 30-Inch Special in accordance to standard spec 601 and in accordance to the plan details.

82. Speaker Cable and Duct, Item SPV.0090.07.

A Description
This special provision describes furnishing and installing speaker cables in conduit to street light poles in accordance to the plan details and as herein provided.

B Materials
Furnish speaker cables rated for the application shown on the plans. Cables shall be 14 AWG minimum or larger as required. Insulation, terminals and splice methods shall be rated for outdoor applications.

Furnish duct for speaker cables in accordance with standard spec 652.2. Duct shall be sized and rated for use with the speaker cables proposed for the system application. Duct shall be minimum size for rated application and shall be accommodated for installation under additional bid items in this contract.

Provide the engineer with technical documentation verifying the ratings of all equipment.

C Construction
In accordance with standard spec 652.3 and per manufacturer requirements.

D Measurement
The department will measure Speaker Cable and Duct by the linear foot measured along the centerline of the duct between structures, 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	Speaker Cable and Duct	LF

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

83. Water Service, 1-Inch, Item SPV.0090.31.

A Description
This special provision describes excavating, furnishing and installing water service in accordance to the plan details and as herein provided.

B Materials
Water Service shall be Type "K" of annealed seamless copper tubing in accordance to ASTM B88 and AWWA C800.

C Construction
Construction shall be in accordance to Chapter 5.50 Laying of Water Services of standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition except Articles 5.50 Lead Joints and 5.56 Gasket Joints.

Install copper water service laterals without any coupling or joint from corporation stop to curb stop.

Directly tap the corporation stop into ductile iron main.

D Measurement
The department will measure Water Service, 1-Inch by each service, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.31	Water Service, 1-Inch	LF

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

84. Water Main, 6-Inch, Item SPV.0090.32; 8-Inch, Item SPV.0090.33.

A Description
This special provision describes excavating, furnishing and installing water main in accordance to the plan details and as herein provided.

B Materials
Furnish ductile iron water main pipe that meets the requirements of AWWA C151. Cement-Mortar Lining shall meet the requirements of AWWA C104. Thickness Class shall be 52. Joints shall be Push-on type. Joint Conductivity: Conductive gaskets as manufactured by American Ductile Iron Pipe Co. Field Application Methods: Burndy-Thermoweld by Burndy Corp., Norwalk, Connecticut or Cadweld by Erico Products Co.< Cleveland, Ohio. Copper Jumpers: Minimum 1/16 inch by ½ inch wide flat copper strip. Annealed round copper wire conforming to ASTM B152 Type DHP. Nuts and Bolts are to be Silicon Bronze.

C Construction
Install pipe at the alignment and grade shown on the Drawings. Provide a minimum of 8 feet of cover over the pipe. Install appurtenances in the locations shown on the

Drawings. Remove all all dirt and foreign material from the pipe interior prior to installation.

Backfill excavations in layers and compact in accordance to Article 2.6.14 (b) *Mechanical Compaction of Excavated Material or Granular Backfill* of standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

Ensure that adequate equipment is on site for unloading and lowering pipe and fittings into trench. Exercise extreme care in handling pipe, fittings, and castings so as to prevent breakage and coating damage. Repair damage to coating before installation. Do not under any circumstances, drop into the trench or so handle pipe or fittings that they receive hard blows or jolts.

Materials used must pass field inspection before installation. Inspect ductile iron pipe and fittings for defects and, while suspended above grade, ring with a light hammer to detect cracks in accordance to AWWA C600.

Remove lumps, blisters, and excess coal-tar coating from bell and spigot end of each ductile iron pipe. Wire brush outside of spigot and inside of bell and wipe clean and dry, free from oil and grease before laying pipe.

Deflection of pipes shall not exceed manufacturer's recommendations.

Joints shall have built-in-place conductor between socket and pipe end. Capacity shall be sufficient to carry minimum of 200 amps current at each joint.

D Measurement
The department will measure Water Main (Size), including fittings, 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.0090.32	Water Main, 6-Inch	LF
SPV.0090.33	Water Main, 8-Inch	LF

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

85. Sanitary Service, 4-Inch, Item SPV.0090.34; 6-Inch, Item SPV.0090.35.

A Description
This special provision describes furnishing, installing, and making connections for sanitary sewer building services in accordance to the plan details and as hereinafter provided.

B Materials
Sanitary sewer building service shall be PVC pipe, Class SDR 26 with Elastrometric Gasket and Water Stop Gaskets. Provide pie and fittings of each material type from same manufacturer.

C Construction
Service Pipe: Extend pipe to right-of-way. Install pipe at minimum 1 percent to maximum 2 percent grade. Place gasketed plug at end of pipe. Mark end of service with a 4-inch by 4-inch by 8-foot timber set 4 feet below grade. Maintain a record of each service connection as follows to be submitted to engineer at the end of each week: type of service connection, distance from downstream manhole, length of riser.

Riser pipe: Extend riser from service connection at 45-degree angle above horizontal to a point 11 feet below street grade. Install riser pipe against undisturbed trench wall. Place concrete collar around service connection as shown on Drawings.

D Measurement
The department will measure Sanitary Service (Size) by each service, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.34	Sanitary Service, 4-Inch	LF
SPV.0090.35	Sanitary Service, 6-Inch	LF

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

86. Sanitary Sewer, 8-Inch, Item SPV.0090.36; 10-Inch, Item SPV.0090.37; 12-Inch, Item SPV.0090.38.

A Description
Furnish and install sanitary sewer in accordance to the plan details, and as hereinafter provided.

B Materials
Provide PVC Main Pipe that is class SDR 35 and meets the requirements of ASTM D3034 and ASTM F477. PVC Service Pipe shall be class SDR 26. Joints shall be elastometric gasket with water stop gaskets. Provide pipe and fittings of each material from same manufacturer.

Transition coupling shall be Frenco Series 1002 or 1056, as appropriate, in accordance to ASTM D5926, or equal.

C Construction

Comply with ASTM D2321 for PVC installation. Inspect pipe for defects and cracks while suspended before lowering into trench. Place pipe bell at upstream end of pipe length. Install pipe from lower to higher invert elevation at uniform slope between manholes. Place plug in end of incomplete piping at end of day and when Work stops. Provide watertight plugs at future connection plugs. When water is present in trench, seals are to remain in-place while trench is pumped completely dray. Maximum Allowable Deviation from Staked Grade: Alignment: 0.30 feet, Elevation: 0.02 percent.

Backfill excavations in layers and compact in accordance to Article 2.6.14 (b) *Mechanical Compaction of Excavated Material or Granular Backfill* of standard specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.

D Measurement

The department will measure Sanitary Sewer (Inch) by the linear foot, acceptably completed. Measurement will be made along flow line. No deduction will be made for manholes.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.36	Sanitary Sewer, 8-Inch	LF
SPV.0090.37	Sanitary Sewer, 10-Inch	LF
SPV.0090.38	Sanitary Sewer, 12-Inch	LF

Payment is full compensation for excavation, furnishing and installing all materials; backfilling; properly disposing of surplus material; cleaning up and restoring the site of work.

87. Project Concrete Crack Mitigation and Repair Special, Item SPV.0105.01.

A Description

This special provision describes work in accordance to standard spec 415, and as hereinafter provided.

B (Vacant)

C Construction

Provide the engineer with HIPERPAV analysis 3 days prior to the placement of Concrete Pavement 9 Inch Special. If 7 calendar days elapse between staging paving operations, an additional analysis of HIPERPAV may be requested by the engineer.

If cracks occur, selection of repair type shall be as specified in Procedure 4.24 of the Construction and Materials Manual (CMM).

D Measurement
The department will measure the item Project Concrete Crack Mitigation and Repair Special by the lump sum unit of work, acceptably completed.

E Payment
Delete entire standard spec 415.5.3 and replace with the following.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Project Concrete Crack Mitigation and Repair Special	LS

Payment is full compensation for performing mix design HIPERPAV analysis, mix design adjustments and corrections as per Project Concrete Crack Mitigation and Repair Special, all PCC pavement repairs, mobilization, all necessary traffic control devices.

Fifty percent payment of this item will be paid to the contractor after the completion of the first HIPERPAV analysis. The remaining fifty percent will be paid for upon final project acceptance.

88. Concrete Pavement Joint Layout, Item SPV.0105.02.

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 pavement 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 pavements making adjustments as required to fit field conditions.

D Measurement
The department will measure Construction Staking Concrete Pavement Joint Layout 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.0105.02	Construction Staking Concrete Pavement Joint Layout	LS

Payment is full compensation for survey work necessary to locate all dowel bar sets and saw joints on the mainline and intersections, for adjustments to match field conditions and traffic staging.

89. Railing Pipe Galvanized R-61-14, Item SPV.0105.03.

A Description

This special provision describes fabricating, galvanizing, painting and installing railing in accordance to standard specs 506, 513 and 517 and the plan details, as directed by the engineer, and as hereinafter provided.

B Materials

All materials for railing shall be new stock, free from defects impairing strength, durability and appearance. Railing assemblies shall be galvanized and receive a two-coat paint system. Bubbles, blisters and flaking in the coating will be a basis for rejection.

B1 Coating System

B1.1 Galvanizing

After fabrication, blast clean steel railing assemblies per SSPC-SP6 and galvanize according to ASTM A123. Vent holes shall be drilled in members as required to facilitate galvanizing and drainage. Location and size of vent holes are to be shown on the shop drawings. All burrs at component edges, corners and at holes shall be removed and sharp edges chamfered before galvanizing. Condition any thermal cut edges before blast cleaning by shallow grinding or other cleaning to remove any hardened surface layer. Remove all evident steel defects exposed in accordance to AASHTO M 160 prior to blast cleaning. Lumps, projections, globules, or heavy deposits of galvanizing, which will provide surface conditions that when painted, will produce unacceptable aesthetic and/or visual qualities, will not be permitted.

B1.2 Two-Coat Paint System

After galvanizing, paint all exterior surfaces of steel railing assemblies and inside of rail elements at field erection and expansion joints as hereinafter provided. All galvanized surfaces to be painted shall be cleaned per SSPC-SP1 to remove chlorides, sulfates, zinc salts, oil, dirt, organic matter and other contaminants. The cleaned surface shall then be brush blast cleaned per SSPC-SP16 to create a slight angular surface profile per manufacturer's recommendation for adhesion of the tie coat. Blasting shall not fracture the galvanized finish or remove any dry film thickness. After cleaning, apply a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface, per manufacturer's recommendations. The tie coat shall etch the galvanized rail and prepare the surface for the top coat. Apply a top coat per manufacturer's recommendations, matching the specified color shown on the plans. Use a preapproved top coat that is resistant to the effects of the sun and is suitable for a marine environment. The tie and top coats should be of contrasting colors, and come from the same manufacturer.

Ensure that the paint manufacturer reviews the process to be used for surface preparation and application of the paint coating system with the paint applier. The review shall include a visit to the facility performing the work if requested by the paint manufacturer. Provide written confirmation, from the paint manufacturer to the engineer, that the review has taken place and that issues raised have been addressed before beginning coating work under the contract.

Use one of the qualified paint manufacturers and products given below. An equivalent system may be used with the written approval of the engineer.

Manufacturer	Coat	Products	Dry Film Minimum Thickness (mils)	Min. Time[1] Between Coats (hours)
Sherwin Williams 1051 Perimeter Drive Suite 710 Schaumburg, IL 60173 (847) 330-1562	Tie	Recoatable Epoxy Primer B67-5 Series / B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
Carboline 350 Hanley Industrial St. Louis, MO 63144 (314) 644-1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Tie	Carboguard 60	4.0 to 6.0	10
	Tie	Carboguard 635	4.0 to 6.0	1
	Top	Carbothane 133 LH(satin)	4	NA
Wasser Corporation 4118 B Place NW Suite B Auburn, WA 98001 (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA
PPG Protective and Marine Coatings P.O. Box 192610 Little Rock, AR 72219-2610 (414) 339-5084	Tie	Amercoat 399	3.0 to 5.0	3
	Top	Amercoat 450H	2.0 to 4.0	NA

[1] Time is dependent on temperature and humidity. Contact manufacturer for more specific information.

B2 Shop Drawings

Submit shop drawings showing the details of railing construction. Show the railing height post spacing, rail location, weld sizes and locations and all dimensions necessary for the construction of the railing. Show location of shop rail splices, field erection joints and expansion joints. State the name of the paint manufacturer and the product name of the tie

coat and top coat used along with the color. State the size and material type used for all components. Also show the size and location of any vent or drainage holes provided.

C Construction

C1 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 coating is damaged, contractor shall repair or replace railing assemblies to the approval of the engineer at no additional cost to the Owner. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during railing installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

C2 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 railing assembly shall be replaced at no additional cost to the Owner. The contractor shall provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

D Measurement

The department will measure Railing Pipe Galvanized R-61-14 as a single lump sum unit of work for each structure where railing is satisfactorily furnished and installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Railing Pipe Galvanized R-61-14	LS

Payment is full compensation for fabricating, galvanizing, painting, transporting, and installing the railing, including any touch-up and repairs.

90. Railing Steel Type C5 Galvanized Pedestrian M-61-001, Item SPV.0105.04; Railing Steel Type C5 Galvanized Pedestrian M-61-002, Item SPV.0105.05.

A Description

This special provision describes fabricating, galvanizing, painting and installing railing in accordance to standard specs 506, 513 and 517 and the plan details, as directed by the engineer, and as hereinafter provided.

