

HIGHWAY WORK PROPOSAL

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

Proposal Number:

16

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Milwaukee	2984-43-74		HAST Landscaping Airline Yards (37 th Street to Mitchell Park)	Hank Aaron State Trail

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, \$ 40,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: March 8, 2016 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code <div style="text-align: center;">SAMPLE</div> <div style="text-align: center;">NOT FOR BIDDING PURPOSES</div>
Contract Completion Time November 15, 2018	
Assigned Disadvantaged Business Enterprise Goal <div style="text-align: right;">0 %</div>	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	
Minor grading and landscaping for erosion mitigation and control, including invasive species control, reseeding and maintenance of native vegetation.	
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 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://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the 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.

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

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.
 2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid ExpressTM web site.
 2. Use ExpediteTM software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of ExpediteTM software and the Bid ExpressTM 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 ExpressTM web site reflecting the latest addenda posted on the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>
Use ExpediteTM 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 ExpressTM web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the ExpediteTM 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 ExpediteTM 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 ExpediteTM 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 ExpediteTM generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the ExpediteTM 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.....	3
2.	Scope of Work.	3
3.	Waiving Bidder Prequalification.	3
4.	Pre-certified Landscape Contractor.	3
5.	Mandatory Pre-Bid Meeting.	6
6.	Prosecution and Progress.	6
7.	Work Restrictions.	7
8.	Utilities.....	9
9.	Specialty Items.....	10
10.	Railroad Insurance and Coordination.	11
11.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.....	12
12.	Environmental Protection, Aquatic Exotic Species Control.....	12
13.	Environmental Controls: Oil, Grease, and Fuel from Heavy Equipment.	13
14.	Erosion Control.....	14
15.	Notice to Contractor – Coordination with Environmental Consultant.	14
16.	Notice to Contractor – Coordination with City of Milwaukee.	16
17.	Notice to Contractor – Coordination with Milwaukee County.....	16
18.	QMP Base Aggregate.	17
19.	Riprap.....	25
20.	Temporary Ditch Checks.	25
21.	Erosion Mat.....	25
22.	Fence Safety, Item 616.0700.S.	25
23.	Excavation Special - ACM, Item SPV.0035.01.....	26
24.	Fieldstone Riprap Light, SPV.0035.02; Fieldstone Riprap Medium, SPV.0035.03.	29
25.	Coloring Concrete Sequoia Sand, SPV.0035.04.....	30
26.	Entrance and Donor Displays, SPV.0055.01.....	31
27.	Zinc Dome, SPV.0060.01.....	33
28.	LED In Ground Light Fixture, SPV.0060.02.....	33
29.	Native Vegetation Surveillance and Care Cycles, SPV.0060.03.....	34
30.	Invasive Species Control, Item SPV.0060.04.....	37
31.	Nurse Crop Seed Mix, Item SPV.0085.01.....	37
32.	Pioneer Native Seed Mix, Item SPV.0085.02.....	38
33.	Slope Interruptor Socks 8” Foundation, Item SPV.0090.01.....	42
34.	1" Coilable HDPE Conduit, Item SPV.0090.02.....	43
35.	Flagging Hank Aaron State Trail, Item SPV.0105.01.....	44
36.	UEC Community Garden Water Line, Item SPV.0105.02.....	45
37.	Solar Panel, Battery System and Foundation, Item SPV.0105.03.....	48
38.	Path Edge Seed Mix, Item SPV.0145.01.....	48
39.	Ditch Seed Mix, Item SPV.0145.02.....	49
40.	Anti Graffiti Shield, Item SPV.0165.01.....	50

41.	Concrete Sidewalk 4-Inch Special, Item SPV.0165.02.	51
42.	Modular Grid, Item SPV.0165.03.	52
43.	Reset Limestone Blocks, Item SPV.0165.04.	52
44.	Geogrid Warning Layer, Item SPV.0180.01.	54
45.	Scrape and Redress, Item SPV.0180.02.	56
46.	Woodchip Mulch, Item SPV.0180.03.	57
47.	Concrete Sealer, Item SPV.0180.04.	57
48.	Crushed Aggregate 3/8-Inch, Item SPV.0195.01.	58

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 2984-43-74 HAST Landscaping – Airline Yards (37th Street to Mitchell Park), Hank Aaron State Trail, Milwaukee County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2016 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 (20150630)

2. Scope of Work.

The work under this contract shall consist of minor grading and landscaping for erosion mitigation and control, including invasive species control, reseeding and maintenance of native vegetation, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

3. Waiving Bidder Prequalification.

Bidder prequalification is not required; however, prior to awarding a contract, the department may require the bidder to produce financial documentation similar to the prequalification statement (DT1621) and evidence that they have a history of performing work of a similar character in a satisfactory manner.

4. Pre-certified Landscape Contractor.

A pre-certified landscape contractor is required for Native Landscape Restoration.

Native Landscape Restoration includes the following pay items:

SPV.0060.03 Native Vegetation Surveillance and Care Cycles

SPV.0060.04 Invasive Species Control

SPV.0085.01 Nurse Crop Seed Mix

SPV.0085.02 Pioneer Native Seed Mix

SPV.0090.01 Slope Interruptor Socks 8"

SPV.0145.01 Path Edge Seed Mix

SPV.0145.02 Ditch Seed Mix

A single contractor of the following listed pre-certified landscape contractors or entities shall perform the work associated with the installation Native Landscape Restoration items.

Applied Ecological Services, Inc.
17921 Smith Rd.
Brodhead, WI 53520
Contact: Chuck Campbell
Phone: (608) 897-8641
Cell: (608) 214-2364
Email: cacampbell@appliedeco.com

Cardno JFNew.
6140 Cottonwood Dr
Suite A
Fitchburg, WI 53719
Contact: Paul Quinlan
Phone: (608) 661-2955
Cell: (608) 218-0571
Email: paul.quinlan@cardno.com

Conservation Land Stewardship.
910 S. Riverside Drive #5
Elmhurst, IL 60126
Contact: Ken
Phone: (630) 559-2037

EC3 Environmental Consulting Group, Inc.
PO Box 44281
Madison, WI 53744
Contact: Peter Ziegler or John Castro
Phone: (608) 497-0955
Cell: (608) 323-0425
Email: pzeigler@ec3grp.com or jcastro@ec3grp.com

Marek Landscaping
532 East Capitol Drive
Milwaukee, WI 53212
Contact: Kristin Marek
Phone: (414) 272-0242
Email: kristen@mareklandscaping.com

Tallgrass.
3129 County Highway N
Milton, WI 53563
Contact: Ron Adams
Phone: (608) 531-1768
Email: adams@tallgrassrestoration.com

Only entities currently on this list can perform the work associated with the Native Landscape Restoration as described in these special provisions. Contractors or entities not listed and not pre-certified are not permitted to perform the work.

Submit the name of pre-certified contractor that will perform the Native Landscape Restoration on the project to the department within 24 hours after the bid opening. Submit to:

Scott Lawry / Chief Proposal Management Engineer
Wisconsin Department of Transportation
Division of Transportation System Development
Phone: (608) 266-3721
Email: DOTDTSDBPD@dot.wi.gov

The Native Landscape Restoration contractor's assigned personnel must match, by position, individuals shown in the contractor's precertification submittal. Submit the names and position of the landscape contractor's staff at the preconstruction meeting or 14 calendar days prior to the start of the construction, whichever date is earlier. Do not start any Native Landscape Restoration work items until the engineer confirms that the contractor's proposed staff conforms to the contractor's accepted precertification submittal. The engineer may suspend the restoration work if the contractor staffs the project with personnel not identified in the contractor's accepted precertification submittal without prior acceptance from the engineer for staff substitutions. If work is suspended due to the substitution of unqualified personnel, an adjustment in contract time resulting from the suspension of work will not be permitted.

The Native Landscape Restoration contractor is expected to staff the project with personnel identified in the restoration contractor's accepted precertification submittal. Request in writing to the engineer to provide substitute staff not identified in the contractor's accepted precertification submittal. Substitute staff must be equivalently or better qualified as determined by the engineer. Provide the experience and qualification information for the proposed substitute staff as was originally provided for the staff in the contractor's precertification submittal. The contractor will not be permitted to start or continue any Native Landscape Restoration work with substitute staff until the engineer confirms their qualifications and accepts the proposed substitute staff to work on the project.

