

HIGHWAY WORK PROPOSAL

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

Proposal Number:

12

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Waupaca	6250-01-70	WISC 2014 442	C Clintonville, Main Street Pigeon River Bridge B-68-0131	STH 22
Waupaca	6250-01-76	WISC 2014 443	C Clintonville, Main Street 11 th Street to 13 th Street	STH 22
Waupaca	6250-01-77		C Clintonville, Main Street 11 th Street to 13 th Street Local Utility, Sanitary Sewer & Water Main	STH 22

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

Proposal Guaranty Required, \$ 75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: December 9, 2014 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time October 17, 2015	SAMPLE NOT FOR BIDDING PURPOSES
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)

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

(Date Commission Expires)

Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only

Type of Work Bridge replacement, concrete pavement, HMA pavement, curb and gutter, sidewalk, storm sewer, sanitary sewer, water main, aggregate base dense, select crushed material, street lighting, traffic signals, pavement marking and signing.	
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.

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

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

Special Provisions

Table of Contents

Article	Description	Page #
1.	General.....	4
2.	Scope of Work.	4
3.	Prosecution and Progress.	4
4.	Traffic.	9
5.	Holiday Work Restrictions.	9
6.	Utilities.....	9
7.	Municipality Acceptance of Sanitary Sewer and Water Main Construction.....	12
8.	Referenced Construction Specifications.	12
9.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.....	12
10.	Tree Protection.....	13
11.	Environmental Protection, Aquatic Exotic Species Control.....	13
12.	Erosion Control Structures.....	14
13.	Archaeological Monitoring.....	14
14.	Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.	15
15.	Environmental Protection - Dewatering.	16
16.	Construction Over or Adjacent to Navigable Waters.	16
17.	Public Convenience and Safety.	16
18.	Coordination with Businesses and Property Owners.....	17
19.	Property Marks – Protecting and Restoring.....	17
20.	Notice to Contractor – Traffic Signal Equipment Lead Time.	18
21.	Notice to Contractor – Equipment.	18
22.	Traffic Signals, General.	18
23.	Removing Old Structure Over Waterway With Minimal Debris Station 120+71, Item 203.0600.S.01.....	18
24.	Removing Well Casing, Item 204.9060.S.01.	19
25.	Removing Apron Endwalls For Culvert Pipe, Item 204.9060.S.02.....	20
26.	Removing Stairway, Item 204.9105.S.01.....	20
27.	QMP Base Aggregate.	21
28.	Protecting Concrete.....	29
29.	QMP Ride; Incentive IRI Ride, Item 440.4410.S.....	29
30.	Pier Construction.	37
31.	Concrete Staining Multi-Color B-68-131, Item 517.1015.S.01.....	37
32.	Architectural Surface Treatment B-68-131, Item 517.1050.S.01.....	39
33.	Wall Modular Block Gravity, Item 532.0200.S.....	40
34.	Reinforced Concrete Pipe Storm Sewers.....	45
35.	Manholes, Inlets and Catch Basins.	46
36.	Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.01.....	46
37.	Pipe Underdrain.	47
38.	Fence Safety, Item 616.0700.S.	47

39.	Seeding.....	48
40.	Wood and Tubular Steel Sign Post.....	48
41.	Removing Signs Type II.....	48
42.	Field Facilities.....	49
43.	Traffic Control.....	49
44.	Signal Controller Training, Item 651.1000.S.....	50
45.	General Requirements for Electrical Work.....	50
46.	Concrete Control Cabinet Bases Type 9.....	51
47.	Electrical Service Meter Breaker Pedestal STH 22 and 12th Street, Item 656.0200.01.....	51
48.	Electrical Service Meter Breaker Pedestal (LCB 100), Item 656.0200.02.....	51
49.	Pedestrian Signal Face 16-Inch.....	52
50.	Pedestrian Push Buttons.....	52
51.	Traffic Signal Faces.....	52
52.	Fertilizer for Lawn Type Turf, Item SPV.0030.20.....	52
53.	Bolted Lid Manhole Covers Special, Item SPV.0060.01.....	54
54.	Removing Abandoned Sign Post, Item SPV.0060.02.....	54
55.	Posts Steel 2 3/8-Inch Diameter x 14-FT, Item SPV.0060.20.....	55
56.	Remove Existing Lighting Control, Item SPV.0060.21.....	56
57.	Salvage Lighting Unit, Item SPV.0060.22.....	57
58.	Concrete Control Cabinet Base Type Special, Item SPV.0060.23.....	57
59.	Lighting Control Cabinet, Item SPV.0060.24.....	58
60.	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Brown, Item SPV.0060.25.....	59
61.	Poles Type 5-Aluminum Brown, Item SPV.0060.26.....	60
62.	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Brown, Item SPV.0060.27.....	61
63.	Luminaires Utility LED Category C Brown, Item SPV.0060.28.....	62
64.	Decorative Light Unit, Item SPV.0060.29.....	62
65.	Tree Root Cutting and Removal, Item SPV.0060.30.....	65
66.	Roof Drain Cleanout, Item SPV.0060.31.....	66
67.	Abandon Water Service, Item SPV.0060.40.....	67
68.	Remove Hydrant and Branch Piping, Item SPV.0060.41.....	67
69.	Remove Water Valve and Box, Item SPV.0060.42; Remove Water Valve Manhole and Valve, Item SPV.0060.43.....	68
70.	Corporation, Curb Stop and Box, Item SPV.0060.44.....	69
71.	Water Main, 8"x6" Reducer, Item SPV.0060.45; Water Main, 8"x4" Reducer, Item SPV.0060.46; Water Main, 8" 90° Bend, Item SPV.0060.47; Water Main, 4" 90° Bend, Item SPV.0060.48; Water Main, 8" x8" Cross, Item SPV.0060.49; Water Main, 8"x6" Tee, Item SPV.0060.50; Water Main, 8"x8" Tee, Item 0060.51; Water Main, 8" 45° Bend, Item SPV.0060.52; Water Main, 8" 22½° Bend, Item SPV.0060.53; Water Main, 8" Cut-In Sleeve, Item SPV.0060.54; Water Main, 6" Cut-In Sleeve, Item SPV.0060.55.....	69
72.	Water Main Connection , Item SPV.0060.56.....	71
73.	Adjust Water Valve Box, Item SPV.0060.57.....	71

74.	8" Valve and Valve Box, Item SPV.0060.58; 6" Valve and Valve Box, Item SPV.0060.59.	72
75.	Hydrant, Item SPV.0060.60.	73
76.	Flushing Hydrant, Item SPV.0060.61.	74
77.	Remove Sanitary Manhole, Item SPV.0060.62.	75
78.	Sanitary Connection, Item SPV.0060.63.	76
79.	Abandon Sanitary Lateral, Item SPV.0060.64.	76
80.	Remove Clean Out, Item SPV.0060.65.	77
81.	Adjust Sanitary Manhole, Item SPV.0060.66.	78
82.	Sanitary Manhole, 4-Ft Diameter, W/Eccentric Top, Item SPV.0060.67.	78
83.	Chimney Seal, Item SPV.0060.68.	79
84.	WYE, PVC, 8" x 6", Item SPV.0060.69.	80
85.	Clean-Out, PVC, 6-Inch, Item SPV.0060.70.	80
86.	Concrete Curb and Gutter 24-Inch Type D, Item SPV.0090.01.	81
87.	Storm Sewer Pipe PVC 6-Inch, Item SPV.0090.20; 8-Inch, Item SPV.0090.21; 10-Inch, Item SPV.0090.22.	82
88.	Abandon Water Main, Item SPV.0090.71.	83
89.	Remove Water Main, Item SPV.0090.72; Remove Water Service, Item SPV.0090.73.	83
90.	Remove Existing River Water Main, Item SPV.0090.74.	84
91.	Water Main, 4-Inch, Item SPV.0090.75; Water Main, 6-Inch, Item SPV.0090.76; Water Main, 8-Inch, Item SPV.0090.77.	85
92.	Water Main Staking, Item SPV.0090.78.	86
93.	Water Service, HDPE, 1", Item SPV.0090.79.	87
94.	Abandon Existing Sanitary, Item SPV.0090.80.	88
95.	Remove Sanitary Sewer, Item SPV.0090.81; Remove Sanitary Lateral, Item SPV.0090.82.	88
96.	Sanitary Lateral, PVC, 6-Inch, Item SPV.0090.83.	89
97.	Sanitary Sewer, 8-Inch, Item SPV.0090.84; Sanitary Sewer, 10-Inch, Item SPV.0090.85; Sanitary Sewer, 12-Inch, Item SPV.0090.86.	90
98.	Sanitary Sewer Staking, Item SPV.0090.87.	91
99.	Scour Protection, Item SPV.0105.01.	92
100.	Railing Steel Type C5 Galvanized B-68-131, Item SPV.0105.02.	96
101.	Remove and Salvage Traffic Signals STH 22 and 12th Street, Item SPV.0105.20.	99
102.	Traffic Signal Control Cabinet and Controller STH 22 and 12th Street, Item SPV.0105.21.	101
103.	Research and Locate Existing Property Monuments Project 6250-01-70, Item SPV.0105.22; Project 6250-01-76, Item SPV.0105.23.	112
104.	Verify and Replace Existing Property Monuments Project 6250-01-70, Item SPV.0105.24; Project 6250-01-76, Item SPV.0105.25.	113
105.	Water for Seeded Areas, Item SPV.0120.20.	114
106.	Concrete Sidewalk HES 4-Inch, Item SPV.0165.20.	115
107.	Geogrid Reinforcement, Item SPV.0180.01.	116
108.	Preparing Topsoil for Lawn Type Turf, Item SPV.0180.20.	118
109.	Concrete Driveway Variable Depth, Item SPV.0180.21.	119
110.	Hauling and Disposal of Dredged Material, Item SPV.0195.01.	120

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 6250-01-70, C Clintonville, Main Street, Pigeon River Bridge B-68-0131, STH 22; Project 6250-01-76, C Clintonville, Main Street, 11th Street to 13th Street, STH 22; Project 6250-01-77, C Clintonville, Main Street, 11th Street to 13th Street, Local Utility, STH 22, Waupaca County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2015 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.
100-005 (20140630)

2. Scope of Work.

The work under this contract shall consist of bridge replacement, concrete pavement, HMA pavement, curb and gutter, sidewalk, storm sewer, sanitary sewer, water main, aggregate base dense, select crushed material, street lighting, traffic signals, pavement marking, signing 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.

Contract time will be charged commencing ten days after the notice to proceed has been issued by the engineer or when work begins, whichever is sooner. Work shall not begin prior to June 1, 2015.

Submit a satisfactory preliminary linear schedule to the engineer 14 days prior to the preconstruction conference. A final linear schedule shall be submitted to the engineer within 14 days following the preconstruction conference. The linear schedule shall show beginning and completion dates for all prime contractor and subcontractor work operations for all Stages of the project. The linear schedule shall have a beginning date no earlier than June 1, 2015 and a completion date of October 17, 2015 or sooner. A bar graph for non-linear controlling items of the project shall be included (Note: WisDOT form DT1997, Progress Schedule, is suggested and will be provided upon request for this purpose). Monitoring and revisions of the linear schedule will be discussed as needed

between the engineer and contractor. If an updated linear schedule is requested by the engineer due to change in contractor's operation or due to delays, the revised linear schedule shall be submitted within 7 days and shall reflect actual production up to the date of the revised linear schedule. If the contractor is delinquent on submitting linear schedules, the engineer will hold pay estimates until a revised linear schedule is received.

Included in the plans, for informational purposes only, is a linear schedule that was developed by the design engineer. It indicates one possible scenario by which the contract work could be completed within the time frame and possible work restrictions. This scenario indicates that work efforts on probable workdays (which exclude adverse weather days, weekends, and holiday restrictions per the department's Facility Development Manual) will possibly require multiple or concurrent controlling operations to occur at the same time. This information is included to only assist the contract and its subcontractors and shall not be interpreted as a demonstration of specified means and methods or work periods other than the completion date. The contractor is required to develop its own linear schedule as specified in the previous paragraph, to establish the controlling items of work due to the contractor's material production and work efforts to complete all work required by the contract by October 17, 2015. The contractor's linear schedule shall be used to evaluate the progress of material production and work efforts during schedule and progress discussions with the engineer.

There are several business properties along STH 22 within the limits of the project that have building entrances directly onto STH 22. In order to minimize disruptions to the businesses and to provide pedestrian access to the buildings during construction, the existing sidewalks immediately adjacent to the entrances shall be left in place as long as practicable. When the sidewalk panels immediately in front of the building entrances need to be replaced the sidewalk panels shall be replaced according to the following schedule:

Entrance Location	Business Name	Replacement Schedule	Type of Concrete	Open to Pedestrian Traffic
119+85 RT	Flowers and Things	Monday through Thursday after 6:00 PM	HES	Within 12 hours
120+13 RT	Riverside Cafe	Coordinate w/ Building Owner	HES	Within 12 hours
121+25 RT	NAPA Store	Coordinate w/ Building Owner	HES	Within 12 hours
121+48 LT	Unknown	Coordinate w/ Building Owner	HES	Within 12 hours
123+24 RT	D.E.N. Services Inc.	Fridays after 12:00 PM	Standard	Within 24 hours
123+44 RT	Just One More	Anytime on Mondays	HES	Within 12 hours
123+66 RT	Clintonville Ambulance Office	Anytime on Fridays	Standard	Within 24 hours
123+80 RT	Chamber of Commerce	Anytime on Fridays	Standard	Within 24 hours
124+85 RT	US Post Office (Steps)	Alternating basis with ramp*	Standard	Within 24 hours
125+13 RT	US Post Office (Handicap Ramp)	Alternating basis with steps*	Standard	Within 24 hours
125+66 RT	Ultracom Wireless	Any week day after 6:00 PM	HES	Within 12 hours
125+81 RT	Clintonville Chronicle	Any week day after 5:00 PM	HES	Within 12 hours

*The sidewalk panels in front of the US Post Office steps and handicap ramp shall not be replaced at the same time and shall be replaced on an alternating open/close basis.

Sidewalks or driveways in front of any businesses or residential properties not listed in the table above do not have replacement schedule restrictions and shall be replaced with standard concrete, or as directed by the engineer. If the contractor coordinates the closure of any access to a business or private property with the owner(s) that is different than what is listed in the table above, provide written documentation of the coordination with the owner(s) that is signed by the owner(s) to the engineer.

Maintain pedestrian access to businesses at all times except when replacing the sidewalks in front of the businesses and driveways. Once the sidewalks immediately adjacent to the business's entrances have been removed new concrete sidewalks shall be reopened to pedestrian traffic within 24 hours if standard concrete is used and within 12 hours if HES concrete is used. Temporary sidewalk access shall be in accordance to the "Temporary Sidewalk Access" detail shown in the plans or as directed by the engineer.

The driveways at Station 125+94.5 (STH 22) and Station 126+87.0 (STH 22) that serve the Landmark Motel property shall be constructed on an open/close basis so at least one of these two driveways is open at all times during construction. The temporary access through the construction zone shall originate from either 12th Street or 13th Street and shall be in accordance to the “Temporary Vehicle Access” shown in the plans or as directed by the engineer. The temporary access shall be maintained to be free from ruts as necessary while in place.

The driveways at Station 204+04.1 (12th Street) and Station 125+56.9 (STH 22) that serve the Fox Communities Credit Union property shall be constructed on an open/close basis so at least one of these two driveways is open at all times during construction. The temporary access through the construction zone shall originate from either 12th Street or 13th Street and shall be in accordance to the “Temporary Vehicle Access” shown in the plans or as directed by the engineer. The temporary access shall be maintained to be free from ruts as necessary while in place.

Maintain vehicle access to residential properties at all times except when replacing the driveways. Once the driveways have been removed new concrete aprons and sidewalks shall be reopened to traffic within five days.

Notify residents and businesses two business days in advance of closing their entrances into the buildings and driveways.

After the STH 22 existing sidewalks have been removed and before the new sidewalks have been placed, provide a temporary sidewalk surface approved by the engineer that provides access to the businesses located immediately behind the sidewalks within the project limits.

Provide a temporary sidewalk surface approved by the engineer across STH 22 on the north side of 12th Street to allow pedestrians to cross the construction zone and access the US Post Office located in the north east corner of the intersection. The temporary sidewalk surface shall be moved as needed to allow construction operations to proceed through the intersection.

The temporary sidewalk surface material shall be a minimum width of 4 feet, consist of a hard surface that is skid resistant, and is in accordance to the Americans with Disabilities Act (ADA) Accessibility Guidelines (ADAAG). The use of temporary gravel will not be permitted. The temporary sidewalk surface shall be maintained at all times to stay within the ADAAG and shall be kept free from mud, sand, and construction debris. The furnishing and maintaining of the temporary sidewalk surface shall be incidental to other items in this construction contract. Provide the details on what type of temporary sidewalk surface to be used to the engineer at the Pre-Construction meeting.

The City of Clintonville will remove the shrubs and decorative fence along the river bank near Station 120+58 Left to allow reconstruction of the bridge and to rehabilitate the fence. Provide a 7 day notice to the City Public Works Manager to facilitate the removal. The city will install safety fence along the riverbank where the decorative fence is removed. Provide safety fence for the bridge reconstruction out to the TLE limit and secure to city installed safety fence. Relocate or roll up city safety fence as needed to install safety fence for the bridge reconstruction. After completion of the bridge structure notify the city ten days prior to removing the project safety fence. Coordinate with the city and reinstall the city's safety fence. The city will remove remaining safety fence when the decorative fence is reinstalled.

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

Do not store equipment, vehicles, or materials within the temporary limited easement or private parking lots of any business parking or driving area without the written approval of the engineer.

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.

Mussels

Mussels are present under the existing bridge. The Wisconsin Department of Natural Resources will inspect and relocate any mussels within the work area of the bridge. The Wisconsin Department of Transportation project manager will notify the Wisconsin Department of Natural Resources 10 days prior to the start of construction.

Stream Bed

No equipment may be operated on the bed of the waterway. Any in-stream work shall take place between July 1, 2015 and March 1, 2016.

4. Traffic.

Close STH 22 to traffic from 10th Street to 11th Street and to through traffic from 11th Street to 13th Street during construction operations under this contract. The side streets of 11th Street, 12th Street, and 13th Street shall also be closed to through traffic in accordance to the plans during construction operations under this contract. The side street of 10th Street shall remain open to traffic at all times. Prior to closing STH 22 improvements to the detour route shall be completed and signed as shown in the plans. Sign and maintain the detour route to follow 7th Street to Lyon Street to E. 12th Street to SSGT Warren Hansen Drive to STH 156 and back to STH 22 in accordance to the plans.

The improvements to the detour route as shown in the plans, including the widening to the Lyon Street and E. 12th Street intersection and the E. 12th Street and SSGT Warren Hansen Drive intersection; pavement marking along 7th Street, Lyon Street, E. 12th Street, and SSGT Warren Hansen Drive; and signing shall be completed while 7th Street, Lyon Street, E. 12th Street and SSGT Warren Hansen Drive remain open to at least one lane of traffic at all times. Conduct operations such that these detour route streets are open to two lanes of traffic during nighttime hours. Whenever one lane of traffic is provided along the detour route streets, flagging operations shall be in place and follow SDD Traffic Control For Lane Closure (Suitable for Moving Operations).

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 22 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 22, 2015 to 6:00 AM Tuesday, May 26, 2015 for Labor Day;
- From noon Friday, July 3, 2015 to 6:00 AM Monday, July 6, 2015 for Independence Day;
- From noon Friday, September 4, 2015 to 6:00 AM Tuesday, September 8, 2015 for Labor Day.

107-005 (20050502)

6. Utilities.

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

Project #6250-01-70

Clintonville Water and Electric Utility (Electric) owns the existing street lighting and traffic signals. Provide Clintonville Utilities at least two working days advanced notice to disconnect the power to the existing street lights and traffic signals.

Clintonville Water and Electric Utility will install electric service to traffic signal and street lighting control cabinets. Provide at least three working days advanced notice to install conduit to the traffic signal and street lighting control cabinets after the sidewalks and pavement have been removed and at least three working days advanced notice to provide electric service to the new cabinets. Clintonville Water and Electric Utility anticipates needing 3 working days to run conduit to the new cabinets.

Electric relocations and adjustments will be part of Project 6250-01-76.

Clintonville Water and Electric Utility (Sewer) has facilities that will be adjusted according to the plans and additional articles in these special provisions.

Clintonville Water and Electric Utility (Water) has facilities that will be adjusted according to the plans and additional articles in these special provisions.

We Energies (Gas) has existing gas facilities along the right side of the STH 22 from south of construction limits to near 120+00 and from near 122+15 to north of construction limits.

Prior to construction We Energies plans to discontinue their facilities along STH 22 in place from near 122+14 to north of project limits.

We Energies has existing gas facilities crossing STH 22 near 119+35. No conflicts are anticipated.

We Energies has existing gas facilities along the left side of 11th Street from near 10+25 to east of construction limits.

Prior to construction We Energies plans to discontinue their facilities along 11th Street from near 10+25 to east of construction limits.

Contact We Energies before removing any gas facilities to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from We Energies. Call the We Energies 24 hour dispatch lines to arrange for this verification (We Energies Gas Dispatch: (800-261-5325)).

Remove and dispose all sections of the discontinued facility necessary to complete construction activities. The removal and disposal of any sections of the discontinued facility are incidental to other items in the contract.

Project #6250-01-76

Charter Communications has overhead facilities within the project area that are attached to the City of Clintonville electric power poles described elsewhere in this special provision. No conflicts are anticipated.

Clintonville Water and Electric Utility (Electric) has overhead facilities along the right side of 12th Street. No conflicts are anticipated.

Clintonville Water and Electric Utility owns the existing street lighting and traffic signals. Provide Clintonville Utilities at least two working days advanced notice to disconnect the power to the existing street lights and traffic signals.

Clintonville Water and Electric Utility will install electric service to traffic signal and street lighting control cabinets. Provide at least three working days advanced notice to install conduit to the traffic signal and street lighting control cabinets after the sidewalks and pavement have been removed and at least three working days advanced notice to provide electric service to the new cabinets. Clintonville Water and Electric Utility anticipates needing three working days to run conduit to the new cabinets.

Clintonville Water and Electric Utility (Sewer) has facilities that will be adjusted according to the plans and additional articles in these special provisions.

Clintonville Water and Electric Utility (Water) has facilities that will be adjusted according to the plans and additional articles in these special provisions.

Frontier Communications has underground facilities that run along the right side of 12th Street behind the curb and gutter and crosses STH 22 near 124+00. An existing underground telephone cable runs along the right side of 12th Street from near 204+17 to the left side of STH 22 near 123+00. These facilities will be discontinued in place.

Frontier Communications will relocate their existing facilities that run under the right side of 12th Street further right. This relocation work will be completed concurrently with construction operations under this contract. Contact Frontier in accordance to Trans 220.05(10) after the street is closed and sidewalk is removed to have these facilities relocated. Frontier anticipates that it will take 10 working days to relocate their facilities.

We Energies (Gas) has existing underground facilities located along the right side of STH 22 from 11th Street to near 124+45 where it crosses to the left side of STH 22. The facility then runs along the left side of STH 22 to 13th Street.

Prior to construction We Energies plans to discontinue in place their facilities along STH 22 from near 122+67 RT to near 130+39 LT.

We Energies has existing facilities along the left side 12th Street and the right side of 13th Street.

Prior to construction We Energies plans to discontinue in place their facilities along the left side of 12th Street.

Prior to construction We Energies plans to install new facilities along STH 22 from near 122+90 RT to a crossing of STH 22 near 124+50. From there the facility will continue along the left side of STH 22 to near 130+75. No conflicts are anticipated.

Prior to construction We Energies plans to install new facilities along the left side of 12th Street throughout construction limits. This facility will cross STH 22 near 124+50. No conflicts are anticipated.

Contact We Energies before removing any gas facilities to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from We Energies. Call the We Energies 24 hour dispatch lines to arrange for this verification (We Energies Gas Dispatch: (800) 261-5325).

Remove and dispose all sections of the discontinued facility necessary to complete construction activities. The removal and disposal of any sections of the discontinued facility are incidental to other items in the contract.

Project #6250-01-77

All utilities located on or near this project are being coordinated under project 6250-01-76. There are no other conflicts with utilities for the project.

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

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

8. Referenced Construction Specifications.

Construct the sanitary sewer and water main work conforming to the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008.” If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

9. 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 Mark Steidl at (715) 421-8043. Methods of operations, including preparatory work, staging, site clean-up or storing materials, causing impacts to other wetlands or waters are not permitted.

If the contractor chooses a method of construction that is not covered by the department's 404 Permit, obtain the proper additional permits required from the US Army Corps of Engineers. It is the contractor's responsibility to determine if additional permits are required. Obtain the additional permits prior to beginning construction operations requiring the permits. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the additional permits. The contractor must be aware that the US Army Corps of Engineers may not grant the additional permits.
(NCR 107.07-10052011)

10. Tree Protection.

The contractor is advised that tree preservation is of great importance on the project. A safety fence shall be placed around all trees designated to remain in order to help protect the tree from damage.

Care shall be taken not to damage tree trunks and branches. Any trees not designated for removal that are determined by the engineer to be excessively damaged by the contractor's operations shall be replaced. The engineer will provide the tree replacement requirements, including type of tree, size, and planting requirements. No compensation will be made to the contractor for replacing any trees damaged by his operations.