B Materials

All materials for railing shall be new stock, free from defects impairing strength, durability and appearance. Railing assemblies shall be galvanized and receive a two-coat paint system. Bubbles, blisters and flaking in the coating will be a basis for rejection.

B1 Coating System

B1.1 Galvanizing

After fabrication, blast clean steel railing assemblies per SSPC-SP6 and galvanize according to ASTM A123. Vent holes shall be drilled in members as required to facilitate galvanizing and drainage. Location and size of vent holes are to be shown on the shop drawings. All burrs at component edges, corners and at holes shall be removed and sharp edges chamfered before galvanizing. Condition any thermal cut edges before blast cleaning by shallow grinding or other cleaning to remove any hardened surface layer. Remove all evident steel defects exposed in accordance to AASHTO M 160 prior to blast cleaning. Lumps, projections, globules, or heavy deposits of galvanizing, which will provide surface conditions that when painted, will produce unacceptable aesthetic and/or visual qualities, will not be permitted.

B1.2 Two-Coat Paint System

After galvanizing, paint all exterior surfaces of steel railing assemblies and inside of rail elements at field erection and expansion joints as hereinafter provided. All galvanized surfaces to be painted shall be cleaned per SSPC-SP1 to remove chlorides, sulfates, zinc salts, oil, dirt, organic matter and other contaminants. The cleaned surface shall then be brush blast cleaned per SSPC-SP16 to create a slight angular surface profile per manufacturer's recommendation for adhesion of the tie coat. Blasting shall not fracture the galvanized finish or remove any dry film thickness. After cleaning, apply a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface, per manufacturer's recommendations. The tie coat shall etch the galvanized rail and prepare the surface for the top coat. Apply a top coat per manufacturer's recommendations, matching the specified color shown on the plans. Use a preapproved top coat that is resistant to the effects of the sun and is suitable for a marine environment. The tie and top coats should be of contrasting colors, and come from the same manufacturer.

Ensure that the paint manufacturer reviews the process to be used for surface preparation and application of the paint coating system with the paint applier. The review shall include a visit to the facility performing the work if requested by the paint manufacturer. Provide written confirmation, from the paint manufacturer to the engineer, that the review has taken place and that issues raised have been addressed before beginning coating work under the contract.

Use one of the qualified paint manufacturers and products given below. An equivalent system may be used with the written approval of the engineer.

Manufacturer	Coat	Products	Dry Film Minimum Thickness (mils)	Min. Time[1] Between Coats (hours)
Sherwin Williams 1051 Perimeter Drive Suite 710 Schaumburg, IL 60173 (847) 330-1562	Tie	Recoatable Epoxy Primer B67-5 Series / B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
Carboline 350 Hanley Industrial St. Louis, MO 63144 (314) .644-1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Tie	Carboguard 60	4.0 to 6.0	10
	Tie	Carboguard 635	4.0 to 6.0	1
	Top	Carbothane 133 LH(satin)	4	NA
Wasser Corporation 4118 B Place NW Suite B Auburn, WA 98001 (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA
PPG Protective and Marine Coatings P.O. Box 192610 Little Rock, AR 72219-2610 (414) 339-5084	Tie	Amercoat 399	3.0 to 5.0	3
	Top	Amercoat 450H	2.0 to 4.0	NA

[1] Time is dependent on temperature and humidity. Contact manufacturer for more specific information.

B2 Shop Drawings

Submit shop drawings showing the details of railing construction. Show the railing height post spacing, rail location, weld sizes and locations and all dimensions necessary for the construction of the railing. Show location of shop rail splices, field erection joints and expansion joints. State the name of the paint manufacturer and the product name of the tie coat and top coat used along with the color. State the size and material type used for all components. Also show the size and location of any vent or drainage holes provided.

C Construction

C1 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 coating is damaged, contractor shall repair or replace railing assemblies to the approval of the engineer at no additional cost to the Owner. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during railing installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

C2 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 railing assembly shall be replaced at no additional cost to the Owner. The contractor shall provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

D Measurement
The department will measure Railing Steel C5 Galvanized Pedestrian (Structure) as a single lump sum unit for each structure where railing is satisfactorily furnished and installed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.04	Railing Steel Type C5 Galvanized Pedestrian M-61-001	LS
SPV.0105.05	Railing Steel Type C5 Galvanized Pedestrian M-61-002	LS

Payment is full compensation for fabricating, galvanizing, painting, transporting, and installing the railing, including any touch-up and repairs.

91. Audio System Enclosure, Item SPV.0105.06.

A Description
This special provision describes furnishing, installing and testing an enclosure with necessary components for an outdoor audio system in accordance to the plan details and as herein provided.

B Materials
Furnish items for integrating an outdoor audio system consisting of speakers on street light poles and electrical feed from the street lighting service cabinet. Street light poles and cabinet are both separate bid items in this contract.

Components included in this bid item include the following:

- NEMA 3R (minimum) rated enclosure with hinged and lockable door, finish color black to match the street lighting equipment. Enclosure shall be sized to house commercial-grade outdoor audio system components (not in contract) which would be required to complete an operating system. Enclosure shall include a GFCI outlet, multi-position power strip with surge protection, mounting shelves for audio system components (not in contract), outdoor rated speaker terminals, lock and keys, and other components as needed to complete the installation.
- Concrete foundation for mounting the enclosure. Furnish concrete and grounding in accordance with standard spec 654.2.
- Electrical feed to street lighting cabinet. Furnish electrical wiring in accordance with standard spec 655.2.

Provide the engineer with technical documentation verifying the ratings of all equipment and configuration of the system showing dimensions and capacity to house the commercial-grade outdoor audio system components that are not included in the contract.

C Construction

In accordance with the plans and standard spec 654.3 (concrete foundation) and standard spec 655.3 (electrical feed) and per manufacturer requirements.

The City of Independence will verify the final location and position of the enclosure. Contact the City a minimum of five business days prior to installation to make arrangements.

D Measurement

The department will measure Audio System Enclosure as a single lump sum unit of work for the entire system and components, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.06	Audio System Enclosure	LS

Payment is full compensation for furnishing, installing, integrating and testing the complete installation.

92. Street Lighting Dimming Control System, Item SPV.0105.07.

A Description

This special provision describes furnishing, installing, integrating and testing a street lighting dimming control system as herein provided.

B Materials

Furnish items for integrating a dimming control system capable of operating full range dimming of luminaires and on-off control of circuits. This item includes mounting equipment and terminals for installation into the street lighting control cabinets and internal modifications to luminaires. Luminaires and cabinets are separate bid items in this contract.

Operating characteristics of this bid item shall include the following:

- Provide dimming by time of day and calendar day schedule
- A minimum of ten programs for pre-scheduled operation
- Provide uniform dimming control of entire circuit. Dimming of individual luminaires within the circuit is not required, but is acceptable.
- Provide on-off activation of all street lighting circuits in the lighting control cabinet by pre-scheduled operation
- Capable of on-site programming, including software applications and cables to perform future programming updates by the owner. Off-site programming capability is not required, but is acceptable.
- All necessary modifications and components required for integrating separate bid items under this contract with the control system, including luminaires and cabinets.

Provide the engineer with technical documentation, specifications, operating manuals and warranty information for all equipment.

C Construction

Install system in accordance with manufacturer requirements. This item includes fully integrating and testing the system with the luminaires and cabinets included as separate bid items in this contract.

System shall be installed to provide the following operating characteristics:

- Operate a dimming schedule for all luminaire circuits between the hours of 12:00 a.m. and 5:00 a.m.
- Provide decreased (dimmed) illumination levels during hours noted above as follows:
- 0.4 average foot-candles
- 4.0:1 average-minimum illumination ratio
-

Demonstrate a fully functioning system operation for a minimum of seven consecutive nights to the engineer and the City of Independence prior to final acceptance.

The City of Independence will verify the initial settings of the system. Contact the City a minimum of five business days prior to installation to make arrangements.

D Measurement
The department will measure Street Lighting Dimming Control System as a single lump sum unit of work for the entire system and components, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.07	Street Lighting Dimming Control System	LS

Payment is full compensation for furnishing, installing, integrating and testing the complete installation.

93. Abatement of Asbestos Containing Material Parcels 38, 39, and 84, Item SPV.0105.08.

A Description
This special provision describes abating asbestos containing material on structures in accordance to the plans, the pertinent provisions of the standard specifications, and as hereinafter provided.

B (Vacant)

C Construction
James Gondek, Asbestos Inspector License Number AII-108099, and John Roelke, License Number AII-119523, inspected the structures located at 23652 Washington Street (Parcel 38), 23646 Washington Street (Parcel 39), and 35936 Osseo Road (Parcel 84) in Independence, WI for asbestos on November 20-22, 2013. Regulated Asbestos Containing Material (RACM) was found on the structures for Parcels 38, 39, and 84. The type and approximate quantity of asbestos found on each parcel is listed below.

Parcel 38
- Category I non-friable asbestos
    - 9”x9” floor tile – 1,700 sq. ft.

- Category II non-friable asbestos
    - Black wall mastic behind wood paneling – 1,500 sq. ft.
    - Exterior window glazing – 25 sq. ft.
    - Hot mop roofing material – 1,500 sq. ft.
    - Gray caulk on roof – 10 sq. ft.

- Friable asbestos
    - Furnace insulation – 100 sq. ft.
    - Furnace tape – 2 sq. ft.

Parcel 39

- Category II non-friable asbestos
    - Exterior window glazing – 25 sq. ft.
    - Hot mop roofing material – 1,500 sq. ft.
    - Caulk on roof – 10 sq. ft.

Parcel 84

- Category II non-friable asbestos
    - Exterior window glazing – 10 sq. ft.

The RACM on these structures must be abated by a licensed abatement contractor. A copy of the inspection report is available from Dan Haak of TRC at 608-826-3628, or dhaak@trcsoltions.com. Locations of asbestos containing material are noted in the report. In accordance with NR447 and DHS159 , ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days prior to beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form and the abatement report to Amy Adrihan: Wisconsin Dept. of Transportation, Northwest Region, 1701 N 4th Street, Superior, WI 54880; 715-392-7972 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI. 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Parcels 38, 39, and 84
- Site Address: 23652 Washington Street (Parcel 38), 23646 Washington Street (Parcel 39), and 35936 Osseo Road (Parcel 84), Independence, WI
- Ownership Information: WisDOT
- Contact: Amy Adrihan
- Phone: (715) 392-7972

Insert the following paragraph in Section 6.g.:

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

D Measurement
The department will measure Abatement of Asbestos Containing Material Parcels 38, 39, and 84, completed in accordance to the contract and accepted, as a single complete unit of work.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.08	Abatement of Asbestos Containing Material Parcels 38, 39, and 84	LS

Payment is full compensation for submitting necessary forms; removing all asbestos; properly disposing of all waste materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

94. Concrete Sidewalk HES 6-Inch, Item SPV.0165.01.

A Description
Perform work in accordance to the applicable provisions of standard spec 602 and as detailed in the plans.

B Materials
Furnish air-entrained concrete conforming to standard spec 501. Use high early strength concrete.

C (Vacant)

D Measurement
The department will measure Concrete Sidewalk HES 6-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.0165.01	Concrete Sidewalk HES 6-Inch	SF

Payment is full compensation for providing all materials, including concrete, and expansion joints; for preparing the foundation; and for placing, finishing, protecting, and curing.

95. Concrete Sidewalk Cure and Seal Treatment, Item SPV.0165.02.

A Description
This work includes treating all newly constructed concrete sidewalk with a surface cure and seal treatment as shown on plans, and as hereinafter provided.

B Materials
The treating material shall conform to ASTM C1315, ASTM C309, and AASHTO M148 specifications and be produced by a manufacturer on the approved product list.

C Construction
Application rates for the treating material shall be in accordance to the manufacturer's specifications.

D Measurement
The department will measure Concrete Sidewalk Cure and Seal Treatment 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	Concrete Sidewalk Cure and Seal Treatment	SF

Payment is full compensation for furnishing and applying Concrete Sidewalk Cure and Seal Treatment.

96. Stamp and Color Concrete Sidewalk 4-inch, Item SPV.0165.03.

A Description
This special provision describes stamping and coloring concrete sidewalk 4-inch in accordance to standard specs 602 and 405, as shown on the plans, and as hereinafter provided.

B Materials
Provide a stamp for the pattern capable of producing the desired pattern as shown in the plans, final pattern to be approved by the City of Independence.

Concrete shall be colored red, complying with standard specs 602 and 405.

Supply a powder antiquing form release agent. Apply form release agent according to manufacturer's instructions using manufacturer's recommended application techniques.

C Construction
Prior to work commencing for stamping concrete, provide a finished stamped concrete sample having minimum dimensions of 2 feet by 2 feet by 2 inches (length, width, thickness). Up to five sample panels may be submitted to the engineer to demonstrate the typical pattern, texture, surface finish, and standard workmanship. Notify the engineer seven days in advance of delivering the finished stamped concrete samples.

Uniformly apply liquid release agent onto the still plastic state concrete to provide clean release of imprinting tools from the concrete surface without lifting imprint or tearing concrete.

While initially finished concrete is in plastic state, accurately align and place imprinting stamps. Contractor will need to monitor the setting up of the concrete. Once the concrete has set to the point it can be stamped begin stamping. Uniformly pound or press imprint tools into concrete to produce required pattern and depth of imprint on concrete surface. Remove platform tools immediately. Hand texture and stamp edges and surfaces unable to be imprinted by stamp mats. Touch up imperfections such as broken corners, double imprints and surface cracks.

Stamp the concrete consistently to a depth of not less than 1/8 inch measured from the top of the brick to the bottom of the mortar. Stamp concrete such that the finished, stamped concrete does not cause ponding of water or ice on itself or adjacent surfaces.