5. Mandatory Pre-Bid Meeting.

Add the following to standard spec 102.3.1:

Prospective bidders are required to attend a mandatory pre-bid meeting on Monday, February 15, 2016 from 1:00 PM to 4:00 PM at Milwaukee region office, 1001 W St Paul Avenue, Milwaukee, WI 53233.

No meeting minutes will be prepared. Issues discovered at the meeting will be handled by addendum.

102-010 (20150630)

6. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

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

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

Interim Completion of Work November 23, 2016

Complete all work on this project except for the bid item Native Vegetation Surveillance and Care Cycles prior to 12:01 AM November 24, 2016. Native Vegetation Surveillance and Care Cycles will continue after the primary work has been accepted by the department.

If the contractor fails to complete all work items having direct impact on the Hank Aaron State Trail and secondary trails in Three Bridges Park (except for the bid item Native Vegetation Surveillance and Care Cycles) prior to 12:01 AM on November 24, 2016, the department will assess the contractor \$1210 in interim liquidated damages for each calendar day that the work remains incomplete after 12:01 AM.

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

Fish Spawning

There shall be no instream disturbance of The Menomonee River as a result of construction activity under or for this contract, from September 1 to June 1 both dates inclusive, in order to avoid adverse impacts upon the spawning of fish.

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

Traffic Control

Bicycles and pedestrian traffic on the Hank Aaron State Trail shall be maintained throughout construction. Work zone signing shall be used along the trail to inform users of construction. Construction traffic will maintain a 10mph speed limit and yield to pedestrian and bicycle traffic. Flagging may be required when moving equipment that will fully block the trail, during peak hauling, and as directed by the engineer. Separate payment will be made under the bid item Flagging Hank Aaron State Trail for this work.

Work impacting the Hank Aaron State Trail will be limited to no more than 60 calendar days as determined by the engineer. This work includes any times that material or equipment is used or stored on or adjacent to the Hank Aaron State Trail or secondary trails within Three Bridges Park. The 60 total calendar days are not required to be consecutive.

Access on Hank Aaron State Trail

Notify the engineer at least 3 business days prior to hauling any material or equipment on the Hank Aaron State Trail. The engineer will document the condition of the trail pavement and shoulders. Documentation will consist of video evidence of condition and written documentation of any pre-existing defects. Ensure that trucks and equipment are operated in a manner to avoid damage to the edges of the asphalt, rutting of the pavement, or other damage. This may involve moving material into and out of the site with partial loads, maintaining very low speeds on all equipment, protecting the asphalt from scarification by tracked equipment, or other means as determined necessary. Damage to the trail shall be repaired or replaced as directed by the engineer at no cost to the project.

7. Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the Hank Aaron State Trail, and entirely clear the traveled way and shoulders of such portions of the trail of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic from Friday evenings 8:00 PM to Sunday evenings 8:00 PM.

Stadium District Lands

Construction shall not interfere with roads within Stadium District Lands (Canal Street West of Selig Drive, Selig Drive, 44th St and Cul Du Sac, Ramp, and access road) during the “Restricted Periods” defined below:

Restricted Periods

Home Games

On days of the Brewers’ home games, use of the easement areas herein defined by DNR, city and Redevelopment Authority of the City of Milwaukee (RACM), and their respective designees, shall, except in the event of an emergency or as needed by police or emergency

responders, be prohibited during the time period beginning not less than three hours before the parking gates open and ending not earlier than two hours after the game has been completed.

Certain Games

Use of the easement areas herein defined by DNR, city and RACM, and their respective designees, shall, except in the event of an emergency or as needed by police or emergency responders, be prohibited on the days of home games with the Chicago Cubs, the St. Louis Cardinals and the Minnesota Twins, as well as home playoff games.

Special Stadium Events

The Brewers shall use reasonable efforts to provide two weeks' advance notice to the DNR, city and RACM of any special event for which there is a need to restrict work activities or entry upon the easement areas herein defined. Any such notice from the Brewers to the DNR, city and RACM shall specify the day(s) and hours that the activities of DNR, city and RACM and their respective designees on the easement areas shall be restricted or prohibited. Any such restriction or prohibition shall be subject to exception in the case of emergency or to exception as needed by police or emergency responders, and shall be reasonable and intended to minimize interruptions to the permitted activities hereunder. In addition, the Brewers may provide written notice within 24 hours of other special stadium events that arise due to unforeseen circumstances for which any of the Ground Lease Land may be used and for which there is a need to restrict work activities or entry upon the easement areas herein defined (subject to exception in the case of emergency or to exception as needed by police or emergency responders). In any such unforeseen circumstance, the parties hereto shall comply with the obligations set forth in this subparagraph.

Reasonable Discretionary Restrictions

Except in the event of an emergency or as needed by police or emergency responders, the Brewers and the Stadium District reserve the right to restrict use of the easement areas herein defined by DNR, city and RACM, and their respective designees at any time as determined necessary by the Brewers and/or the Stadium District in their reasonable discretion (by way of examples, and not of limitation, if the Brewers need to undertake repair or maintenance work on any portion of Miller Park that requires use of any portion of the easement areas herein defined, or if a crowd in excess of 32,500 is reasonably anticipated for a Brewers home game). In such event, the Brewers (or the Stadium District, as the case may be) shall provide not less than three days' advance written notice of such restriction to the DNR, city and RACM; provided, however, that in the event of an emergency, the Brewers (or the Stadium District as the case may be) shall provide notice of such restriction as may be reasonable under the circumstances. Any restriction under this subparagraph shall be reasonable as to time and scope, and shall be imposed in such a manner so as to minimize interruptions to the permitted activities hereunder.

During Restricted Periods, do not use the Stadium District Access Drives (except in the event of an emergency or as needed by police or emergency responders) or engage in any installation, construction, maintenance or repair or other work of or to any part of the Service Road that is on Ground Lease Land. Instead, such parties will require its contractors to work

around those Restricted Periods. The Brewers shall promptly provide the DNR, city and RACM with reasonable advance written notice of (and keep the DNR, city and RACM updated with periodic advance written notices concerning) Restricted Periods.

Sweeping

Sweep Stadium District roadways aggressively during construction, to be paid for as Pavement Cleanup, and give special attention to time periods immediately before “Restricted Periods.”

Sweep the Hank Aaron State Trail the day before the Hank Aaron Run/Walk. Verify extent and date with the engineer.

8. Utilities.

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

City of Milwaukee and Milwaukee County

Street lights along north access road in Mitchell Park and buried electrical circuit. No conflicts anticipated.

City of Milwaukee

Storm sewer along south side of railroad tracks in Mitchell Park under new bridge. No conflicts anticipated.

Storm sewer along east edge of 33rd Court north of the Menomonee River. No conflicts anticipated.

MMSD

Manholes under 35th Street and 27th Street. No conflict anticipated.

MIS along N. side of river. No conflict anticipated.

108” Combined sewer through triangle east of 27th Street. No conflict anticipated.

48” combined sewer east-west south side of tracks. No conflict anticipated.

AT&T Wisconsin

Aerial on poles south side and parallel to tracks (2 sets of lines). No conflicts anticipated.

Time Warner Cable

North-south line across field and river near 33rd court. No conflict anticipated.

We-Energies Electric

Aerial north-south line across field and river near 33rd court. No conflict anticipated.

We-Energies Gas

Located through Mitchell Park along north edge of north access road. No conflict anticipated.

Level 3 Communications – North-south fiber optic east of 27th Street. No conflict anticipated.

Private Electric and Communications

North-south line east of 27th Street serves CP Rail. No conflict anticipated.

Private Water

North-south line under 27th Street with meter pits extending east-west and north south. Ownership is believed to be by CP Rail. Water line is private and was therefore not located with diggers ticket. No conflict anticipated.