To protect the immediate portion of tree root zones, no construction equipment or sand, concrete, or any other materials shall be parked, placed, or stored on the surface of any unpaved areas within the driplines (outermost reach of branches) of the trees. No chemicals, rinsates, or petroleum products shall be deposited within the driplines of the trees.

11. Environmental Protection, Aquatic Exotic Species Control.

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels prior to being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection_protocols.pdf for disinfection:

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

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

107-055 (20130615)

12. Erosion Control Structures.

Prior to 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 backwall of the abutment. Within said limits, place these devices to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as 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. Archaeological Monitoring.

Notify WisDOT Cultural Resources (Lynn Cloud/James Becker) at (608) 266-0099 or (608) 261-0137 at least ten business days in advance of project activities, to make arrangements for an archaeologist to be present to monitor construction activities that disturb

the ground, including but not limited to activities below subgrade, behind the existing abutments, or to prepare a staging area at the existing bridge. The project area cannot be used for borrow or waste activities.

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

John Roelke, License Number AII-119523, inspected Structure B-68-036 for asbestos on August 26, 2009. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Janet Smith, WisDOT NC Region, (715) 421-8089.

In accordance to 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 ten working days prior to beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Janet Smith, WisDOT NC Region, (715) 421-8089 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI, 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Structure B-68-036, STH 22 – Main Street over Pigeon River
- Site Address: 0.2M N JCT USH 45 TO N
- Ownership Information: City of Clintonville, 50 10th Street, Clintonville, WI 54929
- Contact: Mark Steidl
- Phone: (715) 421-8043
- Age: 101 years old. This structure was constructed in 1913.
- Area: 4009 SF of deck

Insert the following paragraph in Section 6.g.:

- If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response 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)

15. Environmental Protection - Dewatering.

Add the following to standard spec 107.18:

If dewatering is required, treat the water to remove suspended solids before allowing it to enter any waterway or wetland. Provide a settling basin, or other suitable means approved by the engineer, with sufficient capacity and size to provide an efficient means to filter the water from the dewatering operation before it is discharged back into the wetland or waterway as provided in the standard specifications and these special provisions. Treatment practices may include the use of natural polyacrylamide such as chitosan, as approved by the engineer.

Conform to dewatering guidelines of WisDNR Storm Water Construction Technical Standards, Code #1061, "Dewatering". This document can be found at the WisDNR website: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

Include the cost of all work and materials associated with water treatment and/or dewatering in the unit bid price for Excavation for Structures Bridges (Structure), Storm Sewer Pipe, Manholes, Sanitary Sewer, and Water Main items. Work includes furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material, removal of the basin after completion of dewatering operations.

16. Construction Over or Adjacent to Navigable Waters.

Supplement standard spec 107.19 with the following:

The Pigeon River is classified as a navigable waterway.
107-060 (20040415)

17. Public Convenience and Safety.

Replace standard spec 107.8 (4) with the following:

Notify the following organizations and departments at least two business days before road closures, lane closures or detours are put into effect:

Waupaca County Sheriff's Department
Wisconsin State Patrol
City of Clintonville
Clintonville School District
Clintonville Post Office

The Waupaca County Sheriff's Department 911 dispatches all area police, fire and ambulance services, and will relay any notification given by the contractor.
(NCR 107.05-10012012)

Replace standard spec 107.8 (5) with the following:

If excavating adjacent to buildings or walls, or performing work in the vicinity of structures that may be damaged as a result of ground vibrations due to the work, give the property owners sufficient written notice of the impending work. The contractor and the contractor's surety shall hold the state and the municipality in which the work is done harmless from damage to the structures.

Structure surveys and seismograph documentation will be conducted at the contractor's discretion and is considered incidental to the work being performed.

18. Coordination with Businesses and Property Owners.

Coordinate and participate with the project engineer in weekly public meetings. The first meeting will be conducted a minimum of two weeks prior to the start of work under this contract. The audience of the first weekly meeting is intended to be local officials, business owners, and property owners affected by the construction project. The audience of all remaining subsequent weekly meetings is intended to be local officials and business owners affected by the construction project. Discuss the following at the meetings: schedule of operations, progress of the project, access for businesses and property owners during construction, and any issues associated with vehicular and pedestrian access during construction operations. Arrange for a suitable location for the meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings and serve as the lead during the meetings.

(NCR 108.01-05312011)

19. Property Marks – Protecting and Restoring.

Replace standard spec 107.11.3 (1) with the following:

Protect and carefully preserve all known property and survey marks, land monuments, and right-of-way monuments and marker posts. Notify the engineer of the nature and location of these monuments and markers. Do not disturb or destroy monuments or markers until the engineer has arranged for their referencing or perpetuation.

Reset or replace, to the required standard, any property and survey marks, land monuments, and right-of-way monuments and marker posts that fall outside the construction limits that are shifted, lost or damaged by the contractor during construction operations, as determined by the engineer. If the contractor fails to restore the disturbed monuments or markers within a reasonable time, the department may, upon 48 hours written notice, restore the disturbed monuments or markers. The department will deduct restoration costs from payments due the contractor under the contract.

(NCR 107.09-05312011)

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

Lead time for traffic signal equipment specified for this project has been ranging from 12 weeks to 18 weeks. Order equipment as soon as possible to assure the equipment is procured in a timely fashion and, therefore, installed, inspected, and ready for turn-on at the required date.

21. Notice to Contractor – Equipment.

Notify Justin Hetland, Bureau of Aeronautics, at least 60 days prior to the start of construction at (608)267-5018 if any construction equipment exceeds 80 feet above ground level.

22. Traffic Signals, General.

All work shall be in accordance to the plans and the standard specifications and these special provisions.

City of Clintonville Owned Traffic Signals

Work under this item shall consist of furnishing and installing all materials included in the plans for the City of Clintonville owned traffic signals at the intersections of STH 22 and 12th Street in the City of Clintonville, WI. The installation includes the construction of underground and above ground equipment.

Obtain any necessary electrical permits prior to beginning the work. Pay for any fines, penalties, damage done to property, etc. billed by the City of Clintonville. Stake the proposed locations of traffic signal items and notify the City of Clintonville Public Works Department at (715) 823-7685 at least 10 days prior to starting work so that the locations of the proposed facilities can be approved by the City of Clintonville. Any field changes regarding the location of the signal poles, pull boxes, etc. shall be approved by the City of Clintonville.

23. Removing Old Structure Over Waterway With Minimal Debris Station 120+71, 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-68-036 over the Pigeon River 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 120+71	LS
203-020 (20080902)		

24. Removing Well Casing, Item 204.9060.S.01.

A Description

This special provision describes removing existing monitoring well casings in accordance to the pertinent provisions of standard spec 204 and as hereinafter provided.

The monitoring wells are part of an abandoned soil vapor extraction system crossing STH 22 in the area from Station 122+00 to 123+00.

B (Vacant)

C Construction

The monitoring wells to be removed have been abandoned. Remove the well casings as outlined in standard spec 204.3.3. Wells that conflict with the new water main shall be removed to a depth at least 2 feet below the bottom of the water main pipe.

D Measurement

The department will measure Removing Well Casings by the individual well casing, acceptably removed.

E Payment

Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Well Casing	Each

Payment is full compensation for cutting off the existing well casing, removing and properly disposing of the cut off portion and backfilling.
204-025 (20041005)

25. Removing Apron Endwalls For Culvert Pipe, Item 204.9060.S.02.**A Description**

This special provision describes removing apron endwalls for culvert pipe 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 Apron Endwalls For Culvert Pipe as each unit, acceptably removed.

E Payment

Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.02	Removing Apron Endwalls For Culvert Pipe	Each
204-025 (20041005)		

26. Removing Stairway, Item 204.9105.S.01.**A Description**

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

B (Vacant)**C Construction**

Remove the metal steps and landing extending from the sidewalk to a lower level door in the current NAPA building at 19 S. Main Street. The steps and landing are located at approximately Station 120+85, 35' - 55' RT. Notify the building owner ten days prior to removing the steps and landing. The building owner has agreed to permanently close the doorway opening. The metal members of the steps and landing shall be cut off as close as possible to the face of the building or foundation to remove the framing. The remaining portions of the framing shall be ground flush with the building or foundation face. A

waterproof sealant or caulk acceptable to the engineer and of a color matching as close as possible to the color of the surrounding material, shall be applied to prevent infiltration of water into the building.

D Measurement

The department will measure Removing Stairway as a single complete lump sum unit of work, acceptably completed.

E Payment

Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
204.9105.S.01	Removing Stairway	LS

Payment for removing stairway is full compensation for breaking down, removing and disposing stairway materials; closing, plugging, caulking, or sealing resulting holes and voids; and for repairing any damage to the building resulting from removal.

204-025 (20041005)

27. QMP Base Aggregate.

A Description

A.1 General

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

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

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

A.2 Contractor Testing for Small Quantities

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a plan quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.
- (2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:

1. The contractor need not submit a full quality control plan but shall provide an organizational chart to the engineer including names, telephone numbers, and current certifications of all persons involved in the quality control program for material under affected bid items.
2. Divide the aggregate into uniformly sized sublots for testing as follows:

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

^[1] If using production tests for acceptance, submit test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.

^[2] For 3-inch material, obtain samples at load-out.

^[3] If the actual quantity overruns 9000 tons, create overrun sublots to test at a rate of one additional placement test for each 3000 tons, or fraction of 3000 tons, of overrun.

3. No control charts are required. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
 4. Department verification testing is optional for quantities of 6000 tons or less.
- (3) Material represented by a subplot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

B Materials

B.1 Quality Control Plan

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

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

B.2 Personnel

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

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

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

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

B.3 Laboratory

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

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

B.4 Quality Control Documentation

B.4.1 General

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

B.4.2 Records

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

B.4.3 Control Charts

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

B.5 Contractor Testing

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

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

- (3) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (4) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.
- (5) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (6) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

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

B.6.2 Fracture

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

B.6.3 Liquid Limit and Plasticity

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

B.7 Corrective Action

B.7.1 General

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

B.7.2 Placement Corrective Action

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When two 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 four 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 four 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 two 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)

28. Protecting Concrete.

Add the following to standard spec 415.3.14:

Provide a minimum of one concrete finisher to remain on the project site after final finishing of all concrete surfaces until such time as the concrete has hardened sufficiently to resist surface scarring caused by footprints, handprints, or any other type of imprint, malicious or otherwise. The finisher shall actively and continuously patrol on foot the newly placed concrete, and repair any damage to the surface that might be sustained as described above.

The cost for providing the finisher(s), the necessary equipment, and materials shall be considered incidental to the contract unit price for each concrete item.

(NCR 415.01-10052011)

29. QMP Ride; Incentive IRI Ride, Item 440.4410.S.

A Description

- (1) This special provision describes profiling pavements with a non-contact profiler, locating areas of localized roughness, and determining the International Roughness Index (IRI) for each wheel path segment.
- (2) Profile the final riding surface of all mainline pavements. Include auxiliary lanes in Category I and II segments; crossroads with county, state or U.S. highway designations greater than 1500 feet in continuous length; bridges, bridge approaches; and railroad crossings. Exclude roundabouts and pavements within 150 feet of the points of curvature of roundabout intersections.
- (3) The engineer may direct straightedging under standard spec 415.3.10 for pavement excluded from localized roughness under C.5.2 (1); for bridges; and for roundabouts and pavements within 150 feet of the points of curvature of roundabout intersections.

Other surfaces being tested under this provision are exempt from straightedging requirements.

B (Vacant)

C Construction

C.1 Quality Control Plan

- (1) Submit a written quality control plan to the engineer at or before the pre-pave meeting. 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 all quality control personnel.
 2. The process by which quality control information and corrective action efforts will be disseminated to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
 3. The methods and timing used for monitoring and/or testing ride quality throughout the paving process. Also indicate the approximate timing of acceptance testing in relation to the paving operations.
 4. The segment locations of each profile run used for acceptance testing.
 5. Traffic Control Plan

C.2 Personnel

- (1) Have a profiler operator, certified under the department's highway technician certification program (HTCP), operate the equipment, collect the required data, and analyze the results using the methods taught in the HTCP profiling course. Ensure that an HTCP-certified profiler operator supervises data entry into the material records system (MRS).

C.3 Equipment

- (1) Furnish a profile-measuring device capable of measuring IRI from the list of department-approved devices published on the department's web site:
<http://roadwaystandards.dot.wi.gov/standards/qmp/index.htm>
- (2) Unless the engineer and contractor mutually agree otherwise, arrange to have a calibrated profiler available when paving the final riding surface.
- (3) Perform daily calibration verification of the profiler using test methods according to the manufacturer's recommendations. Notify the engineer before performing the calibration verification. If the engineer requests, arrange to have the engineer observe the calibration verification and operation. Maintain records of the calibration verification activities, and provide the records to the engineer upon request.

C.4 Testing

C.4.1 Run and Reduction Parameters

- (1) Enter the equipment-specific department-approved filter settings and parameters given in the approved profilers list on the department's QMP ride web site.
<http://roadwaystandards.dot.wi.gov/standards/qmp/profilers.pdf>

C.4.2 Contractor Testing

- (1) Operate profilers within the manufacturer's recommended speed tolerances. Perform all profile runs in the direction of travel. Measure the longitudinal profile of each wheel track of each lane. The wheel tracks are 6.0 feet apart and centered in the traveled way of the lane.
- (2) Coordinate with the engineer to schedule profile runs for acceptance. The department may require testing to accommodate staged construction or if corrective action may be required.
- (3) Measure the profiles of each standard or partial segment. Define primary segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Field-locate the beginning and ending points for each profile run. When applicable, align segment limits with the subplot limits used for testing under the QMP Concrete Pavement specification. Define segments one wheel path wide and distinguished by length as follows:
 1. Standard segments are 500 feet long.
 2. Partial segments are less than 500 feet long.
- (4) Treat partial segments as independent segments.

The department will categorize each standard or partial segment as follows:

Segments with a Posted Speed Limit of 55 MPH or Greater	
Category	Description
HMA I	Asphalt pavement with multiple opportunities to achieve a smooth ride. The following operations performed under this contract are considered as opportunities: a layer of HMA, a leveling or wedging layer of HMA, and diamond grinding or partial depth milling of the underlying pavement surface.
HMA II	Asphalt pavement with a single opportunity to achieve a smooth ride.
HMA III	Asphalt pavement segments containing any portion of a bridge, bridge approach, railroad crossing, or intersection. An intersection is defined as the area within the points of curvature of the intersection radii.
PCC II	Concrete pavement.
PCC III	Concrete pavement segments containing any portion of a bridge, bridge approach, railroad crossing, intersection or gap. An intersection is defined as the area within the points of curvature of the intersection radii.

Segments with Any Portion Having a Posted Speed Limit Less Than 55 MPH	
Category	Description
HMA IV	Asphalt pavement including intersections, bridges, approaches, and railroad crossings.
PCC IV	Concrete pavement including gaps, intersections, bridges, approaches, and railroad crossings.

C.4.3 Verification Testing

- (1) The department may conduct verification testing (QV) to validate the quality of the product. A HTCP certified profiler operator will perform the QV testing. The department will provide the contractor with a listing of the names and telephone numbers of all verification personnel for the project.
- (2) The department will notify the contractor before testing so the contractor can observe the QV testing. Verification testing will be performed independent of the contractor's QC work using separate equipment from the contractor's QC tests. The department will provide test results to the contractor within 1 business day after the department completes the testing.
- (3) The engineer and contractor will jointly investigate any testing discrepancies. The investigation may include additional testing as well as review and observation of both the department's and contractor's testing procedures and equipment. Both parties will document all investigative work.
- (4) If the contractor does not respond to an engineer request to resolve a testing discrepancy, the engineer may suspend production until action is taken. Resolve disputes as specified in C.6.

C.4.4 Documenting Profile Runs

- (1) Compute the IRI for each segment and analyze areas of localized roughness using the ProVAL software. Also, the contractor shall prepare the ProVAL Ride Quality Module Reports, showing the IRI for each segment and the areas of localized roughness exceeding an IRI of 200 in/mile. Use ride quality module report as follows:

	<u>Fixed Interval</u>	<u>Continuous (Localized Roughness)</u>
Base-length	500'	25'
Threshold	140"/Mile	200"/Mile

The ProVAL software is available for download at:

<http://www.roadprofile.com>

- (2) As part of the profiler software outputs and ProVAL reports, document the areas of localized roughness. Field-locate the areas of localized roughness prior to the engineer's assessment for corrective actions. Document the reasons for areas excluded and submit to the engineer.

- (3) Within 5 business days after completing profiling of the pavement covered under this special provision, unless the engineer and contractor mutually agree to a different timeline, submit the electronic ProVAL project file containing the .ppf files for each profiler acceptance run data and Ride Quality Module Reports, in .pdf format using the department's Materials Reporting System (MRS) software available on the department's web site:

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

Notify the engineer when the Profiler Acceptance Run data and the Ride Quality Report have been submitted to the MRS system.

C.5 Corrective Actions

C.5.1 General

- (1) Analyze the data from the PROVAL reports and make corrective action recommendations to the department. The department will independently assess whether a repair will help or hurt the long-term pavement performance before deciding on corrective action. Correct the ride as the engineer directs in writing.

C.5.2 Corrective Actions for Localized Roughness

- (1) Apply localized roughness requirements to all pavements, including HMA III, PCC III, HMA IV, and PCC IV; except localized roughness requirements will not be applied to pavements within 25 feet of the following surfaces if they are not constructed under this contract: bridges, bridge approaches, or railroad crossings. The department may direct the contractor to make corrections to the pavement within the 25-foot exclusionary zones.
- (2) The engineer will review each individual wheel track for areas of localized roughness. The engineer will assess areas of localized roughness within 5 business days of receiving notification that the reports were uploaded. The engineer will analyze the report documenting areas that exceed an IRI of 200 in/mile and do one of the following for each location:
1. Direct the contractor to correct the area to minimize the effect on the ride.
 2. Leave the area of localized roughness in place with no pay reduction.
 3. Except for HMA IV and PCC IV segments, assess a pay reduction as follows for each location in each wheel path:

Localized Roughness IRI (in/mile)	Pay Reduction^[1] (dollars)
> 200	(Length in Feet) x (IRI – 200)

^[1] A maximum \$250 pay reduction may be assessed for locations of localized roughness that are less than or equal to 25 feet long. Locations longer than 25 feet may be assessed a maximum pay reduction of \$10 per foot.

- (3) The engineer will not direct corrective action or assess a pay reduction for an area of localized roughness without independent identification of that area as determined by physically riding the pavement. For corrections, use only techniques the engineer approves.
- (4) Re-profile corrected areas to verify that the IRI is less than 140 in/mile after correction. Submit a revised ProVAL ride quality module report to the reference documents section of the MRS for the corrected areas to validate the results.

C.5.3 Corrective Actions for Excessive IRI

- (1) If an individual segment IRI exceeds 140 in/mile for HMA I, HMA II, and PCC II pavements after correction for localized roughness, the engineer may require the contractor to correct that segment. Correct the segment final surface as follows:

HMA I: Correct to an IRI of 60 in/mile using whichever of the following methods as approved by the engineer:
 Mill and replace the full lane width of the riding surface excluding the paved shoulder.
 Continuous diamond grinding or fine-tooth milling the full lane width, if required, of the riding surface including adjustment of the paved shoulders.

HMA II: Correct to an IRI of 85 in/mile using whichever of the following methods as approved by the engineer:
 Mill and replace the full lane width of the riding surface excluding the paved shoulder.
 Continuous diamond grinding or fine-tooth milling of the full lane width, if required, of the riding surface including adjustment of the paved shoulders

PCC II: Correct to an IRI of 85 in/mile using whichever of the following methods as approved by the engineer:
 Continuous diamond grinding of the full lane width, if required, of the riding surface including adjustment of the paved shoulders. Conform to sections C.1 through C.4 of Concrete Pavement Continuous Diamond Grinding Special provision contained elsewhere in the contract.
 Remove and replace the full lane width of the riding surface.

- (2) Re-profile corrected segments to verify that the final IRI meets the above correction limits and there are no areas of localized roughness. Enter a revised ProVAL ride quality module report for the corrected areas to the reference documents section of the MRS. Segments failing these criteria after correction are subject to the engineer's right to adjust pay for non-conforming work under standard spec 105.3.

C.6 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 testing procedures, and perform additional testing.
- (2) If the project personnel cannot resolve a dispute and the dispute affects payment or could result in incorporating nonconforming pavement, the department will use third party testing to resolve the dispute. The department's Quality Assurance Unit, or a mutually agreed on independent testing company, 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 tester. The department may use third party tests to evaluate the quality of questionable pavement and determine the appropriate payment.

D Measurement

- (1) The department will measure Incentive IRI Ride by the dollar, adjusted as specified in E.2.

E Payment

E.1 Payment for Profiling

- (1) Costs for furnishing and operating the profiler, documenting profile results, and correcting the final pavement surface are incidental to the contract. The department will pay separately for engineer-directed corrective action performed within the 25-foot exclusionary zones under C.5.2 as extra work.

E.2 Pay Adjustment

- (1) The department will pay incentive for ride under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
440.4410.S	Incentive IRI Ride	DOL

- (2) Incentive payment is not limited, either up or down, to the amount the schedule of items shows.
- (3) The department will administer disincentives for ride under the Disincentive IRI Ride administrative item.
- (4) The department will not assess disincentive on HMA III or PCC III segments. Incentive pay for HMA III and PCC III segments will be according to the requirements for the category of the adjoining segments.
- (5) The department will adjust pay for each segment based on the initial IRI for that segment. If corrective action is required, the department will base disincentives on the IRI after correction for pavement meeting the following conditions:

- All Pavement: The corrective work is performed in a contiguous, full lane width section 500 feet long, or a length as agreed with the engineer.
- HMA Pavements: The corrective work is a mill and inlay or full depth replacement and the inlay or replacement layer thickness conforms to standard spec 460.3.2.
- Concrete Pavements: The corrective work is a full depth replacement and conforms to standard spec 415.

- (6) The department will adjust pay for 500-foot long standard segments nominally one wheel path wide using equation “QMP 1.04” as follows:

HMA I	
Initial IRI (inches/mile)	Pay Adjustment^[1] (dollars per standard segment)
< 30	250
≥ 30 to <35	$1750 - (50 \times \text{IRI})$
≥ 35 to < 60	0
≥ 60 to < 75	$1000 - (50/3 \times \text{IRI})$
≥ 75	-250

HMA II and PCC II	
Initial IRI (inches/mile)	Pay Adjustment^{[1][2]} (dollars per standard segment)
< 50	250
≥ 50 to < 55	$2750 - (50 \times \text{IRI})$
≥ 55 to < 85	0
≥ 85 to < 100	$(4250/3) - (50/3 \times \text{IRI})$
≥ 100	-250

HMA IV and PCC IV	
Initial IRI (inches/mile)	Pay Adjustment^{[1][2]} (dollars per standard segment)
< 35	250
≥ 35 to < 45	$1125 - (25 \times \text{IRI})$
≥ 45	0

^[1] If the engineer directs placing upper layer asphaltic mixtures between October 15 and May 1 for department convenience as specified in standard spec 450.3.2.1(5), the department will not adjust pay for ride on pavement the department orders the contractor to place when the temperature, as defined in standard spec 450.3.2.1(2), is less than 36 F.

^[2] If the engineer directs placing concrete pavement for department convenience, the department will not adjust pay for ride on pavement the department orders the contractor to place when the air temperature falls below 35 F.

- (7) The department will prorate the pay adjustment for partial segments based on their length.

440-010 (20130615)

30. Pier Construction.

Determine the method of construction, and observe the following conditions:

1. If a cofferdam is used, build the cofferdam of non-erodable material.
2. Concrete poured under water will be allowed; pour the concrete according to standard spec 502.3.5.3. Ensure that the forms are tight to prevent leakage of concrete into the stream. Treat all displaced water by filtration, settling basin, or other means sufficient to reduce the cement content before discharging the water into the stream.
3. Excavated material from the stream may be utilized in the fill slopes so long as it is covered with other suitable material to prevent it from eroding back into the stream.

502-010 (20050502)

31. Concrete Staining Multi-Color B-68-131, 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 Surfacers, Smooth by TK Products
Tri-Sheen Acrylic by TK Products
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products
Safe-Cure & Seal EPX by Chem Masters
H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

C Construction

C.1 General

Furnish, prepare, apply, cure, and store all materials 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 45° 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-68-131	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 (20140630)

32. Architectural Surface Treatment B-68-131, 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 ¼-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 ¾-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-68-131	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)

33. Wall Modular Block Gravity, Item 532.0200.S.

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 Modular Block Gravity Wall Systems

The department specifies approved modular block gravity wall products on the department's approved products list.

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 departments' Bureau of Structures, Structures Development Section. The name of the companies supplying pre-approved material shall be furnished within 25 days after the award of contract. 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.

Applications for pre-approval may be submitted at any time. Applications must be prepared in accordance to the requirements of chapter 14 of the department's Bridge manual. Information and assistance with the pre-approval process can be obtained by contacting the Structures Development 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 that the proposed wall design is in compliance with the design specifications. The following shall be submitted to the engineer for review and acceptance no later than 21 days before wall construction will begin.

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 8½ 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. Four copies of the shop drawings and two copies of the design calculations and supporting materials shall be submitted.

The design of the Modular Block Gravity Wall shall be in conformance to the latest edition of the AASHTO Standard Specifications for Highway Bridges including interim specifications, the standard specifications, and standard engineering design procedures as determined by the department. The design must include analyses that clearly show the factors of safety for overturning, sliding, and soil bearing stress. The width of the modular block from front face to back face of the wall shall be given in the design computations and shown on the wall shop drawings.