For concrete hand stamp edges and surfaces that are unable to be imprinted by platform tools, use texture mats and single blade hand stamps to match platform tool stamping pattern. Finish imprinting to match sample panels.

D Measurement
The department will measure Stamp and Color Concrete Sidewalk 4-inch by the square foot, acceptably completed. Concrete sidewalk 4-inch will be paid separately.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.03	Stamp and Color Concrete Sidewalk 4-inch	SF

Payment is full compensation for providing all materials, labor and equipment necessary to color and stamp concrete sidewalk 4-inch.

97. Retaining Wall Concrete Steps, Item SPV.0165.04.

A Description
Perform work in accordance to the applicable provisions pertaining to concrete steps of standard spec 602 and as detailed in the plans.

B (Vacant)

C (Vacant)

D Measurement
The department will measure Retaining Wall Concrete Steps by the square foot, acceptably completed as described in standard spec 602.4(3).

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.04	Retaining Wall Concrete Steps	SF

Payment is full compensation for providing all is full compensation for providing all materials, including concrete, reinforcement, and expansion joints; for excavating and preparing the foundation; backfilling and disposing of surplus material; for placing, finishing, protecting, and curing; and restoring the work site.

98. Wall Modular Block Mechanically Stabilized Earth LRFD, Item SPV.0165.05.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system in accordance to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years.

B Materials

B.1 Proprietary Mechanically Stabilized Earth Modular Block Wall Systems

The supplied wall system must be from the department's approved list of modular block mechanically stabilized earth wall systems.

Proprietary wall systems may be used for this work, but must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures, Structures Design Section. The department maintains a list of pre-approved systems of retaining walls. To be eligible for use on this project, a system must have been pre-approved and added to that list prior to the bid opening date. The name of the companies supplying pre-approved material shall be furnished within 25 days after the award of contract.

Applications for pre-approval may be submitted at any time. Applications must be prepared in accordance to the requirements of current Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Structures Design Section in Room 601 of the Hill Farms State Transportation Building in Madison or by calling (608) 266-8494.

B.2 Design Requirements

It is the responsibility of the contractor to supply a design and supporting documentation as required by this special provision for review by the department to show the proposed wall design is in compliance with the design specifications.

The design/shop plans shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The wall shall be designed for the heights shown on the plans. The design shall be in compliance with the *AASHTO LRFD Design Specifications 5*th *Edition* 2010 (AASHTO LRFD) with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current *Standard Specifications for Highway and Structure Construction (*standard specifications), Chapter14 of the WisDOT LRFD Bridge Manual and standard design procedures as determined by the department. Loads, load combinations and load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined in accordance to Table 11.5.6-1 in AASHTO LRFD.

The design shall include a minimum overburden surcharge of 100 psf in accordance to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans. The maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations is performed by the department or its design consultant and the Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing check is provided by the department or its consultant and shown on the plans.

The design of the Wall Modular Block Mechanically Stabilized Earth shall consider the internal stability of the wall mass (tensile stress, pullout resistance, and tensile stress at the connection with the facing) within each layer of reinforcement for the applicable strength limit and extreme event limit states. Maximum factored loads applied to reinforcements for pullout and the connection to the wall face shall be calculated using the Simplified Method or Coherent Gravity Method, as presented in AASHTO LRFD. In addition, compound stability shall be computed for the applicable strength limit and extreme event limit states in accordance to AASHTO LRFD.

The minimum embedment to the top of the leveling pad shall be as specified in the plans. Potential depth of frost penetration at the wall location shall not be considered in designing the wall for depth of leveling pad.

100% of the soil reinforcement shall be connected to the wall facings. The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height or as shown on the plans. In no case shall this length be less than 6 feet. The soil reinforcement shall extend a minimum of 3 feet beyond the theoretical failure

plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be two times the block depth (front face to back face) or 32 inches, whichever is less. The first (bottom) layer of reinforcement shall be placed no further than 12 inches above the top of the leveling pad or the height of the block, but at least one block height above the leveling pad. The last (top) layer of soil reinforcement shall be no further than 21 inches below the top of the uppermost block.

Submit the following to the engineer for review: complete design calculations, explanatory notes, supporting materials, specifications, and detailed plans and shop drawings for the proposed wall system. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal stabilities as defined in AASHTO LRFD.

The wall submittal package shall be submitted electronically to the engineer and Structures Design Section. Submit all required information no later than 30 days prior to beginning construction of the wall. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls.

B.3 Wall System Components

Materials furnished under this contract shall conform to the requirements of this specification. All certifications related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Leveling Pad

The leveling pad shall step to follow the general slope of the ground line. The leveling pad steps shall keep the bottom of the wall below the minimum embedment. Additional embedment that is greater than the minimum embedment will not be measured for payment. The leveling pad shall be as wide as the proposed blocks or a minimum of 12 inches, whichever is greater. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Provide a 6 inches deep by 12 inch (minimum) wide wall leveling pad that consists of poured concrete masonry, Grade A , A-FA, A-S, A-T, A-IS, or A-IP concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard specification A concrete leveling pad shall be provided in following scenarios:

a. When the wall height measured from the top of the leveling pad to the top of the wall exceeds 5 feet at any point along the entire wall length.
b. A structure number has been assigned (such as R-XX-XXX), regardless of wall height.

Additionally, for walls that are less than or equal to 5 feet in height and do not have a wall number assigned to them, a compacted 1 foot deep by 2 foot wide leveling pad made from base aggregate dense 1 1/4-inch in conformance with standard spec 305 may be used.

B.3.2 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are cracked, chipped, or have other imperfections in accordance to ASTM C1372, or have excessive efflorescence shall not be used within the wall. A single block type and style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan or chosen by the engineer.

The top course of facing units shall be a solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material. A formed cast-in-place concrete cap may also be used to finish the wall. A cap of this type shall be designed to have texture, color, and appearance that complement the remainder of the wall. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap to correspond with each 24 inch change in vertical wall height and at maximum spacing of 10 feet. Concrete for all cast-in-place caps shall be Grade A and shall conform to the requirements of standard spec 501 .

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer in accordance to ASTM C1372. Blocks must have a minimum depth (front face to back face) of 12 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

Cementitious materials and aggregates for modular blocks shall conform to the requirements of ASTM C1372 section 4.1 and 4.2. Modular blocks shall meet the following requirements.

Test	Method	Requirement
Compressive Strength (psi)	ASTM C140	5000 min.
Water Absorption (%)	ASTM C140	6 max.
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1]	 1.0 max.[2] 1.5 max.[2]

[1] Test shall be run using a 3% saline solution.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

All blocks shall be certified as to strength, absorption, and freeze-thaw requirements unless, due to contract changes after letting, certified blocks are not available when required. At the time of delivery of certified blocks, furnish the engineer a certified test report from a department-approved independent testing laboratory for each lot of modular blocks. The certified test report shall clearly identify the firm conducting the sampling and

testing, the type of block, the date sampled, the name of the person who conducted the sampling, the represented lot, the number of blocks in the lot, and the specific test results for each of the stated requirements of this specification. The tests should have been conducted not more than 18 months prior to delivery. A lot shall not exceed 5000 blocks or fraction thereof produced in day. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

A department-approved independent testing laboratory shall control and conduct all modular block sampling and testing for certification. Prior to sampling, the manufacturer's representative shall identify all pallets of modular blocks contained in each lot. All pallets of blocks within the lot shall be numbered and marked to facilitate random sample selection.

The representative of the independent testing laboratory shall identify five pallets of blocks by random numbers and shall then select one block from each of these pallets. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project.

The department may conduct testing of certified or non-certified modular blocks lots delivered to the project. The department will not conduct freeze-thaw testing on blocks less than 45 days old. If a random sample of five blocks of any lot tested by the department fails to meet any of the requirements of this specification (nonconforming), the contractor shall remove from the project site all blocks from the failed lot not installed in the finished work at no cost to the department, unless the engineer allows otherwise. Nonconforming blocks installed in the finished work will be considered approved by the department as stated in standard spec 106.5(2) and any adjustment to the contract price will not exceed the price of the blocks charged by the supplier.

B.3.3 Geogrids

Geogrid supplied as reinforcing members shall be manufactured from long chain polymers limited to polypropylene, high-density polyethylene, polyaramid, and polyester. Geogrids shall form a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The minimum grid aperture shall be 0.5 inch. The geogrid shall maintain dimension stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. The geogrid shall be furnished in a protective wrapping that shall prevent exposure to ultraviolet radiation and damage from shipping or handling. The geogrid shall be kept dry until installed. Each roll shall be clearly marked to identify the material contained.

The wall supplier shall provide the nominal long-term design strength (T_{al}) and nominal long-term connection strength, T_{alc} as discussed below.

Nominal Long-Term Design Strength (T_{al})

The wall supplier shall supply the nominal long-term design strength (T_{al}) used in the design for each reinforcement layer and shall be determined by dividing the Ultimate Tensile Strength (T_{ult}) by the factors RF_{ID}, RF_{CR}, RF_D.

Hence,

$$T_{al} = \frac{T_{ult}}{RF_{ID} \, x RF_{CR} \, x RF_D}$$

where:

T_{ult} = ultimate tensile strength of the reinforcement determined from wide width tensile tests (ASTM D6637) for geogrids based on the minimum average roll value (MARV) for the product

RF_{ID} = strength reduction factor to account for installation damage to the reinforcement. In no case shall RF_{ID} be less than 1.1.

RF_{CR} = strength reduction factor to prevent long-term creep rupture of the reinforcement. In no case shall RF_{CR} be less than 1.2.

RF_D = strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation. In no case shall RF_D be less than 1.1.

Values for RF_{ID}, RF_{CR}, and RF_D shall be determined from product specific test results. Guidelines for determining RF_{ID}, RF_{CR}, and RF_D from product specific data are provided in FHWA Publication No. FHWA-NHI-10-024 and FHWA –NHI-10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes".

Nominal Long-term Connection Strength T_{ac}

The nominal long term connection strength, $T_{ac,}$ shall be based on laboratory geogrid connection tests between wall facing and geogrids. T_{ac} shall be as given below:

$$T_{ac} = \frac{T_{ult} * CR_{cr}}{RF_D}$$

where:

T_{ac} = nominal long-term reinforcement facing connection strength per unit reinfrocment width at a specified confining pressure

T_{ult} = ultimate tensile strength of the reinforcement for geogrids defined as the minimum average roll value (MARV) for the product

CR_{cr} = long term connection strength reduction factor to account for reduced ultimate strength resulting from connection.

RF_D = strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation.

T_{ac} shall be developed from the tests conducted by an independent laboratory on the same facing blocks and geogrids as proposed for the wall and shall cover a range of overburden pressures comparable to those anticipated in the proposed wall. The connection strength reduction factor CR_{cr} shall be determined in accordance to long-term connection test as described in Appendix B of FHWA Publication No. FHWA-NHI 10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes". CR_{cr} may also be obtained from the short term connection test meeting the requirements of NCMA test method SRWU-1 in Simac et al 1993 or ASTM D4884.

The contractor shall provide a manufacturer's certificate that the Tult (MARV) of the supplied geogrid has been determined in accordance to ASTM D4595 or ASTM D6637 as appropriate. Contractor shall also provide block to block and block to reinforcement connection test reports prepared and certified by an independent laboratory. Also provide calculations in accordance to AASHTO LRFD, and using the results of laboratory tests, that the block-geogrid connections shall be capable of resisting 100% of the maximum tension load in the soil reinforcements at any level within the wall, for the design life of the wall system.

B.3.4 Galvanized Metal Reinforcement

In lieu of polymeric geogrid earth reinforcement, galvanized metal reinforcement may be used. Design and materials shall be in accordance to section 11.10.6.4.2 of the current *AASHTO LRFD* Specifications. The design life of steel soil reinforcements shall also comply with AASHTO LRFD.

B.3.5 Pins

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the geogrid in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

B.3.6 Backfill Materials

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate No. 1 as given in standard spec 501.2.5.4.4 . All backfill placed within a zone from the base of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

Wall Backfill, Type B, shall comply with the requirements for Grade 1 Granular Backfill as contained in standard spec 209.2.2. All backfill placed in a zone extending horizontally from 1 foot behind the back face of the wall to 1 foot beyond the end of the reinforcement and extending vertically from the base of the leveling pad to the top of the final layer of all facing units shall be Wall Backfill, Type B.

Backfill within the reinforced zone shall meet the following requirements:

Test	Method	Value
pH	AASHTO T-289	4.5 – 9.0
Sulfate content[1]	AASHTO T-290	200 ppm max.
Chloride content[1]	AASHTO T-291	100 ppm max.
Electrical Resistivity[1]	AASHTO T-288	3000 ohm/cm min.
Angle of Internal Friction	AASHTO T-236	30 degrees min.
Organic Content[1]	AASHTO T-267	1.0% max.

[1] Requirement does not apply to walls with non-metallic reinforcement.

Prior to placement of the backfill, obtain and furnish to the engineer certified report of test results that the backfill material complies with the requirements of this specification. When backfill characteristics and/or sources change, a certified report of tests must be provided for the new backfill material.

All other backfill materials required to finish the wall and restore the ground surface may be select material available on the project that meets the engineer's approval.

C Construction

C.1 General

Place the wall facing units in accordance to the manufacturer's instructions and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed

voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers in accordance to the manufacturer's directions.

All excavation for the Wall Modular Block Mechanically Stabilized Earth shall conform to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back face of the wall.