Railroad Fiber Optic Lines**Soo Line Railroad Company Fiber Optic Lines**

Call “Diggers Hotline” and additionally contact the Canadian Pacific Railway “call before you dig” office at least three working days in advance of beginning work. Verify the locations of Canadian Pacific owned fiber optic and railway signal cables located on railway right-of-way. Call (888) 625-8702 between the hours of 6:00 AM to 6:00 PM, Mountain Time, Monday through Friday, except holidays referencing Airline Yard, West Allis Subdivision, Wisconsin, to verify the location of fiber optic lines located on railroad right-of-way at the construction site. Calls will be routed at all times in case of an emergency. Prior to grading on site, verify depth of fiber optic line.

9. Specialty Items.

Amend standard spec 108.1.2(1) with the following:

The following items may be considered as specialty work:

628.1104 Erosion Bales
628.1504 Silt Fence
628.1520 Silt Fence Maintenance
628.1905 Mobilizations Erosion Control
628.1910 Mobilizations Emergency Erosion Control
628.2006 Erosion Mat Urban Class I Type A
628.2008 Erosion Mat Urban Class I Type B
628.6005 Turbidity Barriers
628.7504 Temporary Ditch Checks
628.7570 Rock Bags
650.5500 Construction Staking Curb Gutter and Curb and Gutter
650.8500 Construction Staking Electrical Installations (project)
650.9910 Construction Staking Supplemental Control (project)
655.0615 Electrical Wire Lighting 10 AWG
655.0620 Electrical Wire Lighting 8 AWG

SPV.0035.02 Fieldstone Riprap Light
SPV.0035.03 Fieldstone Riprap Medium
SPV.0055.01 Entrance and Donor Displays
SPV.0060.01 Zinc Dome
SPV.0060.02 LED In Ground Light Fixture
SPV.0060.03 Native Vegetation Surveillance and Care Cycles
SPV.0085.01 Nurse Crop Seed Mix
SPV.0085.02 Pioneer Native Seed Mix
SPV.0090.01 Slope Interruptor Socks 8" Foundation
SPV.0090.02 1" Coilable HDPE Conduit
SPV.0105.01 Flagging Hank Aaron State Trail
SPV.0105.02 UEC Community Garden Water Line
SPV.0105.03 Solar Panel, Battery System and Foundation
SPV.0145.01 Path Edge Seed Mix
SPV.0145.02 Ditch Seed Mix
SPV.0165.03 Modular Grid
SPV.0180.03 Woodchip Mulch

10. Railroad Insurance and Coordination.

A Description

Comply with standard spec 107.17 for all work affecting Soo Line Railroad Company, d/b/a Canadian Pacific Railway Company property and any existing tracks.

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Canadian Pacific Railway Company at 120 South Sixth Street, Minneapolis, MN 55402 Suite 9126, Attention Edward Oom. Include the following information on the insurance document:

Project: 2984-43-74

Route Name: Hank Aaron State Trail

Crossing ID: 386540M

Railroad Subdivision: West Allis Subdivision

Railroad Milepost: 87.61

A.2 Work by Railroad

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

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

Contact Edward Oom, Manager of Public Works- US East Engineering, 120 South Sixth Street, Minneapolis, MN 55402 Suite 9126, TELEPHONE (612) 330-4553, FAX

(612) 904-5917, Oom@cpr.ca, for consultation on railroad requirements during construction.

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

A.4 Temporary Grade Crossing

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

A.5 Train Operation Approximately 8 switching movements operate daily through the construction traveling at 10 mph.

11. 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 Christine Hanna, WisDOT SE Region, at (262) 548-8809 107-054 (20080901)

12. Environmental Protection, Aquatic Exotic Species Control.

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels 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)

13. Environmental Controls: Oil, Grease, and Fuel from Heavy Equipment.

The project will require heavy equipment to be operated on the floodplain and along the channel of the Menominee River. All construction equipment brought on site must be thoroughly cleaned to remove fuel, oil, lubricants, dirt, and weed seeds. Furthermore, all equipment must be in good working order and free of fuel, oil, lubricants, or other fluid leaks. All equipment operating within the river channel shall be required to use a vegetable based, non-petroleum hydraulic oil to minimize impacts in the event of a spill. Any equipment potentially or actually discharging fluids shall be removed immediately from the project site. Spill response equipment including an oil absorbent boom and barrier shall be staged on the bank no less than 500' below the work area for immediate deployment across the entire channel. WDNR will be notified immediately of any spills. Any accidental spillage shall be cleaned up to the degree possible or excavated and disposed of in sealed drums following WDNR regulations.

All equipment servicing and maintenance, including fueling, oil change and lubrication, shall not occur within 50 feet of any open water. All waste materials associated with equipment operations including oil, lubricants, hydraulic fluids and trash, shall be disposed of outside the Menominee River floodway following WDNR regulations.

The contractor, upon approval from the engineer, shall remove all equipment from 10 feet above forecasted flood levels in the event of flooding. The potential for floods and flood levels shall be assessed daily by monitoring Natural Weather Service, River Forecast Center

forecasts for the Menominee River. If significant flooding, greater than a 1-year event, is predicted equipment shall be removed from the river bank and from the top of the embankment to the staging areas in a timely manner.

No additional payment will be made for the above listed measures.

14. Erosion Control.

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering in accordance with Chapter TRANS 401 requirements. The erosion control implementation plan shall supplement information shown on the plans and shall not reproduce it. The erosion control implementation plan shall identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide one copy of the ECIP to WisDOT and one copy of the ECIP to the WDNR Liaison, Kristina Betzold, (414) 263-8517. Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Re-topsoil of graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed.

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

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil shall be protected against erosion. If stockpiled material is left for more than 14 calendar days, seed the stockpile with temporary seed.

Do not pump water from the construction site to a storm water conveyance without the water first passing through a sediment trap or filter bag.

15. Notice to Contractor – Coordination with Environmental Consultant.

I Investigations for soil and groundwater contamination for locations within this project where excavation is required have been completed. The plans for the management of excavated material for this project, including these special provisions, have been developed in cooperation with the WDNR. The WDNR concurrence letter is on file with the department. The following reports are available for review:

- Phase 1 Hazardous Materials Assessment Report, Hank Aaron State Trail Extension, Approximately S. 27th Street to S. 35th Street, February 2011, by Sigma Environmental Services, Inc.
- Phase 2 Subsurface Investigation Report, Hank Aaron State Trail Extension, Approximately S. 27th Street to S. 35th Street, February 2011, by Sigma Environmental Services, Inc.
- WisDOT/City of Milwaukee/WDNR, Airline Yard – Direct Contact Capping Strategy, Former CMC Shops – Airline Yard Property, letter dated April 18, 2011 by Sigma Environmental Services, Inc.

Some areas of industrial-type waste fill have been identified in the project area. The fill contains materials such as cinders, slag, glass and residual foundry material impacted by low-level metal and organic compound concentrations.

All areas between the Canadian Pacific Railway and the Menomonee River have the potential to have asbestos containing materials (ACM) and will be handled and treated based on this assumption.

Be advised that investigations performed were not comprehensive. Due to historical land use, there could be unidentified contamination present at other locations within the project limits. If encountered, the material will be managed accordingly under the direction of the department's environmental consultant.

Develop and conduct training programs for workers involved in the excavation and hauling of excavated material regarding the identification, segregation and handling of ACM. The department's environmental consultant will participate in contractor's training programs to clarify requirements and answer questions regarding the identification, segregation and handling of ACM.

Coordinate the excavation and handling of the ACM with the environmental consultant retained by the department:

Consultant:	TRC
Address:	708 Heartland Trail, Suite 3000, Madison, WI 53717
Contact:	Dan Haak
Phone:	(608) 826-3628
Fax:	(608) 826-3941

The role of the environmental consultant will be limited to field-screening, classifying and directing the excavation of ACM, perimeter air monitoring during ACM excavation, handling and placement, and documenting the conformance of activities associated with the management of excavated materials in accordance with agreements between the WDNR, the Department of Neighborhood Services (DNS) and the department. The environmental consultant's perimeter air monitoring is to document air quality at the site perimeter. This data will be provided to the contractor, upon request, typically within 2 days of the collection of the air samples. Such data should not be considered adequate for real-time air monitoring

in the work zone. Provide 14 calendar days advance notice of the preconstruction meeting date to the environmental consultant. At the preconstruction meeting:

- Provide a proposed schedule for significant excavations, including a detailed schedule with estimated quantities in known areas of ACM;
- Identify the WDNR-licensed disposal facility to be used for disposal of the ACM;
- Provide a description and schedule for the training program for excavators and off-site material haulers in handling ACM;
- Provide a site-specific health and safety plan that addresses the health and safety of workers in contaminated areas, decontamination of workers and equipment, and site control for contaminated areas; and
- Provide certifications of appropriate health and safety training for workers in contaminated areas.