The minimum embedment to the bottom of the modular block shall be 1 foot 6 inches, or as specified in the plan.

B.3 Wall System Components

Materials furnished under this contract shall conform to the requirements hereinafter provided.

B.3.1 Backfill

Wall Backfill, Type A, shall comply with the requirements for coarse aggregate No. 1 as given in standard spec 501.2.5.4. 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.

A layer of Geotextile Fabric Type “DF” (Schedule B) shall be placed vertically between the retained soil and the Type A backfill. The geotextile fabric shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

B.3.2 Wall Facing

Provide wall facing units that consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices that will develop a mechanical connection between vertical block layers. Units that are cracked, chipped or have other imperfections in accordance to ASTM C1372 or excessive efflorescence shall not be used within the wall. A single block type and style shall be used throughout each wall. The color of the block shall be grey and the surface texture of the block shall be a split face.

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 an appearance that complements the remainder of the wall. The vertical dimension of the cap shall not be less than 3½ inches. Expansion joints shall be placed in the cap to correspond with each 24-inch change in vertical wall height or at a 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 501.3.

Block dimensions may vary no more than $\pm 1/8$ 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 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. Also the minimum allowed thickness of any other portion of the block is 2 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 (%)	ASTM	
40 cycles, 5 of 5 samples	C1262 ⁽¹⁾	1.0 max. ⁽²⁾
50 cycles, 4 of 5 samples		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 the 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 conducted the sampling and testing, the type of block, the date sampled, name of the person conducting 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. A lot shall not exceed 5000 blocks. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at the contractor's expense.

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. The contractor shall remove all rejected blocks from the project at no expense to the department.

The department may conduct testing of certified or non-certified modular blocks lots delivered to the project. The department will not do 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 that have not been 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 Leveling Pad

For all walls over 5 feet tall measured from the top of the leveling pad to the top of the wall, the wall leveling pad shall consist of a poured concrete masonry pad made from Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for class II concrete as specified in standard spec 716. The depth of the leveling pad shall be as shown on the plans or 6-inches minimum. The leveling pad shall be as wide as the blocks plus 6-inches. Six inches of leveling pad shall extend beyond the front face of the blocks. The bottom of the blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad. A concrete leveling pad shall be used for the entire length of the wall. All walls with a Structure Number assigned (such as R-XX-XXX) shall be built using the concrete leveling pad given above. The leveling pad shall step to follow the general slope of the ground line. The leveling pads steps shall keep the bottom of the wall within one block's thickness of the minimum embedment, i.e. minimum embedment plus up to the thickness of one block. Additional embedment may be detailed but will not be measured for payment.

On walls less than or equal to 5 feet in height without a wall number assigned, a compacted leveling pad made from base aggregate dense 1¼ inch as given in standard spec 305 may be used. The depth of the aggregate leveling pad shall be as shown on the plans or 12-inches minimum. The aggregate leveling pad shall be as wide as the blocks plus 12 inches with 12 inches of pad extending beyond the front face of the wall.

C Construction

C.1 General

Construct the modular block gravity wall in accordance to the manufacturer's instructions, at the locations and to the dimensions shown on the plan and as directed by the engineer. 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 front face of the wall.

Place 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 each layer of wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units. At no expense to the department, correct any such damage or misalignment as directed by the engineer.

Do not operate tracked or wheeled equipment within 3 feet of the back face of the blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

After construction of the wall, restore the surrounding area located above and below all precast block retaining wall sites to its original condition and to the finished details on the plans.

C.2 Geotechnical Information

A copy of the Subsurface Exploration and Analysis Geotechnical Report and soil borings taken along the project corridor will be provided by the department's Regional Soils Engineer upon request. After completion of excavation, the department's Regional Soils Engineer will inspect the site and determine if the foundation is adequate for the intended loads. Allow the region's Soils Engineer two working days to perform the inspection.

D Measurement

The department will measure Wall Modular Block Gravity in area by the square foot of face on a vertical plane between the top of the leveling pad and a line indicating the top of wall including wall cap or copings as required and shown on the plans. Unless directed by the engineer, wall area constructed above or below these limits will not be measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
532.0200.S	Wall Modular Block Gravity	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 and copings; constructing the retaining system; providing backfill, backfilling, and compacting the backfill; and furnishing and installing geotextile fabric. 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.
532-030 (20120615)

34. Reinforced Concrete Pipe Storm Sewers.

Add the following to standard spec 608.5:

Payment for the Storm Sewer Pipe Reinforced Concrete bid items also includes the removal and disposal of abandoned utility facilities necessary to complete the installation of the storm sewer pipes.

35. Manholes, Inlets and Catch Basins.

Construct manholes, inlets and catch basins in accordance to standard spec 611 except as hereinafter modified:

Construct manholes, inlets and catch basins using only pre-cast or cast in place concrete masonry options. The brick masonry or concrete brick or block masonry options shall not be used.

Tuck point all inlet and outlet pipes using concrete conforming to standard spec 501. Mortar shall not be used for tuck pointing.

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

A Description

This special provision describes furnishing and placing polystyrene insulation board as shown on the plans and as hereinafter provided.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230, except as hereinafter revised.

Delete flammability requirement.

B.1 Certification

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

C (Vacant)

D Measurement

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

E Payment

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

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

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

612-005 (20030820)

37. Pipe Underdrain.

Add the following to standard spec 612.3:

If the pipe underdrain system is installed prior to installing the pavement, complete the pipe underdrain system, including the discharge apron endwalls, a minimum of two full calendar days prior to mainline paving.

Dispose of all unsuitable material removed from the trenching operation outside the right-of-way. Trench only as far as the pipe underdrain system can be completed for that day.

Temporarily plug or cap all incomplete ends to prevent rodents and debris from entering the underdrain system. Clean all debris from the pipe prior to installing the rodent shield.
(NCR 612.01-01182012)

38. 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

Place fence between open trenches and the temporary sidewalks within the construction zone at locations determined by the engineer.

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

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

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

616-030 (20070510)

39. Seeding.

Replace standard spec 630.3.3(1) with the following:

Sow seeds by Method A only.
(NCR 630.03-05202013)

40. Wood and Tubular Steel Sign Post.

Add the following to standard spec 634.3(2):

Fill void in box out with asphaltic surface material at a thickness of 2 inches below the finished grade of the PVC pipe.

Add the following to standard spec 634.5(2) and standard spec 634.5(3):

Asphaltic surface material used for filling pipe box out is incidental.
(NCR 634.01-07202012)

41. Removing Signs Type II.

Add the following to standard spec 638.3.4 (2):

Return aluminum Type II signs to either one of the department's North Central Region Office Sign Shops located at 2841 Industrial Street, Wisconsin Rapids or 501 North Hanson Lake Road, Rhinelander. Contact the Signing Lead Worker at (715) 421-8006.
(NCR 638.01-01182012)

42. Field Facilities.

Add the following standard spec 642.2.1(3):

Provide a water cooler to dispense the bottled drinking water.

Add the following to standard spec 642.3:

Set up the field office within seven days after notice from the engineer.

Provide a parking area large enough to park a minimum of six cars directly adjacent to the field office. The parking area and approach to the field office shall be well drained and consist of a crushed base aggregate or an existing paved surface and shall be ready for use within seven days after the field office is set up.

(NCR 642.02-07202012)

43. Traffic Control.

Add the following to standard spec 643.3.1:

Lighting devices shall be covered or rendered inoperative when not in use.

Provide to the engineer, City of Clintonville Police Department, Waupaca County Sheriff's Department, and the State Patrol District Headquarters responsible for that county with the current telephone number(s) which the contractor or their representative can be contacted at all times in the event a safety hazard develops. Repair, replace or restore the damaged or disturbed traffic control devices within two hours from the time notified or made aware of the damaged or disturbed traffic control devices.

Utilize two-way radios, and/or additional flag persons, within lane closure areas and at public road intersections, in order to positively direct, control, and safeguard traffic through the work zone.

All contractor vehicles or equipment operating within the project limits shall be equipped with and have flashing yellow lights operating.

No operations shall take place until all traffic control devices for such work are in the proper locations.

A third flag person is required at all moving construction operations involving milling, paving, and shouldering. The third flag person is required to be located at the area of the moving operation to safely guide traffic around the equipment and personnel working at the moving operation.

All state owned signs that are removed by the contractor because of interference with construction operations shall, unless otherwise authorized by the engineer, be promptly replaced. At no time may stop signs be removed or moved without flag persons present. (NCR-01182012)

44. Signal Controller Training, Item 651.1000.S.

A Description

This special provision describes providing training and instruction relating to the operation, maintenance, and installation of the traffic signal controller and associated equipment.

B (Vacant)

C Construction

Provide a competent representative capable of instructing the operators of the system in (a) theory of application and operation; (b) electronic circuitry; and (c) hands-on, trouble shooting of the equipment. Conduct instruction and training at the job site or other approved location and furnish a partially assembled or breakdown equivalent model of the controller to assist in teaching the operators in theory, assembly, operation, and maintenance.

Provide a minimum of 16 hours of training. Provide operations and maintenance manuals for all training participants.

D Measurement

The department will measure Signal Controller Training 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
651.1000.S	Signal Controller Training	LS

Payment is full compensation for furnishing the instructor, controller model, and operations and maintenance manuals; and for providing training.

651-005 (20030820)

45. General Requirements for Electrical Work.

Add the following to standard spec 651.2, Materials:

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

46. Concrete Control Cabinet Bases Type 9.

Add the following to standard spec 654.4.3.2(1):

Install the concrete control cabinet base under the pertinent bid item provided in the contract. Finish grade the service trench, replace topsoil which may become lost or contaminated, seed, fertilize, and erosion mat all areas which are disturbed by the electric utility company after installing the electric service lateral.

47. Electrical Service Meter Breaker Pedestal STH 22 and 12th Street, Item 656.0200.01.

City of Clintonville Owned Traffic Signal

Arrange the electrical service installation in the name of City of Clintonville.

Electric utility company service installation and energy cost will be billed to and paid for by the City of Clintonville.

Add the following to standard spec 656.3.4:

Install the cabinet base and meter breaker pedestal first, so the electric utility company can install the service lateral. Finish grade the service trench and restore all areas that are disturbed by the electric utility company.

Add the following to standard spec 656.5(3):

Payment for grading the service trench and restoring will be incidental to this work unless the bid items are in the contract and then they will be paid for at the contract price.

48. Electrical Service Meter Breaker Pedestal (LCB 100), Item 656.0200.02.

Add the following to standard spec 656.2.3, Meter Breaker Pedestal Service:

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

Replace standard spec 656.3.2, Service Lateral, paragraph (1) with the following:

- (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 local utility.

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

49. Pedestrian Signal Face 16-Inch.

Add the following to standard spec 658.2.3.2(1):

Furnish 16 inch LED ready pedestrian signal housing, drilled for top/bottom pipe mount with the ability to rotate 270 degrees on poly mounting bracket.

Add the following to standard spec 658.3.4:

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

50. Pedestrian Push Buttons.

Add the following to standard spec 658.2.5:

Furnish vandal resistant, pressure activated, pedestrian push buttons, with die cast body type, in unfinished aluminum or yellow. Button constructed shall be constructed of stainless steel, with a Piezo driven solid state switch, momentary LED display and beeper that sounds simultaneously with button push.

Furnish low profile, unfinished cast aluminum, vandal resistant, and flush mounting pole mount.

51. Traffic Signal Faces.

Add the following to standard spec 658.3.2:

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

52. Fertilizer for Lawn Type Turf, Item SPV.0030.20.

A Description

This special provision describes furnishing and incorporating fertilizing material in the soil on areas of seeding or sod.

B Materials

Use fertilizers that are standard, commercial, packaged or bulk products, in granular or liquid form conforming to Wisconsin Statutes and the Wisconsin Administrative Code Chapter ATPC 40. Ensure that each container of packaged fertilizer is plainly marked with the analysis of the contents showing minimum percentages of total nitrogen, available phosphoric acid, and soluble potash. If furnishing the fertilizer in bulk, include an invoice

with each shipment indicating the minimum percentages of total nitrogen, available phosphoric acid, and soluble potash in the contents.

The total of nitrogen, phosphoric acid, and potash shall equal at least 41 percent. At least 80% of the nitrogen shall be water insoluble.

If using fertilizer with a nitrogen, phosphoric acid, and potash total greater than 41 percent, maintain a ratio of 4-1-2 (N-P-K) and apply at a rate that provides the equivalent amount of nitrogen, phosphoric acid, and potash that is provided by a fertilizer with a 41 percent total.

Provide a slow release type fertilizer with a 14-week residual effect after activation into the soil conforming to the following minimum requirements:

Nitrogen,	not less than 22%
Phosphoric Acid,	not less than 5%
Potash,	not less than 10%

C Construction

Uniformly apply the fertilizer to the seeding areas, and incorporate it into the soil by light discing or harrowing. If applying granular fertilizer, ensure it is well pulverized and free from lumps.

If incorporating fertilizer into topsoiled areas, apply it just before, and in conjunction with, final discing or harrowing, or if hand manipulating the topsoil, apply it just before final raking and leveling.

If fertilizing areas to receive sod, spread the fertilizer at the rate specified below uniformly over the soil before placing sod, and then work the fertilizer into the soil while preparing the earth bed as specified in standard spec 631.3.1.

Apply fertilizer containing 41 percent total of nitrogen, phosphoric acid, and potash at 7 pounds per 1000 square feet of area, unless the contract specifies otherwise. For Fertilizer for Lawn Type Turf that contains a different percentage of components, determine the application rate by multiplying the specified rate by a dimensionless factor determined as follows:

$$\text{Conversion Factor} = 41 / \text{New Percentage of Components}$$

D Measurement

The department will measure Fertilizer for Lawn Type Turf by the hundred pounds (CWT) acceptably completed, and it will be measured based on an application rate of 7 pounds per 1000 square feet. The department will not measure fertilizer used for the bid items under standard spec 632. The measured quantity equals the number of hundred-weight (CWT) of material determined by multiplying the actual number of CWT. of material incorporated by the ratio of the actual percentage of fertilizer components used to 41 percent for Fertilizer for Lawn Type Turf.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0030.20	Fertilizer for Lawn Type Turf	CWT

Payment is full compensation for providing, hauling, placing, and incorporating the fertilizer into the soil.

(NCR 629.01-05202013)

53. Bolted Lid Manhole Covers Special, Item SPV.0060.01.**A Description**

This special provision describes constructing manhole covers in accordance to the details shown in the plans, the requirements of standard spec 611, and as hereinafter provided.

B Materials

Provide materials that conform to the requirements of standard spec 611.2 except as hereinafter provided.

Provide manhole cover with bolted lid, Neenah Foundry R-1916-C, or East Jordan Iron Works 1058 ZPT, or approved equal.

C Construction

Construct in accordance to the requirements of standard spec 611.3.

D Measurement

The department will measure Bolted Lid Manhole Covers 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(s):

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Bolted Lid Manhole Covers Special	Each

Payment is full compensation for providing new covers, including frames, lids, and all other required materials and for installing and adjusting each cover.

54. Removing Abandoned Sign Post, Item SPV.0060.02.**A Description****A.1 General**

This special provision describes removing existing sign post and disposing of the resulting material.

B (Vacant)**C Construction**

Contractor is responsible for removing and disposing of sign post and attached material. Wiring shall be removed from the post and properly terminated next to the adjacent building.

D Measurement

The department will measure Removing Abandoned Sign Post as each individual post acceptably completed, including all attached parts and connections.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Removing Abandoned Sign Post	Each

Payment is full compensation for the payment of the removal, hauling and disposing of the sign post in accordance to the contract.

55. Posts Steel 2 3/8-Inch Diameter x 14-FT, Item SPV.0060.20.**A Description**

This special provision describes furnishing and installing steel posts shown in the plans, the appropriate requirements of standard spec 634, and as hereinafter provided.

B Materials

Furnish 2 3/8-Inch outside diameter steel sign post using structural quality 12-guage strip steel conforming to ASTM designation A1011, grade 50 with an average minimum yield strength, after cold-forming, of 55,000 psi.

Hot-dip galvanize each post according to ASTM A653 grade 90. Treat welds and cut ends with cold-galvanized organic zinc paint as manufacturer recommends.

The engineer will inspect sign posts before installation. Replace scratched or otherwise damaged posts at no expense to the department.

C Construction

Construct in accordance to the appropriate requirements of standard spec 634.3.

D Measurement

The department will measure Posts Steel 2 3/8-Inch Diameter x (size) as each individual post, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.20	Posts Steel 2 3/8-Inch Diameter x 14-FT	Each

Payment is full compensation for providing, hauling and placing the posts; treating cut ends; for excavating and backfilling post holes; and for removing and disposing of surplus material.

56. Remove Existing Lighting Control, Item SPV.0060.21.

A Description

This special provision describes removing existing lighting control cabinets, meter housing and restoring the site to match the surroundings.

B (Vacant)

C Construction

Contact the City of Clintonville at least seven days prior to removing existing control cabinets.

Arrange with the utility for a disconnection of the existing electrical service lateral and removal of the meter housing.

Carefully remove and stockpile all equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. The cabinet shall be made available for the city to salvage. Contact the City of Clintonville Public Works Manager, (715) 823-7685, a minimum of two business days prior to pick up. Properly dispose of any equipment that is not salvaged.

Properly dispose of all related equipment.

D Measurement

The department will measure Remove Existing Lighting Control 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.0060.21	Remove Existing Lighting Control	Each

Payment is full compensation for removals, backfill, and disposal as required above.

57. Salvage Lighting Unit, Item SPV.0060.22.

A Description

This special provision describes salvaging street lighting units from the project as shown in the plans and as hereinafter provided.

B (Vacant)

C Construction

Disconnect and salvage the complete lighting unit from the locations shown in the plans and/or as designated by the engineer.

Carefully stockpile the complete lighting unit at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Salvaged items shall be stored and protected from damage until ready for pick up by the City of Clintonville. Any damage to the salvaged materials resulting from the removal and salvaging operations shall be repaired or replaced in-kind at the contractor's expense. Contact the City of Clintonville Public Works Manager, (715) 823-7685) a minimum of two business days prior to pick up.

This item includes coordination and incidentals necessary to remove or have removed by the city of Clintonville: street signs, pedestrian flasher signals, overhead cables and all accessories affixed to the lighting units.

D Measurement

The department will measure Salvage Lighting Unit as each individual salvaged 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.0060.22	Salvage Lighting Unit	Each

Payment is full compensation for salvaging and storage of all existing lighting unit components.

58. Concrete Control Cabinet Base Type Special, Item SPV.0060.23.

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.0060.23	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.

59. Lighting Control Cabinet, Item SPV.0060.24.**A Description**

This special provision describes furnishing and installing a Lighting Control Cabinet. Work under this item shall be in accordance to 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)
- (6) 30A/2P Receptacle Circuits (120V Phase to Ground Circuits)

Furnish a NEMA 3R rated time clock with capacitor backup, equipped with an automatic daylight savings time and leap year adjustment.

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 brown 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.

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.0060.24	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.

60. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Brown, Item SPV.0060.25.

A Description

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

B Materials

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

Replace standard spec 657.2.6, Transformer Bases, paragraph (1) with the following:

(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 brown anodized finish. Bases anodized after purchase from the manufacturer will not be accepted without approval from the engineer.

C Construction

In accordance to the plans and standard spec 657.3.

D Measurement

The department will measure Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Brown as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Brown	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.

61. Poles Type 5-Aluminum Brown, Item SPV.0060.26.**A Description**

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

B Materials

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

Replace standard spec 657.2.1, Poles, paragraph (7) with the following:

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.

Add the following to standard spec 657.2.1, Poles:

Furnish all poles with a manufacturer applied brown 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.

C Construction

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

D Measurement

The department will measure Poles Type 5-Aluminum Brown as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Poles Type 5-Aluminum Brown	Each

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

62. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Brown, Item SPV.0060.27.

A Description

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

B Materials

In accordance to 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 brown 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 to the plans and standard spec 657.3.

D Measurement

The department will measure Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Brown as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Brown	Each

Payment for the Luminaire Arms bid items 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.

63. Luminaires Utility LED Category C Brown, Item SPV.0060.28.

A Description

This work shall be in accordance to the requirements of standard spec 659, the plans, standard detail drawings, and as hereinafter provided.

B Materials

In accordance to the plans and standard spec 659.2 and as hereinafter provided:

Furnish all luminaires with brown colored housing.

C Construction

In accordance to the plans and standard spec 659.3.

D Measurement

The department will measure Luminaires Utility LED Category C Brown 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.0060.28	Luminaires Utility LED Category C Brown	Each

In accordance to the plans and standard spec 659.5.

64. Decorative Light Unit, Item SPV.0060.29.

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 to 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, banner, 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.

The information required in the above list must be furnished to the 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 Clintonville.

B.2 Concrete Foundation

Furnish concrete masonry, bar steel reinforcement, anchor rods, nuts, washers, conduit, grounding electrode and all incidental materials in accordance to 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
- Poles shall have a tapered and fluted cross section with a decorative base section
- An integral decorative base section is preferred. To be acceptable, any two-piece "clam-shell" type must have finish to match the pole. A two-piece base section 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 brown.
- Furnish galvanized L-type anchor rods

B.3 Luminaire

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

- 100 watt maximum (or lower) high pressure sodium ballast and lamp.
- Luminaire shall be traditional shaped acorn style with prismatic glass refractor/reflector; glass optic shall be approximately 17" diameter, 34" tall and 14" glass depth.
- Both IES distributions Type II and III are acceptable if the luminaire can meet all other requirements.
- Luminaire shall provide illumination performance as follows:
 - 1.1 average foot-candles
 - 3.0:1 average-minimum illumination ratio
 - 0.3:1 veiling luminance ratio or best achievable.
- Illumination results shall be based on the roadway section as shown in the plans; and the spacing as shown in the plans.
- Luminaire ratings shall include the following:
 - B.U.G. (Backlight / Uplight / Glare) rating of 2-3-4 or better
 - I.P. rating of 65 or greater
 - All components U.L. listed for wet locations.
- Luminaire shall feature the following accessories:
 - Spike top finial
 - Decorative banding
 - Internal house side shield (furnish only).

B.4 Luminaire Mounting Bracket

Furnish aluminum luminaire mounting bracket with decorative fitters for luminaire support. Luminaire mounting bracket shall allow for weather tight wire-way from the pole to the luminaire. Arm finish shall match requirements listed in section B.3

B.5 Pole Accessories

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 brown 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 1¼" diameter, 24-inch long cast aluminum banner brackets with ball end cap per pole. All exposed surfaces shall be brown in color to match the pole finish.

C Construction

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

D Measurement

The department will measure Decorative Light Unit as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.29	Decorative Light Unit	Each

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

65. Tree Root Cutting and Removal, Item SPV.0060.30.**A Description**

This special provision describes cutting and removal of tree roots along the edge of the proposed sidewalk or driveways at the locations shown on the plans and as hereinafter provided.

B (Vacant)**C Construction**

Remove existing tree roots 5 inches out from back edge of the new sidewalk. The tree roots shall be pruned by hand and removed not deeper than 9 inches below finished grade of new sidewalks when adjacent to sidewalk and not deeper than 13 inches below finished grade of new driveways when adjacent to driveways. Roots 2 inches and larger in diameter are to be pruned cleanly not farther back than the above stated points. If approved by the engineer, a mechanical root cutting machine designed for such purpose may be used to cut the roots. Backhoes, skid steers, and endloaders are not acceptable.

Exposed tree roots shall be immediately covered with mulch and kept moist until backfilling is completed.

Backfill the area after removal of the roots in accordance to the pertinent provisions of standard spec 207.

Dispose of the tree roots in accordance to standard spec 201. Burning or burying of the roots will not be permitted.

D Measurement

The department will measure Tree Root Cutting and Removal as each individual unit, regardless of size of tree, acceptably completed. One unit will consist of cutting and removing all tree roots at a specific tree location along one side of sidewalk or driveway. When a tree is located near multiple sidewalks and driveways and the roots are cut and removed on two or more sides of the tree, then each side that is cut and removed will be counted and totaled per tree.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	Tree Root Cutting and Removal	Each

Payment is full compensation for pruning and cutting tree roots; removal and disposal of roots; furnishing and covering the roots with mulch; watering and maintaining the mulch in moist conditions; and backfilling.

66. Roof Drain Cleanout, Item SPV.0060.31.**A Description**

This special provision describes furnishing and installing roof drain cleanouts as shown in the plans and as hereinafter provided.

B Materials

Furnish poly vinyl chloride pipe schedule 40 and fittings conforming to ASTM D1785 and D2665.

Furnish poly vinyl chloride pipe solvent and cleaner application conforming to ASTM D1784 and D2855.

Furnish Neenah Frame and Cover R-1974-A.

C Construction

Field locate the existing roof drain pipe and verify the existing pipe size. Order the two-way cleanout tee to match the existing drain pipe size.

The pipe and fittings shall be inspected for defects. Any defective, damaged, or unsound pipe or fittings shall be rejected and removed from the site.

Install all pipes, fittings, frost sleeves and covers as shown in the plans. Securely connect new PVC pipe to new fittings and existing pipe using solvent-cement joints.

Backfill trenches in accordance to standard spec 607.3.5.