C.2 Backfill

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of wall facing units. Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Compact wall backfill Type B as specified in standard spec 207.3.6. Compact Wall Backfill Type B to 95.0% of maximum density as determined by AASHTO T-99, Method C. Perform compaction testing on the backfill. When performing nuclear testing, use a nuclear gauge from the department's approved list, ensure that the operator is a HTCP certified Nuclear Density Technician I, and conform to CMM 8.15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 2 feet of vertical wall height, per 200 feet length of wall, or major portion thereof. A minimum of one test for every 2-foot layer of vertical wall height is required. Test sites shall be selected using ASTM Method D3665. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units, soil reinforcement, or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

C.3 Soil Reinforcement
Place soil reinforcement at the positions and to the lengths as indicated on the accepted shop drawings. Take care that backfill placement over the positioned soil reinforcement elements does not cause damage or misalignment of these elements. Correct any such damage or misalignment as directed by the engineer. Do not operate wheeled or tracked equipment directly on the soil reinforcement. A minimum cover of 6 inches is required before such operation is allowed.

C.4 Geogrid Layers
Place and anchor geogrid material between wall unit layers in the same manner as used to determine the Geogrid Block-to-Connection Strength. Place the grid material so that the machine direction of the grid is perpendicular to the wall face. Each grid layer shall be continuous throughout the lengths indicated on the plans. Join grid strips with straps, rings, hooks or other mechanical devices to prevent movement during backfilling operations. Prior to placing backfill on the grid, pull the grid taunt and hold in position with pins, stakes or other methods approved by the engineer.

C.5 Steel Layers
Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C.6 Geotechnical Information
Geotechnical data to be used in the design of the wall is given on the wall plan. After completion of wall excavation, notify the department and allow 2 days for the Regional Soil Engineer to review the foundation.

D Measurement
The department will measure Wall Modular Block Mechanically Stabilized Earth LRFD in area by the square foot, acceptably completed, measured as the vertical area within the pay limits the contract plan show. No other measurement of quantities shall be made in the field unless the engineer directs in writing a change to the limits indicated on the contract plans.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.05	Wall Modular Block Mechanically Stabilized Earth LRFD	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of surplus materials; supplying all necessary wall components to produce a functional system including cap, copings and leveling pad; constructing the retaining system and wall drainage systems if applicable; providing backfill, backfilling and compacting, and performing compaction testing. Parapets, railings, and other items above the wall cap or coping will be paid for separately.

Any required topsoil, fertilizer, seeding or sodding and mulch will be paid for at the contract unit price of topsoil, fertilizer, seeding or sodding and mulch, respectively.

99. Concrete Pavement 9-Inch Special, Item SPV.0180.01; Concrete Pavement HES 9-Inch Special, Item SPV.0180.02.

A Description

This special provision describes construction of doweled concrete pavement in accordance to standard specs 415, 710 and 715 , as shown on the plans, and as hereinafter provided.

B Materials

B.1 Concrete Mixtures

Supplement standard spec 715.2 with the following:

Concrete mix designs shall be the responsibility of the contractor. Provide the concrete mix designs necessary to accommodate contractor's operations and contractor scheduling according to the traffic provisions and the prosecution and progress provisions included in the plan. At least 7 business days before producing concrete, submit concrete mix documentation to the engineer for approval. Approval of the design mix does not relieve the contractor of the responsibility for meeting contractual requirements located within the traffic provisions and the prosecution and progress provisions.

If the geological composition of the coarse aggregate is primarily igneous or metamorphic materials, modify and supplement standard specs 415, 710,and 715 with the following:

- The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for Portland cement. For binary mixes use up to 15% fly ash or slag, except for slip-formed work the contractor may use up to 20% slag. For ternary mixes use up to 25% fly ash and slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.

- One hundred percent of the aggregate shall pass the 1-inch sieve.

Use of recycled concrete for coarse aggregate will not be allowed.

C Construction

C.1 Construction Methods

Supplement standard spec 415.3.16.1 (2) as follows:

At anytime during pavement placement or after pavement placement, the engineer may require coring to supplement the probing testing operation for conforming thickness verification to compliment normal QV testing. The coring will be completed at department expense.

D Measurement

The department will measure Concrete Pavement 9-Inch Special by area in square yards, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Concrete Pavement 9-Inch Special	SY
SPV.0180.02	Concrete Pavement HES 9-Inch Special	SY

Standard spec 415.5.3 is deleted and replaced with special provision Project Concrete Crack Mitigation and Repair, Item SPV.0105.01.

100. Excavation, Hauling and Disposal of Petroleum Contaminated Soil Item SPV.0195.01.; Excavation, Hauling and Disposal of Lead Contaminated Soil, Item SPV.0195.02.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum- and lead-contaminated soil. Petroleum-contaminated soil shall be disposed of at a DNR approved bioremediation facility. Lead-contaminated soil shall be disposed of at a DNR approved landfill facility. The closest DNR approved bioremediation and landfill facility is:

Veolia Seven Mile Creek Landfill
8001 Olson Drive
Eau Claire, Wisconsin 54703

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 petroleum- and lead-contaminated soil.

This special provision also describes pumping, containerizing, and disposing of contaminated groundwater (if dewatering is necessary).

Perform this work in accordance to standard spec 205 and with pertinent parts of Chapters NR 100-299 of the Wisconsin Administrative Code, as supplemented herein. Perform all work necessary to control, handle, and dispose of groundwater and surface water, and all other water that may be encountered within contaminated areas, as required for performance of the work.

A.2 Notice to the Contractor – Petroleum- and Lead-Contaminated Soil and Petroleum-Contaminated Groundwater Locations

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

- Adjacent to 23923 Burrows Road, from Station 67+50 to 67+75, from 40 feet right of the reference line to the southern construction limits on 6th Street.
- Adjacent to 23867 Burrows Road, from Station 71+00 to 71+50, from reference line to the construction limits on the right.
- Adjacent to 23867 Burrows Road, from Station 71+75 to 72+25, from reference line to the construction limits on the right.
- Adjacent to 23867 Burrows Road, from Station 73+25 to 74+00, from reference line to construction limits on the right.
- Adjacent to 23617 Washington Street, from Station 85+00 to 85+50, from reference line to construction limits right, including construction onto Adams Street.
- Adjacent to 35741 Osseo Road, from Station 90+00 to 92+50, from the reference line to the construction limits on the left.
- Adjacent to 35936 Osseo Road, from Station 104+25 to 104+75, from 20 feet right of the reference line to 100 feet right of the reference line.

Testing indicated that lead-contaminated soil is present at the following location:

- Adjacent to 23867 Burrows Road, from Station 74+00 to 74+25, from reference line to 50 feet right of the reference line, including construction on 4th Street.

Historic records indicate that petroleum-contaminated groundwater is present at the following location:

- Adjacent to 35741 Osseo Road, from Station 90+00 to 94+00, from the reference line to the construction limits on the left.

Contact the engineer and environmental consultant if dewatering is required in this location.

Contaminated soils and/or groundwater and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soils and/or groundwater and/or USTs are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Contaminated soil and/or groundwater at other locations shall be managed by the contractor under this contract. USTs will be removed by others.

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

Name:	Amy Adrihan
	Wisconsin DOT, Northwest Region
Address:	1701 N. 4th Street
	Superior, WI 54880
Phone:	(715) 392-7972
Fax:	(715) 392-7863
e-mail:	amy.adrihan@dot.state.wi.us

Name:	Katherine Vater
	TRC Environmental Corporation
Address:	708 Heartland Trail, Suite 3000
	Madison, WI 53717
Phone:	(608) 826-3663
Fax:	(608) 826-3941
e-mail:	kvater@trcsolutions.com

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	708 Heartland Trail, Suite 3000
	Madison, WI 53717
Fax:	(608) 826-3941

Contact:	Dan Haak
Phone:	(608) 826-3628 (office)
	(608) 886-7423 (mobile)
Fax:	DHaak@trcsolutions.com

Contact:	Katherine Vater
Phone:	(608) 826-3663 (office)
	(608) 807-8968 (mobile)
Fax:	kvater@trcsolutions.com

The role of the environmental consultant will be limited to:

- Determining the location and limits of petroleum- and lead-contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
- Identifying petroleum- and lead-contaminated soils to be hauled to the bioremediation and landfill facility;
- Documenting that activities associated with management of petroleum- and lead-contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
- Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation and landfill facility.
- Identifying contaminated groundwater to be hauled for treatment and disposal (if dewatering is necessary). Coordinating temporary storage containers, groundwater characterization, and location of disposal of contaminated water.

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 and landfill 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 and landfill 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 pump or haul contaminated groundwater offsite without specific approval from the environmental consultant. 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 at the following locations:

- Adjacent to 23867 Burrows Road, from Station 71+00 to 74+50, from reference line to the construction limits on the right, including the construction on 4th Street.

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. Protection and adjusting of monitoring wells is incidental to the bid item.

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 Amy Adrihan with the department, at (715) 392-7972.

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- and lead-contaminated soil at the bioremediation and landfill facility is subject to the facility's safety policies.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Control operations in the contaminated areas to minimize the quantity of petroleum- and lead-contaminated soil excavated.

Assist the environmental consultant in determining if USTs are present by performing a backhoe pit investigation, as directed by the environmental consultant, in the following areas:

- Adjacent to 23867 Burrows Road, from Station 71+75 to 72+25, from reference line to the construction limits on the right.
- Adjacent to 23867 Burrows Road, from Station 73+25 to 74+25, from reference line to 50 feet right of the reference line, including construction on 4th Street.

Perform the backhoe pit investigation as soon as practical after structures, sidewalks, curb and gutter, and pavement are removed and prior to significant excavations (if any) beginning in those areas. The backhoe pit investigations shall include up to 6 test pits within the areas listed above, to a maximum depth of 6 feet below ground surface. The backhoe test pit investigation shall be incidental to this pay item.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite disposal. 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 (PID readings less than 10 ppm and no observation of staining or petroleum odor) for reuse as fill within the construction limits, or
- Petroleum-contaminated soil (significant petroleum odor, staining, and/or PID readings greater than 10 ppm) for off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Lead-contaminated soil (soils excavated Adjacent to 23867 Burrows Road, from Station 74+00 to 74+25, from 25 feet right of the reference line to 50 feet right of the reference line, including construction on 4th Street) for direct landfilling at the WDNR-licensed landfill 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 disposal 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- and lead-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation and/or disposal 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.

Groundwater may be present within the construction limits. Water generated during dewatering operations (if necessary) is expected to be permitted to discharge to the surface except in the contaminated areas.

Water generated from dewatering activities within the contaminated groundwater may exceed the surface water discharge limits for petroleum compounds specified in the DNR's "General Permit to Discharge under the Wisconsin Pollutant Discharge Elimination System" for "Contaminated Groundwater from Remedial Action Operations" (WPDES Permit No. WI-0046566-5), Table 3.1.

Pump contaminated water that exceeds surface water discharge limits, as determined by environmental consultant, into temporary holding tanks provided by others, as necessary to complete construction. Allow contaminated water encountered, but not requiring removal as a standard course of construction, to remain in-place and do not manage in accordance to this special provision.

Employ construction methods and techniques in a manner that will minimize the need for dewatering, and if dewatering is required, minimize the volume of water generated. Take measures to limit groundwater, surface water, and precipitation from entering and exiting excavations in the areas of contamination. Such measures, which may include berming,

ditching, or other means, shall be maintained until construction of utilities in the areas of contamination are complete.

The environmental consultant will coordinate holding tank mobilizations, waste characterization sampling of accumulated water, and transportation/disposal of contaminated water.

The cost for holding tank mobilization, transportation, and contaminated water disposal will be paid by others.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities. Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statues, judiciary decisions, and regulations of the State of Wisconsin.

D Measurement

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

The department will measure Excavation, Hauling and Disposal of Lead-Contaminated Soil in tons of contaminated soil accepted by the landfill facility as documented by the weight tickets generated by the landfill 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
SPV.0195.01	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	Ton
SPV.0195.02	Excavation, Hauling, and Disposal of Lead Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; protection and adjustment of monitoring wells; 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.

101. Asphaltic Surface Special, Item SPV.0195.03

A Description

This special provision describes placing asphaltic surface special as shown on plans or designated by the engineer in the field and as hereinafter provided.

B Materials

Supplement standard spec 465.2 (1) and 465.2 (2) as follows:

Under the Asphaltic Surface Special bid item, furnish asphaltic mixture meeting the requirements specified for HMA Pavement Type E-3 or greater with asphaltic material AC PG 64-22 or PG 64-28.

C Construction

Supplement standard spec 460.3.2 to allow a minimum layer thickness of 1.5 inches for a 12.5mm nominal size mixture.

Construct asphaltic surface in accordance to standard spec 465.3.

D Measurement

The department will measure Asphaltic Surface Special by the ton, acceptably completed. The department will not measure asphaltic materials separately.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.03	Asphaltic Surface Special	Ton

Payment is full compensation for submitting an asphaltic mixture design, if required; for preparing the foundation; for providing the asphaltic mixture, including asphaltic material and reclaimed asphaltic pavement materials; and for compacting the mixture.

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 __4__ *(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 __4__ *(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 under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.
(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3
DISADVANTAGED BUSINESS ENTERPRISE 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.wisconsin.gov/business/engrserv/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		DBE Contractor Contact Person	
Phone:		Phone	
Fax:		Fax	
Email:		Email	

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

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

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

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

APPENDIX 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 2014 edition of the standard specifications:

101.3 Definitions

Replace the definition of semi-final estimate with the following effective with the December 2013 letting:

Semi-final estimate An estimate indicating the engineer has measured and reported all contract quantities and materials requirements.