Notify the environmental consultant 10 business days prior to commencement of the initial excavation. Provide the environmental consultant with weekly updates of schedule for the subsequent 3 weeks for all planned excavations. Provide the environmental consultant a minimum 2-business day notice of any excavations not previously reflected on weekly updates or changes to excavation schedules.

16. Notice to Contractor – Coordination with City of Milwaukee.

Contractor shall be responsible for coordination with the City of Milwaukee Department of Public Works (DPW). Coordinate with Joseph Blakeman, Traffic and Lighting Engineer at the City of Milwaukee at (414) 286-8070.

The department has obtained a construction permit from the City of Milwaukee. A copy of the permit is available from the regional office by contacting Christine Hanna, WisDOT SE Region, at (262) 548-8809.

17. Notice to Contractor – Coordination with Milwaukee County.

Contractor shall be responsible for coordination with the Milwaukee County. Coordinate with Kevin Haley, at the Milwaukee County Parks System at (414) 257-6242 or email khaley@milwcnty.com.

The department has obtained a construction permit from Milwaukee County. A copy of the permit is available from the regional office by contacting Christine Hanna, WisDOT SE Region, at (262) 548-8809. The contractor will be required to perform additional coordination with the county including proposed access routes, vegetation pruning and removal, location and construction methods for proposed work, and site restoration.

18. 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://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/rdwy/default.aspx>

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://wisconsin.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/qual-labs.aspx>

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 4 additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after 4 additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.
- (4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.
- (5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:
 1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
 2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
 3. The fracture control limit is exceeded by more than 10.0 percent.

B.8 Department Testing

B.8.1 General

- (1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 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 (20151210)

19. Riprap.

Replace standard spec 606.2.1(3) with the following:

Waste concrete shall not be used as riprap.

20. Temporary Ditch Checks.

Replace standard spec 628.3.14(2) with the following:

Construct temporary ditch checks using a manufactured alternative from the PAL. Place temporary ditch checks across ditches at locations the plans show or as the engineer directs immediately after shaping the ditches or slopes. Excavate upstream sumps as the engineer directs. Do not use erosion bales as ditch checks.

21. Erosion Mat.

Replace standard spec 628.2.1.2 with the following:

Before installing Erosion Mat, submit to the engineer a written copy of the manufacturer's specifications for installing that product on slopes, channels, shorelines, high wind locations, and next to live traffic lanes as applicable to the contract installation. Install Erosion Mat conforming to those manufacturer's specifications. The department may specify modifications to the manufacturer's procedures for individual materials within standard spec 628.

The department may sample and test Erosion Mat supplied in the field to verify that they conform to the manufacturer's reported test results. Provide samples as the engineer directs.

Add the following to standard spec 628.2.2:

Provide 100% biodegradable erosion mat.

22. Fence Safety, Item 616.0700.S.

A Description

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

B Materials

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

Furnish fence fabric meeting the following requirements.

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

C Construction

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

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)

23. Excavation Special - ACM, Item SPV.0035.01.

A Description

This special provision describes excavating, segregating, temporarily stockpiling (as required), loading, hauling, and placing Asbestos Containing Material (ACM) at the Airline Yards property or disposing of ACM and fill material at a disposal facility licensed by the WDNR if required. No additional payment will be made for tipping fees associated with the disposal of the ACM.

Perform work in accordance to standard spec 205; to pertinent parts of the Wisconsin Administration Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500 – 538, Solid Waste, Wisconsin Administration Code, Chapter 447, Control of Asbestos Emissions; and as shown on the plans and as supplemented herein.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Material excavated in the areas of known and assumed ACM, which include Three Bridges Park between the CP Railroad and the Menomonee River, will either be re-placed at the Airline Yards property or hauled directly to the selected landfill.

Handling, loading, and placement of ACM will follow the best management practices (BMPs) as outlined as follows:

Send written notices to appropriate State and local (the City of Milwaukee Department of Neighborhood Services and the Wisconsin Department of Natural Resources) pollution control agencies responsible for enforcement of National Emission Standard for Asbestos at least 10 days prior to the commencement of excavation of potential ACM as described in 40 CFR Part 61.145 of Subpart M, Chapter NR447, Wisconsin Administrative Code, and any applicable local requirements. Provide engineer and environmental consultant with a copy of the notice.

The ACM and non-ACM that have been co-mingled with the ACM are considered to be ACM and must be managed and handled as such. Comply with applicable requirements of Chapter NR 447 of the Wisconsin Administrative Code for the management of asbestos containing materials. Contractors shall be responsible for complying with OSHA regulations for workers involved in ACM handling operations, including the provision of PPE. Operator and site workers will have completed 2-hour asbestos awareness training prior to beginning excavations of potential ACM.

Contractor shall have an individual meeting the definition of a “Competent Person” per 29 CFR 1926.1101 on-site at all times during handling, loading, and placement of ACM.

- The ACM debris and soil shall be adequately wet before, during, and after its movement and placement within a designated location. ACM shall not at anytime be run over in a manner that could cause pulverizing, crushing, breaking, grinding or other dust producing process.
- Demarcate work area where ACM is exposed during ACM handling work. Restrict access to area to qualified personnel only. At a minimum use caution tape, restricted access signage, and asbestos warning signage.

- Within the demarcation extents, at the designated exit point where equipment and personnel are to leave the demarcation area, establish one decontamination zone. The zone shall be used to decontaminate equipment, tools, boots, etc. that comes into contact with ACM. Pressurized water hose shall be provided at the decontamination area for water rinsing.
- Trucks used to transport ACM may either be protected from contamination by the use of a plastic bed liner or the trucks must be dedicated specifically to ACM management activities and will require decontamination at the completion of hauling ACM for this project and before hauling any non-ACM from this or other projects. Provide the location and method of decontamination to the Environmental Consultant. In addition, an anchored cover must be placed over the material located within the bed of the truck during transport of potential ACM.
- ACM soil areas shall be covered daily (at its final location) with 1 foot of non-ACM soil; plastic sheeting; or other impervious surface in accordance to NR 718.05(3)(e). Install Short Term ACM Cover in accordance to the installation instructions provided by the manufacturer or as directed by the engineer.

Wetting of the ACM shall continue during placement. ACM shall be replaced at the Airline Yards property within the area designated for placement of ACM on the plans and covered according to the project plans.

The environmental consultant will observe and document clean-up activities, and review contractor operations to confirm and document that the best management practices used during the ACM handling and placement activities effectively control the generation of dust. The Environmental Consultant will have the ability to stop work as necessary until the generation of dust is controlled.

If during excavation within the areas of known or assumed ACM, materials are encountered that exhibit characteristics of municipal wastes or when conditions such as underground storage tanks or soil/fill material with noticeable impacts from petroleum or chemical products, or other obvious potentially contaminated materials are encountered, suspend excavation in that area and notify the engineer and the environmental consultant. Continue work at another location(s) as is possible until such time that excavations can continue in that area.

The environmental consultant will conduct a visual assessment, conduct field-screening, and evaluate material for the presence of ACM during excavations. Based on the results of field activities the materials shall be designated by the department's environmental consultant as follows:

- Contaminated Material/ACM - for treatment and disposal at the WDNR-licensed treatment and disposal facility.
- ACM - low-level impacted materials for placement at the City of Milwaukee Airline Yards site.
- Potentially contaminated materials requiring temporary stockpiling and additional characterization prior to disposition.

If potentially contaminated materials requiring additional characterization are encountered, assist the environmental consultant in collecting soil samples using excavation equipment, if required. The environmental consultant may collect soil samples from the excavations. The sampling frequency, if required, will be a maximum of one sample for every 100 cubic yards excavated.

Contaminated Material/ACM to be disposed of at the WDNR-licensed treatment and disposal facility may be temporarily stockpiled within the project limits. Construct and maintain the temporary stockpile in accordance to NR 718.05(3), including, but not limited to, placing the contaminated soil/fill material on an impervious surface and covering the stockpile with material to prevent infiltration of precipitation and migration of ACM.