D Measurement

The department will measure Roof Drain Cleanout as a single complete unit of work, completed in accordance to the contract accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.31	Roof Drain Cleanout	Each

Payment is full compensation for locating and verifying the existing pipe sizes; for furnishing, connecting and installing all pipes, fittings, frost sleeves, and covers; and for excavating, backfilling, and disposing of surplus materials.

67. Abandon Water Service, Item SPV.0060.40.

A Description

This special provision describes abandoning existing water services at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

When abandoning existing water services, excavate at the location of the curb stop and box down to the existing service, remove the curb stop and box, plug both ends of the existing pipe adjacent to the curb stop using a method approved by the city, backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Abandon Water Service as each individual unit, regardless of size or pipe material, 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	Abandon Water Service	Each

Payment is full compensation for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

68. Remove Hydrant and Branch Piping, Item SPV.0060.41.

A Description

This special provision describes the removal of existing fire hydrants and the entire length of pipe connecting the existing hydrant to the existing water main, disposing of removed pipe, and returning the fire hydrant to the City of Clintonville, at the locations as shown on the plans and provided for by these specifications, exclusive of any valves or valve boxes located in the branch pipe.

B (Vacant)

C Construction

Carefully remove the fire hydrant to avoid damage and contact the City of Clintonville Utilities - water to arrange for the city to pick up the hydrant. Remove the branch pipe and properly dispose of it. Plug existing water main tee where the branch pipe is removed

using a method approved by the city, backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Remove Hydrant and Branch Piping as a unit in the original position, 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.0060.41	Remove Hydrant and Branch Piping	Each

Payment is full compensation for removing the fire hydrant and returning it to the City of Clintonville, for removing and disposing of the branch piping, for excavation and backfilling.

69. Remove Water Valve and Box, Item SPV.0060.42; Remove Water Valve Manhole and Valve, Item SPV.0060.43.

A Description

This special provision describes the removal of existing gate valves, gate valve boxes, and water valve manholes from the existing water main after it has been abandoned and disposing of removed materials, at the locations as shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

Remove the gate valve, valve box, valve manhole. Plug or cap both ends of the water main adjacent to the removed materials, backfill with excavated materials in accordance to standard spec 203.3.5. Properly dispose of all removed materials.

D Measurement

The department will measure Remove Water Valve and Box and Remove Water Valve Manhole and Valve as a unit, regardless of size or material, 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	Remove Water Valve and Box	Each
SPV.0060.43	Remove Water Valve Manhole and Valve	Each

Payment is full compensation for removing the valve, valve box, and/or valve manhole, for proper disposal of removed materials, for excavation and backfilling.

70. Corporation, Curb Stop and Box, Item SPV.0060.44.

A Description

This special provision describes furnishing and installing water service corporation stops, curb stop valves and boxes on new water services at the locations as shown on the plans, in accordance to File No. 51 of the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications” and as provided for by these specifications.

B Materials

Furnish corporation stops and curb stops that are manufactured in accordance to AWWA C-800 and ASTM B-62. Corporation stops will be AY McDonald 4701Q, or equal. Curb stops will be AY McDonald 6104Q, or equal. Curb boxes will be AY McDonald 5614 or 5615, without extension rod, or equal.

C Construction

Install the corporation stop in accordance to standard spec 5.5.8 of the Sanitary Sewer and Water Specifications. Install the curb stop at the location where the new water service is connected to the existing water service, near the right-of-way line. Set curb box in accordance to standard spec 5.5.12 of the Sanitary Sewer and Water Specifications. Place backfill to avoid displacement or bending of the curb box.

D Measurement

The department will measure Corporation, Curb Stop and Box as each individual unit acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.44	Corporation, Curb Stop and Box	Each

Payment is full compensation for furnishing and placing all materials, including corporation stop, curb stop and curb box.

71. Water Main, 8”x6” Reducer, Item SPV.0060.45; Water Main, 8”x4” Reducer, Item SPV.0060.46; Water Main, 8” 90° Bend, Item SPV.0060.47; Water Main, 4” 90° Bend, Item SPV.0060.48; Water Main, 8” x8” Cross, Item SPV.0060.49; Water Main, 8”x6” Tee, Item SPV.0060.50; Water Main, 8”x8” Tee, Item 0060.51; Water Main, 8” 45° Bend, Item SPV.0060.52; Water Main, 8” 22½° Bend, Item SPV.0060.53; Water Main, 8” Cut-In Sleeve, Item SPV.0060.54; Water Main, 6” Cut-In Sleeve, Item SPV.0060.55.

A Description

This special provision describes furnishing and installing the above items, hereinafter collectively called water main fittings at the locations as shown on the plans, in accordance to the appropriate File No. of the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, as directed by the engineer in the field, and as provided for by these specifications .

B Materials

Furnish mechanical joint type cement-lined ductile iron water main fittings that comply with ANSI C153 and AWWA A21.53. Fasten all water main fittings and joint restraint glands with fluorocarbon coated T-head bolts, CorBlue or equal.

C Construction

Provide conductivity across joints using external copper jumpers, capable of carrying 500 amps for an extended period. Install and buttress all fittings in accordance to the appropriate File No. in the Sanitary Sewer and Water Specifications. Place ductile iron restraint glands on all joints.

D Measurement

The department will measure Water Main (Size) (Type) fittings as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.45	Water Main, 8”x6” Reducer	Each
SPV.0060.46	Water Main, 8”x4” Reducer	Each
SPV.0060.47	Water Main, 8” 90° Bend	Each
SPV.0060.48	Water Main, 4” 90° Bend	Each
SPV.0060.49	Water Main, 8” x8” Cross	Each
SPV.0060.50	Water Main, 8”x6” Tee	Each
SPV.0060.51	Water Main, 8”x8” Tee	Each
SPV.0060.52	Water Main, 8” 45° Bend	Each
SPV.0060.53	Water Main, 8” 22½° Bend	Each
SPV.0060.54	Water Main, 8” Cut-In Sleeve	Each
SPV.0060.55	Water Main, 6” Cut-In Sleeve	Each

Payment is full compensation for furnishing and placing all materials, including all joint restraint.

72. Water Main Connection, Item SPV.0060.56.

A Description

This special provision describes cutting into and connecting new water main to existing water main as shown on the plans and as provided by these specifications.

B Materials

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions.

C Construction

Cutting into and connecting to existing water main shall conform to industry standards. Only representatives of the city water utility are permitted to operate valves on existing system. Give the city water utility and affected property owners at least 24-hour notice when it is necessary to take an existing water main out of service.

Disinfect all connection materials with a 50 parts per million chlorine solution.

Disruption of water service during a low usage period or when it is the least inconvenient to the user. Have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

D Measurement

The department will measure Water Main Connection as each individual unit, regardless of size, 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.0060.56	Water Main Connection	Each

Payment is full compensation for cutting existing water main, connecting to existing water main, furnishing and placing all materials.

73. Adjust Water Valve Box, Item SPV.0060.57.

A Description

This special provision describes making final adjustments to existing gate valve boxes located in new pavements all as shown on the plans and provided by these specifications.

B Materials

Install extensions as required to bring existing valve box to final grade. Valve boxes damaged by the contractor shall be replaced in accordance to the bid item Valve and Valve Box”.

C Construction

Existing gate valve boxes will be adjusted to be flush with the new pavement or to an elevation as directed by the engineer.

Notify the City of Clintonville (Contact Bob Stanislawski, (715) 823-7600) to inspect the water valve boxes after the initial removal of pavement. The City of Clintonville will make necessary repairs including replacements or extensions to the existing water valve boxes as necessary. Clean out the water valve boxes as necessary to assure the valve wrench will fit completely over the valve bolt. Protect the water valve boxes during construction. Adjust the water valve boxes to the required final finished elevation.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.57	Adjust Water Valve Box	Each

Payment is full compensation for making the final adjustments.

74. 8" Valve and Valve Box, Item SPV.0060.58; 6" Valve and Valve Box, Item SPV.0060.59.

A Description

This special provision describes installing new water main gate valves and valve boxes all as shown on the plans and in accordance to File No. 37 of the "Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008", hereinafter referred to as "Sanitary Sewer and Water Specifications", as directed by the engineer in the field, and as provided for by these specifications .

B Materials

Gate valves are to be resilient-seated valves meeting the requirements of AWWA Standard C509 and shall be designed for 200 psi working pressure. The gate valves are to have mechanical joint end, a non-rising operating stem with "o" ring seals, and a 2 inch square operating nut, that opens left. An open indicating arrow, the manufacturer's name, pressure rating and year of manufacture are to be cast on the body of the valve.

All valves are to be provided with vertical valve boxes, Buffalo type, Tyler size DD or approved equal. Valve boxes are to be cast iron, adjustable. Valve boxes are to be provided with 7 feet of cover, except where greater depths are indicated on the profiles of the plans. Valve boxes are to be at least three pieces with sufficient adjustment to provide at least 6 inches of adjustment above and below grade.

Install all extension sections in the middle of the box and not stacked on top.

Provide gate valve adapter with ½ inch rubber gasket installed between gate valve and gate valve adapter. The gate valve adapter shall be installed on the valve prior to placing bonnet section of valve box assembly, as manufactured by Adaptor, Inc., or approved equal.

C Construction

Set valves with stems vertical and plumb. Firmly support valve boxes on a concrete block and maintain them center and plumb over the wrench nut of the valve, with box cover flush with the surface of the finished pavement or at such other level as may be directed.

D Measurement

The department will measure 8" Valve and Valve Box and 6" Valve and Valve Box as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.58	8" Valve and Valve Box	Each
SPV.0060.59	6" Valve and Valve Box	Each

Payment is full compensation for furnishing and placing all materials, including any required connecting sleeves, valves, adapters, and boxes.

75. Hydrant, Item SPV.0060.60.

A Description

This special provision describes furnishing and installing fire hydrants in the locations as shown on the plans, in accordance to the details, and in accordance to the "Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008", hereinafter referred to as "Sanitary Sewer and Water Specifications", and as provided for by these specifications.

B Materials

Furnish all materials required from the end of the hydrant lead pipe including any required fittings, riser pipe and hydrant. Furnish hydrants meeting the requirements of AWWA Standard C502. Hydrants shall be Waterous "Pacer", or equal, with a 16" barrel, two 2½ inch hose connection and one 4 inch pumper nozzle, a 6 inch mechanical joint hub, and pentagon operating nut, opening left, and shall be painted red.

The riser pipe and any required fittings shall be cement-lined ductile iron.

C Construction

Hydrants shall be placed in the locations as shown and in accordance to the “Standard Hydrant Assembly” detail on the plans. After each hydrant has been set, there shall be placed around the base of the hydrant at least ½ cubic yard of 1-½ inch washed rock. Two layers of 10 mil polyethylene shall be placed over the rock to prevent backfill material from entering voids in the rock. All hydrants must be maintained in a plumb position.

Hydrants shall be disinfected in conjunction with and as part of the mainline disinfection process.

D Measurement

The department will measure Hydrant as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.60	Hydrant	Each

Payment is full compensation for furnishing and installing hydrant, fittings, riser pipe, washed stone, concrete base, blocking, polyethylene and all other materials, for excavation and backfilling.

76. Flushing Hydrant, Item SPV.0060.61.

A Description

This special provision describes furnishing and installing flushing hydrants in the locations as shown on the plans, in accordance to the details, and in accordance to the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, and as provided for by these specifications.

B Materials

Furnish all materials required from the end of the hydrant branch pipe including any required fittings, riser pipe and flushing hydrant. Flushing hydrants shall be Kupferle, Eclipse No. 85, or equal, with a 2½ inch outlet, self-draining, non-freezing, compression type with a 2-3/16 inch main valve opening. Inlet connection shall be 4” mechanical joint. Flushing hydrant shall have a cast iron box with locking lid.

The riser pipe and any required fittings shall be cement-lined ductile iron.

C Construction

Flushing hydrants shall be placed in the locations as shown and in accordance to the “Flushing Hydrant” detail on the plans. After each hydrant has been set, there shall be placed around the base of the hydrant at least ½ cubic yard of 1-½ inch washed rock. Two layers of 10 mil polyethylene shall be placed over the rock to prevent backfill material from entering voids in the rock. All hydrants must be maintained in a plumb position.

Flushing hydrants shall be disinfected upon completion of installation.

D Measurement

The department will measure Flushing Hydrant as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.61	Flushing Hydrant	Each

Payment is full compensation for furnishing and installing flushing hydrant, fittings, riser pipe, washed stone, concrete base, blocking, polyethylene and all other materials, for excavation and backfilling.

77. Remove Sanitary Manhole, Item SPV.0060.62.**A Description**

This special provision describes the removal of existing sanitary manholes and disposing of removed materials, at the locations as shown on the plans and provided for by these specifications.

B (Vacant)**C Construction**

Remove sanitary manholes including existing frame and lid. Backfill in accordance to standard spec 203.3.5. Properly dispose of all removed materials.

D Measurement

The department will measure Remove Sanitary Manhole 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.0060.62	Remove Sanitary Manhole	Each

Payment is full compensation for removing and disposing of existing manhole, and for excavation and backfilling.

78. Sanitary Connection, Item SPV.0060.63.

A Description

This special provision describes connecting existing sanitary sewers, manholes, or services, to new sanitary sewers or manholes at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

When connecting a new sewer pipe to an existing sewer pipe, cut the ends of the existing sanitary sewer and connect to new sewer with pipe coupling adapters made specifically for such reconnections. Keep a record of all such connections, locations, and materials used.

When connecting an existing sanitary sewer to a new manhole, cut or extend existing pipe to fit into new manhole. If required, drill or break into the manhole or enlarge existing holes to accommodate new pipe. Repair all damage or oversized holes with masonry to form a watertight repair. Fit pipe with a watertight rubber gasket that is mortared into the manhole. Mortar will conform to standard spec 519.2.4. All fittings and masonry work will be supplied by the contractor.

D Measurement

The department will measure Sanitary Connection as each individual unit, regardless of size, or pipe material, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.63	Sanitary Connection	Each

Payment is full compensation for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

79. Abandon Sanitary Lateral, Item SPV.0060.64.

A Description

This special provision describes abandoning existing sanitary laterals at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

When abandoning existing sanitary laterals, plug the end of the existing lateral using a method approved by the city sewer utility to be abandoned in a location adjacent to the sanitary sewer at the time the new sanitary sewer is installed to replace the existing sanitary sewer.

D Measurement

The department will measure Abandon Sanitary Lateral as each individual unit, regardless of size or pipe material, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.64	Abandon Sanitary Lateral	Each

Payment is full compensation for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

80. Remove Clean Out, Item SPV.0060.65.**A Description**

This special provision describes the removal of existing sanitary clean outs and disposing of removed materials, at the locations as shown on the plans and provided for by these specifications.

B (Vacant)**C Construction**

Remove clean out and existing cover. Properly dispose of all removed materials.

D Measurement

The department will measure Remove Clean Out 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.0060.65	Remove Clean Out	Each

Payment is full compensation for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

81. Adjust Sanitary Manhole, Item SPV.0060.66.

A Description

This special provision describes making final adjustments to existing sanitary manholes located in new pavements all as shown on the plans and provided by these specifications.

B (Vacant)

C Construction

Adjust sanitary manhole by excavating around the existing frame and lid and removing it, install masonry adjusting rings as required to bring existing manhole to final grade, and replace removed frame and lid. Set masonry adjusting rings in a mortar bed and trowel smooth. Install a chimney seal to be measured and paid for as SPV.0060.65. Backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Adjust Sanitary Manhole as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.66	Adjust Sanitary Manhole	Each

Payment is full compensation for furnishing all materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

82. Sanitary Manhole, 4-Ft Diameter, W/Eccentric Top, Item SPV.0060.67.

A Description

This special provision describes furnishing and installing precast sanitary manholes in locations as shown on the plans, in accordance to standard spec 611, and in accordance to File No. 13 of the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, as directed by the engineer in the field, and as provided for by these specifications.

B Materials

Furnish materials that conform with the requirements of standard spec 611.2. Furnish manholes with an integral base, rubber gasket joints and pre-formed manhole inverts. Provide flexible gasket joints for all pipe connections, precast into the manhole.

C Construction

Construct in accordance to standard spec 611.3.

D Measurement

The department will measure Sanitary Manhole 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.0060.67	Sanitary Manhole,4-Ft Diameter, W/Eccentric Top	Each

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

83. Chimney Seal, Item SPV.0060.68.**A Description**

This special provision describes furnishing and installing external rubber chimney seals on all new sanitary manholes and on all sanitary manholes to be adjusted, as shown on the plans, in accordance to File No. 12A of the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, as directed by the engineer in the field, and as provided for by these specifications.

B Materials

Furnish external rubber chimney seals as manufactured by Adaptor, Inc, or equal.

C Construction

Install chimney seals in accordance to the manufacturer’s recommendation.

D Measurement

The department will measure Chimney Seal as each individual unit, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.68	Chimney Seal	Each

Payment is full compensation for furnishing and installing chimney seal.

84. WYE, PVC, 8" x 6", Item SPV.0060.69.

A Description

This special provision describes furnishing and installing a prefabricated wye in the sanitary main at all locations where a sanitary lateral is to be connected to the new sanitary main, as shown on the plans, in accordance to the "Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008", hereinafter referred to as "Sanitary Sewer and Water Specifications", as directed by the engineer in the field, and as provided for by these specifications.

B Materials

Furnish prefabricated PVC wyes.

C Construction

Install in accordance to subsection 3.2.5 of the Sanitary Sewer and Water Specifications.

D Measurement

The department will measure Wye, PVC, 8"x6" 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.0060.69	WYE, PVC, 8"x6"	Each

Payment is full compensation for furnishing and installing wyes.

85. Clean-Out, PVC, 6-Inch, Item SPV.0060.70.

A Description

This special provision describes furnishing and installing all materials required to construct clean-outs as shown on the plans, in accordance to the details, in accordance to the "Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008", hereinafter referred to as "Sanitary Sewer and Water Specifications", as directed by the engineer in the field, and as provided for by these specifications.

B Materials

Furnish PVC, schedule 40 pipe meeting the requirements of ASTM D-2665. Furnish a cover as manufactured by Neenah Foundry, R1974-A, or equal.

C Construction

Construct in accordance to the detail as shown on the plan. Laying conditions will be Class "C" bedding in accordance to File No. 3 of the Sanitary Sewer and Water Specifications. Backfill with excavated materials in accordance to standard spec 203.3.5. All stone bedding material required to install the clean-out will be considered incidental to the work.

D Measurement

The department will measure Clean-Out 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.0060.70	Clean-Out, PVC, 6-Inch	Each

Payment is full compensation for furnishing and installing all materials, and for excavating and backfilling.

86. Concrete Curb and Gutter 24-Inch Type D, Item SPV.0090.01.**A Description**

This special provision describes constructing concrete curb and gutter in accordance to the details shown in the plans, the requirements of standard spec 601, and as hereinafter provided.

B Materials

Provide materials that conform to the requirements of standard spec 601.2.

C Construction

Construct in accordance to the requirements of standard spec 601.3.

D Measurement

The department will measure Concrete Curb and Gutter 24-Inch Type D 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(s):

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Curb and Gutter 24-Inch Type D	LF

Payment is full compensation for furnishing all foundation excavation and preparation; providing all materials, including concrete, expansion joints, and reinforcement tie bars unless specified otherwise; placing, finishing, protecting, and curing; sawing joints; disposing of surplus excavation material, and restoring the work site.

The department will adjust pay for crack repairs on concrete built under standard spec 601 as specified in standard spec 416.5.2 for ancillary concrete.
(NCR 601.03-05202013)

87. Storm Sewer Pipe PVC 6-Inch, Item SPV.0090.20; 8-Inch, Item SPV.0090.21; 10-Inch, Item SPV.0090.22.

A Description

This special provision describes furnishing and installing PVC pipe as shown in the plans and as hereinafter provided.

B Materials

Furnish poly vinyl chloride pipe schedule 40 conforming to ASTM D1785 or ASTM D2665.

Furnish poly vinyl chloride pipe solvent and cleaner application conforming to ASTM D2855.

C Construction

Lay and maintain all pipes to the lines and grades shown in the plans.

Before lowering pipe into the trench and while suspended, inspect the pipe for defects. Reject and remove any defective, damaged, or unsound pipe.

Fit and match pipes so when laid they will form a sewer with a smooth and uniform invert.

Securely connect new PVC pipe to existing pipe using solvent-cement joints.

Backfill trenches in accordance to standard spec 607.3.5.

D Measurement

The department will measure Storm Sewer Pipe PVC (size), in length by the linear foot, acceptably completed. This measurement equals the distance along the centerline of the pipe installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.20	Storm Sewer Pipe PVC 6-Inch	LF
SPV.0090.21	Storm Sewer Pipe PVC 8-Inch	LF
SPV.0090.22	Storm Sewer Pipe PVC 10-Inch	LF

Payment is full compensation as specified in standard spec 608.5 for Storm Sewer Pipe Reinforced Concrete.

88. Abandon Water Main, Item SPV.0090.71.

A Description

This special provision describes abandoning existing water main at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

Abandon existing water main in locations as shown on the plans by excavating to the end of the main to be abandoned and plugging the end of the main using a method approved by the city. Backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Abandon Water Main by length in linear feet from plugged end to plugged end, 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.0090.71	Abandon Water Main	LF

Payment is full compensation for excavating and backfilling.

89. Remove Water Main, Item SPV.0090.72; Remove Water Service, Item SPV.0090.73.

A Description

This special provision describes removing existing water main and services as shown on the plans, and as provided for by these specifications.

B (Vacant)

C Construction

Remove water main in locations as shown on the plans where new water main is being installed in the same location as existing water main and as directed by the engineer. Properly dispose of water main removed.

Remove water services in locations as shown on the plans where new water services are being installed in the same location as existing water services, from the location of the new water main to the connection with existing water services at or near the right-of-way. Cut existing water services at the new main and plug the end connected to the existing water main, using a method approved by the city. Remove existing curb stop and box is incidental to this work. Properly dispose of removed water services, curb stops and curb boxes.

D Measurement

The department will measure Remove Water Main and Remove Water Service by length in linear feet measured from end to end removed, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.72	Remove Water Main	LF
SPV.0090.73	Remove Water Service	LF

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

90. Remove Existing River Water Main, Item SPV.0090.74.**A Description**

This special provision describes removing existing river water main as shown on the plans and details, and as provided for by these specifications.

B (Vacant)**C Construction**

Remove existing abandoned water main in locations as shown on the plans and as directed by the engineer. The existing abandoned water main is through the existing bridge abutments and the existing abandoned water main between the abutments is lying on the bottom of the Pigeon River. Disconnect the existing abandoned water main from the bridge abutments on the river side and the non-river side by sawing as close to the abutment as possible. Minimize disturbance to the river bed when removing the existing abandoned water main. Backfill non-river areas of removal with excavated materials in accordance to standard spec 203.3.5. Properly dispose of the water main removed.

D Measurement

The department will measure Remove Existing River Water Main by length in linear feet from end to end removed, 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.0090.74	Remove Existing River Water Main	LF

Payment is full compensation for excavation and backfilling, removal and disposal of materials and for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

91. Water Main, 4-Inch, Item SPV.0090.75; Water Main, 6-Inch, Item SPV.0090.76; Water Main, 8-Inch, Item SPV.0090.77.

A Description

This special provision describes furnishing and installing new water main as shown on the plans, in accordance to the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, as directed by the engineer in the field, and as provided for by these specifications.

B Materials

Furnish PVC, SDR-18 water main meeting the requirements of AWWA C-900. Furnish fluorocarbon coated T-head bolts, Corblue or equal for all fitting and joint restraint glands.

C Construction

Inspect pipe prior to installation.

Install water main in accordance to Chapter 4 of the Sanitary Sewer and Water Specifications.

Provide a minimum of 7 feet of cover over the pipe, or greater in locations as shown on plans. Provide a minimum of 18” of vertical clearance, edge of pipe to edge of pipe, in all areas where water main crosses under sanitary or storm sewer. Provide a minimum of 6” of vertical clearance, edge of pipe to edge of pipe, in all areas where water main crosses over sanitary or storm sewer. Provide a minimum of 8 feet of horizontal separation between the water main and storm or sanitary sewers parallel with the water main.

Upon completion of water main and prior to connection of any water services, pressure test water main in accordance to subsection 4.15.2 of the Sanitary Sewer and Water Specifications.

Furnish and install 10 Ga. tracer wire, color coded blue, to mark the locations of all water main. Tape the tracer wire to the top of pipes at maximum 10’ intervals. Connect tracer wire over new water main to existing water main at connections. Test the tracer wire conductivity prior upon completion of water main installation. Make tracer wire connections at hydrants and services.

Disinfect water main in accordance to subsection 4.3.12 of the Sanitary Sewer and Water Specifications. Perform bacteriological testing of new water main in accordance to subsection 4.16.0 of the Sanitary Sewer and Water Specifications. In the process of chlorinating new water main, operate all valves and other appurtenances while the pipe is filled with chlorinating agent.

D Measurement

The department will measure Water Main (size) by length in linear feet, acceptably completed in place, with no deductions for fittings or valves.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.75	Water Main, 4-Inch	LF
SPV.0090.76	Water Main, 6-Inch	LF
SPV.0090.77	Water Main, 8-Inch	LF

Payment is full compensation for furnishing and installing all materials, and for excavating and backfilling.

92. Water Main Staking, Item SPV.0090.78.**A Description**

This special provision describes the contractor-performed construction staking to establish the horizontal and vertical position for water main as shown on the plans and as provided by these specifications.