105.11.1 Partial Acceptance

Replace paragraph two with the following effective with the December 2013 letting:

(2) Partial acceptance will relieve the contractor of maintenance responsibility for the designated portion of the work. By relieving the contractor of maintenance, the department does not relieve the contractor of responsibility for defective work or damages caused by the contractor's operations. Do not construe partial acceptance to be conditional final acceptance or final acceptance of any part of the project, or a waiver of any legal rights specified under 107.16.

105.11.2 Final Acceptance

Retitle and replace the entire text with the following effective with the December 2013 letting:

105.11.2 Project Acceptance

105.11.2.1 Inspection

105.11.2.1.1 General

(1) Notify the engineer when the project is substantially complete as defined in 105.11.2.1.3. As soon as it is practical, the engineer will inspect the work and categorize it as one of the following:

1. Unacceptable or not complete.
2. Substantially complete.
3. Complete.

105.11.2.1.2 Unacceptable or Not Complete

(1) The engineer will identify, in writing, work that is unacceptable or not complete. Immediately correct or complete that work. The engineer will assess contract time until the work is corrected or completed.

(2) Proceed as specified in 105.11.2.1.1 until the engineer determines that the work is complete.

105.11.2.1.3 Substantially Complete

(1) The project is substantially complete and the engineer will no longer assess contract time if the contractor has completed all contract bid items and change order work, except for the punch-list. As applicable, the following must have occurred:

1. All lanes of traffic are open on a finished surface.
2. All signage and traffic control devices are in place and operating.
3. All drainage, erosion control, excavation, and embankments are completed.
4. All safety appurtenances are completed.

(2) The engineer will provide a written punch-list enumerating work the contractor must perform and documents the contractor must submit before the the engineer will categorize the work as complete.

1. Punch-list work includes uncompleted cleanup work required under 104.9 and minor corrective work. Immediately correct or complete the punch-list work. The engineer may restart contract time if the contractor does not complete the punch-list work within 5 business days after receiving the written punch-list. The engineer and contractor may mutually agree to extend this 5-day requirement.
2. Punch-list documents include whatever contract required documentation is missing. The engineer may restart contract time if the contractor does not submit the punch-list documents within 15 business days after receiving the written punch-list. The engineer and contractor may mutually agree to extend this 15-day requirement.

(3) Proceed as specified in 105.11.2.1.1 until the work is complete.

105.11.2.1.4 Complete

(1) The project is complete when the contractor has completed all contract bid items, change order work, and punch-list work including the submission of all missing documentation.

105.11.2.2 Conditional Final Acceptance

(1) When the engineer determines that the project is complete, the engineer will give the contractor written notice of conditional final acceptance relieving the contractor of maintenance responsibility for the completed work.

105.11.2.3 Final Acceptance

(1) The engineer will grant final acceptance of the project after determining that all contract is work complete; all contract, materials, and payroll records are reviewed and approved; and the semi-final estimate quantities are final under 109.7.

(2) Failure to discover defective work or materials before final acceptance does not prevent the department from rejecting that work or those materials later. The department may revoke final acceptance if the department discovers defective work or materials after it has accepted the work.

105.13.3 Submission of Claim

Replace paragraph one with the following effective with the December 2013 letting:

(1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim, but not later than final acceptance of the project as specified in 105.11.2.3. If the contractor does not submit the claim before final acceptance of the project, the department will deny the claim.

107.17.3 Railroad Insurance Requirements

Replace paragraph one with the following effective with the December 2013 letting:

(1) If required by the special provisions, provide or arrange for a subcontractor to provide railroad protective liability insurance in addition to the types and limits of insurance required in 107.26. Keep railroad protective liability insurance coverage in force until completing all work, under or incidental to the contract, on the railroad right of way or premises of the railroad and until the engineer determines that the work is complete as specified in 105.11.2.1.4.

107.26 Standard Insurance Requirements

Replace paragraph one with the following effective with the December 2013 letting:

(1) Maintain the following types and limits of commercial insurance in force until the engineer determines that the work is complete as specified in 105.11.2.1.4.

TABLE 107-1 REQUIRED INSURANCE AND MINIMUM COVERAGES

TYPE OF INSURANCE	MINIMUM LIMITS REQUIRED[1]
1. Commercial general liability insurance endorsed to include blanket contractual liability coverage.[2]	$2 million combined single limits per occurrence with an annual aggregate limit of not less than $4 million.
2. Workers' compensation.	Statutory limits
3. Employers' liability insurance.	Bodily injury by accident: $100,000 each accident Bodily injury by disease: $500,000 each accident $100,000 each employee
4. Commercial automobile liability insurance covering all contractor-owned, non-owned, and hired vehicles used in carrying out the contract.[2]	$1 million-combined single limits per occurrence.

[1] The contractor may satisfy these requirements with primary insurance coverage or with excess/umbrella policies.

[2] The Wisconsin Department of Transportation, its officers, agents, and employees shall be named as an additional insured under the general liability and automobile liability insurance.

108.14 Terminating the Contractor's Responsibility

Replace paragraph one with the following effective with the December 2013 letting:

(1) The contractor's responsibilities are terminated, except as set forth in the contract bond and specified in 107.16, when the department grants final acceptance as specified in 105.11.2.3.

109.2 Scope of Payment

Replace paragraph two with the following effective with the December 2013 letting:

(2) The department will pay for the quantity of work acceptably completed and measured for payment as the measurement subsection for each bid item specifies. Within the contract provide means to furnish and install the work complete and in-place. Payment is full compensation for everything required to perform the work under the applicable bid items including, but not limited to, the work elements listed in the payment subsection. Payment also includes all of the following not specifically excluded in that payment subsection:

1. Furnishing and installing all materials as well as furnishing the labor, tools, supplies, equipment, and incidentals necessary to perform the work.
2. All losses or damages, except as specified in 107.14, arising from one or more of the following:
    - The nature of the work.
    - The action of the elements.
    - Unforeseen difficulties encountered during prosecution of the work.
3. All insurance costs, expenses, and risks connected with the prosecution of the work.
4. All expenses incurred because of an engineer-ordered suspension, except as specified in 104.2.2.3.
5. All infringements of patents, trademarks, or copyrights.
6. All other expenses incurred to complete and protect the work under the contract.

109.6.1 General

Replace paragraphs three and four with the following effective with the December 2013 letting:

(3) The department's payment of an estimate before conditional final acceptance of the work does not constitute the department's acceptance of the work, and does not relieve the contractor of responsibility for:

1. Protecting, repairing, correcting, or renewing the work.
2. Replacing all defects in the construction or in the materials used in the construction of the work under the contract, or responsibility for damage attributable to these defects.

(4) The contractor is responsible for all defects or damage that the engineer may discover on or before the engineer's conditional final acceptance of the work. The engineer is the sole judge of these defects or damage, and the contractor is liable to the department for not correcting all defects or damage.

109.7 Acceptance and Final Payment

Replace paragraphs one and two with the following effective with the December 2013 letting:

(1) After the engineer grants conditional final acceptance of the work as specified in 105.11.2.2 and reviews required document submittals and materials test reports, the engineer will issue the semi-final estimate.

(2) Within 30 calendar days after receiving the semi-final estimate, submit to the engineer a written statement of agreement or disagreement with the semi-final estimate. For an acceptable statement of disagreement, submit an item-by-item list with reasons for each disagreement. If the contractor does not submit this written statement within those 30 days, the engineer will process the final estimate for payment. The engineer and the contractor can mutually agree to extend this 30-day submission requirement.

450.3.3 Maintaining the Work

Replace paragraph one with the following effective with the December 2013 letting:

(1) Protect and repair the prepared foundation, tack coat, base, paved traffic lanes, shoulders, and seal coat. Correct all rich or bleeding areas, breaks, raveled spots, or other nonconforming areas in the paved surface.

455.3.2.5 Maintaining Tack Coat

Replace paragraph one with the following effective with the December 2013 letting:

(1) Protect and repair the existing surface and the tack coat. Correct areas with excess or deficient tack material and any breaks, raveled spots, or other areas where bond might be affected.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the January 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-3 mixes.

[2] 15.5 for E-3 mixes.

460.2.7 HMA Mixture Design

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

(1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to the department's test method number 1559 as described in CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to the department's test method number 1559.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	E - 0.3	E - 1	E - 3	E - 10	E - 30	E - 30x	SMA
ESALs x 10^6 (20 yr design life)	< 0.3	0.3 - < 1	1 - < 3	3 - < 10	10 - < 30	>= 30	___
LA Wear (AASHTO T96)							
100 revolutions(max % loss)	13	13	13	13	13	13	13
500 revolutions(max % loss)	50	50	45	45	45	45	40
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12	12	12	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18	18	18	18	18	18	18
Fractured Faces (ASTM 5821) (one face/2 face, % by count)	60 / __	65 / __	75 / 60	85 / 80	98 / 90	100/100	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40	40	43	45	45	45	45
Sand Equivalency (AASHTO T176, min)	40	40	40	45	45	50	50
Gyratory Compaction							
Gyrations for N_{ini}	6	7	7	8	8	9	8
Gyrations for N_{des}	40	60	75	100	100	125	65
Gyrations for N_{max}	60	75	115	160	160	205	160
Air Voids, $\%V_a$ ($\%G_{mm}$ N_{des})	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)
% G_{mm} N_{ini}	<= 91.5[1]	<= 90.5[1]	<= 89.0[1]	<= 89.0	<= 89.0	<= 89.0	___
% G_{mm} N_{max}	<= 98.0	<= 98.0	<= 98.0	<= 98.0	<= 98.0	<= 98.0	___
Dust to Binder Ratio[2] (% passing 0.075/P_{be})	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80[4] [5]	65 - 78[4]	65 - 75[3] [4]	65 - 75[3] [4]	65 - 75[3] [4]	65 - 75[3] [4]	70 - 80
Tensile Strength Ratio (TSR) (ASTM 4867)							
no antistripping additive	0.70	0.70	0.70	0.70	0.70	0.70	0.70
with antistripping additive	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Draindown at Production Temperature (%)	___	___	___	___	___	___	0.30

[1] The percent maximum density at initial compaction is only a guideline.

[2] For a gradation that passes below the boundaries of the caution zone(ref. AASHTO MP3), the dust to binder ratio limits are 0.6 - 1.6.

[3] For 9.5mm and 12.5 mm nominal maximum size mixtures, the specified VFB range is 70 - 76%.

[4] For 37.5mm nominal maximum size mixes, the specified VFB lower limit is 67%.

[5] For 25.0mm nominal maximum size mixes, the specified VFB lower limit is 67%.

460.2.8.2.1.5 Control Limits

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

(1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
75-µm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent	+/- 1.3	+/- 1.0
VMA in percent[1]	- 0.5	- 0.2

[1] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in Table 460-1.

(2) Warning bands are defined as the area between the JMF limits and the warning limits.

460.2.8.2.1.6 Job Mix Formula Adjustment

Replace the entire text with the following effective with the January 2014 letting:

(1) The contractor may request adjustment of the JMF according to the department's test method number 1559. Have an HTCP HMA technician certified at a level appropriate for process control and troubleshooting or mix design submit a written JMF adjustment request. Ensure that the resulting JMF is within specified master gradation bands. The department will have an HMA technician certified at level III review the proposed adjustment and, if acceptable, issue a revised JMF.

(2) The department will not allow adjustments that do the following:

- Exceed specified JMF tolerance limits.
- Reduce the JMF asphalt content unless the production VMA running average meets or exceeds the minimum VMA design requirement defined in table 460-1for the mixture produced.

(3) Have an HMA technician certified at level II make related process adjustments. If mixture redesign is necessary, submit a new JMF, subject to the same specification requirements as the original JMF.

520.3.8 Protection After Laying

Delete the entire subsection.

614.2.1 General

Replace paragraphs five and six with the following effective with the December 2013 letting:

(5) Furnish zinc coated wire rope and fitting conforming to the plans and galvanized according to ASTM A741.

(6) Before installation store galvanized components above ground level and away from surface run off. The department may reject material if the zinc coating is physically damaged or oxidized.

(7) Provide manufacturer's drawings, and installation and maintenance instructions when providing proprietary systems.

614.2.3 Steel Rail and Fittings

Replace paragraph one with the following effective with the December 2013 letting:

(1) Furnish galvanized steel rail conforming to AASHTO M180 class A, type II beam using the single-spot test coating requirements. Furnish plates, anchor plates, post mounting brackets, and other structural steel components conforming to 506.2.2.1 and hot-dip galvanized according to ASTM A123.

614.2.7 Crash Cushions

Replace paragraph one with the following effective with the December 2013 letting:

(1) Furnish permanent and temporary crash cushions from the department's approved products list. Use cushions as wide or wider than the plan back-width. Furnish transitions conforming to the crash cushion manufacturer's design and specifications. Submit manufacturer crash cushion and transition design details to engineer before installing.

616.3.1 General

Replace paragraph six with the following effective with the December 2013 letting:

(6) Remove and dispose of all excess excavation and surplus materials from the fence site.

618.3.3 Restoration

Replace paragraph one with the following effective with the December 2013 letting:

(1) Upon termination of hauling operations and before conditional final acceptance, restore all haul roads, including drainage facilities and other components, to the equivalent of pre-hauling conditions.

627.3.1 General

Replace paragraph four with the following effective with the December 2013 letting:

(4) Maintain the mulched areas and repair all areas damaged by wind, erosion, traffic, fire or other causes.