The department's environmental consultant will collect representative samples of the stockpiled material requiring additional characterization, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. As an alternative to temporary stockpiling contaminated soil/fill material that require additional characterization, exercise the option of suspending excavation in those areas until such time as characterization is completed.

The contractor can obtain available soil asbestos testing results by contacting Dan Haak, TRC, at (608) 826-3628.

D Measurement

The department will measure Excavation Special - ACM by the cubic yard, acceptably completed, as computed using the method of average end areas with no correction for curvature, or by measurement of trucks hauling the material from the site.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Excavation Special – ACM	CY

Payment is full compensation for excavating, segregating, loading, hauling, and placing of ACM; obtaining ACM handling and transportation service operating licenses; and for daily cover of ACM.

24. Fieldstone Riprap Light, SPV.0035.02; Fieldstone Riprap Medium, SPV.0035.03.

A Description

This special provision describes constructing riprap as shown on the plans, as directed by the engineer in the field, and as described herein.

B Materials

Furnish durable Wisconsin native field, stream, or river stone that is sound, hard, dense, resistant to the action of air and water, and free of seams, cracks, or other structural defects. Use stone pieces with a length and width no more than twice the thickness. Stones shall have a blend of colors. Avoid stones that are predominately white or gray in color. Do not place material without the engineer's approval of the stone quality, size, and shape.

Conform to standard spec 606.2(2) for the appropriate sizes.

Waste concrete shall not be used as riprap.

C Construction

Conform to standard spec 606.3.

Make light riprap at least 12 inches thick, medium riprap at least 18 inches thick.

D Measurement

The department will measure Fieldstone Riprap (Type) by the cubic yard, acceptably completed, measured as the volume within the limiting dimensions the contract designates or the engineer establishes in the field.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Fieldstone Riprap Light	CY
SPV.0035.03	Fieldstone Riprap Medium	CY

Payment is full compensation for preparing the bed, providing and placing riprap, restoring adjacent work, and disposing of surplus material. The department will pay for excavation in excess of the approximate volume of earth occupied by the riprap under the appropriate earthwork item in the contract.

25. Coloring Concrete Sequoia Sand, SPV.0035.04.**A Description**

This special provision describes coloring concrete used to construct work under other contract bid items as well as any special materials and special construction techniques associated with using colored concrete.

B Materials

Comply with standard spec 405.2.

Replace standard spec 405.2.1(1) with the following:

Integrally color concrete using non-fading pigments conforming to ASTM C979 as follows:

For Sequoia Sand, match the concrete color in reasonably close conformance with “Sequoia Sand,” color 641 in the 2011 Davis Colors Concrete Color Selector available from Davis Colors at (800) 356-4848, www.daviscolors.com.

Delete standard spec 405.2.4.2.

C Construction

Conform to standard spec 405.3.

D Measurement

The department will measure the Coloring Concrete Sequoia Sand by the cubic yard acceptably incorporated into work done under other contract bid items including material incorporated into one sample panel or one test slab that achieves a color the engineer accepts as required under Part C. Measured volumes will be based on the measured horizontal areas multiplied by the depth or thickness of the concrete as shown on the drawings. No additional payment will be made for extra concrete placed due to imprecise placement and preparation of sub-base.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.04	Coloring Concrete Sequoia Sand	CY

Payment is full compensation for developing mix designs and providing sample panels or test slabs; for furnishing pigments; for special construction procedures required under Part C; for removing test slabs, restoring the site, and disposing of waste material; and for other costs not included in associated contract bid items.

26. Entrance and Donor Displays, SPV.0055.01.

A Description

This special provision describes administration and coordination for special signage and donor displays.

B Materials

Coordinate entrance and donor displays with artist, and local project sponsor:

Project Sponsor:
Melissa Cook
2300 N Martin Luther King Jr. Drive
Milwaukee, WI 53212
(414) 263-8559
Melissa.cook@wisconsin.gov

Artist:
Scathain, LLC
Katerina Nissa Sanerib
422 South Fourth Street
Milwaukee, Wisconsin 53204
(414) 988-4031
k.sanerib@scathain.com

Contact the artist, and local project sponsor prior to the preconstruction conference to coordinate schedule. Coordinate with artists to schedule delivery and installation. Contact the local project sponsor following installation. The project sponsor will inspect and provide acceptance of the signs.

C Construction

Provide payment of an initial \$50,773 to the artist to begin work fabricating the displays. Upon final acceptance of the displays by the local project sponsor, provide final payment of an additional \$50,773.61 to the artist.

If the displays are not acceptable to the local sponsor, coordinate remedial actions with the artist.

D Measurement

The department will measure Entrance and Donor Displays by the dollar, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0055.01	Entrance and Donor Displays	Dollar

Payment is full compensation for the displays. Coordinating and administering installation is incidental to this bid item.

Under this item the department will make two separate payments to the contract. The initial invoiced payment to the artist, and the final invoiced payment as indicated above.

27. Zinc Dome, SPV.0060.01.

A Description

This special provision describes furnishing and installation of a decorative zinc dome as shown on the plans, as directed by the engineer and as described herein.

B Materials

Furnish zinc dome as shown on the plans. Submit shop drawings and samples as shown on the plans and as directed by the engineer.

C Construction

Install zinc dome as shown on the plans and according to the manufacturer's specifications.

D Measurement

The department will measure Zinc Dome by each dome, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Zinc Dome	Each

Payment is full compensation for furnishing and installing the Zinc Dome, and for submitting shop drawings and samples are required.

28. LED In Ground Light Fixture, SPV.0060.02.

A Description

This special provision describes furnishing and installation of an LED In Ground Light Fixture as shown on the plans, as directed by the engineer and as described herein.

B Materials

LED In Ground Light Fixture by one of the following manufacturers, or approved equal:

LSI GREENLEE MODEL #XIG-B-LED-19-350-NW-UE-FL40-NB,
BETA-CALCO NEXSUS MODEL #810 5315 RIH 017,
BEGA MODEL #7914LED/MOD FROSTED LENS

C Construction

Install light fixture as shown on the plans and according to the manufacturer's specifications.

D Measurement

The department will measure LED In Ground Light Fixture by each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	LED In Ground Light Fixture	Each

Payment is full compensation for furnishing and installing the Light Fixture, and for submitting shop drawings and samples as required.

29. Native Vegetation Surveillance and Care Cycles, SPV.0060.03.

A Description

Properly care for all plants within the limits of the project from 4 weeks after contract execution until November 15, 2018.

Proper care of native vegetation consists of watering, weeding, cultivating, pruning, spraying, and other work necessary to keep the plants in a healthy growing condition.

B (Vacant)

C Construction

Care Cycle

Provide one person, called the care specialist, responsible for inspecting and performing the required care. Also provide other personnel, vehicles, equipment, tools, and materials needed to accomplish the inspection and care. Have the care specialist do the following:

- Perform care requirements to the satisfaction of the engineer a minimum of once every care cycle as defined below.
- Notify the engineer at least two days before the beginning of each care cycle.
- If herbicide spraying is to be performed during the care cycle the contractor is to submit a diagram of which areas are to be treated to the engineer for the pre-approval. Scheduled herbicide applications are to be performed on Mondays if feasible.
- Submit a written report to the engineer within two working days of the completion of each care cycle. Ensure that the report documents the work performed during the care cycle; the number, type, and location of each seeded area that was re-seeded; and other information the engineer or the specialist deems appropriate.
- A 10-day to 14-day interval during the growing season shall be defined as a care cycle. The growing season may extend from March 15 until November 15 depending upon weather and growing conditions.

Work Plan

The care specialist shall provide a work plan to the engineer for approval by 4 weeks after contract execution. The work plan shall include a detailed schedule and itemization of work to be completed during the 2016 growing season and shall be broken down into individual

care cycles. The work plan shall be updated monthly during the growing season and shall be submitted to the engineer for approval. If the work plan is not approved by the engineer, the care specialist shall revise the work plan and resubmit it for approval by the engineer.