B (Vacant)**C Construction**

Perform construction staking for water main in accordance to standard spec 650.3.1. Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate all pipe, fittings, valves and hydrant stakes to within 0.02 feet horizontally, and establish the elevations to within 0.01 feet vertically.

Submit all survey notes and computations used to establish the required lines and grades to the engineer within 21 days of completing this work used to establish the required lines and grades to the engineer within 21 days of completing this work.

D Measurement

The department will measure Water Main Staking by the linear foot, acceptably completed, measured along the centerline of the water main.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.78	Water Main Staking	LF

The department will not make final payment for any staking item until the contractor submits all survey notes and computations.

Payment is full compensation for locating and setting all construction stakes; for relocating and resetting damaged or missing construction stakes, including stakes for furnishing all pipe, fittings, valves and hydrants.

93. Water Service, HDPE, 1", Item SPV.0090.79.

A Description

This special provision describes furnishing and installing water services all as shown on the plans, as directed by the engineer in the field and as provided by these specifications.

B Materials

Furnish PE-3048 high density polyethylene (HDPE), SDR-9, rated for 200 psi, meeting the requirements of ASTM D-2737 with compression joint fittings on all connections.

C Construction

The location and size of water services, as shown on the plans, are approximate. Actual locations and size may vary from what is shown. Use fittings and adaptors approved by the city to make field connections.

Install HDPE service lines continuous without joints between the corporation and curb stop with approximately 12 inches of slack at the corporation stop.

Disinfect water services by filling each service with a 50 parts per million chlorine solution and then flushing the service before connecting it to the building.

Water services shall have a 7.0 feet bury with the exception of those locations in which conflict may occur with sewers. In these cases, construct the water service below the sewer to permit 9 inches between the sewer invert and water service.

D Measurement

The department will measure Water Service, HDPE, 1" by length in linear feet from center of water main to connection with existing service plus 12 inches for slack, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.79	Water Service, HDPE, 1"	LF

Payment is full compensation for furnishing and placing all materials.

94. Abandon Existing Sanitary, Item SPV.0090.80.

A Description

This special provision describes abandoning existing sanitary sewer main at the locations shown on the plans and provided for by these specifications.

B (Vacant)

C Construction

Abandon existing sanitary sewer main in locations as shown on the plans by excavating to the end of the main to be abandoned and plugging the end of the main using a method approved by the city. Backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Abandon Existing Sanitary by length in linear feet from plugged end to plugged end, 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.0090.80	Abandon Existing Sanitary	LF

Payment is full compensation for excavating and backfilling.

95. Remove Sanitary Sewer, Item SPV.0090.81; Remove Sanitary Lateral, Item SPV.0090.82.

A Description

This work shall consist of removing existing sanitary sewer main and removing existing sanitary lateral as shown on the plans and as herein provided.

B (Vacant)

C Construction

Excavate and remove sanitary sewer and cap/plug sewer pipe ends at locations as shown in the plans using a method approved by the city. Dispose of the removed sanitary sewer pipe.

Excavate and remove sanitary laterals in locations as shown on the plans. Sanitary laterals to be removed are in locations where new sanitary laterals will replace existing sanitary laterals. Remove the entire lateral.

In areas where the existing sanitary sewer and/or sanitary lateral is clay pipe, the clay pipe may be crushed in place if remaining pieces are smaller than 3 inches. Clay pipe pieces shall not be in contact with new pipe.

D Measurement

The department will measure Remove Sanitary Sewer and Remove Sanitary Lateral by length in linear feet from the center of the main to the end of the service, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.81	Remove Sanitary Sewer	LF
SPV.0090.82	Remove Sanitary Lateral	LF

Payment is full compensation for excavating, backfilling, dewatering, sheeting, shoring, for capping/plugging ends.

96. Sanitary Lateral, PVC, 6-Inch, Item SPV.0090.83.

A Description

This special provision describes furnishing and installing new sanitary lateral as shown on the plans and as provided for by these specifications.

B Materials

Furnish Schedule 40 PVC pipe meeting the requirements of ASTM D-2665.

C Construction

Construct sanitary laterals from the wye in the sanitary sewer to the right-of-way. Furnish and install an adapter approved by the city to connect the new sanitary lateral to the existing sanitary lateral at the right-of-way.

Furnish and install 10 Ga. Tracer wire, color coded green, to mark the locations of all sanitary laterals. Furnish and install a Valvco Sewer Tracer Wire Access Box, or equal, at the location where the new sanitary lateral connects to the existing lateral. Loop tracer wire on sanitary laterals from one terminal of the access box following the top of the pipe to the sanitary sewer and then back along the pipe to the other terminal of the access box. Tape tracer wire to the top of the sanitary lateral at 10' intervals.

Backfill with excavated materials in accordance to standard spec 203.3.5.

D Measurement

The department will measure Sanitary Lateral by length in linear feet from the sanitary sewer main to the connection with the existing lateral at the right-of-way, 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.0090.83	Sanitary Lateral, PVC, 6-Inch	LF

Payment is full compensation for furnishing and installing materials, for excavating, backfilling, dewatering, sheeting, and shoring.

97. Sanitary Sewer, 8-Inch, Item SPV.0090.84; Sanitary Sewer, 10-Inch, Item SPV.0090.85; Sanitary Sewer, 12-Inch, Item SPV.0090.86.

A Description

This special provision describes furnishing and installing new sanitary sewer main as shown on the plans, in accordance to the “Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, dated December 22, 2003, with Addendum No. 1 dated December 22, 2004, and Addendum No. 2 dated April 22, 2008”, hereinafter referred to as “Sanitary Sewer and Water Specifications”, as directed by the engineer in the field, and as provide for by these specifications.

B Materials

Furnish PVC pipe, SDR 35, with rubber gasket joints, meeting the requirements of ASTM D3034.

C Construction

The location and size of sanitary lateral connections as shown on the plans are approximate. Actual locations and size may vary from what is shown.

Inspect all sanitary pipe during the unloading process. Notify the engineer of all material found defective. The engineer will inspect the pipe and have the right to reject any materials found unsatisfactory. Remove rejected material from the project site.

Perform excavation in accordance to Chapter 3.1.0 of the Sanitary Sewer and Water Specifications. Install pipe using open trench method utilizing a laser beam in accordance to Chpater 3.2.0 of the Sanitary Sewer and Water Specifications.

Grade variation of .01 feet or more will require replacement of pipe at the proper grade. Pipe which has been disturbed or does not conform to said line and grade before final acceptance, shall be removed and relaid by the contractor at the contractors expense.

Fit pipes together so that when laid they will form a sewer with a smooth and uniform invert.

Furnish and install 10 Ga. Tracer wire, color coded green, along the entire length of the pipe to mark the locations of all sanitary sewers. Tape tracer wire to the top of the sanitary sewer at 10’ intervals. Terminate tracer wires in manholes near the lids for easy access.

Maintain sanitary sewer flow at all times during construction.

Dewater trenches, if required in accordance to the special provision for dewatering. All minor trench dewatering as described in the special provisions for dewatering will be incidental to the construction.

Backfill with excavated materials in accordance to standard spec 203.3.5.

Upon completion of sanitary sewer construction, televise all new sewer mains. Provide DVD results to the City of Clintonville. The cost of televising will be incidental to sanitary sewer construction.

Perform deflection tests on all PVC pipe. Conduct the test after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5 percent. Run the test using a mandrel having a diameter equal to 95 percent of the inside diameter of the pipe.

D Measurement

The department will measure Sanitary Sewer (Size) by length in linear feet from center of manhole to center of manhole, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.84	Sanitary Sewer, 8-Inch	LF
SPV.0090.85	Sanitary Sewer, 10-Inch	LF
SPV.0090.86	Sanitary Sewer, 12-Inch	LF

Payment is full compensation for furnishing and installing materials, and for excavating and backfilling.

98. Sanitary Sewer Staking, Item SPV.0090.87.

A Description

This special provision describes the contractor-performed construction staking to establish the horizontal and vertical position for sanitary sewer as shown on the plans and as provided by these specifications.

B (Vacant)

C Construction

Perform construction staking for sanitary sewer in accordance to standard spec 650.3.1. Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate all pipe and manholes to within 0.02 feet horizontally, and establish the elevations to within 0.01 feet vertically.

Submit all survey notes and computations used to establish the required lines and grades to the engineer within 21 days of completing this work used to establish the required lines and grades to the engineer within 21 days of completing this work.

D Measurement

The department will measure Sanitary Sewer Staking by the linear foot, acceptably completed, measured along the centerline of the sanitary sewer.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.85	Sanitary Sewer Staking	LF

The department will not make final payment for any staking item until the contractor submits all survey notes and computations.

Payment is full compensation for locating and setting all construction stakes; for relocating and resetting damaged or missing construction stakes, including stakes for furnishing all pipe and manholes.

99. Scour Protection, Item SPV.0105.01.

A Description

This special provision includes all work associated with providing and installing the required materials in accordance to plan details, to prevent scour in the Pigeon River streambed. Work includes installing and removing an acceptable barrier system, excavating, dewatering, placing granular bedding, installing grout mats, grout bags, light riprap and heavy riprap.

B Materials

Grout

Furnish grout that consists of a mixture of portland cement, 6±1 percent air entrainment by volume, mortar sand aggregate, additives, and water proportioned to provide a pumpable mixture. Grout shall meet the 28 day compressive strength requirements specified in the plans or 3,000 psi minimum, whichever is greater. Use grout cubes or 3"x6" cylinders for the Compressive strength test. Submit the mix design and laboratory test results to the engineer for approval prior to proceeding with the work.

Grout Mats

Grout mats shall be made of high strength water permeable fabric of nylon and/or polyester sewn into a series of pillow-shaped compartments that are connected intermittently by ducts. Mats shall have a nominal thickness when filled with grout of the size specified. Each mat shall be provided with a self closing inlet valve to accommodate insertion of the grout pumping hose. Grout mat shall have cables laced through the grout ducts of each mat pillow in each direction creating an interlocking grid. Cables shall be installed prior to filling with grout. Where necessary, cables shall be joined by means of

copper connectors providing a minimum of 80% of the breaking strength of the cable. Aluminum connectors in direct contact with grout will not be permitted. Cables shall be low elongation continuous filament polyester fiber, with a core contained within an outer jacket. The core should be between 65 and 75 % of the total weight of the cable. The cables shall meet or exceed the following properties for the mat thickness specified:

Property	Units	Mat Thickness		
		4"	6"	8"
Cable Nominal Diameter	Inches	1/4	11/32	5/16
Cable Average Breaking Strength	lbf	3700	4500	5200

Grout mat fabric shall meet or exceed the following properties:

Property	Test Method	Units	Specified Minimum
Wide-Width Strip Tensile Strength – Machine Direction (MD)	ASTM D 4595	lbf/in	140
- Cross Machine Direction (CD)	ASTM D 4595	lbf/in	110
Trapezoidal Tear Strength – – Machine Direction (MD)	ASTM D 4533	lbf	125
- Cross Machine Direction (CD)	ASTM D 4533	lbf	100

Fabric porosity and limited cement lost through fabric is essential to the successful execution of this work. Suitability of fabric and grout design shall be demonstrated by injecting the proposed grout mix into three 24-inch long by approximately 6-inch diameter fabric sleeves under a pressure of not more than 15 psi which shall be maintained for not more than 10 minutes. A 12-inch long test cylinder shall be cut from the middle of each cured test specimen and tested in accordance to ASTM C39. The average seven day compressive strength of the grout within the fabric shall be at least equal to that of standard companion test cylinders made in accordance to ASTM C31. In lieu of the above testing requirements the Contractor may submit test results from past successful projects and manufacturers test results to the engineer for approval prior to proceeding with the work.

Grout Bags

Grout bags shall be made of high strength water permeable fabric of nylon and/or polyester. Each bag shall be provided with a self closing inlet valve to accommodate insertion of the grout pumping hose. Seams shall be folded and double stitched. Grout bags shall have length, width, and thickness as defined on the plans. Alternate sizes require approval of the engineer.

Grout bag fabric shall meet or exceed the following properties:

Property	Test Method	Units	Specified Minimum
Wide-Width Strip Tensile Strength – Machine Direction (MD)	ASTM D 4595	lbf/in	190
- Cross Machine Direction (CD)	ASTM D 4595	lbf/in	140
Trapezoidal Tear Strength – – Machine Direction (MD)	ASTM D 4533	lbf	100
- Cross Machine Direction (CD)	ASTM D 4533	lbf	115

Fabric porosity and limited cement lost through fabric is essential to the successful execution of this work. Suitability of fabric and grout design shall be demonstrated by injecting the proposed grout mix into three 24-inch long by approximately 6-inch diameter fabric sleeves under a pressure of not more than 15 psi which shall be maintained for not more than 10 minutes. A 12-inch long test cylinder shall be cut from the middle of each cured test specimen and tested in accordance to ASTM C39. The average seven day compressive strength of the grout within the fabric shall be at least equal to that of standard companion test cylinders made in accordance to ASTM C31. In lieu of the above testing requirements the Contractor may submit test results from past successful projects and manufacturers test results to the engineer for approval prior to proceeding with the work.

Riprap

Meet requirements as specified in standard spec 606.2.1.

Granular Bedding

Meet requirements as specified in standard spec 209.2 for Grade 1.

C Construction

General

Perform all work in a dry condition. Include the proposed method for preparing and dewatering the worksite in the ECIP (Erosion Control Implementation Plan).

Construct, and subsequently remove, all necessary cofferdams and cribs or well-point systems, and the necessary sheeting, shoring, bracing, draining, and pumping to allow construction in the dry. Do not use stream diversions and earth dikes instead of specified cofferdams or well-point systems, unless the engineer authorizes in writing.

Maintain channel flow between the new pier and the south abutment. Obstructions to channel flow are not permitted beyond four feet south of the the south face of the newly constructed pier while performing the work associated with this bid item. Remove all river flow obstructions within 14 calendar days of beginning initial installation.

Provide a minimum overtopping elevation of 800 feet, for all temporary barriers installed for the purpose of maintaining a dry work area.

Prepare the streambed and each subsequent layer in a manner satisfactory to the engineer prior to placing the next layer of material. Each layer shall be reasonably level and free of logs, stumps, rock and other obstructions that may prohibit adequate placement and performance of the succeeding layer.

Excavation

Meet requirements as specified in standard spec 205.2.

Excavations shall not extend beyond the construction limits unless directed by engineer.

Grout Mats

Place the grout mat as shown on the plan and as directed by the engineer. Make appropriate allowance for contraction of fabric mat resulting from grout injection. Begin grout placement at the toe of the slope or lowest elevation of the mat. Temporary rods or other devices may be used to hold the mats in place and to maintain the desired final shape. Remove temporary materials after grout has reached self supporting strength.

Grout Bags

Place the grout bags as shown on the plan and as directed by the engineer. Position and fill the bags so that they abut tightly to each other and to the substructure units. Make appropriate allowance for contraction of fabric bag resulting from grout injection. Temporary rods, fencing, forms, etc. may be used to hold the bags in place and to maintain the desired final shape. Remove temporary materials after grout has reached self supporting strength.

Riprap

Perform all work in accordance to standard spec 606.3.

Place riprap in a manner to prevent damage to the underlying Grout Mat and Grout Bags.

Placing Granular Bedding Material

Prior to completing placement of the granular bedding material, wash the granular bedding material into the riprap with water to fill riprap voids. Install additional granular bedding material as necessary and repeat the washing procedure until voids are filled. Upon acceptance by the project engineer, restore displaced granular material with additional granular material to the elevation indicated in the project plans and level the surface consistent with the existing adjacent streambed.

Compact the streambed using standard compaction methods as defined in standard spec 207.3.6.2.

Dewatering

Coordinate operations to minimize the amount of water disturbance when preparing and maintaining a dry work area.

Water resulting from preparing and maintaining a dry work area may be discharged directly into the Pigeon River, providing the water removal method meets the approval of the project engineer. Method for water removal shall ensure discharge water quality, equal to, or better than, the adjacent Pigeon River, in terms of sediment amounts and chemical composition. Discharging water shall result in no disturbance of the existing river bed.

Discharged water containing sediment from the river bed will be considered wastewater and shall meet requirements for treatment as specified in these provisions under the item, Hauling and Disposal of Dredged Material.

D Measurement

The department will measure Scour Protection 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.0105.01	Scour Protection	LS

Payment is full compensation for all excavation, preparing each layer, placing grout mats, grout bags, light riprap, heavy riprap and granular bedding material; handling, testing, treating of the wastewater; and all work associated with maintaining a dry work area.

100. Railing Steel Type C5 Galvanized B-68-131, Item SPV.0105.02.

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.

B.1 Coating System

B.1.1 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.

B.1.2 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. Time¹ Between Coats (hours)
<u>Sherwin Williams</u> 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
<u>Carboline</u> 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
<u>Wasser Corporation</u> 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
<u>PPG Protective and Marine Coatings</u> 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.

B.2 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

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. If 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.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to coated surfaces, touch-up the surface in conformance with the manufacturer's recommendations. If damage is excessive, the 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 Type C5 Galvanized B-68-131 as a single lump sum unit of work for each structure where railing is 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	Railing Steel Type C5 Galvanized B-68-131	LS

Payment is full compensation for fabricating, galvanizing, painting, transporting, and installing the railing, including any touch-up and repairs.

101. Remove and Salvage Traffic Signals STH 22 and 12th Street, Item SPV.0105.20.

A Description

This special provision describes removing and salvaging traffic signals in accordance to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Inventory the quantity and condition of the traffic signals, traffic signal cabinet, lighting equipment, and pull box frames and covers prior to removal. Provide the engineer and the City of Clintonville Public Works Manager with a copy of the inventory.

Notify Brian Ellickson with the City of Clintonville Electric Utility, at (715) 823-7600 (Office) or (715) 250-2870, at least two working days prior to the desired starting date for the removal of the traffic signals. The city's electric utility will de-energize the signals. The city's electric utility will verify that the traffic signals have been de-energized and will then notify the engineer.

Remove and salvage the traffic signals, traffic signal cabinet, and pull box frames and covers, following notification by the engineer to do so, in such a manner that they are not damaged.

Remove the traffic signal standards and poles and traffic signal cabinet from their concrete bases. Remove the attached transformer bases, trombone arms, and luminaire arms from the standards or poles. Access hand hole doors and hardware shall remain intact. Remove the pull box frames and covers from the corrugated pipe. Remove the traffic signal cabinet internal modules from the cabinet.

Carefully stockpile the salvaged equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Salvaged items shall be stored and protected from damage until ready for pick up by the City of Clintonville. Any damage to the salvaged materials resulting from the removal and salvaging operations shall be repaired or replaced in-kind at the contractor's expense. Contact the City of Clintonville Public Works Manager, (715) 823-7685, a minimum of two business days prior to pick up by the city.

Remove and dispose the underground cable, wires, and conduits. Underground cable, wires, and conduits shall become the property of the contractor to be disposed of properly.

D Measurement

The department will measure Remove and Salvage Traffic Signals (Location), as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.20	Remove and Salvage Traffic Signals STH 22 and 12 th Street	LS

Payment is full compensation for inventorying; disconnecting the wiring of the traffic signals and traffic signal cabinet; removing and disassembling the traffic signals and traffic signal cabinet; removing the pull box frames and covers; hauling and storing at the designated on-site location; removing and disposing of underground cable, wires, and conduit.

102. Traffic Signal Control Cabinet and Controller STH 22 and 12th Street, Item SPV.0105.21.

A Description

This special provision describes furnishing and installing a NEMA TS2 Type 1 traffic signal control cabinet on a concrete base as shown on the drawings and in accordance to this special provision, and as hereinafter provided.

B Materials

B.1 General

Provide the project plans and specifications to the Traffic Signal Control Cabinet and Controller vendor at least 18 weeks prior to scheduled field installation. Coordinate directly with the Traffic Signal Control Cabinet and Controller vendor to schedule the cabinet delivery date and time to the project site location. Notify the City of Clintonville Public Works Department at (715) 823-7685 at least five working days prior to cabinet delivery.

Coordinate directly with the Traffic Signal Control Cabinet and Controller vendor to schedule the cabinet acceptance testing. Notify the City of Clintonville Public Works Department at (715) 823-7685 and participate in the acceptance testing. The City of Clintonville has the final determination of the cabinet acceptance testing date and time. The acceptance testing procedures will be provided by the City of Clintonville.

The department shall not be responsible for project delays and costs due to the delays of delivery by the vendor or by the failure of the Traffic Signal Control Cabinet and Controller to pass acceptance testing.

Provide all other needed materials in conformance with standard specs 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

B.2 Cabinet

B.2.1 Cabinet Design

- (1) Furnish a door-in-door ground mounted (without anchor bolts) aluminum cabinet of clean-cut design and appearance. Provide a cabinet of minimum size 44 inches wide, minimum 24 inches deep, and minimum 52 inches to maximum 60 inches high. The size of the cabinet shall provide ample space for housing the controller, all of the associated devices which are to be furnished with the controller, all other auxiliary devices herein specified, and all equipment to be furnished as listed in the materials section of this specification.
- (2) The cabinet shall comply with the environmental and operating standards outlined in the NEMA TS2 Standard. The cabinet shall provide reasonable vandalism protection. The cabinet shall have a NEMA 3R rating.

- (3) Construct the cabinet from type 5052-H32 aluminum with a minimum thickness of 0.125 inches. Furnish the cabinet with a natural, uncoated, aluminum finish inside and outside. Continuously weld all seams. The surface shall be smooth, free of marks and scratches. Use stainless steel for all external hardware.
- (4) On the top of the cabinet, incorporate a 1-inch slope toward the rear to prevent rain accumulation. Incorporate a rain channel into the design of the main door opening to prevent liquids from entering the enclosure.
- (5) Include an exhaust plenum with a vent screen into the roof of the cabinet. Perforations in the vent screen shall not exceed 0.125 inches in diameter.
- (6) Equip the lower section of the cabinet door with a louvered air entrance. The air inlet shall be large enough to allow sufficient air flow per the rated fan capacity. Louvers must satisfy the NEMA rod entry test for Type 3R ventilated enclosures. Secure a washable, fiberglass, removable air filter to the air entrance. The filter shall fit snugly against the cabinet door wall.
- (7) Attach an aluminum, easily removable, gasketed cover over the air filter and louver.

B.2.2 Doors

- (1) The cabinet door opening shall be a minimum of 80 percent of the front surface of the cabinet. The main door and police door-in-door shall each close against a weatherproof and dust-proof, closed-cell neoprene gasket seal. The gasket material for the main door shall be a minimum of 0.188 inches thick by 1.00 inch wide. The gasket material for the police door shall be a minimum of 0.188 inches thick by 0.500 inches wide. Permanently bond the gaskets to the cabinet.
- (2) Equip the main door with a three-point latching mechanism. The upper and lower locking points of the latching mechanism shall each have a pair of nylon rollers. The handle on the main door shall utilize a shank of stainless steel 3/4 inches minimum diameter. The handle shall include a hasp for the attachment of an optional padlock. The cabinet door handle may turn either clockwise or counterclockwise to open, and shall not extend outwards past the edge of the door at any time. Position the lock assembly so the key will not cause any interference with the handle, or a person's hand on the handle, when opening the cabinet door.
- (3) Include on the main door a solid stainless steel rod stop and catch mechanism capable of rigidly holding the door open at approximately 90, 120, and 180 degrees under windy conditions. The operator must be able to engage and disengage the catch with a shoed or booted foot.
- (4) The main door hinge shall be a one-piece, continuous piano hinge with a minimum 0.25 inch stainless steel pin running the entire length of the right side of the door (right-handed). Attach the hinge in such a manner that no rivets or bolts are exposed.

- (5) Equip the main door with a brass Corbin tumbler lock No. 2, swing away dust cap, and provide two keys No. 2. Equip the police door-in-door with a standard police lock and provide one key. Electrically bond the door to the rest of the cabinet with a braided copper grounding conductor. The length of the grounding conductor shall allow the door to swing fully open, without using the stop bar, without stretching or breaking the grounding conductor. The grounding conductor shall not interfere with normal door operation.
- (6) Provide a door switch for the main cabinet door. When the door is opened the switch shall send a signal to the controller sufficient for the controller to log an alarm.

B.2.3 Shelves and Mountings

- (1) Mount a minimum of three vertical "C" channels, compatible with Unistrut channel nuts, on each interior side wall of the cabinet for the purpose of mounting the cabinet components. The channels shall accommodate spring mounted nuts or studs. Install three vertical "C" channels or three slotted rails on the interior back wall of the cabinet. All mounting channels and rails shall extend to within 7 inches of the top and bottom of the cabinets and shall be of sufficient strength to rigidly hold specified shelves and equipment.
- (2) Provide two full-width, 11-inch deep, fully adjustable, aluminum shelves to support the controller and other equipment. Mount the lower shelf at a height above the bottom of the cabinet such that the shelf and attached drawer does not interfere with the ability to tilt the terminal facility forward on its hinges for maintenance purposes. Mount the top shelf at least 13 inches above the surface of the lower shelf.
- (3) Locate the controller and MMU on the top shelf. Locate the loop detector racks and other auxiliary equipment on the lower shelf. The power supply may be mounted on either shelf. Provide an under-shelf drawer under the lower shelf. The drawer shall be approximately 20 inches wide and the full depth of the shelf. The drawer shall operate easily and smoothly, and shall have a stop to prevent inadvertently pulling the drawer out of its support. Design the stop to allow purposeful complete removal of the drawer without the use of tools.