637.3.2.1 General

Delete paragraph three effective with the December 2013 letting.

670.3.4.2 Post-Construction Work

Replace paragraph one with the following effective with the December 2013 letting:

(1) Submit 5 copies of ITS documentation including but not limited to the following:

- Operator's manual: for contractor furnished equipment, submit a manual containing detailed operating instructions for each different type or model of equipment and or operation performed.
- Maintenance procedures manuals: for contractor furnished equipment, submit a manual containing detailed preventive and corrective maintenance procedures for each type or model of equipment furnished.
- Cabinet fiber optic wiring diagram: submit a cabinet wiring diagram, identified by location for each cabinet. Include both electrical wiring and fiber optic conductor and cable connections. Place one copy of the fiber optic wiring diagram in a weatherproof holder in the cabinet. Deliver the other copies to the engineer.
- As-built drawings: submit final as-built drawings that detail the final placement of all conduit, cabling, equipment, and geometric modifications within the contract. Provide all documentation in an electronic format adhering to the region’s ITS computer aided drafting standards and according to the department’s as-built requirements. The department will review the as-built drawings for content and electronic format. Modify both the content and format of as-built drawings until meeting all requirements.
- Equipment inventory list: submit an inventory list including serial number, make, model, date installed, and location installed of all equipment installed under the contract.

Errata

Make the following corrections to the 2014 edition of the standard specifications:

415.3.14 Protecting Concrete

Correct errata by referencing the opening to service specification.

(1) Erect and maintain suitable barricades and, if necessary, provide personnel to keep traffic off the newly constructed pavement until it is opened for service as specified in 415.3.15. Conform to 104.6 for methods of handling and facilitating traffic.

501.2.9 Concrete Curing Materials

Correct errata by changing AASHTO M171 to ASTM C171.

(2) Furnish sheeting conforming to ASTM C171 for white opaque polyethylene film, except that the contractor may use clear or black polyethylene for cold weather protection.

607.2 Materials

Correct errata by changing AASHTO M198 to ASTM C990.

(1) Use materials conforming to the requirements for the class of material named and specified below.

Composite pipe, couplings, fittings and joint materials	ASTM D2680
Annular rubber and plastic gaskets for flexible, watertight joints	ASTM C990
External rubber gaskets, mastic, and protective film	ASTM C877
Mortar	519.2.3

637.2.1.3 Sheet Aluminum

Correct errata by changing ASTM B449 to B921 and eliminating the specification for coating thickness.

(4) Degrease, etch, and coat the sign blank on both sides with a chromate treatment conforming to ASTM B921, class 2.

637.3.3.4 Performance

Correct errata to reference to 105.11.2.3 as revised to implement changes to the finals process.

(1) Under 105.11.2.3 the department may revoke acceptance and direct the contractor to repair or replace previously accepted sign installations if the department subsequently discovers evidence of defective materials or improper installation. Deficiencies that warrant department action include but are not limited to the following:

- Sign posts more than five degrees out of plumb.
- Signs twisted by more than 5 degrees from plan orientation.
- Signs with delaminated or warped plywood.
- Signs with bubbling, fading, delaminating, or buckling sheeting.

646.3.3.4 Proving Period

Correct errata to reference to 105.11.2.3 as revised to implement changes to the finals process.

(4) Replace all marking within sections with a percent failing more than 10% and repair or replace all markings that, in the engineer's assessment, show evidence of improper construction. If post-acceptance inspections uncover evidence of defective materials or improper construction, the department may revoke acceptance under 105.11.2.3.

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://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm

(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://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/crc-basic-info.pdf

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

SEPTEMBER 2002

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.

2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

County	%	County	%	County	%
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

   As referred to in this section, the Director means:

   Director
   Office of Federal Contract Compliance Programs
   Ruess Federal Plaza
   310 W. Wisconsin Ave., Suite 1115
   Milwaukee, WI 53202

   The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

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 contacts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this in 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
TREMPEALEAU COUNTY

Compiled by the State of Wisconsin - Department of Workforce Development
for the Department of Transportation
Pursuant to s. 103.50, Stats.
Issued on September 1, 2013

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions reqarding 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.

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Bricklayer, Blocklayer or Stonemason	35.58	19.20	54.78
Carpenter	30.16	15.31	45.47
Cement Finisher	31.37	16.85	48.22
Future Increase(s): Add $1.87 on 6/1/13; 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	29.13	17.97	47.10
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Fence Erector	28.00	4.50	32.50
Ironworker	34.15	21.20	55.35
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.			
Line Constructor (Electrical)	31.29	15.34	46.63
Painter	28.00	13.48	41.48
Pavement Marking Operator	26.04	15.50	41.54
Piledriver	30.66	15.31	45.97
Roofer or Waterproofer	22.95	10.62	33.57
Teledata Technician or Installer	16.00	7.57	23.57
Tuckpointer, Caulker or Cleaner	15.30	8.26	23.56
Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	33.35	14.21	47.56
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	35.50	13.75	49.25

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65
TRUCK DRIVERS			
Single Axle or Two Axle	33.22	18.90	52.12
Three or More Axle	23.31	17.13	40.44
Future Increase(s): Add $1.85/hr on 6/1/2013. Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Articulated, Euclid, Dumptor, Off Road Material Hauler	27.77	19.90	47.67
Future Increase(s): Add $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.			
Pavement Marking Vehicle	23.84	14.82	38.66
Shadow or Pilot Vehicle	33.22	18.90	52.12
Truck Mechanic	22.50	16.19	38.69
LABORERS			
General Laborer	28.07	13.90	41.97
Future Increase(s): Add $1.70/hr on 6/1/2013; 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	24.51	15.12	39.63
Landscaper	28.07	13.90	41.97
Future Increase(s): Add $1.70/hr on 6/1/13; 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	24.70	13.90	38.60
Future Increase(s): Add $1.70/hr on 6/1/2013; Add $1.60/hr on 6/1/2014. 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 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.			
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	13.00	5.73	18.73

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Railroad Track Laborer	13.00	10.75	23.75
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). Future Increase(s): Add $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.	35.22	19.90	55.12
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. Future Increase(s): Add $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.	34.72	19.90	54.62
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	34.22	19.90	54.12

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
& A- Frames. Future Increase(s): Add $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.			
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 Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawer (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 $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.	33.96	19.90	53.86
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 $2/hr on 6/1/13; Add $1.75/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 $1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor- wages- eeo/ index. shtm.	34.22	19.90	54.12
Fiber Optic Cable Equipment.	20.00	8.16	28.16

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

STATE: Wisconsin
GENERAL DECISION NUMBER: WI130010
DATE: December 20, 2013
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

LABORERS CLASSIFICATION:	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 Sawer 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

CLASSES OF LABORER AND MECHANICS

Bricklayer	30.20	17.19
Carpenter	30.48	15.80
Millwright	32.11	15.80
Piledriverman	30.98	15.80
Ironworker	34.15	22.05
Cement Mason/Concrete Finisher	31.37	16.85
Electrician		See Page 3
Line Construction		
Lineman	38.25	18.00
Heavy Equipment Operator	34.43	16.71
Equipment Operator	30.60	15.41
Heavy Groundman Driver	26.78	14.11
Light Groundman Driver	24.86	13.45
Groundsman	21.04	12.16
Painters	21.15	11.53
Well Drilling:		
Well Driller	16.52	3.70

Truck Drivers:	Basic Hourly Rates	Fringe Benefits
1 & 2 Axles	23.82	18.32
Three or More Axles; Euclids, Dumptor & Articulated, Truck Mechanic	23.97	18.32

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 4, 2013; Modification #1 dated February 1, 2013; Modification #2 dated June 7, 2013; Modification #3 dated July 19, 2013; Modification #4 dated August 23, 2013; Modification #5 dated September 13, 2013; Modification #6 dated September 27, 2013; Modification #7 dated December 20, 2013.

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

STATE: Wisconsin
GENERAL DECISION NUMBER: WI130010
DATE: December 20, 2013
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

POWER EQUIPMENT OPERATORS CLASSIFICATION:	Basic Hourly Rates	Fringe Benefits
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	$36.72	$20.10
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.	$36.22	$20.10
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 (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.	$35.72	$20.10
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.	$35.46	$20.10
Group 5: Air compressor; power pack; vibratory hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; concrete pro-portioning 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.	$35.17	$20.10
Group 6: Off – road material hauler with or without ejector	$29.27	$20.10

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: WI130010
DATE: December 20, 2013
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

LABORERS CLASSIFICATION:	Rates	Benefits
Electricians		
Area 1	$28.40	16.676
Area 2:		
Electricians	29.13	17.92
Area 3:		
Electrical contracts under $130,000	26.24	16.85
Electrical contracts over $130,000	29.41	16.97
Area 4:	28.10	17.24
Area 5	28.61	16.60
Area 6	35.25	19.30
Area 8		
Electricians	30.60	24.95% + 10.33
Area 9:		
Electricians	32.94	18.71
Area 10	28.97	19.55
Area 11	31.91	23.60
Area 12	32.87	19.23
Area 13	32.82	22.51
Teledata System Installer		
Area 14		
Installer/Technician	21.89	11.83
Sound & Communications		
Area 15		
Installer	16.47	14.84
Technician	24.75	16.04

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 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, TREMPEALEAU, VERNON and WASHBURN COUNTIES

Area 3 - FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township)

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.

Area 5 - ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausaukee), 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 6 - KENOSHA COUNTY

Area 8 - DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES

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 10 - CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

Area 11 - DOUGLAS COUNTY

Area 12 - RACINE (except Burlington township) COUNTY

Area 13 - MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES

Area 14 - Statewide.

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.

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 omision 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.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 CONTRACT ITEMS					
0010	201.0120 CLEARING	750.000 ID		.		.
0020	201.0220 GRUBBING	900.000 ID		.		.
0030	203.0600.S REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 01. 88+42.2	LUMP	LUMP			.
0040	204.0100 REMOVING PAVEMENT	1,040.000 SY		.		.
0050	204.0110 REMOVING ASPHALTIC SURFACE	1,500.000 SY		.		.
0060	204.0150 REMOVING CURB & GUTTER	14,245.000 LF		.		.
0070	204.0155 REMOVING CONCRETE SIDEWALK	7,750.000 SY		.		.
0080	204.0165 REMOVING GUARDRAIL	335.000 LF		.		.
0090	204.0170 REMOVING FENCE	190.000 LF		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0100	204.0180 REMOVING DELINEATORS AND MARKERS	3.000 EACH		.		.
0110	204.0210 REMOVING MANHOLES	23.000 EACH		.		.
0120	204.0220 REMOVING INLETS	56.000 EACH		.		.
0130	204.0235 REMOVING BUILDINGS (PARCEL) 01. PARCEL 31	LUMP	LUMP			.
0140	204.0235 REMOVING BUILDINGS (PARCEL) 02. PARCEL 38	LUMP	LUMP			.
0150	204.0235 REMOVING BUILDINGS (PARCEL) 03. PARCEL 39	LUMP	LUMP			.
0160	204.0235 REMOVING BUILDINGS (PARCEL) 04. PARCEL 84	LUMP	LUMP			.
0170	204.0240 SITE CLEARANCE (PARCEL) 01. PARCEL 31	LUMP	LUMP			.
0180	204.0240 SITE CLEARANCE (PARCEL) 02. PARCEL 38	LUMP	LUMP			.
0190	204.0240 SITE CLEARANCE (PARCEL) 03. PARCEL 39	LUMP	LUMP			.

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PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0200	204.0240 SITE CLEARANCE (PARCEL) 04. PARCEL 84	LUMP	LUMP			.
0210	204.0245 REMOVING STORM SEWER (SIZE) 01. 12-INCH	1,970.000 LF		.		.
0220	204.0245 REMOVING STORM SEWER (SIZE) 02. 18-INCH	20.000 LF		.		.
0230	204.0245 REMOVING STORM SEWER (SIZE) 03. 24-INCH	530.000 LF		.		.
0240	204.0245 REMOVING STORM SEWER (SIZE) 04. 30-INCH	10.000 LF		.		.
0250	204.0245 REMOVING STORM SEWER (SIZE) 05. 36-INCH	80.000 LF		.		.
0260	204.0245 REMOVING STORM SEWER (SIZE) 06. 48-INCH	5.000 LF		.		.
0270	204.0270 ABANDONING CULVERT PIPES	1.000 EACH		.		.
0280	204.9105.S REMOVING (ITEM DESCRIPTION) 01. CONCRETE RETAINING WALL (PARCEL 77)	LUMP	LUMP			.
0290	204.9105.S REMOVING (ITEM DESCRIPTION) 02. CONCRETE RETAINING WALL (PARCEL 78)	LUMP	LUMP			.