The care specialist shall provide a revised 2017 growing season work plan to the engineer for approval by March 15, 2017. The revised work plan shall include a detailed schedule and itemization of work to be completed during the 2017 growing season and shall be broken down into individual care cycles. The work plan shall be updated monthly during the growing season and shall be submitted to the engineer for approval. If the work plan is not approved by the engineer, the care specialist shall revise the work plan and resubmit it for approval by the engineer.

The care specialist shall provide a revised 2018 growing season work plan to the engineer for approval by March 15, 2018. The revised work plan shall include a detailed schedule and itemization of work to be completed during the 2018 growing season and shall be broken down into individual care cycles. The work plan shall be updated monthly during the growing season and shall be submitted to the engineer for approval. If the work plan is not approved by the engineer, the care specialist shall revise the work plan and resubmit it for approval by the engineer.

Weed Control

Coordinate with the engineer for application of insecticide, fungicide and herbicide. Herbicide shall be applied by a licensed applicator. Hand pulling of weeds may be necessary. Use hand pulling and integrated pest management practices to minimize the use of pesticides and reduce hazards.

At no time shall any of the weedy species identified in this section occupy an area greater than 0.5 square meters at any one location alone or in combination of species:

- Bird's Foot Trefoil (*Lotus corniculatus*), Crown Vetch (*Coronilla varia*), Spotted Knapweed (*Centaurea stoebe* L. ssp. *micranthos*), Teasel species (*Dipsacus* sp.), White Sweet Clover (*Melilotus alba*), Yellow Sweet Clover (*Melilotus officinalis*), Field Thistle (*Cirsium arvense*), Burdock (*Arctium* sp.), Common Buckthorn (*Rhamnus* spp.), Eurasian honeysuckles (*Lonicera* spp.), Cattails (*Typha* spp.), Reed Canary Grass (*Phalaris arundinacea*), Purple Loosestrife (*Lythrum salicaria*), or other noxious weeds for the Great Lakes region as defined by the USDA Natural Resources Conservation Service (<http://plants.usda.gov>) or the Midwest Invasive Plant Network (www.mipn.org).

There shall be no Giant Reed (*Phragmites australis*) or Japanese Knotweed (*Polygonum cuspidatum*) in evidence on the site.

Quality Control

In upland areas, the engineer will establish four transects in a stratified random pattern across each of the 6 major landforms on the site with no more than 20 quarter meter quadrats per transect. For bioswales and rain gardens, the engineer will establish one longitudinal transect

in a stratified random pattern in each bioswale with no more than 20 quarter meter quadrats per transect. The engineer will establish an additional six transects in problem locations.

The engineer will conduct a monitoring survey based on the above transects 3 times during each growing season. Surveys shall occur on or near July 1, August 15, and October 1. No invasive species as defined above, or other noxious weeds for the Great Lakes region as defined by the USDA Natural Resources Conservation Service (<http://plants.usda.gov>) or the Midwest Invasive Plant Network (www.mipn.org) shall, individually or combined, have a Relative Importance (RIV 100) higher than 50%. In addition, the comparative results of the monitoring surveys shall show a positive trajectory in performance, as evidenced by an increase of native species and a decrease of invasive species, at the end of the first and second full growing season.

The care specialist shall take corrective action if any of the above performance measures are not achieved. The corrective actions shall be documented in the work plan. The engineer shall approve all corrective actions required to meet performance measures and documented in the work plan.

Damages

If the care specialist fails to perform any of the required care cycles as specified herein and as provided for in the care specialist work plan, the department will assess daily damages in the amount of \$100 to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

Acceptance or Replacement of Seeded Areas

Near the end of each growing season, but not later than September 15, the engineer will make final inspection of the areas seeded with Pioneer Native Seed Mix under this contract and approve only those seeded areas in a healthy growing condition. Areas that are not approved shall be reseeded. Reseeding shall be incidental to the Native Vegetation Surveillance and Care Cycles item.

D Measurement

The department will measure Native Vegetation Surveillance and Care Cycles as each individual care cycle the care specialist, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Native Vegetation Surveillance and Care Cycles	Each

Payment is full compensation for furnishing all the work required under this bid item including providing the care specialist work plan, watering, weeding, re-seeding as required, materials such as water, herbicide, insecticides, fungicide, and all materials, equipment, and incidentals necessary to acceptably complete the surveillance and care cycles.

30. Invasive Species Control, Item SPV.0060.04.

A Description

This special provision describes Invasive Species Control as shown in the drawings and as described herein.

B Materials

Materials shall meet the minimum requirements of the plans and specifications in the original contract documents.

C Construction

Includes four site visits during the 2016 growing season to control invasive and aggressive weeds within all treatment zones. Stewardship visits will be made monthly from May through August. Control methods will include selective mowing or hand cutting of annual and biennial species, and herbicide application of perennials, biennials and woody species as appropriate. Target species for management include all adventive herbaceous weeds. This includes, but is not limited to observed populations of *Allaria petiolaris* (Garlic Mustard), *Phalaris arundinacea* (Reed Canarygrass), and various cool season turf grasses. Native species will be protected and preserved. A restoration ecologist will monitor site conditions, determine species targeting as the growing season progresses, and direct stewardship efforts. A report summarizing observed site conditions and stewardship activities performed will be provided following each individual stewardship visit, and be used to advise future management and enhancement activities.

Work shall be done as shown on the drawings or as directed by the engineer.

D Measurement

The department will measure Invasive Species Control by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Invasive Species Control	Each

Payment is full compensation for providing all materials; for mowing or hand cutting of targeted species, herbicide application of target perennials, and report preparation.

31. Nurse Crop Seed Mix, Item SPV.0085.01.

A Description

This specification describes a special seed mix for areas to receive a seeded nurse crop, including all areas to be seeded with special native seed mixes. This item shall be completed using the specifications of standard spec 630 and the seed mix ratios herein. If seeding is to occur after September 1st substitute winter wheat for oats in the nurse crop seed mix per standard spec 630.

B Materials

Nurse crop

Species	Percent Germination (%)	Percent Mixture (%)
<i>Oats</i>	85	30
<i>Flax</i>	85	20
<i>Buckwheat</i>	85	20
<i>Annual Ryegrass</i>	85	30
Approximate Total		100

Nurse Crop to be applied at a rate of 80 pounds per acre.

C (Vacant)

D Measurement

The department will measure Nurse Crop Seed Mix Special by the pound, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Nurse Crop Seed Mix	LB

Payment is full compensation for providing, weighing, mixing, and storing all seed; for providing the required culture and inoculating seed as specified; for supplying water, sand or sawdust for mixing seed; and for preparing the seed bed, sowing, covering and firming the seed.

32. Pioneer Native Seed Mix, Item SPV.0085.02.

A Description

This special provision describes supplying native seed for planting in; supplying seed samples, germination test data and storage and delivery of seed, and seeding; all in accordance with standard spec 630 and the special provisions provided herein.

B Materials

Use the following native seed specifications during seed acquisition.

1. Provide native seed true to species, packed separately, with label information including scientific and common name, quantity, date and location picked, name and company supervising the picking. Refer to standard spec 630.2.1.1(3) which refers to wild forbes and grasses. Substitute the following seed list and provide seed at the following rates as shown in the list and on the plan.

2. Provide seed free of non-seed debris and of non-native and/or invasive species including, but not limited to, reed canary grass, purple loosestrife, spotted knapweed and Canada thistle.
3. Provide seed of local ecotype and origin no further than 150 linear miles from the project location, and from within the State of Wisconsin. Three separate nurseries are to be used for the seed, with roughly 1/3 of each species coming from the individual nurseries.
4. Provide seed that was picked at the appropriate time for ripeness and viability. Obtain germination test results and certification for a random sample of each species prior to receiving delivery of the seed. Provide written documentation of germination tests to the engineer prior to seeding.
5. Accept seed only if it has a minimum germination rate of 80 percent. If the seed does not meet the minimum required 80 percent germination rate, additional seed must be supplied at the cost of the seed supplier/contractor to meet the total viable seed quantity.
6. Prior to seeding, obtain approval from the engineer for all substitutions or changes to the seeding schedule. All seed quantities provided assume a minimum 80% germination rate.

B.1 Seed Mixes

Seed to be applied at a rate of 16 pounds per acre. Seed mixture shall be as specified or approved equal.