B.2.4 Auxiliary Cabinet Equipment

- (1) Ventilate the cabinet by means of a 120 VAC, 60HZ, tube axial compact type fan located in the top of the cabinet plenum. The fan's free delivery airflow shall be equal to or greater than 100 cubic feet per minute. The magnetic field of the fan motor shall not affect the performance of control equipment. The fan bearings shall operate freely. The fan unit shall not crack, creep, warp, or have bearing failure within a seven year duty cycle. The maximum noise level shall be less than 40 decibels. The fan unit shall be corrosion resistant. The thermostat's turn on setting shall be adjustable from 90 to 120 degrees F. The fan shall run until the cabinet temperature decreases below the turn-on temperature setting by approximately 30 degrees F. The fan shall be fused.

- (2) Mount an incandescent lamp and socket in the cabinet to sufficiently illuminate the field terminals. Wire the lamp to a 15-amp ON/OFF toggle switch mounted on the rear cover of the police panel as specified in the Cabinet Switches section of this specification.
- (3) Provide a 250 watt element heater. Install the heater on the face of the aluminum, louvered air filter cover such that feed air is supplied through the cover. Provide a protective, ventilated cover over the heater. Provide a cord and twist-off plug to an electrical receptacle on the cabinet door. Provide a thermostat with an adjustable setting from 0 to 100 degrees F. Install the thermostat on the interior ceiling of the cabinet well away from the cabinet light or any heat source. Provide a thermal limit switch to prevent the heater's protective cover from exceeding 170 degrees F.

B.3 Terminals and Facilities

B.3.1 Terminal Facility

- (1) The terminal facility panel shall be constructed from 5052-H32 brushed aluminum of 0.125 inches minimum thickness and formed so as to eliminate any flexing when plug-in components are installed.
- (2) Mount the bottom of the terminal facility a minimum of nine inches from the bottom of the cabinet. Hinge the terminal facility at the bottom to allow easy access with simple tools to all wiring on the rear of the panel. It shall not be necessary to remove the lower shelf, the shelf drawer, or any shelf-mounted equipment to hinge down the terminal facility. Provide sufficient slack in the load bay wiring to allow for dropping the load bay.
- (3) Fully wire the terminal facility with sixteen load switch sockets: eight phases of vehicular, four phases of pedestrian, and four phases of overlap operation; eight flash transfer relay sockets; one flasher socket; and two terminal facility BIU rack slots. The use of printed circuit boards is not acceptable on the terminal facility, except printed circuit boards are acceptable for the BIU interface with the load bay. Position the 16 load switch sockets in two horizontal rows of eight sockets each. Support the load switches and flasher by a bracket or shelf extending at least three inches from the terminal facility.
- (4) Label all terminals, load switches, and flash transfer relay sockets. Label reference designators by silk-screening on the front and rear of the terminal facility to match drawing designations.
- (5) Provide rack mounted BIU's. Provide a dual-row, 64-pin female DIN 41612 Type B connector for each BIU rack position. Provide card guides for both edges of the BIU. Terminal and facilities BIU mounting shall be an integral part of the terminal facility.

- (6) Provide two each 16-channel, 8-position, TS2 detector racks, each with an integrally mounted BIU mounting. Racks shall be addressable. Power each detector rack by the cabinet power supply. Fasten the loop detector racks towards the left side of the lower shelf.
- (7) For BIU rack connectors, provide pre-wired address pins or jumper plugs corresponding to the requirements of the NEMA TS2 Standard. The address pins or jumper plugs shall control the BIU mode of operation. BIUs shall be capable of being interchanged with no additional programming.
- (8) For the terminal facility, contain all field wires within one or two rows of horizontally-mounted Marathon heavy duty terminal blocks. Terminate all field output circuits on an unfused terminal block with a minimum rating of 10 amps. Use mechanical connector lugs rated for copper wire. Angle the lower section of the terminal block out from the back of the cabinet at approximately a 45 degree angle.
- (9) Identify all field input/output (I/O) terminals by permanent alphanumeric labels. All labels shall use standard nomenclature per the NEMA TS2 Standard.
- (10) All field flash sequence programming at the field terminals shall be able to be accomplished with the use of only a screwdriver.
- (11) Wire field terminal blocks to use three positions per vehicle or overlap phase (green, yellow, red).
- (12) Wire one RC network in parallel with each flash transfer relay coil.
- (13) Permanently label all logic-level, NEMA-controller and MMU input and output terminations on the terminal facility. Identity the function of each terminal position on the cabinet drawings.
- (14) Terminal blocks for DC signal interfacing shall have a number 6-32 x 7/32 inch screw as minimum. Functions to be terminated shall be as specified in the listing of Input/Output Terminals in Section 5 of the NEMA TS2 Standard.
- (15) Conform all terminal facility and cabinet wiring to the WSEC. The green/ walk, yellow, and red/don't walk load switch outputs shall be minimum 16 gauge wire. The MMU (other than AC power), controller I/O, and logic ground shall be minimum 22 gauge wire. All wire colors shall be consistent.

B.3.2 Auxiliary Panels

B.3.2.1 Vehicle Detection Interface Panel

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

- (2) Provide a ground bus terminal between each loop pair terminal to provide a termination for the loop lead-in cable ground wire. Secure the interface panels to a mounting plate attached to the left interior side wall of the cabinet.
- (3) Provide a cable consisting of 20 AWG twisted pair wires to enable connection to and from the interface panel to a detector rack. The twisted pair wires shall be color-coded wires. Provide a cable of sufficient length to allow the detector rack to be placed on either shelf.
- (4) Identify all termination points by a unique number silk screened on the panel.

B.3.2.2 Intersection Lighting

- (1) Provide an intersection lighting control panel as described. The intersection lighting control panel shall consist of an aluminum panel 0.125 inches thick and approximately 5 inches by 10 inches. Determine the actual panel size by the cabinet's mounting rail placement. Attach to the panel a 2 pole-30 amp contactor-120vac coil (Square D #8910DPA32V02 or equal), and a heavy duty six position terminal block (Marathon DJ1606 or equal). Use wire sizes 10AWG for power and load wiring, and 16AWG for control wires. Wire the terminal strip as follows:
 - 1. Control coil
 - 2. L1 in
 - 3. L2 in
 - 4. Neutral in and control coil
 - 5. L1 out
 - 6. L2 out
- (2) Protect each output by a MOV (V150LA20A) wired between the output and neutral. Include a photo control (Intermatic #K4021C or equal). Mount the photo control just above the cabinet door and approximately 12 inches from the right side of the cabinet. Wire the photo control to a 3 position terminal strip using 16AWG wire color coded to match the photo control wiring connected to the intersection lighting control panel.

B.3.3 Conductors and Cabling

- (1) All conductors in the cabinet shall be copper 22 AWG or larger. All 14 AWG and smaller wire shall conform to MIL-W-16878/1, Type B, 600V, 19-strand tinned copper. The wire shall have a minimum of 0.010 inches thick PVC insulation without clear nylon jacket and rated to 105 degrees Celsius. All 12 AWG and larger wire shall be UL or NRTL listed THHN/THWN 90 degrees Celsius, 600V, 0.020 inches thick PVC insulation, and clear nylon jacketed.
- (2) Provide controller and MMU cables of sufficient length to allow the units to be placed on either cabinet shelf in the operating mode. Connecting cables shall be sleeved in a braided nylon mesh. Exposed tie-wraps and interwoven cables are unacceptable.

- (3) Provide the cabinet configuration with enough SDLC RS-485 Port 1 communication cables to allow full capabilities of that cabinet. Each communication cable connector shall be a 15-pin metal shell D subminiature type. The cable shall be a shielded cable suitable for RS-485 communications. Secure all connecting cables and wire runs by mechanical clamps. Stick-on type clamps are not acceptable.
- (4) Pre-wire the terminal facility for a Type 16 MMU.
- (5) All wiring shall be neat in appearance. Stow excess cable behind the terminal facility or below the shelves in order to allow easy access to the terminal facility and cabinet components. All cabinet wiring shall be continuous from its point of origin to its termination point. Butt type connections/splices are not acceptable.
- (6) Wire the grounding system in the cabinet into three separate circuits: AC Neutral, Earth Ground, and Logic Ground.
- (7) Optoisolate all pedestrian pushbutton inputs from the field to the controller through the BIU and operate at 12 VAC.
- (8) Hook or loop all wire, size 16 AWG or smaller, at solder joints around the eyelet or terminal block post prior to soldering to ensure circuit integrity. Lap joint soldering is not acceptable.

B.3.4 Cabinet Switches

- (1) Locate the following switches on a maintenance panel on the inside of the cabinet door:
 - a. Controller On/Off
 - b. Cabinet Light
 - c. Stop Time (Three Position)
 - d. Manual Detector Switches (Three Position)
- (2) Position Switch Label Function
- (3) Upper Stop Time Place stop time on the controller
- (4) Center Run Remove the stop time input to the controller
- (5) Lower Normal Connects the MMU to the controller stop time input
- (6) Locate the following switches behind the police access door:
 - a. Signal/Off
 - b. Flash/Normal
 - c. Hand/ auto
 - d. Coiled hand control and cable

- (7) The above switches shall function as follows:
Off: Signals Dark
Signal: Signals On and operating as follows:
Auto Hand
Flash: Signals Flash Signals Flash
Normal: Signals Normal Signals Advance by use of hand control
- (8) Provide manual detector switches. Provide a minimum of 16 vehicle detector switches, and four pedestrian detector switches. The switches shall be spring loaded and automatically return to the center position. Wire the vehicle detector switches to detector BIU slot 1. Wire the pedestrian switches to the T&F BIU slot 1. The switches shall operate as follows:
- | Position | Function |
|----------|-------------------|
| Up | Detector Disabled |
| Center | Detector Enabled |
| Down | Detector Called |

B.4 Power Panel

B.4.1 Power Panel Design

- (1) The power panel shall consist of a separate module, securely fastened to the interior right side wall of the cabinet. Wire the power panel to provide the necessary power to the cabinet, controller, MMU, cabinet power supply, and all auxiliary equipment. Manufacture the power panel from 0.090-inch, 5052-H32 aluminum. Panel layout shall facilitate field inspection and maintenance accessibility without excessive disassembly or special tools.
- (2) Provide a light, tough, transparent, weather-resistant, non-yellowing, thermoplastic cover, rigidly mounted over the full power panel, with access holes for circuit breakers and other equipment, and open on the sides for ventilation.

B.4.2 Bus Bar

- (1) Provide a minimum 20-position neutral bus bar capable of connecting three #12 AWG wires per position.

B.4.3 Circuit Breakers

- (1) House in the power panel the following vertically mounted, single pole, 120 volts AC, 60 Hertz, circuit breakers, with the ON position being up:
- One 30-amp signal breaker. This breaker shall supply power for all cabinet functions not powered through one of the other breakers or fuses listed below. Streetlights will be powered from outside the cabinet in the meter breaker pedestal. This breaker shall feed a signal bus supplied through a solid state bus relay and a radio interference line filter. The bus relay, in all cases, shall be a solid state contactor and shall not be jack mounted. Breakers shall be thermal magnetic type, UL or NRTL listed, with a minimum of 22,000 amp interrupting capacity.

- b) One 15-amp auxiliary breaker. This breaker shall supply power to the fan and heater.
 - c) One 10-amp breaker. This breaker shall supply power for control equipment: controller, MMU, and cabinet power supply.
 - d) One 20-amp circuit breaker for future use.
- (2) Power the cabinet light through the GFI fuse, not a circuit breaker.

B.4.4 Radio Interference Suppressor

- (1) Equip each control cabinet with a single radio interference suppressor (RIS) of sufficient ampere rating to handle the load requirements. Install the RIS at the input power point. The RIS shall minimize interference in both the broadcast and the aircraft frequencies, and shall provide a maximum attenuation of 50 DB over a frequency range from 200 KHZ to 75 MHZ, when used in connection with normal installations. The RIS shall be hermetically sealed in a substantial metal case filled with a suitable insulating compound. The terminals shall be nickel-plated brass studs of sufficient external length to provide space to connect two #8 AWG wires and shall be so mounted that they cannot be turned in the case. Ungrounded terminals shall be properly insulated from each other, and shall maintain a surface leakage distance of not less than 6.35 mm between any exposed current conductor and any other metallic parts. The terminals shall have an insulation factor of 100-200 megohms dependent upon external conditions. The RIS shall be rated at minimum 50 amperes. Design the RIS for operation on 115 VAC +/- 10%, 60HZ, singlephase circuits, and to meet the standards of UL or a NRTL and Radio Manufacturer's Association.

B.4.5 Bus Relay

- (1) Provide a normally-open, 60 amp, solid state relay.

B.4.6 Surge Protector

- (1) Install a plug-in type EDCO SHA-1250, or Atlantic/Pacific approved equal, surge protector across the load terminal of the 10-amp circuit breaker. Install a General Electric Varistor, catalog #V130PA20A, at the load terminals of the circuit breaker from the hot line to the grounded current carrying neutral conductor

B.4.7 Power Receptacles

- (1) Mount a 120 VAC 20 amp, NEMA 5-20R GFCI convenience outlet at each of these two locations:
- On the interior right side wall above the power panel. The outlet shall be fully operational and fuse protected.
 - Near the power panel where it will not interfere with power panel maintenance. This outlet is to be wired by field installation personnel.

B.4.8 Suppressors and RC Network

- (1) Provide a suppressor for each 120 VAC circuit that serves an inductive device, such as a fan motor or a mechanical relay, to protect the controller's solid state devices from excessive voltage surges. Such suppressors shall be in addition to the surge protector at the input power point.
- (2) Wire one RC network in parallel with each inductive device.

B.5 Auxiliary Devices

B.5.1 Load Switches

Provide solid state load switches conforming to the requirements of section 6.2 of the NEMA TS2 Standard.

B.5.2 Flashers

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

B.5.3 Flash Transfer Relays

- (1) Provide flash transfer relays conforming to the requirements of section 6.4 of the NEMA TS2 Standard.

B.5.4 Inductive Loop Detector Units

- (1) Provide inductive loop detector units conforming to the requirements of section 6.5 of the NEMA TS2 Standard for 2-channel, rack mount detector units, type C.

B.5.5 Cabinet Power Supply

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

B.6 Bus Interface Units (BIU)

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

B.7 Malfunction Management Unit (MMU)

- (1) Provide one shelf-mountable, 16 channel, solid-state MMU with Ethernet capability. The MMU shall meet the requirements of Section 4 of the NEMA TS2 Standard. The MMU shall be capable of the following:
 - Detecting simultaneously active inputs of Green (Walk), Yellow, or Red (Don't Walk) on the same channel.
 - Determining if the field signal input states detected as active or inactive by the MMU correspond with the data provided by the Controller Unit.

- Monitoring an optional external watchdog output from a Controller Unit or other external cabinet device.
 - Monitoring an intersection with up to four approaches using the Flashing Yellow Arrow (for protected/permissive left and right turn movements).
 - Event logging for the following; AC Line log, Prior/Previous Faults log, and Monitor Reset Log. All log entries shall include a date and time stamp.
 - All monitor functions shall be capable of being programmed through the front panel, without the need for computers or special programs cards.
 - A built-in Diagnostic Wizard shall be provided that displays detailed diagnostic information regarding the fault being analyzed. This mode shall provide a concise view of the signal states involved in the fault, pinpoint faulty signal inputs, and provide guidance on how the technician should isolate the cause of the malfunction.
- (2) The MMU shall have an LCD display that allows for viewing of log files and field indications, as well as the viewing and setting of date and time and configuration parameters.

B.8 Traffic Signal Controller

Provide a fully actuated, solid state, digital microprocessor based EPAC 3108M51 controller capable of providing the number and sequence of phases, overlaps, and any special logic as described herein. The controller unit shall meet and be operational for, the NEMA TS2 Standard, Section 3, specifications for the Type 1 Actuated (A1) configuration. The controller unit shall be capable of being upgraded by only a firmware/software installation to meet and be operational for the NEMA TS2 Standard, Section 3, specifications for the Type 1 Actuated/ NTCIP (A1N, Level 2) configuration.

C Construction

Perform work in accordance to standard specs 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

All components shall be assembled, mounted, and connected in the traffic signal control cabinet per the plans. The controller shall be firmly mounted to the concrete pad. The assembled controller shall be adjusted, tested, and demonstrated to be operating properly before acceptance.

Request a signal inspection of the completed signal installation to the engineer at least five working days prior to the time of the requested inspection. The City of Clintonville Department of Public Works personnel will perform the inspection.

D Measurement

The department will measure Traffic Signal Control Cabinet and Controller (Location) as a single lump sum unit of work in place, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.21	Traffic Signal Control Cabinet and Controller STH 22 and 12 th Street	LS

Payment is full compensation for furnishing and installing traffic signal control cabinet and controller; for furnishing and installing miscellaneous items such as, but not limited to, wire nuts, splice kits, connectors, tape, insulating varnish, fuses, fuse holders, stainless steel banding, clips, and ground lug fasteners necessary to make the proposed system complete from the source of supply to the most remote unit; cleaning up and disposing of all waste.

Concrete bases including anchor bolts, pull boxes, junction boxes, electrical wire, traffic signal cable, loop detector conduit, wire and lead-in cable, non-metallic conduit, and electrical service items will be measured separately and paid for under the pertinent items provided in the contract.

103. Research and Locate Existing Property Monuments Project 6250-01-70, Item SPV.0105.22; Project 6250-01-76, Item SPV.0105.23.

A Description

This special provision describes researching and locating existing property monuments located within permanent easement, temporary easement or construction permit areas, within the construction limits, that may be lost or disturbed by construction operations, as directed by the engineer, and as hereinafter provided.

This provision does not relinquish the contractor of his responsibility under standard spec 107.11.

B (Vacant)

C Construction

Prior to construction, research, locate and document the adjacent property monuments located within permanent easement, temporary easement and construction permit areas. Tie the located property monuments in with coordinates accurate to 1:3000 and tied to at least two adjacent section corners that will not be disturbed by any project.

Prepare a property monument location map showing the type of monuments originally found with their coordinates. A legible tax map or right-of-way plat is acceptable as a base map for the property monument location map. Provide a copy of the property monument location map to the engineer and region right-of-way plat coordinator.

All work under this item is to be performed by, or under the direction of, a land surveyor registered in the State of Wisconsin.

After construction is completed property monument locations will be verified and reset, if necessary, under the bid item “Verify and Replace Existing Property Monuments (Project)”.

D Measurement

The department will measure Research and Locate Existing Property Monuments (Project) 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.0105.22	Research and Locate Existing Property Monuments Project 6250-01-70	LS
SPV.0105.23	Research and Locate Existing Property Monuments Project 6250-01-76	LS

Payment is full compensation for furnishing all research, field survey, locating, and recording of field data necessary to locate and determine coordinates for existing property monuments within the construction limits prior to construction; furnishing a registered land surveyor; preparing, annotating and delivering the property monument location map to the engineer.

(NCR 650.01-05202013)

104. Verify and Replace Existing Property Monuments Project 6250-01-70, Item SPV.0105.24; Project 6250-01-76, Item SPV.0105.25.

A Description

This special provision describes verifying the location of, and replacing existing property monuments, which were previously located under the item “Research and Locate Existing Property Monuments (Project)”, that are determined to be lost or disturbed, as directed by the engineer, and as hereinafter provided.

This provision does not relinquish the contractor of his responsibility under standard spec 107.11.

B Materials

Provide replacement property monuments that are one-inch inside diameter by 24-inch long iron pipe or ¾-inch diameter iron rod or rebar that are 24 inches long in locations outside of pavement areas, a Berntsen Steel Nail Marker for placement in asphalt pavement, or a Berntsen BP1 Brass Marker with anchoring plug for placement in concrete pavement.

C Construction

After construction is completed, verify the location of all property monuments previously located under the item “Research and Locate Existing Property Monuments (Project)”. Replace or reset as necessary, any property monuments that are lost or disturbed.

Prepare a property monument location map showing the type of monuments originally found, and the type of replacement monument used to replace or reset the lost or disturbed monuments, with their coordinates. A legible tax map or right-of-way plat is acceptable as a base map for the property monument location map. The property monument location map shall explicitly state that the replaced or reset monuments are not being certified as an actual property monument, only that evidence of a property monument was found and reset. Provide a copy of the property monument location map to the engineer and the county surveyor.

All work under this item is to be performed by, or under the direction of, a land surveyor registered in the State of Wisconsin.

D Measurement

The department will measure Verify and Replace Existing Property Monuments (Project) 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.0105.24	Verify and Replace Existing Property Monuments Project 6250-01-70	LS
SPV.0105.25	Verify and Replace Existing Property Monuments Project 6250-01-76	LS

Payment is full compensation for furnishing all survey work necessary to verify the location of all property monuments previously located under the item “Research and Locate Existing Property Monuments (Project)”; replacing or resetting, as necessary, property monuments that are lost or disturbed from their original location; furnishing property monuments; furnishing a registered land surveyor; preparing, annotating and delivering the property monument location map.
(NCR 650.02-05202013)

105. Water for Seeded Areas, Item SPV.0120.20.

A Description

This special provision describes furnishing, hauling and applying water to seeded areas as directed by the engineer, and as hereinafter provided.

B Materials

Furnish water that is in accordance to the pertinent requirements of standard spec 624.

Use clean water, free of impurities or substances that might injure the seed.

C Construction

Water the seeded area in accordance to standard spec 624 except as hereinafter modified.

If rainfall is not sufficient, keep all seeded areas thoroughly moist by watering or sprinkling to maintain a moist soil condition for the first 30 days after seeding. Apply water in a manner to preclude washing or erosion. Do not leave topsoil un-watered for more than 3 days during this 30-day period unless the engineer determines that it is excessively wet and does not require watering. The equivalent of one inch of rainfall per week shall be considered the minimum.

D Measurement

The department will measure Water for Seeded Areas by volume in thousand gallon units, acceptably completed. The department will determine volume by engineer-approved meters or from tanks of known capacity.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0120.20	Water for Seeded Areas	MGAL

Payment is full compensation for furnishing, hauling, and applying the water.
(NCR 630.04-05202013)

106. Concrete Sidewalk HES 4-Inch, Item SPV.0165.20.**A Description**

This special provision describes constructing high early strength concrete sidewalk in accordance to the requirements of standard spec 602, the details shown in the plans, and as hereinafter provided.

B Materials

Provide concrete that conforms to the requirements for high early strength concrete in accordance to standard spec 501.

C (Vacant)**D Measurement**

The department will measure Concrete Sidewalk HES 4-Inch in square feet of surface area, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.20	Concrete Sidewalk HES 4-Inch	SF

The department will adjust pay for crack repairs on concrete built under standard spec 602 as specified in standard spec 416.5.2 for ancillary concrete.

Payment is full compensation for providing all materials, including concrete, reinforcement, and expansion joints; excavating and preparing the foundation; backfilling and disposing of surplus material; placing, finishing, sawing, protecting, and curing; and restoring the work site.

(NCR 602.03-05202013)

107. Geogrid Reinforcement, Item SPV.0180.01.

A Description

This special provision describes furnishing and installing geogrids for subgrade stabilization, base reinforcement, or pavement structure applications in accordance to the plans, standard spec 645, and as hereinafter provided.

B Materials

Provide geogrid that consists of either single or joined multiple layers of a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The polymer shall consist of polyester, polypropylene, polyamide, or polyethylene. The grid shall maintain dimensional stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. Minimum geogrid width shall be 6.0 feet.

Provide geogrid that complies with the following physical properties:

Test	Method	Value ⁽¹⁾
Tensile Strength at 5% Strain, Both Principal Directions (lb/ft)	ASTM D 4595 ⁽²⁾	450 min.
Flexural Rigidity Both Principal Directions (mg-cm)	ASTM D 1388 ⁽³⁾	150,000 min.
Aperture Area (in ²)	Inside Measurement ⁽⁴⁾	5.0 max.
Aperture Dimension (in)	Inside Measurement ⁽⁴⁾	0.5 min.

(1) All numerical values represent minimum/maximum average roll values, i.e. the average minimum test results on any roll in a lot should meet or exceed the minimum specified value.

(2) The tensile strength (T) of a joined multi-layered geogrid shall be computed using the following equation:

$$T = n(f)t$$

where

n = the number of individual layers in the joined multi-layered geogrid,

t = the tensile strength of a single layer of geogrid as determined using testing method ASTM D4595, and

f = reduction factor based on the number of layers comprising the multi-layered system and determined by the equation $f=1.00 - [0.04(n - 1)]$.

(3) Values shall be determined by Option “A” (Cantilever Test) of testing method ASTM D1388 using test specimens that are 36 inches ± 0.04 inch long. Test specimen widths for differing geogrids shall be variable and equal to 1 element plus $\frac{1}{2}$ the aperture width on both sides of that element. An element is defined as the minimum number of parallel strands that form a distinguishable repeating pattern.

(4) Aperture Area and Aperture Dimension for joined multi-layer geogrids shall be determined based on measurement of a single layer of the geogrid.

Protect the geogrid from ultraviolet radiation and from damage due to shipping and handling. Keep the geogrid dry until it is installed. The geogrid rolls shall be clearly marked to identify the material contained.

Deliver a sample of the geogrid material to the engineer at least 10 days prior to its incorporation into the work. At the same time, furnish a manufacturer’s Certified Report of Test or Analysis that verifies that the geogrid delivered for use on the work meets the above requirements. Samples of geogrid for test purposes will be obtained from the job site for each 10,000 square yards or portions thereof used on the contract.