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PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0300	204.9105.S REMOVING (ITEM DESCRIPTION) 03. CONCRETE RETAINING WALL (PARCEL 79)	LUMP	LUMP			.
0310	205.0100 EXCAVATION COMMON	29,700.000 CY		.		.
0320	206.1000 EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-61-211	LUMP	LUMP			.
0330	206.3000 EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 01. R-61-0012	LUMP	LUMP			.
0340	206.3000 EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 02. R-61-0013	LUMP	LUMP			.
0350	206.3000 EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 03. R-61-0014	LUMP	LUMP			.
0360	206.3000 EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 04. R-61-0015	LUMP	LUMP			.
0370	206.6000.S TEMPORARY SHORING	1,690.000 SF		.		.
0380	209.0100 BACKFILL GRANULAR	50.000 CY		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0390	210.0100 BACKFILL STRUCTURE	320.000 CY		.		.
0400	213.0100 FINISHING ROADWAY (PROJECT) 01. 7130-08-72	1.000 EACH		.		.
0410	213.0100 FINISHING ROADWAY (PROJECT) 02. 7132-07-70	1.000 EACH		.		.
0420	213.0100 FINISHING ROADWAY (PROJECT) 03. 7132-08-72	1.000 EACH		.		.
0430	214.0100 OBLITERATING OLD ROAD	4.000 STA		.		.
0440	305.0110 BASE AGGREGATE DENSE 3/4-INCH	580.000 TON		.		.
0450	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	23,480.000 TON		.		.
0460	415.0210 CONCRETE PAVEMENT GAPS	6.000 EACH		.		.
0470	415.0410 CONCRETE PAVEMENT APPROACH SLAB	115.000 SY		.		.
0480	416.0160 CONCRETE DRIVEWAY 6-INCH	1,390.000 SY		.		.

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FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0490	416.0260 CONCRETE DRIVEWAY HES 6-INCH	50.000 SY		.		.
0500	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	106.000 TON		.		.
0510	465.0125 ASPHALTIC SURFACE TEMPORARY	530.000 TON		.		.
0520	465.0310 ASPHALTIC CURB	400.000 LF		.		.
0530	465.0315 ASPHALTIC FLUMES	10.000 SY		.		.
0540	502.0100 CONCRETE MASONRY BRIDGES	536.000 CY		.		.
0550	502.3200 PROTECTIVE SURFACE TREATMENT	1,100.000 SY		.		.
0560	503.0128 PRESTRESSED GIRDER TYPE I 28-INCH	1,096.000 LF		.		.
0570	505.0405 BAR STEEL REINFORCEMENT HS BRIDGES	6,020.000 LB		.		.
0580	505.0605 BAR STEEL REINFORCEMENT HS COATED BRIDGES	93,350.000 LB		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0590	506.2605 BEARING PADS ELASTOMERIC NON-LAMINATED	42.000 EACH		.		.
0600	506.4000 STEEL DIAPHRAGMS (STRUCTURE) 01. B-61-211	18.000 EACH		.		.
0610	513.7025 RAILING STEEL TYPE C5 (STRUCTURE) 01. B-61-211	LUMP	LUMP			.
0620	516.0500 RUBBERIZED MEMBRANE WATERPROOFING	28.000 SY		.		.
0630	517.1015.S CONCRETE STAINING MULTI-COLOR (STRUCTURE) 01. B-61-211	985.000 SF		.		.
0640	517.1050.S ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 01. B-61-211	985.000 SF		.		.
0650	520.8000 CONCRETE COLLARS FOR PIPE	55.000 EACH		.		.
0660	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	1.000 EACH		.		.
0670	550.0010 PRE-BORING UNCONSOLIDATED MATERIALS	160.000 LF		.		.
0680	550.1100 PILING STEEL HP 10-INCH X 42 LB	1,710.000 LF		.		.

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PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0690	550.2148 PILING CIP CONCRETE 14 X 0.50-INCH	2,000.000 LF		.		.
0700	601.0115 CONCRETE CURB TYPE G	105.000 LF		.		.
0710	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A	13,876.000 LF		.		.
0720	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D	447.000 LF		.		.
0730	601.0600 CONCRETE CURB PEDESTRIAN	180.000 LF		.		.
0740	602.0405 CONCRETE SIDEWALK 4-INCH	74,965.000 SF		.		.
0750	602.0415 CONCRETE SIDEWALK 6-INCH	11,350.000 SF		.		.
0760	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	464.000 SF		.		.
0770	602.1500 CONCRETE STEPS	89.000 SF		.		.
0780	606.0200 RIPRAP MEDIUM	430.000 CY		.		.
0790	606.0300 RIPRAP HEAVY	285.000 CY		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0800	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	2,820.000 LF		.		.
0810	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	596.000 LF		.		.
0820	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	685.000 LF		.		.
0830	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	16.000 LF		.		.
0840	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	112.000 LF		.		.
0850	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH	8.000 LF		.		.
0860	611.0430 RECONSTRUCTING INLETS	1.000 EACH		.		.
0870	611.0530 MANHOLE COVERS TYPE J	23.000 EACH		.		.
0880	611.0624 INLET COVERS TYPE H	43.000 EACH		.		.
0890	611.0633 INLET COVERS TYPE HM-GJ-S	3.000 EACH		.		.

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PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0900	611.0639 INLET COVERS TYPE H-S	21.000 EACH		.		.
0910	611.0645 INLET COVERS TYPE MS-A	8.000 EACH		.		.
0920	611.0666 INLET COVERS TYPE Z	1.000 EACH		.		.
0930	611.2004 MANHOLES 4-FT DIAMETER	1.000 EACH		.		.
0940	611.2005 MANHOLES 5-FT DIAMETER	17.000 EACH		.		.
0950	611.2006 MANHOLES 6-FT DIAMETER	4.000 EACH		.		.
0960	611.2007 MANHOLES 7-FT DIAMETER	1.000 EACH		.		.
0970	611.3003 INLETS 3-FT DIAMETER	33.000 EACH		.		.
0980	611.3004 INLETS 4-FT DIAMETER	3.000 EACH		.		.
0990	611.3230 INLETS 2X3-FT	32.000 EACH		.		.

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FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1000	611.3901 INLETS MEDIAN 1 GRATE	6.000 EACH		.		.
1010	611.3902 INLETS MEDIAN 2 GRATE	1.000 EACH		.		.
1020	611.8110 ADJUSTING MANHOLE COVERS	10.000 EACH		.		.
1030	611.8120.S COVER PLATES TEMPORARY	102.000 EACH		.		.
1040	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH	135.000 LF		.		.
1050	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH	1,275.000 LF		.		.
1060	616.0700.S FENCE SAFETY	600.000 LF		.		.
1070	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 7132-07-70	1.000 EACH		.		.
1080	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02. 7132-08-72	1.000 EACH		.		.
1090	619.1000 MOBILIZATION	1.000 EACH		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1100	625.0100 TOPSOIL	5,310.000 SY		.		.
1110	625.0500 SALVAGED TOPSOIL	8,550.000 SY		.		.
1120	627.0200 MULCHING	13,710.000 SY		.		.
1130	628.1104 EROSION BALES	20.000 EACH		.		.
1140	628.1504 SILT FENCE	5,250.000 LF		.		.
1150	628.1520 SILT FENCE MAINTENANCE	2,625.000 LF		.		.
1160	628.1905 MOBILIZATIONS EROSION CONTROL	10.000 EACH		.		.
1170	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	5.000 EACH		.		.
1180	628.2008 EROSION MAT URBAN CLASS I TYPE B	2,800.000 SY		.		.
1190	628.6005 TURBIDITY BARRIERS	500.000 SY		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1200	628.6510 SOIL STABILIZER TYPE B	1.000 ACRE		.		.
1210	628.7005 INLET PROTECTION TYPE A	83.000 EACH		.		.
1220	628.7010 INLET PROTECTION TYPE B	14.000 EACH		.		.
1230	628.7015 INLET PROTECTION TYPE C	54.000 EACH		.		.
1240	628.7020 INLET PROTECTION TYPE D	27.000 EACH		.		.
1250	628.7504 TEMPORARY DITCH CHECKS	130.000 LF		.		.
1260	628.7560 TRACKING PADS	8.000 EACH		.		.
1270	628.7570 ROCK BAGS	50.000 EACH		.		.
1280	629.0210 FERTILIZER TYPE B	10.500 CWT		.		.
1290	630.0130 SEEDING MIXTURE NO. 30	136.000 LB		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1300	630.0140 SEEDING MIXTURE NO. 40	175.000 LB		.		.
1310	630.0200 SEEDING TEMPORARY	460.000 LB		.		.
1320	632.0201 SHRUBS (SPECIES, ROOT, SIZE) 01. COMMON LILAC, CG, 18" HEIGHT	1.000 EACH		.		.
1330	633.5200 MARKERS CULVERT END	1.000 EACH		.		.
1340	634.0612 POSTS WOOD 4X6-INCH X 12-FT	5.000 EACH		.		.
1350	634.0614 POSTS WOOD 4X6-INCH X 14-FT	43.000 EACH		.		.
1360	634.0616 POSTS WOOD 4X6-INCH X 16-FT	12.000 EACH		.		.
1370	634.0618 POSTS WOOD 4X6-INCH X 18-FT	8.000 EACH		.		.
1380	634.0810 POSTS TUBULAR STEEL 2X2-INCH X 10-FT	23.000 EACH		.		.
1390	634.0811 POSTS TUBULAR STEEL 2X2-INCH X 11-FT	15.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1400	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT	11.000 EACH		.		.
1410	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT	5.000 EACH		.		.
1420	637.2210 SIGNS TYPE II REFLECTIVE H	634.420 SF		.		.
1430	637.2230 SIGNS TYPE II REFLECTIVE F	109.000 SF		.		.
1440	638.2102 MOVING SIGNS TYPE II	6.000 EACH		.		.
1450	638.2602 REMOVING SIGNS TYPE II	149.000 EACH		.		.
1460	638.3000 REMOVING SMALL SIGN SUPPORTS	81.000 EACH		.		.
1470	642.5201 FIELD OFFICE TYPE C	1.000 EACH		.		.
1480	643.0100 TRAFFIC CONTROL (PROJECT) 01. 7130-08-72	1.000 EACH		.		.
1490	643.0100 TRAFFIC CONTROL (PROJECT) 02. 7132-08-72	1.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1500	643.0300 TRAFFIC CONTROL DRUMS	8,280.000 DAY		.		.
1510	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	29,000.000 DAY		.		.
1520	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	27,000.000 DAY		.		.
1530	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	3,300.000 DAY		.		.
1540	643.0900 TRAFFIC CONTROL SIGNS	14,380.000 DAY		.		.
1550	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	60.000 EACH		.		.
1560	643.2000 TRAFFIC CONTROL DETOUR (PROJECT) 01. 7132-08-72	1.000 EACH		.		.
1570	643.3000 TRAFFIC CONTROL DETOUR SIGNS	61,680.000 DAY		.		.
1580	645.0120 GEOTEXTILE FABRIC TYPE HR	1,285.000 SY		.		.
1590	646.0106 PAVEMENT MARKING EPOXY 4-INCH	15,660.000 LF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1600	646.0126 PAVEMENT MARKING EPOXY 8-INCH	540.000 LF		.		.
1610	646.0600 REMOVING PAVEMENT MARKINGS	1,650.000 LF		.		.
1620	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2	4.000 EACH		.		.
1630	647.0356 PAVEMENT MARKING WORDS EPOXY	2.000 EACH		.		.
1640	647.0456 PAVEMENT MARKING CURB EPOXY	2,125.000 LF		.		.
1650	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH	35.000 LF		.		.
1660	647.0656 PAVEMENT MARKING PARKING STALL EPOXY	194.000 LF		.		.
1670	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	105.000 LF		.		.
1680	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	3,495.000 LF		.		.
1690	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH	2,650.000 LF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1700	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	6,650.000 LF		.		.
1710	650.4000 CONSTRUCTION STAKING STORM SEWER	99.000 EACH		.		.
1720	650.4500 CONSTRUCTION STAKING SUBGRADE	10,333.000 LF		.		.
1730	650.5000 CONSTRUCTION STAKING BASE	629.000 LF		.		.
1740	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	447.000 LF		.		.
1750	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. R-61-0012	LUMP	LUMP			.
1760	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 02. R-61-0013	LUMP	LUMP			.
1770	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 03. R-61-0014	LUMP	LUMP			.
1780	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 04. R-61-0015	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1790	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 05. M-61-001	LUMP	LUMP			.
1800	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 06. M-61-002 (7132-08-72)	LUMP	LUMP			.
1810	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 07. M-61-002 (7130-08-72)	LUMP	LUMP			.
1820	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 08. B-61-211	LUMP	LUMP			.
1830	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT	9,745.000 LF	.			.
1840	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 7130-08-72	LUMP	LUMP			.
1850	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 02. 7132-08-72	LUMP	LUMP			.
1860	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7130-08-72	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1870	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 7132-07-70	LUMP	LUMP			.
1880	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 03. 7132-08-72	LUMP	LUMP			.
1890	650.9920 CONSTRUCTION STAKING SLOPE STAKES	10,333.000 LF		.		.
1900	652.0125 CONDUIT RIGID METALLIC 2-INCH	209.000 LF		.		.
1910	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	14,768.000 LF		.		.
1920	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	1,020.000 LF		.		.
1930	653.0140 PULL BOXES STEEL 24X42-INCH	32.000 EACH		.		.
1940	653.0222 JUNCTION BOXES 18X12X6-INCH	4.000 EACH		.		.
1950	654.0105 CONCRETE BASES TYPE 5	24.000 EACH		.		.
1960	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	8,668.000 LF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1970	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	29,456.000 LF		.		.
1980	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG	50,127.000 LF		.		.
1990	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. CB100	LUMP	LUMP			.
2000	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. CB200	LUMP	LUMP			.
2010	657.6005.S ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	4.000 EACH		.		.
2020	690.0150 SAWING ASPHALT	1,740.000 LF		.		.
2030	690.0250 SAWING CONCRETE	2,100.000 LF		.		.
2040	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT	3,512.000 DOL	1.00000		3512.00	
2050	715.0502 INCENTIVE STRENGTH CONCRETE STRUCTURES	3,216.000 DOL	1.00000		3216.00	
2060	999.1000.S SEISMOGRAPH 01. 7130-08-72	LUMP	LUMP			.