B.1.1 Grasses

Seed at 40% of total mix

Common Name	Botanical Name	Percent Mixture (%)
Big bluestem	<i>Andropogon gerardii</i>	15
Little bluestem	<i>Andropogon scoparius</i>	20
Side-Oats Grama	<i>Bouteloua curtipendula</i>	25
Canada wild rye	<i>Elymus canadensis</i>	10
Switch grass	<i>Panicum virgatum</i>	5
Indian grass	<i>Sorghastrum nutans</i>	15
Prairie dropseed	<i>Sporobolus heterolepis</i>	5
Prairie Brome Grass	<i>Bromus Kalmi</i>	5
Total % of Grasses		100

B.1.2 Forbs

Seed at 60% of total mix

		Percent Mixture
Common Name	Common Name	(%)
Smooth blue aster	<i>Aster laevis</i>	2
New England aster	<i>Aster novae-angliae</i>	2
Partridge pea	<i>Cassia tripteris</i>	10
Tall coreopsis	<i>Coreopsis tripteris</i>	2
Showy tick trefoil	<i>Desmodium canadense</i>	6
Pale purple cone flower	<i>Echinacea pallida</i>	8
Flowering spurge	<i>Euphorbia corollata</i>	1
Prairie sunflower	<i>Helianthus rigidus</i>	1
False sunflower	<i>Helianthus helianthoides</i>	4
Round-headed bush clover	<i>Lespedeza capitata</i>	3
Bee balm	<i>Monarda fistulosa</i>	2
Foxglove beard tongue	<i>Penstemon digitalis</i>	1
Purple prairie clover	<i>Petalostemum purpureum</i>	10
Yellow coneflower	<i>Ratibida pinnata</i>	7
Black-eyed susan	<i>Rudbeckia hirta</i>	10
Rosin weed	<i>Silphium integrifolium</i>	4
Compass plant	<i>Silphium laciniatum</i>	4
Prairie dock	<i>Silphium terebinthinaceum</i>	1
Rigid goldenrod	<i>Solidago rigida</i>	4
Ohio spiderwort	<i>Tradescantia ohiensis</i>	4
Hoary vervain	<i>Verbena stricta</i>	4
Prairie Thimbleweed	<i>Anemone cylindrica</i>	1
Prairie Smoke	<i>Geum triflorum</i>	1
Great St. John's Wort	<i>Hypericum pyramidatum</i>	1
Wild Quinine	<i>Parthenium integrifolium</i>	2
Wood Betony	<i>Pedicularis canadensis</i>	1
Prairie Cinquefoil	<i>Potentilla arguta</i>	1
Meadow Rue	<i>Thalictrum dasycarpum</i>	1
Golden alexanders	<i>Zizia aurea</i>	2
Total % of Forbs		100

C Construction

C.1

Refer to standard spec 630.3 and add the following.

Sow seed in all areas of bare soil measuring 0.5 square yards or greater or as directed by the engineer.

Just prior to seeding, prepare the seed bed by hand raking the area to be seeded. Obtain a reasonably even and loose seed bed, free of clods, to a minimum depth of 3 inches.

C.2

Mix the seed at the project site, or as directed by the engineer. Do not seed in flooded areas or when conditions are otherwise unsatisfactory for seeding. Provide the engineer five working days notice prior to any seeding activities. Scatter seed by hand with satisfactory hand seeders. Complete sowing only when the air is calm enough to prevent the seed from blowing away. After seeding, lightly rake the area to cover the seed with no more than a 1/4-inch of soil. All areas shall be firmly rolled after seed is placed.

C.3

Mix and sow seed on the same day. Sow nurse crop seed and pioneer native seed together.

C.4

Mix seed with moist sand sawdust or compost prior to seeding. Provide water on site to moisten the sand or sawdust using a ratio of one part moist sand or sawdust to one part native pioneer native seed mix and nurse crop seed mix by volume.

Initial seeding of all areas shall be completed by June 15, 2016. Additional seeding may be required throughout the growing season.

D Measurement

The department will measure Pioneer Native Seed Mix meeting the required 80 percent germination rate by the actual pounds of native seed, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.03	Pioneer Native Seed Mix	LB

Payment is full compensation for providing, weighing, mixing, and storing all seed; for providing the required culture and inoculating seed as specified; for supplying water, sand or sawdust for mixing seed; and for preparing the seed bed, sowing, covering and firming the seed.

33. Slope Interruptor Socks 8" Foundation, Item SPV.0090.01.

A Description

This special provision describes furnishing and installing slope interruptor (slope interruption socks).

B Materials

B.1 Mesh

Slope interruptor mesh to be multi-filament photo-degradable 5 mil high density polyethylene with 1/8" diamond mesh opening. Tensile strength of the mesh to be 528 psi.

B.2 Media

Slope interruptor media shall be a homogeneous mixture of the following components, by volume:

- 50% - Compost meeting particle size requirements for filter media, below.
- 50% - Compost meeting particle size requirements for growing media, below.

Slope interruptor compost media shall be a composted, weed free organic matter source derived from: agricultural, food, or industrial residuals; yard trimmings; source-separated or mixed solid waste. Particle size may vary widely. The compost shall possess no objectionable odors, will be reasonably free (< 1% by dry weight) of man-made foreign matter and will meet the product parameters outlined below. The product shall be certified through the U.S. Composting Council's (USCC) Seal of Testing Assurance (STA) Program. Before delivery of the compost, supplier must provide a copy of the lab analysis, performed by a STA Program certified lab, verifying that the compost meets the product parameters listed below. The lab analysis shall not be more than 90 days old.

	Min	Max
Organic Matter Content	25%	65%
C/N Ratio	10:1	20:1
pH	6	8.5
Moisture Content	30%	60%
Soluble salts (mmhos/cm)		5

Particle sizes for filter media to be as follows, measured on a dry weight basis by percent passing a selected mesh size:

- 3" Mesh, 100% passing
- 1" Mesh, 90% - 100% passing
- 3/4" Mesh, 70% - 100% passing
- 1/4" Mesh, 30% - 75% passing
- Maximum particle length of 6"

Particle sizes for growing media to be as follows, measured on a dry weight basis by percent passing a selected mesh size:

3/4" Mesh, 98% - 100% passing

C Construction

Install Slope Interruptor Socks 8" Foundation per manufacturer's recommendations, and as shown on the drawings. Removal of Slope Interruptor Socks 8" Foundation will be required only as directed by the engineer.

Slope interruptors shall be seeded with Nurse Crop Seed Mix are to be seeded at a rate of 4 ounce of seed mix per 40 linear feet of Slope Interruptor.

D Measurement

The department will measure Slope Interruptor Socks 8" Foundation by linear foot, 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.0090.01	Slope Interruptor Socks 8" Foundation	LF

Payment is full compensation for providing and installing all materials necessary to completely install the slope interruptor.

34. 1" Coilable HDPE Conduit, Item SPV.0090.02.

A Description

This special provision describes furnishing and installing of 1" Coilable HDPE Conduit.

B Materials

Furnish polyethylene duct which is intended for underground use and can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties of performance. The conduit and its manufacture shall be according to the standards of NEMA Publication No. TC-7 and ASTM D 3485.

The conduit shall be made of high density polyethylene which shall meet the requirements of ASTM D 1248, Type III Class C and the requirements listed in Section 3 of NEMA Standard Publication No. TC-7.

Duct dimensions shall be according to the standards listed in Section 3 of NEMA Standard Publication No. TC-7.

Performance Tests. Testing procedures and test results shall meet the requirements of NEMA Standard Publication No. TC 7 Sections 3 and 4. Certified copies of the test report shall be submitted to the engineer prior to the installation of the conduit.

C Construction

Install in continuous lengths, without splicing.

Bends of conduit shall be made manually so the duct will not be damaged and the internal diameter of the duct will not be effectively reduced. No more than the equivalent of four quarter bends (360 degrees total) shall be made between termination/pull points.

D Measurement

The department will measure 1" Coilable HDPE Conduit by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	1" Coilable HDPE Conduit	LF

Payment is full compensation for providing and installing all materials necessary to completely install the 1" Coilable HDPE Conduit.