C Construction

Prior to placement of the geogrid, bring the indicated placement surface to the required lines, grades, and dimensions as shown on the plans. Smooth and shape the surface to eliminate any rocks, clods, roots, or other items that may cause damage to the geogrid during placement or covering.

Place the geogrid on the prepared surface at the locations and to the limits as shown on the plans. After placement, pull the geogrid taut and secure it using pins, clips, staples, or other devices to prevent movement or displacement. Place parallel strips of geogrid with a minimum overlap of 6 inches. Lap butt joints between roll ends a minimum of 12 inches. Fasten all lapped sections together by using ties, straps, clips, or other devices to develop a secure joint that meets the approval of the engineer. No vehicles or construction equipment shall be permitted to operate directly on the geogrid.

Cover small rips, tears, or defects in the geogrid with an additional section of geogrid; secure the additional geogrid in place so that it overlaps the damaged area by at least 3 feet in all directions. Remove and replace geogrid sections with large rips, tears, defects, or other damage at the direction of the engineer. All costs to repair or replace damaged or defective geogrid shall be the responsibility of the contractor.

After placement, cover the geogrid to the indicated depth with the type of material required on the plans or in the special provisions. Placing, spreading, and compacting of this material shall comply with the applicable sections of the standard specifications or special provisions except that the initial lift of material placed on the geogrid must be at least 4 inches. Place, spread, and compact the required backfill material so that the geogrid is not displaced or damaged. The engineer may require changes in equipment and/or operations to prevent such damage or displacement.

D Measurement

The department will measure Geogrid Reinforcement by the square yard of surface area upon which the geogrid has been placed, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Geogrid Reinforcement	SY

Payment is full compensation for furnishing, transporting, and installing the geogrid; furnishing and installing all devices and materials necessary to join or secure the geogrid in place.

108. Preparing Topsoil for Lawn Type Turf, Item SPV.0180.20.

A Description

This special provision describes preparing the bed of topsoil or salvaged topsoil, for seeding or placing sod, in areas designated by the plan.

B (Vacant)

C Construction

Prepare and finish the subgrade so that rocks, concrete debris, or wood larger than three inches in diameter are not present within 1 foot of the finished surface of the topsoil.

Screen topsoil to provide a uniformly textured soil, in which 100 percent of the topsoil passes a one-inch sieve and at least 90 percent passes a No. 10 sieve.

Remove rocks, twigs, clods, and other foreign material that will not break down, and dress the entire surface to present a uniform appearance.

Shape the topsoil so that the horizontal or sloped surface between any two points ten feet apart does not vary by more than one inch. Roll with a turf type roller to a uniform minimum compacted depth of 6 inches.

Shape and compact the topsoil adjacent to pavements, sidewalks and curbs to 1 inch below the top of the abutting surface. Before seeding, correct locations that vary by more than 1/4-inch.

D Measurement

The department will measure Preparing Topsoil for Lawn Type Turf in area by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.20	Preparing Topsoil for Lawn Type Turf	SY

Payment is full compensation for preparing the subgrade and topsoil bed for sod or seed as described above.

(NCR 625.01-07162013)

109. Concrete Driveway Variable Depth, Item SPV.0180.21.**A Description**

This special provision describes constructing variable depth concrete driveway in accordance to the details shown in the plans, the requirements of standard spec 416, and as hereinafter provided.

B Materials

Provide materials that conform to the requirements of standard spec 416.2.

C Construction

Construct in accordance to the requirements of standard spec 416.3 and in accordance to the details shown in the plans.

D Measurement

The department will measure Concrete Driveway Variable Depth in area by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.21	Concrete Driveway Variable Depth	SY

Payment is full compensation as specified in standard spec 415.5.1 for Concrete Pavement.

110. Hauling and Disposal of Dredged Material, Item SPV.0195.01.**A Description****A.1 General**

This special provision describes dewatering, loading, hauling and disposal of dredged material excavated for this project. Dredged materials are a solid waste as defined in S.289.01(33) of state statutes. For this project, dredged material is to be disposed as solid waste at a Wisconsin Department of Natural Resources (WDNR)-licensed solid waste facility approved to accept dredged material.

Perform this work in accordance to section 205 of the standard specifications 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 solid waste.

A.2 Notice to the Contractor

The department completed testing of the sediment where excavation is required for this project. For further information regarding the investigations contact the environmental consultant listed below.

A.3 Coordination With The Environmental Consultant

The Contractor shall coordinate work under this contract with the environmental consultant retained by the Department:

Consultant: TRC Environmental Corporation
Address: 708 Heartland Trail, Suite 3000, Madison, WI, 53717-1934
Contact: Alyssa Sellwood or Dan Haak
Phone: (608) 826-3658 or (608) 826-3628
Fax: (608) 826-3941
E-mail: asellwood@trcsolutions.com or dhaak@trcsolutions.com

The role of the environmental consultant will be limited to:

- Characterizing dredged material for disposal approval;
- Documenting that activities associated with management of dredged material are in conformance with the dredged material management methods for this project as specified herein; and
- Obtaining the necessary approvals for disposal of dredged material from the landfill.

Provide the environmental consultant a copy of the ECIP and notification of the preconstruction meeting, 14 calendar days prior to the meeting. At the preconstruction meeting, provide a schedule for all excavation of dredged material and notify consultant of the disposal facility chosen for the project that is approved to accept dredged sediment. Notify the environmental consultant at least three calendar days prior to commencement of excavation of dredged material.

Select a WDNR-licensed facility that is approved to accept dredged material which will be used for disposal, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation of dredged material or at the preconstruction conference, whichever comes first.

The environmental consultant will be responsible for obtaining the necessary approvals for disposal of dredged material from the selected facility. Do not transport dredged material offsite without approval from the environmental consultant.

A.4 Erosion Control

Supplement standard spec 107.20 with the following:

Include as part of the Erosion Control Implementation Plan (ECIP), as required under Subsection 107.20 of the Standard Specifications, the construction methods for dredged material removal, the proposed location for staging and dewatering activities for removed dredged material, and the means and methods for containment and dewatering.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Contractor is responsible for dewatering, loading, hauling, and disposing of dredged material.

Load, haul, and prepare dredged material for disposal at WDNR-licensed disposal facility. Use loading and hauling practices that prevent any spills or releases of dredged material or residues from point of generation to the disposal site. Satisfy water quality monitoring requirements established for project during dredging and loading of dredged material.

Dewater sediment to meet requirements for transport and disposal. Dewatering approach to be defined in the ECIP. Dewatering shall be accomplished without the addition of drying materials to the sediment, unless approved by the Engineer. Dewatering work will not proceed until necessary permits are in place.

Handle, treat, and test water generated during dewatering of sediment to satisfy waste water discharge and handling requirements within the Wisconsin Administrative Code, Chapters NR 100-299, and the WDNR General Permit to Discharge under the Wisconsin Pollutant Discharge Elimination System (WPDES) for Carriage and/or Interstitial Water Resulting from Dredging Operations (WI-0046558-05-0). Discharged wastewater will need to meet the Effluent Limitations of Total Suspended Solids less than 40 mg/L, Oil and Grease less than 15 mg/L, toxaphene less than 3 µg/L, and chlordane less than 2 µg/L. Treatment may consist of using filter bags and, if necessary, carbon filters. Water handling and discharge approach to be defined in the ECIP. Sediment removed during dewatering of dredged material will be managed and handled as dredged material.

Haul and dispose dredged material at a selected WDNR-licensed disposal facility approved to accept dredged material. The environmental consultant is responsible for obtaining the necessary approvals for disposal from the disposal facility.

Do not transport dredged material off-site without approval of the engineer and the disposal facility. Use loading and hauling practices that prevent any spills or releases of dredged material or residues from point of generation to the disposal site. Verify that vehicles used to transport dredged material are licensed for such activity in accordance to applicable state and federal regulations. All vehicles transporting dredged material shall have sealed and covered containers.

Pay all fees for the disposal of non-hazardous dredged material. The nearest WDNR-licensed solid waste facilities approved to accept dredged material for this contract include:

Waste Management – Ridgeview RDF
6207 Hempton Lake Road
Whitelaw, Wisconsin 54247
(920) 732-4473 Ext. 228

Advanced Waste – Hickory Meadows Landfill
W3105 Schneider Road
Hilbert, Wisconsin 54129
(920) 853-8553

D Measurement

The department will measure Hauling and Disposal of Dredged Material by the ton of material accepted by the disposal facility, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Hauling and Disposal of Dredged Material	TON

Payment is full compensation for all disposal tipping fees and taxes and for the staging, dewatering, loading, hauling, disposing of the dredged material; handling, testing, treating of the wastewater; and all necessary erosion controls associated with handling and disposal in accordance to the contract.

The department will pay for excavation and all necessary erosion control associated with excavation under Excavation for Structures and Scour Protection bid items.

**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 2 (number) TrANS Apprentice(s) be utilized on this contract.

- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.
- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

1. Description

General

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

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

2. Definitions

- a. Interpret these terms, used throughout this additional special provision, as follows:
 - i. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
 - ii. **DBE:** A disadvantaged business enterprise (DBE) certified as a DBE by the department and included on the department's list of certified DBE's who are determined to be ready, willing and able.
 - iii. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
 - iv. **Discretionary Goal:** A contractor assigned DBE goal, typically abbreviated as "Disc" on the cover of the Highway Work Proposal, which is enforced as committed.
 - v. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
 - vi. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
 - vii. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

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

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

4. Department's DBE Evaluation Process

a. Documentation Submittal

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

i. Bidder Meets DBE Goal

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

ii. Bidder Does Not Meet DBE Goal

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

5. Department's Criteria for Good Faith Effort

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

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

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

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

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

6. Bidder's Appeal Process

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

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

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

7. Department's Criteria for DBE Participation

Department's DBE List

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

8. Counting DBE Participation

Assessing DBE Work

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

9. Commercially Useful Function

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

10. Trucking

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

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

11. Manufacturers and Suppliers

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

12. DBE Prime

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

13. Joint Venture

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

14. Mentor Protégé

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will credit the portion of the work performed by the DBE protégé firm
- b. On every other project that the mentor protégé team identifies itself on.
- c. For no more than one half of the total contracted DBE goal on any WisDOT project.

15. DBE Replacement

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

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

16. Changes to the approved DBE Commitment Form DT1506

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

17. Contract Modifications

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

18. Payment

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

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

GFW SAMPLE MEMORANDUM

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

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

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <http://roadwaystandards.dot.wi.gov/hcci/>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternative's are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <http://roadwaystandards.dot.wi.gov/hcci/>

All questions should be directed to:

Project Manager, John Doe,
Phone: (000) 123-4567
Email: Joe@joetheplumber.com
Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTATION

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

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

Prime Contractor 's Contact Person

Phone: _____
Fax: _____
Email: _____

DBE Contractor Contact Person

Phone _____
Fax _____
Email _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

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

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

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

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

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

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

Primes

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

DBE

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

APPENDIX C

Types of Efforts considered in determining GFE

This list represents concepts being assessed; analysis requires additional steps

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

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

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

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

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

Appendix E

Small Business Network [SBN] Overview

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

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

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

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

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

Release of Routine Retainage

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

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

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

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

ADDITIONAL SPECIAL PROVISION 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

455.3.2.1 General

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

- (2) Use tack material of the type and grade the contract specifies. The contractor may, with the engineer's approval, dilute tack material as allowed under 455.2.4. Provide calculations using the asphalt content as-received from the supplier and subsequent contractor dilutions to show that as-placed material has 50 percent or more residual asphalt content. Apply at 0.050 to 0.070 gallons per square yard, after dilution, unless the contract designates otherwise. The engineer may adjust the application rate based on surface conditions. Limit application each day to the area the contractor expects to pave during that day.

460.2.2.3 Aggregate Gradation Master Range

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

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

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENTS PASSING DESIGNATED SIEVES						
	NOMINAL SIZE						
	37.5 mm	25.0 mm	19.0 mm	12.5 mm	9.5 mm	SMA 12.5 mm	SMA 9.5 mm
50.0-mm	100						
37.5-mm	90 - 100	100					
25.0-mm	90 max	90 - 100	100				
19.0-mm	—	90 max	90 - 100	100		100	
12.5-mm	—	—	90 max	90 - 100	100	90 - 97	100
9.5-mm	—	—	—	90 max	90 - 100	58 - 72	90 - 100
4.75-mm	—	—	—	—	90 max	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	20 - 65	15 - 25	18 - 28
75-µm	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	8.0 - 12.0	10.0 - 14.0
% MINIMUM VMA	11.0	12.0	13.0	14.0 ^[1]	15.0 ^[2]	16.0	17.0

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

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

465.2 Materials

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

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

Errata

Make the following corrections to the standard specifications:

501.3.2.4.4 Water Reducer

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

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

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

ADDITIONAL SPECIAL PROVISION 9
Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/index.htm>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Tess Mulrooney at 608-267-4489 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll data from their computer system into CRCS should have their payroll coordinator send several sample electronic files to Tess two months before a payroll needs to be submitted. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/docs/crc-payroll-manual.pdf>

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

DECEMBER 2013

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

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

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

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

Effective with September 2004 Letting

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

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

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

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

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

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

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

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

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

II. PAYROLL REQUIREMENTS

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

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous place at the site of work:

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

IV. WAGE RATE REDISTRIBUTION

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

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

V. ADDITIONAL CLASSIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Bricklayer, Blocklayer or Stonemason	18.00	2.00	20.00
Carpenter	38.67	5.25	43.92
Cement Finisher	32.65	17.32	49.97
Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Electrician	28.96	16.90	45.86
Future Increase(s): Add \$.70/hr on 6/2/2014; Add \$.75/hr on 6/1/2015.			
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	16.00	3.33	19.33
Ironworker	31.25	19.46	50.71
Line Constructor (Electrical)	38.25	16.28	54.53
Painter	21.87	11.37	33.24
Pavement Marking Operator	30.00	0.00	30.00
Piledriver	30.98	15.90	46.88
Roofer or Waterproofing	19.35	3.77	23.12
Teledata Technician or Installer	21.89	11.85	33.74
Tuckpointer, Caulker or Cleaner	30.77	16.92	47.69
Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.80	45.40
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.58	40.36

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.73	34.48

TRUCK DRIVERS

Single Axle or Two Axle	34.22	19.90	54.12
Three or More Axle	25.24	15.20	40.44
Articulated, Euclid, Dumptror, Off Road Material Hauler	29.27	20.40	49.67
Future Increase(s): Add \$1.75/hr on 6/1/14); Add \$1.25/hr on 6/1/15); Add \$1.30/hr on 6/1/16); Add \$1.25/hr on 6/ 1/ 17.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/ business/ civilrights/ laborwages/ pwc. htm .			
Pavement Marking Vehicle	25.24	15.20	40.44
Shadow or Pilot Vehicle	34.22	19.90	54.12
Truck Mechanic	25.24	15.20	40.44

LABORERS

General Laborer	29.04	14.63	43.67
Future Increase(s): Add \$1.60/hr on 6/1/2014.			
Premium Pay: Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Asbestos Abatement Worker	24.36	14.89	39.25
Landscaper	29.04	14.63	43.67
Future Increase(s): Add \$1.60/hr on 6/1/14.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Flagperson or Traffic Control Person	25.67	14.63	40.30
Future Increase(s): 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)	18.31	10.29	28.60
Railroad Track Laborer	12.50	0.00	12.50

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
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 \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc. htm .	36.72	20.40	57.12
Backhoe (Track Type) Having a Mfrg.'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 \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc. htm .	36.22	20.40	56.62
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 Mfrg.'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	35.72	20.40	56.12

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$

& A- Frames.			
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

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 Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.	35.46	20.40	55.86
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	35.17	20.40	55.57
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

Fiber Optic Cable Equipment.	26.69	16.65	43.34

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

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: August 1, 2014

LABORERS CLASSIFICATION:		Basic Hourly Rates	Fringe Benefits		Basic Hourly Rates	Fringe Benefits
Group 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence and Bridge Builder; Landscaper, Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, Utility Man); Batch Truck Dumper; or Cement Handler; Bituminous Worker; (Dumper, Ironer, Smoother, Tamper); Concrete Handler		\$29.04	14.53			
Group 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);		29.14	14.53			
Group 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off man		29.19	14.53			
Group 4: Line and Grade Specialist		29.39	14.53			
Group 5: Blaster and Powderman		29.24	14.53			
Group 6: Flagperson; Traffic Control		25.67	14.53			
				<u>Truck Drivers:</u>		
				1 & 2 Axles	25.18	18.31
				Three or More Axles; Euclids, Dumptr & Articulated, Truck Mechanic	25.38	18.31

Notes: Welders receive rate prescribed for craft performing operation to which welding is incidental. Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR, 5.5(a)(1)(ii)). Includes Modification #0, dated January 3, 2014; Modification #1, dated February 7, 2014; Modification #2, dated March 14, 2014; Modification #3, dated May 2, 2014; Modification #4, dated June 27, 2014; Modification #5, dated July 4, 2014; Modification #6, dated July 25, 2014; Modification #7, dated August 1, 2014.

CLASSES OF LABORER AND MECHANICS

Bricklayer	26.78	12.75
Carpenter	30.48	15.80
Millwright	32.11	15.80
Piledriverman	30.98	15.80
Ironworker	31.50	20.03
Cement Mason/Concrete Finisher	32.65	17.44
Electrician		See Page 3
Line Construction		
Lineman	39.50	32% + 5.00
Heavy Equipment Operator	37.53	32% + 5.00
Equipment Operator	31.60	32% + 5.00
Heavy Groundman Driver	26.78	14.11
Light Groundman Driver	24.86	13.45
Groundsman	21.73	32% + 5.00
Painters	22.82	11.52
Well Drilling:		
Well Driller	16.52	3.70

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

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: August 1, 2014

<u>POWER EQUIPMENT OPERATORS CLASSIFICATION:</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>	<u>POWER EQUIPMENT OPERATORS CLASSIFICATION: (Continued)</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>
Group 1: Cranes, tower cranes and derricks, with or without attachments, with a lifting capacity of over 100 tons or cranes, tower cranes and derricks with boom, leads and/or jib lengths measuring 176 feet or longer	\$37.72	\$20.93	(scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader hydraulic backhoe (tractor-type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller (over 5 tons); percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches and A-frames; post driver; material hoist operator.	\$36.72	\$20.93
Group 2: Cranes, tower cranes and derricks, with or without attachments, with a lifting capacity of 100 tons or less or cranes, tower cranes and derricks with boom, leads and/or jib lengths measuring 175 feet or less, and backhoes (excavators) having a manufacturer's rated capacity of 3 cu. yds. and over, caisson rigs, pile driver, dredge operator, dredge engineer.	\$37.22	\$20.93	Group 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self-propelled; tractor (mounted or towed compactors and light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint saw (multiple blade) belting machine; burlap machine; texturing machine; tractor, endloader (rubber tired) - light; jeep digger; fork lift; mulcher; launch operator; fireman; environmental burner.	\$36.46	\$20.93
Group 3: Mechanic or welder - heavy duty equipment, cranes with a lifting capacity of 25 tons or less, concrete breaker (manual or remote); vibrator/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pavement spreader - heavy duty (rubber tired); concrete spreader and distributor, automatic subgrader (concrete); concrete grinder and planing machine; concrete slipform curb and gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi and over); bridge paver; concrete conveyor system; concrete pump; stabilizing mixer (self propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter and grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer and scarifier; backhoes (excavators) having a manufacturers rated capacity of under 3 cu. yds.; grader or motor patrol; tractor			Group 5: Air compressor; power pack; vibratory hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; concrete proportioning plants generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; oiler; pump (over 3 inches); drilling machine helper.	\$36.17	\$20.93
			Group 6: Off - road material hauler with or without ejector.....	\$30.27	\$20.93
			Premium Pay: EPA Level "A" protection - \$3.00 per hour EPA Level "B" protection - \$2.00 per hour EPA Level "C" protection - \$1.00 per hours		

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

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: August 1, 2014

LABORERS CLASSIFICATION:

Rates

Benefits

			Area 4 -	BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausauke and area south thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (except area North of Townships of Aniwa and Hutchins) COUNTIES.
Electricians				
Area 1	\$28.40	16.676		
Area 2:				
Electricians.....	29.13	17.92	Area 5 -	ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausauke), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Area North of the townships of Aniwa and Hutchins), VILAS AND WOOD COUNTIES
Area 3:				
Electrical contracts under \$130,000	26.24	16.85		
Electrical contracts over \$130,000	29.41	16.97		
Area 4:	28.50	28.75% + 9.27	Area 6 -	KENOSHA COUNTY
Area 5	28.96	24.85% + 9.70		
Area 6	35.25	19.30	Area 8 -	DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES
Area 8				
Electricians.....	30.60	24.95% + 10.33	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 9:				
Electricians.....	32.94	18.71	Area 10 -	CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES
Area 10	29.64	20.54	Area 11 -	DOUGLAS COUNTY
Area 11	32.54	24.07	Area 12 -	RACINE (except Burlington township) COUNTY
Area 12	32.87	19.23	Area 13 -	MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES
Area 13	32.82	22.51	Area 14 -	Statewide.
Teledata System Installer			Area 15 -	DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES.
Area 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, TREMPLEAU, VERNON and WASHBURN COUNTIES			
Area 3 -	FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township)			

FEBRUARY 1999

**NOTICE TO BIDDERS
WAGE RATE DECISION**

The wage rate decision of the Secretary of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Secretary of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate. The higher of state or federal rate will apply.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20141209012PROJECT(S):
6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
WISC 2014442
WISC 2014443
N/A