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2070	999.1000.S SEISMOGRAPH 02. 7132-08-72	LUMP	LUMP			.
2080	999.1500.S CRACK AND DAMAGE SURVEY	LUMP	LUMP			.
2090	ASP.1T0A ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	600.000 HRS	5.00000		3000.00	
2100	ASP.1T0G ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	345.000 HRS	5.00000		1725.00	
2110	SPV.0035 SPECIAL 01. SHREDDED HARDWOOD BARK MULCH	10.000 CY	.			.
2120	SPV.0035 SPECIAL 02. SIDEWALK VAULT CLOSURE	5.000 CY	.			.
2130	SPV.0035 SPECIAL 03. CONCRETE MASONRY FOOTING	29.000 CY	.			.
2140	SPV.0060 SPECIAL 01. STORM SEWER EXPLORATION	24.000 EACH	.			.
2150	SPV.0060 SPECIAL 02. METAL BENCH	6.000 EACH	.			.
2160	SPV.0060 SPECIAL 03. TRASH RECEPTACLE	6.000 EACH	.			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SPV.0060 SPECIAL 04.					
2170	TREE GRATE	8.000 EACH		.		.
	SPV.0060 SPECIAL 05.					
2180	SIDEWALK INLET	1.000 EACH		.		.
	SPV.0060 SPECIAL 06.					
2190	DECORATIVE LIGHT UNIT TYPE C	11.000 EACH		.		.
	SPV.0060 SPECIAL 07.					
2200	DECORATIVE LIGHT UNIT TYPE C - FURNISH ONLY	2.000 EACH		.		.
	SPV.0060 SPECIAL 08.					
2210	TRANSFORMER BASES BREAKAWAY 11 1/2- INCH BOLT CIRCLE BLOCK - FURNISH ONLY	2.000 EACH		.		.
	SPV.0060 SPECIAL 09.					
2220	POLES TYPE 5 ALUMINUM BLACK - FURNISH ONLY	2.000 EACH		.		.
	SPV.0060 SPECIAL 10.					
2230	LUMINAIRE ARMS SINGLE MEMBER 4 1/2- INCH CLAMP 6-FOOT BLACK - FURNISH ONLY	2.000 EACH		.		.
	SPV.0060 SPECIAL 11.					
2240	LUMINAIRES UTILITY LED CATEGORY A BLACK - FURNISH ONLY	2.000 EACH		.		.
	SPV.0060 SPECIAL 20.					
2250	CONCRETE CONTROL CABINET BASES TYPE SPECIAL	2.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2260	SPV.0060 SPECIAL 21. LIGHTING CONTROL CABINET	2.000 EACH		.		.
2270	SPV.0060 SPECIAL 22. TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK	24.000 EACH		.		.
2280	SPV.0060 SPECIAL 23. POLES TYPE 5 ALUMINUM BLACK	24.000 EACH		.		.
2290	SPV.0060 SPECIAL 24. LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FOOT BLACK	24.000 EACH		.		.
2300	SPV.0060 SPECIAL 25. LUMINAIRES UTILITY LED CATEGORY A BLACK	24.000 EACH		.		.
2310	SPV.0060 SPECIAL 26. DECORATIVE LIGHT UNIT TYPE B	11.000 EACH		.		.
2320	SPV.0060 SPECIAL 27. DECORATIVE LIGHT UNIT TYPE D	4.000 EACH		.		.
2330	SPV.0060 SPECIAL 31. GATE VALVE AND BOX, 6-INCH	20.000 EACH		.		.
2340	SPV.0060 SPECIAL 32. GATE VALVE AND BOX, 8-INCH	11.000 EACH		.		.
2350	SPV.0060 SPECIAL 33. TEE, 6-INCH X 6-INCH	1.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2360	SPV.0060 SPECIAL 34. TEE, 8-INCH X 6-INCH	16.000 EACH		.		.
2370	SPV.0060 SPECIAL 35. TEE, 8-INCH X 8-INCH	1.000 EACH		.		.
2380	SPV.0060 SPECIAL 36. TEE, 10-INCH X 6-INCH	2.000 EACH		.		.
2390	SPV.0060 SPECIAL 37. TEE, 10-INCH X 8-INCH	1.000 EACH		.		.
2400	SPV.0060 SPECIAL 38. PLUG, 6-INCH	3.000 EACH		.		.
2410	SPV.0060 SPECIAL 39. PLUG, 8-INCH	1.000 EACH		.		.
2420	SPV.0060 SPECIAL 40. REDUCER, 6-INCH X 4-INCH	1.000 EACH		.		.
2430	SPV.0060 SPECIAL 41. REDUCER, 8-INCH X 6-INCH	1.000 EACH		.		.
2440	SPV.0060 SPECIAL 42. CORPORATION, 1-INCH	90.000 EACH		.		.
2450	SPV.0060 SPECIAL 43. CURB STOP & BOX, 1-INCH	90.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2460	SPV.0060 SPECIAL 44. FIRE HYDRANT	16.000 EACH		.		.
2470	SPV.0060 SPECIAL 45. CONNECTING TO EXISTING WATER MAIN, 4-INCH	1.000 EACH		.		.
2480	SPV.0060 SPECIAL 46. CONNECTING TO EXISTING WATER MAIN, 6-INCH	6.000 EACH		.		.
2490	SPV.0060 SPECIAL 47. CONNECTING TO EXISTING WATER MAIN, 8-INCH	6.000 EACH		.		.
2500	SPV.0060 SPECIAL 48. CONNECTING TO EXISTING WATER MAIN, 10-INCH	2.000 EACH		.		.
2510	SPV.0060 SPECIAL 49. ADJUSTING WATER MAIN VALVE	5.000 EACH		.		.
2520	SPV.0060 SPECIAL 50. REMOVING HYDRANT AND LEAD	13.000 EACH		.		.
2530	SPV.0060 SPECIAL 51. REMOVING GATE VALVE	3.000 EACH		.		.
2540	SPV.0060 SPECIAL 52. REMOVING EXISTING CURB STOP & BOX	3.000 EACH		.		.
2550	SPV.0060 SPECIAL 53. REMOVING AND SALVAGING DRINKING FOUNTAIN	1.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2560	SPV.0060 SPECIAL 54. SANITARY MANHOLE, TYPE 1	20.000 EACH		.		.
2570	SPV.0060 SPECIAL 55. SANITARY SEWER WYE, 8-INCH X 4-INCH	30.000 EACH		.		.
2580	SPV.0060 SPECIAL 56. SANITARY SEWER WYE, 8-INCH X 6-INCH	64.000 EACH		.		.
2590	SPV.0060 SPECIAL 57. SANITARY SEWER WYE, 10-INCH X 4-INCH	2.000 EACH		.		.
2600	SPV.0060 SPECIAL 58. SANITARY SEWER WYE, 10-INCH X 6-INCH	4.000 EACH		.		.
2610	SPV.0060 SPECIAL 59. SANITARY SEWER WYE, 10-INCH X 8-INCH	1.000 EACH		.		.
2620	SPV.0060 SPECIAL 60. BEND 8-INCH, 45 DEGREE	7.000 EACH		.		.
2630	SPV.0060 SPECIAL 61. BEND 8-INCH, 90 DEGREE	2.000 EACH		.		.
2640	SPV.0060 SPECIAL 62. CONNECT TO EXISTING SANITARY SEWER	1.000 EACH		.		.
2650	SPV.0060 SPECIAL 63. CONNECT TO EXISTING SANITARY SEWER SERVICE, 4-INCH	32.000 EACH		.		.

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2660	SPV.0060 SPECIAL 64. CONNECT TO EXISTING SANITARY SEWER SERVICE, 6-INCH	68.000 EACH		.		.
2670	SPV.0060 SPECIAL 65. CONNECT TO EXISTING SANITARY MANHOLE	7.000 EACH		.		.
2680	SPV.0060 SPECIAL 66. CONNECT EXISTING SANITARY SEWER TO NEW SANITARY MANHOLE	1.000 EACH		.		.
2690	SPV.0060 SPECIAL 67. CAPPING EXISTING SANITARY SEWER SERVICE, 4-INCH	8.000 EACH		.		.
2700	SPV.0060 SPECIAL 68. CAPPING EXISTING SANITARY SEWER SERVICE, 6-INCH	19.000 EACH		.		.
2710	SPV.0060 SPECIAL 69. REMOVE EXISTING SANITARY MANHOLE	8.000 EACH		.		.
2720	SPV.0060 SPECIAL 70. ABANDON EXISTING SANITARY SEWER	20.000 EACH		.		.
2730	SPV.0060 SPECIAL SPECIAL 71. REMOVE AND SALVAGE LIGHT POST	1.000 EACH		.		.
2740	SPV.0085 SPECIAL 01. BAR STEEL REINFORCEMENT HS COATED RAILING	3,350.000 LB		.		.

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2750	SPV.0090 SPECIAL 01. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT	15,165.000 LF		.		.
2760	SPV.0090 SPECIAL 02. GALVANIZED PIPE RAILING	56.000 LF		.		.
2770	SPV.0090 SPECIAL 03. REVEAL CURB	160.000 LF		.		.
2780	SPV.0090 SPECIAL 04. SIDEWALK SURVEY	1,630.000 LF		.		.
2790	SPV.0090 SPECIAL 05. CULVERT PIPE TEMPORARY 12-INCH SPECIAL	40.000 LF		.		.
2800	SPV.0090 SPECIAL 06. CONCRETE CURB & GUTTER 30-INCH SPECIAL	320.000 LF		.		.
2810	SPV.0090 SPECIAL 07. SPEAKER CABLE AND DUCT	2,450.000 LF		.		.
2820	SPV.0090 SPECIAL 31. WATER SERVICE, 1-INCH	3,305.000 LF		.		.
2830	SPV.0090 SPECIAL 32. WATER MAIN, 6-INCH	483.000 LF		.		.
2840	SPV.0090 SPECIAL 33. WATER MAIN, 8-INCH	4,029.000 LF		.		.

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2850	SPV.0090 SPECIAL 34. SANITARY SERVICE, 4-INCH	1,252.000 LF		.		.
2860	SPV.0090 SPECIAL 35. SANITARY SERVICE, 6-INCH	2,624.000 LF		.		.
2870	SPV.0090 SPECIAL 36. SANITARY SEWER, 8-INCH	3,775.000 LF		.		.
2880	SPV.0090 SPECIAL 37. SANITARY SEWER, 10-INCH	1,354.000 LF		.		.
2890	SPV.0090 SPECIAL 38. SANITARY SEWER, 12-INCH	42.000 LF		.		.
2900	SPV.0105 SPECIAL 01. PROJECT CONCRETE CRACK MITIGATION AND REPAIR SPECIAL	LUMP	LUMP			.
2910	SPV.0105 SPECIAL 02. CONCRETE PAVEMENT JOINT LAYOUT	LUMP	LUMP			.
2920	SPV.0105 SPECIAL 03. RAILING PIPE GALVANIZED R-61-14	LUMP	LUMP			.
2930	SPV.0105 SPECIAL 04. RAILING STEEL TYPE C5 GALVANIZED PEDESTRIAN M-61-001	LUMP	LUMP			.
2940	SPV.0105 SPECIAL 05. RAILING STEEL TYPE C5 GALVANIZED PEDESTRIAN M-61-002	LUMP	LUMP			.

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2950	SPV.0105 SPECIAL 06. AUDIO SYSTEM ENCLOSURE	LUMP	LUMP			.
2960	SPV.0105 SPECIAL 07. STREET LIGHTING DIMMING CONTROL SYSTEM	LUMP	LUMP			.
2970	SPV.0105 SPECIAL 08. ABATEMENT OF ASBESTOS CONTAINING MATERIAL PARCELS 38, 39, AND 84	LUMP	LUMP			.
2980	SPV.0165 SPECIAL 01. CONCRETE SIDEWALK HES 6-INCH	300.000 SF		.		.
2990	SPV.0165 SPECIAL 02. CONCRETE SIDEWALK CURE AND SEAL TREATMENT	86,315.000 SF		.		.
3000	SPV.0165 SPECIAL 03. STAMP AND COLOR CONCRETE SIDEWALK 4-INCH	2,590.000 SF		.		.
3010	SPV.0165 SPECIAL 04. RETAINING WALL CONCRETE STEPS	320.000 SF		.		.
3020	SPV.0165 SPECIAL 05. WALL MODULAR BLOCK MECHANICALLY STABLIZED EARTH LRFD	4,480.000 SF		.		.
3030	SPV.0180 SPECIAL 01. CONCRETE PAVEMENT 9-INCH SPECIAL	37,510.000 SY		.		.
3040	SPV.0180 SPECIAL 02. CONCRETE PAVEMENT HES 9-INCH SPECIAL	300.000 SY		.		.

CONTRACT: 20140211018

PROJECT(S): 7130-08-72, 7132-07-70, 7132-08-72

FEDERAL ID(S): WISC 2014026, WISC 2014027, WISC 2014028

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
3050	SPV.0195 SPECIAL 01. EXCAVATION, HAULING AND DIPOSAL OF PETROLEUM CONTAMINATED SOIL	600.000 TON		.		.
3060	SPV.0195 SPECIAL 02. EXCAVATION, HAULING AND DISPOSAL OF LEAD CONTAMINATED SOIL	125.000 TON		.		.
3070	SPV.0195 SPECIAL 03. ASPHALTIC SURFACE SPECIAL	415.000 TON		.		.
	SECTION 0001 TOTAL					.
	TOTAL BID					.

PLEASE ATTACH SCHEDULE OF ITEMS HERE