CONTRACTOR : _____

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

SECTION 0001 CONTRACT ITEMS

0010	201.0105 CLEARING	1.000 STA	.		.	
0020	201.0120 CLEARING	122.000 ID	.		.	
0030	201.0205 GRUBBING	1.000 STA	.		.	
0040	201.0220 GRUBBING	122.000 ID	.		.	
0050	203.0600.S REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 01. 120+71	LUMP	LUMP		.	
0060	204.0100 REMOVING PAVEMENT	6,209.000 SY	.		.	
0070	204.0110 REMOVING ASPHALTIC SURFACE	445.000 SY	.		.	
0080	204.0120 REMOVING ASPHALTIC SURFACE MILLING	705.000 SY	.		.	
0090	204.0150 REMOVING CURB & GUTTER	1,017.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	204.0155 REMOVING CONCRETE SIDEWALK	2,004.000 SY	.		.	
0110	204.0195 REMOVING CONCRETE BASES	24.000 EACH	.		.	
0120	204.0205 REMOVING UTILITY POLES	1.000 EACH	.		.	
0130	204.0210 REMOVING MANHOLES	12.000 EACH	.		.	
0140	204.0220 REMOVING INLETS	19.000 EACH	.		.	
0150	204.0245 REMOVING STORM SEWER (SIZE) 01. 6-INCH	64.000 LF	.		.	
0160	204.0245 REMOVING STORM SEWER (SIZE) 02. 8-INCH	57.000 LF	.		.	
0170	204.0245 REMOVING STORM SEWER (SIZE) 03. 10-INCH	97.000 LF	.		.	
0180	204.0245 REMOVING STORM SEWER (SIZE) 04. 12-INCH	263.000 LF	.		.	
0190	204.0245 REMOVING STORM SEWER (SIZE) 05. 15-INCH	674.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0200	204.0245 REMOVING STORM SEWER (SIZE) 06. 18-INCH	67.000 LF	.		.	
0210	204.0245 REMOVING STORM SEWER (SIZE) 07. 24-INCH	91.000 LF	.		.	
0220	204.0280 SEALING PIPES	1.000 EACH	.		.	
0230	204.9060.S REMOVING (ITEM DESCRIPTION) 01. WELL CASING	4.000 EACH	.		.	
0240	204.9060.S REMOVING (ITEM DESCRIPTION) 02. APRON ENDWALLS FOR CULVERT PIPE	1.000 EACH	.		.	
0250	204.9105.S REMOVING (ITEM DESCRIPTION) 01. STAIRWAY	LUMP	LUMP		.	
0260	205.0100 EXCAVATION COMMON	6,420.000 CY	.		.	
0270	206.1000 EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-68-131	LUMP	LUMP		.	
0280	209.0100 BACKFILL GRANULAR	200.000 CY	.		.	
0290	210.0100 BACKFILL STRUCTURE	499.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0300	213.0100 FINISHING ROADWAY (PROJECT) 01. 6250-01-70	1.000 EACH	.		.	
0310	213.0100 FINISHING ROADWAY (PROJECT) 02. 6250-01-76	1.000 EACH	.		.	
0320	305.0110 BASE AGGREGATE DENSE 3/4-INCH	676.000 TON	.		.	
0330	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	3,433.000 TON	.		.	
0340	310.0110 BASE AGGREGATE OPEN GRADED	130.000 TON	.		.	
0350	312.0110 SELECT CRUSHED MATERIAL	3,618.000 TON	.		.	
0360	415.0085 CONCRETE PAVEMENT 8 1/2-INCH	4,986.000 SY	.		.	
0370	415.0090 CONCRETE PAVEMENT 9-INCH	349.000 SY	.		.	
0380	415.0410 CONCRETE PAVEMENT APPROACH SLAB	242.000 SY	.		.	
0390	416.0160 CONCRETE DRIVEWAY 6-INCH	217.000 SY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0400	416.0610 DRILLED TIE BARS	57.000 EACH	.		.	
0410	416.0620 DRILLED DOWEL BARS	42.000 EACH	.		.	
0420	440.4410.S INCENTIVE IRI RIDE	612.000 DOL	1.00000		612.00	
0430	455.0105 ASPHALTIC MATERIAL PG58-28	7.000 TON	.		.	
0440	455.0120 ASPHALTIC MATERIAL PG64-28	14.300 TON	.		.	
0450	455.0605 TACK COAT	47.000 GAL	.		.	
0460	460.1101 HMA PAVEMENT TYPE E-1	316.000 TON	.		.	
0470	460.1103 HMA PAVEMENT TYPE E-3	31.000 TON	.		.	
0480	460.2000 INCENTIVE DENSITY HMA PAVEMENT	224.000 DOL	1.00000		224.00	
0490	465.0105 ASPHALTIC SURFACE	84.000 TON	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0500	465.0310 ASPHALTIC CURB	50.000				
		LF	.		.	
0510	502.0100 CONCRETE MASONRY BRIDGES	545.000				
		CY	.		.	
0520	502.3200 PROTECTIVE SURFACE TREATMENT	640.000				
		SY	.		.	
0530	502.5005 MASONRY ANCHORS TYPE L NO. 5 BARS	48.000				
		EACH	.		.	
0540	502.6102 MASONRY ANCHORS TYPE S 1/2-INCH	182.000				
		EACH	.		.	
0550	505.0405 BAR STEEL REINFORCEMENT HS BRIDGES	13,710.000				
		LB	.		.	
0560	505.0605 BAR STEEL REINFORCEMENT HS COATED BRIDGES	67,200.000				
		LB	.		.	
0570	516.0500 RUBBERIZED MEMBRANE WATERPROOFING	45.000				
		SY	.		.	
0580	517.1015.S CONCRETE STAINING MULTI-COLOR (STRUCTURE) 01. B-68-131	518.000				
		SF	.		.	
0590	517.1050.S ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 01. B-68-131	518.000				
		SF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0600	520.4018 CULVERT PIPE TEMPORARY 18-INCH	26.000 LF	.		.	
0610	532.0200.S WALL MODULAR BLOCK GRAVITY	211.000 SF	.		.	
0620	550.0010 PRE-BORING UNCONSOLIDATED MATERIALS	330.000 LF	.		.	
0630	550.1100 PILING STEEL HP 10-INCH X 42 LB	2,640.000 LF	.		.	
0640	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A	2,060.000 LF	.		.	
0650	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D	187.000 LF	.		.	
0660	601.0600 CONCRETE CURB PEDESTRIAN	40.000 LF	.		.	
0670	602.0405 CONCRETE SIDEWALK 4-INCH	17,713.000 SF	.		.	
0680	602.0415 CONCRETE SIDEWALK 6-INCH	1,952.000 SF	.		.	
0690	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW	200.000 SF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0700	602.1500 CONCRETE STEPS	12.000				
		SF	.		.	
0710	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	220.000				
		LF	.		.	
0720	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	220.000				
		LF	.		.	
0730	604.0400 SLOPE PAVING CONCRETE	90.000				
		SY	.		.	
0740	606.0100 RIPRAP LIGHT	9.000				
		CY	.		.	
0750	606.0300 RIPRAP HEAVY	8.000				
		CY	.		.	
0760	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	376.000				
		LF	.		.	
0770	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH	303.000				
		LF	.		.	
0780	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	167.000				
		LF	.		.	
0790	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	117.000				
		LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0800	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	718.000 LF	.		.	
0810	610.0129 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH	219.000 LF	.		.	
0820	611.0530 MANHOLE COVERS TYPE J	11.000 EACH	.		.	
0830	611.0535 MANHOLE COVERS TYPE J-SPECIAL	9.000 EACH	.		.	
0840	611.0624 INLET COVERS TYPE H	22.000 EACH	.		.	
0850	611.0639 INLET COVERS TYPE H-S	2.000 EACH	.		.	
0860	611.1004 CATCH BASINS 4-FT DIAMETER	4.000 EACH	.		.	
0870	611.1006 CATCH BASINS 6-FT DIAMETER	1.000 EACH	.		.	
0880	611.1230 CATCH BASINS 2X3-FT	19.000 EACH	.		.	
0890	611.2004 MANHOLES 4-FT DIAMETER	5.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0900	611.2005 MANHOLES 5-FT DIAMETER	1.000 EACH	.		.	
0910	611.2006 MANHOLES 6-FT DIAMETER	3.000 EACH	.		.	
0920	611.2007 MANHOLES 7-FT DIAMETER	2.000 EACH	.		.	
0930	611.2008 MANHOLES 8-FT DIAMETER	1.000 EACH	.		.	
0940	611.2055 MANHOLES 5X5-FT	1.000 EACH	.		.	
0950	611.2066 MANHOLES 6X6-FT	1.000 EACH	.		.	
0960	611.8110 ADJUSTING MANHOLE COVERS	3.000 EACH	.		.	
0970	612.0106 PIPE UNDERDRAIN 6-INCH	1,968.000 LF	.		.	
0980	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH	190.000 LF	.		.	
0990	612.0902.S INSULATION BOARD POLYSTYRENE (INCH) 01. 2-INCH	53.300 SY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1000	616.0700.S FENCE SAFETY	910.000				
		LF	.		.	
1010	619.1000 MOBILIZATION	1.000				
		EACH	.		.	
1020	624.0100 WATER	92.000				
		MGAL	.		.	
1030	625.0100 TOPSOIL	878.000				
		SY	.		.	
1040	628.1504 SILT FENCE	293.000				
		LF	.		.	
1050	628.1520 SILT FENCE MAINTENANCE	545.000				
		LF	.		.	
1060	628.1905 MOBILIZATIONS EROSION CONTROL	10.000				
		EACH	.		.	
1070	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	6.000				
		EACH	.		.	
1080	628.2008 EROSION MAT URBAN CLASS I TYPE B	777.000				
		SY	.		.	
1090	628.6005 TURBIDITY BARRIERS	280.000				
		SY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1100	628.7005 INLET PROTECTION TYPE A	36.000 EACH	.		.	
1110	628.7015 INLET PROTECTION TYPE C	25.000 EACH	.		.	
1120	628.7555 CULVERT PIPE CHECKS	8.000 EACH	.		.	
1130	629.0205 FERTILIZER TYPE A	0.064 CWT	.		.	
1140	630.0140 SEEDING MIXTURE NO. 40	16.400 LB	.		.	
1150	630.0200 SEEDING TEMPORARY	2.800 LB	.		.	
1160	634.0614 POSTS WOOD 4X6-INCH X 14-FT	2.000 EACH	.		.	
1170	634.0616 POSTS WOOD 4X6-INCH X 16-FT	3.000 EACH	.		.	
1180	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT	3.000 EACH	.		.	
1190	637.2210 SIGNS TYPE II REFLECTIVE H	79.360 SF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1200	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING	29.840 SF	.		.	
1210	637.2230 SIGNS TYPE II REFLECTIVE F	53.000 SF	.		.	
1220	638.2602 REMOVING SIGNS TYPE II	16.000 EACH	.		.	
1230	638.3000 REMOVING SMALL SIGN SUPPORTS	2.000 EACH	.		.	
1240	642.5201 FIELD OFFICE TYPE C	1.000 EACH	.		.	
1250	643.0100 TRAFFIC CONTROL (PROJECT) 01. 6250-01-70	1.000 EACH	.		.	
1260	643.0100 TRAFFIC CONTROL (PROJECT) 02. 6250-01-76	1.000 EACH	.		.	
1270	643.0300 TRAFFIC CONTROL DRUMS	1,937.000 DAY	.		.	
1280	643.0410 TRAFFIC CONTROL BARRICADES TYPE II	7,662.000 DAY	.		.	
1290	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	7,036.000 DAY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1300	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	7.000 EACH	.		.	
1310	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	7.000 EACH	.		.	
1320	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	16,441.000 DAY	.		.	
1330	643.0900 TRAFFIC CONTROL SIGNS	5,579.000 DAY	.		.	
1340	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	4.000 EACH	.		.	
1350	643.2000 TRAFFIC CONTROL DETOUR (PROJECT) 01. 6250-01-76	1.000 EACH	.		.	
1360	643.3000 TRAFFIC CONTROL DETOUR SIGNS	20,305.000 DAY	.		.	
1370	645.0112 GEOTEXTILE FABRIC TYPE DF SCHEDULE B	721.000 SY	.		.	
1380	645.0120 GEOTEXTILE FABRIC TYPE HR	20.000 SY	.		.	
1390	645.0130 GEOTEXTILE FABRIC TYPE R	26.000 SY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1400	646.0103 PAVEMENT MARKING PAINT 4-INCH	1,307.000 LF	.		.	
1410	646.0106 PAVEMENT MARKING EPOXY 4-INCH	6,857.000 LF	.		.	
1420	646.0600 REMOVING PAVEMENT MARKINGS	546.000 LF	.		.	
1430	647.0206 PAVEMENT MARKING ARROWS BIKE LANE EPOXY	3.000 EACH	.		.	
1440	647.0306 PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY	3.000 EACH	.		.	
1450	647.0563 PAVEMENT MARKING STOP LINE PAINT 18-INCH	18.000 LF	.		.	
1460	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH	121.000 LF	.		.	
1470	647.0656 PAVEMENT MARKING PARKING STALL EPOXY	706.000 LF	.		.	
1480	647.0723 PAVEMENT MARKING DIAGONAL PAINT 12-INCH	461.000 LF	.		.	
1490	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	171.000 LF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20141209012PROJECT(S):
6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
WISC 2014442
WISC 2014443
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1500	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	1,237.000 LF	.		.	
1510	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	729.000 LF	.		.	
1520	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	51.000 LF	.		.	
1530	650.4000 CONSTRUCTION STAKING STORM SEWER	38.000 EACH	.		.	
1540	650.4500 CONSTRUCTION STAKING SUBGRADE	1,576.000 LF	.		.	
1550	650.5000 CONSTRUCTION STAKING BASE	374.000 LF	.		.	
1560	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	1,071.000 LF	.		.	
1570	650.6000 CONSTRUCTION STAKING PIPE CULVERTS	1.000 EACH	.		.	
1580	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT	938.000 LF	.		.	
1590	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE	122.000 LF	.		.	

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6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
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WISC 2014443
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1600	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 6250-01-76	LUMP	LUMP			.
1610	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 6250-01-70	LUMP	LUMP			.
1620	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 6250-01-76	LUMP	LUMP			.
1630	650.9920 CONSTRUCTION STAKING SLOPE STAKES	1,311.000 LF	.			.
1640	651.1000.S SIGNAL CONTROLLER TRAINING	LUMP	LUMP			.
1650	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	3,054.000 LF	.			.
1660	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	875.000 LF	.			.
1670	652.0800 CONDUIT LOOP DETECTOR	424.000 LF	.			.
1680	652.0900 LOOP DETECTOR SLOTS	102.000 LF	.			.
1690	653.0140 PULL BOXES STEEL 24X42-INCH	23.000 EACH	.			.

SCHEDULE OF ITEMS

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6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
WISC 2014442
WISC 2014443
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			DOLLARS	CTS	DOLLARS	CTS
1700	653.0905 REMOVING PULL BOXES	2.000 EACH	.		.	
1710	654.0101 CONCRETE BASES TYPE 1	3.000 EACH	.		.	
1720	654.0102 CONCRETE BASES TYPE 2	5.000 EACH	.		.	
1730	654.0105 CONCRETE BASES TYPE 5	2.000 EACH	.		.	
1740	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	1.000 EACH	.		.	
1750	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG	390.000 LF	.		.	
1760	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG	1,250.000 LF	.		.	
1770	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED	376.000 LF	.		.	
1780	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	880.000 LF	.		.	
1790	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	2,316.000 LF	.		.	

SCHEDULE OF ITEMS

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6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
WISC 2014442
WISC 2014443
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			DOLLARS	CTS	DOLLARS	CTS
1800	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	11,730.000 LF	.		.	
1810	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	2,196.000 LF	.		.	
1820	655.0700 LOOP DETECTOR LEAD IN CABLE	2,090.000 LF	.		.	
1830	655.0800 LOOP DETECTOR WIRE	1,990.000 LF	.		.	
1840	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. STH 22 & 12TH STREET	LUMP	LUMP		.	
1850	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. LCB 100	LUMP	LUMP		.	
1860	657.0100 PEDESTAL BASES	3.000 EACH	.		.	
1870	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	5.000 EACH	.		.	
1880	657.0305 POLES TYPE 2	1.000 EACH	.		.	
1890	657.0315 POLES TYPE 4	4.000 EACH	.		.	

SCHEDULE OF ITEMS

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20141209012PROJECT(S):
6250-01-70
6250-01-76
6250-01-77FEDERAL ID(S):
WISC 2014442
WISC 2014443
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			DOLLARS	CTS	DOLLARS	CTS
1900	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT	3.000 EACH	.		.	
1910	657.0590 TROMBONE ARMS 20-FT	2.000 EACH	.		.	
1920	657.0595 TROMBONE ARMS 25-FT	2.000 EACH	.		.	
1930	657.0614 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FT	4.000 EACH	.		.	
1940	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL	8.000 EACH	.		.	
1950	658.0155 TRAFFIC SIGNAL FACE 3-12 INCH HORIZONTAL	4.000 EACH	.		.	
1960	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH	12.000 EACH	.		.	
1970	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH	8.000 EACH	.		.	
1980	658.0500 PEDESTRIAN PUSH BUTTONS	8.000 EACH	.		.	
1990	658.0600 LED MODULES 12-INCH RED BALL	12.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:

PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2000	658.0605 LED MODULES 12-INCH YELLOW BALL	12.000 EACH	.		.	
2010	658.0610 LED MODULES 12-INCH GREEN BALL	12.000 EACH	.		.	
2020	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH	8.000 EACH	.		.	
2030	658.5069 SIGNAL MOUNTING HARDWARE (LOCATION) 01. STH 22 & 12TH STREET	LUMP	LUMP		.	
2040	659.1115 LUMINAIRES UTILITY LED A	4.000 EACH	.		.	
2050	690.0150 SAWING ASPHALT	1,332.000 LF	.		.	
2060	690.0250 SAWING CONCRETE	732.000 LF	.		.	
2070	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT	1,000.000 DOL	1.00000		1000.00	
2080	715.0502 INCENTIVE STRENGTH CONCRETE STRUCTURES	3,270.000 DOL	1.00000		3270.00	
2090	ASP.1T0A ON-THE-JOB TRAINING APPRENTICE AT \$5.00/HR	2,000.000 HRS	5.00000		10000.00	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:

PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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			DOLLARS	CTS	DOLLARS	CTS
2100	ASP.1T0G ON-THE-JOB TRAINING GRADUATE AT \$5. 00/HR	1,260.000 HRS	5.00000		6300.00	
2110	SPV.0030 SPECIAL 20. FERTILIZER FOR LAWN TYPE TURF	0.590 CWT	.		.	
2120	SPV.0060 SPECIAL 01. BOLTED LID MANHOLE COVERS SPECIAL	3.000 EACH	.		.	
2130	SPV.0060 SPECIAL 02. REMOVING ABANDONED SIGN POST	1.000 EACH	.		.	
2140	SPV.0060 SPECIAL 20. POSTS STEEL 2 3/8-INCH DIAMETER X 14-FT	5.000 EACH	.		.	
2150	SPV.0060 SPECIAL 21. REMOVING EXISTING LIGHTING CONTROL	1.000 EACH	.		.	
2160	SPV.0060 SPECIAL 22. SALVAGE LIGHTING UNIT	13.000 EACH	.		.	
2170	SPV.0060 SPECIAL 23. CONCRETE CONTROL CABINET BASE TYPE SPECIAL	1.000 EACH	.		.	
2180	SPV.0060 SPECIAL 24. LIGHTING CONTROL CABINET	1.000 EACH	.		.	
2190	SPV.0060 SPECIAL 25. TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BROWN	2.000 EACH	.		.	

SCHEDULE OF ITEMS

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CONTRACT:

PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2200	SPV.0060 SPECIAL 26. POLES TYPE 5-ALUMINUM BROWN	2.000 EACH	.		.	
2210	SPV.0060 SPECIAL 27. LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT - BROWN	2.000 EACH	.		.	
2220	SPV.0060 SPECIAL 28. LUMINAIRES UTILITY LED CATEGORY C BROWN	2.000 EACH	.		.	
2230	SPV.0060 SPECIAL 29. DECORATIVE LIGHTING UNIT	8.000 EACH	.		.	
2240	SPV.0060 SPECIAL 30. TREE ROOT CUTTING AND REMOVAL	16.000 EACH	.		.	
2250	SPV.0060 SPECIAL 31. ROOF DRAIN CLEAN OUT	1.000 EACH	.		.	
2260	SPV.0060 SPECIAL 40. ABANDON WATER SERVICE	9.000 EACH	.		.	
2270	SPV.0060 SPECIAL 41. REMOVE HYDRANT & BRANCH PIPING	2.000 EACH	.		.	
2280	SPV.0060 SPECIAL 42. REMOVE WATER VALVE & BOX	7.000 EACH	.		.	
2290	SPV.0060 SPECIAL 43. REMOVE WATER VALVE MANHOLE & VALVE	2.000 EACH	.		.	

SCHEDULE OF ITEMS

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PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2300	SPV.0060 SPECIAL 44. CORPORATION, CURB STOP & BOX	14.000 EACH	.		.	
2310	SPV.0060 SPECIAL 45. WATER MAIN, 8"X6" REDUCER	3.000 EACH	.		.	
2320	SPV.0060 SPECIAL 46. WATER MAIN, 8"X4" REDUCER	1.000 EACH	.		.	
2330	SPV.0060 SPECIAL 47. WATER MAIN, 8" 90 DEGREE BEND	2.000 EACH	.		.	
2340	SPV.0060 SPECIAL 48. WATER MAIN, 4" 90 DEGREE BEND	1.000 EACH	.		.	
2350	SPV.0060 SPECIAL 49. WATER MAIN, 8"X8" CROSS	1.000 EACH	.		.	
2360	SPV.0060 SPECIAL 50. WATER MAIN, 8"X6" TEE	4.000 EACH	.		.	
2370	SPV.0060 SPECIAL 51. WATER MAIN, 8"X8" TEE	1.000 EACH	.		.	
2380	SPV.0060 SPECIAL 52. WATER MAIN, 8" 45 DEGREE BEND	10.000 EACH	.		.	
2390	SPV.0060 SPECIAL 53. WATER MAIN, 8" 22.5 DEGREE BEND	1.000 EACH	.		.	

SCHEDULE OF ITEMS

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PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2400	SPV.0060 SPECIAL 54. WATER MAIN, 8" CUT-IN SLEEVE	2.000 EACH	.		.	
2410	SPV.0060 SPECIAL 55. WATER MAIN, 6" CUT-IN SLEEVE	3.000 EACH	.		.	
2420	SPV.0060 SPECIAL 56. WATER MAIN CONNECTION	6.000 EACH	.		.	
2430	SPV.0060 SPECIAL 57. ADJUST WATER VALVE BOX	1.000 EACH	.		.	
2440	SPV.0060 SPECIAL 58. 8" VALVE & VALVE BOX	8.000 EACH	.		.	
2450	SPV.0060 SPECIAL 59. 6" VALVE & VALVE BOX	3.000 EACH	.		.	
2460	SPV.0060 SPECIAL 60. HYDRANT	2.000 EACH	.		.	
2470	SPV.0060 SPECIAL 61. FLUSHING HYDRANT	1.000 EACH	.		.	
2480	SPV.0060 SPECIAL 62. REMOVE SANITARY MANHOLE	7.000 EACH	.		.	
2490	SPV.0060 SPECIAL 63. SANITARY CONNECTION	6.000 EACH	.		.	

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REVISED:

CONTRACT:

PROJECT(S):

FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2500	SPV.0060 SPECIAL 64. ABANDON SANITARY LATERAL	3.000 EACH	.		.	
2510	SPV.0060 SPECIAL 65. REMOVE CLEAN OUT	1.000 EACH	.		.	
2520	SPV.0060 SPECIAL 66. ADJUST SANITARY MANHOLE	1.000 EACH	.		.	
2530	SPV.0060 SPECIAL 67. SANITARY MANHOLE, 4-FT W/ECCENTRIC TOP	9.000 EACH	.		.	
2540	SPV.0060 SPECIAL 68. CHIMNEY SEAL	10.000 EACH	.		.	
2550	SPV.0060 SPECIAL 69. WYE, PVC, 8"X6"	18.000 EACH	.		.	
2560	SPV.0060 SPECIAL 70. CLEAN-OUT, PVC, 6-INCH	2.000 EACH	.		.	
2570	SPV.0090 SPECIAL 01. CONCRETE CURB & GUTTER 24-INCH TYPE D	329.000 LF	.		.	
2580	SPV.0090 SPECIAL 20. STORM SEWER PIPE PVC 6-INCH	58.000 LF	.		.	
2590	SPV.0090 SPECIAL 21. STORM SEWER PIPE PVC 8-INCH	49.000 LF	.		.	

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FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2600	SPV.0090 SPECIAL 22. STORM SEWER PIPE PVC 10-INCH	17.000 LF	.		.	
2610	SPV.0090 SPECIAL 71. ABANDON WATER MAIN	939.000 LF	.		.	
2620	SPV.0090 SPECIAL 72. REMOVE WATER MAIN	237.000 LF	.		.	
2630	SPV.0090 SPECIAL 73. REMOVE WATER SERVICE	336.000 LF	.		.	
2640	SPV.0090 SPECIAL 74. REMOVE EXISTING RIVER WATER MAIN	92.000 LF	.		.	
2650	SPV.0090 SPECIAL 75. WATER MAIN, 4-INCH	16.000 LF	.		.	
2660	SPV.0090 SPECIAL 76. WATER MAIN, 6-INCH	76.000 LF	.		.	
2670	SPV.0090 SPECIAL 77. WATER MAIN, 8-INCH	1,111.000 LF	.		.	
2680	SPV.0090 SPECIAL 78. WATER MAIN, STAKING	1,203.000 LF	.		.	
2690	SPV.0090 SPECIAL 79. WATER SERVICE, HDPE, 1"	592.000 LF	.		.	

SCHEDULE OF ITEMS

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FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2700	SPV.0090 SPECIAL 80. ABANDON EXISTING SANITARY	56.000 LF	.		.	
2710	SPV.0090 SPECIAL 81. REMOVE SANITARY SEWER	987.000 LF	.		.	
2720	SPV.0090 SPECIAL 82. REMOVE SANITARY LATERAL	533.000 LF	.		.	
2730	SPV.0090 SPECIAL 83. SANITARY LATERAL, PVC, 6-INCH	559.000 LF	.		.	
2740	SPV.0090 SPECIAL 84. SANITARY SEWER, 8-INCH	451.000 LF	.		.	
2750	SPV.0090 SPECIAL 85. SANITARY SEWER, 10-INCH	702.000 LF	.		.	
2760	SPV.0090 SPECIAL 86. SANITARY SEWER, 12-INCH	60.000 LF	.		.	
2770	SPV.0090 SPECIAL 87. SANITARY SEWER STAKING	1,213.000 LF	.		.	
2780	SPV.0105 SPECIAL 01. SCOUR PROTECTION	LUMP	LUMP		.	
2790	SPV.0105 SPECIAL 02. RAILING STEEL TYPE C5 GALVANIZED B-68-131	LUMP	LUMP		.	

SCHEDULE OF ITEMS

REVISED:

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FEDERAL ID(S):

20141209012

6250-01-70

WISC 2014442

6250-01-76

WISC 2014443

6250-01-77

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			DOLLARS	CTS	DOLLARS	CTS
2800	SPV.0105 SPECIAL 20. REMOVE AND SALVAGE TRAFFIC SIGNALS STH 22 AND 12TH STREET	LUMP	LUMP			.
2810	SPV.0105 SPECIAL 21. TRAFFIC SIGNAL CONTROL CABINET AND CONTROLLER STH 22 AND 12TH STREET	LUMP	LUMP			.
2820	SPV.0105 SPECIAL 22. RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS PROJECT 6250-01-70	LUMP	LUMP			.
2830	SPV.0105 SPECIAL 23. RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS PROJECT 6250-01-76	LUMP	LUMP			.
2840	SPV.0105 SPECIAL 24. VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS PROJECT 6250-01-70	LUMP	LUMP			.
2850	SPV.0105 SPECIAL 25. VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS PROJECT 6250-01-76	LUMP	LUMP			.
2860	SPV.0120 SPECIAL 20. WATER FOR SEEDED AREAS	19.100 MGAL	.		.	.
2870	SPV.0165 SPECIAL 20. CONCRETE SIDEWALK HES 4-INCH	530.000 SF	.		.	.

SCHEDULE OF ITEMS

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20141209012PROJECT(S):
6250-01-70
6250-01-76
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WISC 2014442
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			DOLLARS	CTS	DOLLARS	CTS
2880	SPV.0180 SPECIAL 01. GEOGRID REINFORCEMENT	6,050.000 SY	.		.	
2890	SPV.0180 SPECIAL 20. PREPARING TOPSOIL FOR LAWN TYPE TURF	803.000 SY	.		.	
2900	SPV.0180 SPECIAL 21. CONCRETE DRIVEWAY VARIABLE DEPTH	13.000 SY	.		.	
2910	SPV.0195 SPECIAL 01. HAULING AND DISPOSAL OF DREDGED MATERIAL	365.000 TON	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

PLEASE ATTACH SCHEDULE OF ITEMS HERE