35. Flagging Hank Aaron State Trail, Item SPV.0105.01.

A Description

This special provision describes flagging bicycle and pedestrian traffic on the Hank Aaron State Trail as shown on the plans, as directed by the engineer, and as described herein.

B (Vacant)

C Construction

The contractor shall be responsible for stopping traffic on the Hank Aaron State Trail when the contractor will be using this portion of the trail. These times include but are not limited to when this portion of the trail is used as a haul road, when grading and shaping operations will occur, and when the contractor is moving materials and equipment along this portion of the trail.

Flagging will be required when the trail is fully blocked or moving equipment presents a hazard to the travelling public as determined by the engineer. If the trail is partially blocked and pedestrians and bicyclist can safely pass the work zone, then flagging may not be required.

Hank Aaron State Trail traffic shall be allowed to pass when construction vehicles have cleared the trail.

D Measurement

The department will measure Flagging Hank Aaron State Trail by the lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Flagging Hank Aaron State Trail	LS

Payment is full compensation for performing flagging operations for the duration of the project.

36. UEC Community Garden Water Line, Item SPV.0105.02.

A Description

A.1 Summary

This special provision describes furnishing and installing UEC Community Garden Water Line in accordance with the pertinent plan details, the standard specifications, as directed by the engineer, and as hereinafter provided.

A.2 Performance Requirements

A.2.A Valve Boxes

Provide valve boxes capable of withstanding loading due to vehicle traffic without exceeding the allowable design working stress of the materials involved, including fasteners.

A.2.B Entrenched 2" HDPE Pipe

Provide HDPE pipe capable of withstanding loading when entrenched due to vehicle traffic without exceeding the allowable design working stress of the materials involved, including fittings.

A.3 Submittals

Product Data: For valve boxes, HDPE pipe, galvanized steel pipe, and the following:

1. 2" x 2" x 2" Brass tee.
2. 2" Brass gate valve.
3. 2" Brass screw on cap.
4. 2" x 3/4" Brass MPT reducer.
5. 3/4" Quick connect valve with locking lid.
6. 3/4" Quick connect key.
7. 3/4" Hose swivel.
8. Mounting bracket.
9. Concrete anchor screws.

A.4 Shop Drawings

Show installation details for valve boxes, entrenched HDPE pipe, galvanized steel pipe, and applicable connections.

For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

A.5 Quality Assurance

A.5.1 Installer Qualifications

A.5.2 Professional Engineer Qualifications

A professional engineer who is legally qualified to practice in jurisdiction where project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations that are similar to those indicated for this project in material, design, and extent.

A.6 Coordination

Coordinate installation of items that are to be embedded in concrete or masonry. Deliver such items to project site in time for installation.

B Materials

B.1 Manufacturers

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

B.2 Plastic Valve Box

ASTM D638, D792, D256, and D648.

B.3 2" HDPE Pipe

ASTM F2619.

B.4 2" Galvanized Steel Pipe

ASTM A123.

B.5 Brass Pipe Fittings

ASTM B43-14.

B.6 Steel Brackets

ASTM F708.

B.7 Fasteners

Provide zinc-plated fasteners with coating complying with ASTM B 633, Class Fe/Zn 25 for exterior use, and Class Fe/Zn 5 where built into exterior walls. Select fasteners for type, grade, and class required.

C Construction

C.1 Fastening to In-Place Construction

Provide anchorage devices and fasteners where necessary for securing 2" galvanized pipe to in-place construction. Include threaded fasteners for concrete and masonry inserts, lag bolts, and other connectors.

C.2 Cutting, Fitting, and Placement

C.2.1 Plastic Valve Box

Excavate location per plans and prepare valve box assembly. Once suitable depth attained, create base layer with 6" – 8" of #1 Virgin Wash Stone. Mount the pipes through the valve box and ensure it sits level in the excavation. Install the locking components to the lid and seat the lid on the box, ensuring that the top edge of the lid is flush with the existing surface. Backfill with excavated material and tamper to attain acceptable soil compaction.

C.2.2 2" Galvanized Steel Pipe

Perform cutting, drilling, and fitting required for installing 2" galvanized steel pipe. Set pipe accurately in location, alignment, and elevation, measured from established lines and levels and free from rack.

Install galvanized pipe by anchoring with brackets and fasteners to concrete or masonry.

C.2.3 2" HDPE Pipe

Excavate location per plans and prepare pipe. Once suitable depth of trench attained, HDPE pipe should be laid out next to trench, along with fittings and all necessary wood blocking (to keep working end off of the ground). The pipe should be fitted and joined using the required Teflon / PTFE tape, keeping the union space clean and free of debris during joining. Installation should follow Chapter 7-Underground Installation of PE Pipe, from the Plastic Pipe Institute's Handbook of PE Pipe.

Any disturbed trail surface should be replaced in-kind.

D Measurement

The department will measure UEC Community Garden Water Line as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	UEC Community Garden Water Line	LS

Payment is full compensation for furnishing all materials, delivery and placement of materials, all labor for installation, and restoration of trail surfaces in kind.

37. Solar Panel, Battery System and Foundation, Item SPV.0105.03.

A Description

This special provision describes furnishing and installation of a Solar Panel, Battery System and Foundation as shown on the plans, as directed by the engineer and as described herein.

B Materials

Furnish solar array, steel pole, battery box, concrete masonry, bar reinforcement, and helical piers as shown on the plans.

C Construction

Install foundation, pole, solar array, and battery box as shown on the plans and according to the manufacturer's specifications.

D Measurement

The department will measure Solar Panel, Battery System and Foundation as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Solar Panel, Battery System and Foundation	LS

Payment is full compensation for furnishing all materials, delivery and placement of materials, and all labor for installation.

38. Path Edge Seed Mix, Item SPV.0145.01.

A Description

This special provision describes a seed mix for areas near the paved bike trail as shown on the plans. This item should be completed using the specifications of standard spec 630 and the seed mix ratios herein.

B Materials

B.1 General

Furnish seed mix made of a homogeneous blend of seeds as described below.

B.2 Seed Mix

Ditch seed mix to be applied at a rate of 0.75 oz per acre. Seed mixture shall be as specified or approved equal.

Common Name	Botanical Name	Percent Mixture (%)
Blue Gramma	<i>Boutoula gracilis</i>	30
Common Wood Sedge	<i>Carex Blanda</i>	28
Poverty Oats	<i>Danthonia spicata</i>	15
Purple Love Grass	<i>Eragrostis spectabilis</i>	5
Path Rush	<i>Juncus tenuis</i>	2
June Grass	<i>Koeleria "cristata" macrantha</i>	20
Approximate Total		100

C (Vacant)

D Measurement

The department will measure Path Edge Seed Mix by the ounce, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0145.01	Path Edge Seed Mix	OZ

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering and firming the seed.

39. Ditch Seed Mix, Item SPV.0145.02.

A Description

This special provision describes a seed mix for wet areas as shown on the plans. This item should be completed using the specifications of standard spec 630 and the seed mix ratios herein.

B Materials

B.1 General

Furnish seed mix made of a homogeneous blend of seeds as described below.

B.2 Seed Mix

Ditch seed mix to be applied at a rate of 3.25 oz per acre. Seed mixture shall be as specified or approved equal.

Common Name	Botanical Name	Percent Mixture (%)
Prairie Cordgrass	<i>Spartina pectinata</i>	15
Sneezeweed	<i>Helenium autumnale</i>	10
Monkeyflower	<i>Mimulus ringens</i>	10
Spotted Joe Pye Weed	<i>Eupatorium maculatum</i>	10
Marsh Milkweed	<i>Asclepias incarnata</i>	10
Marsh Blazing Star	<i>Liatris spicata</i>	10
Ditch stonecrop	<i>Penthorum sedoides</i>	4
Nodding Bur Marigold	<i>Bidens cernua</i>	9
Marsh Hedge-nettle	<i>Stachys palustris</i>	7
Rice cut grass	<i>Leersia oryzoides</i>	15
Approximate Total		100

C (Vacant)

D Measurement

The department will measure Ditch Seed Mix by the ounce, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0145.02	Ditch Seed Mix	OZ

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering and firming the seed.

40. Anti Graffiti Shield, Item SPV.0165.01.

A Description

This special provision describes furnishing and applying a permanent liquid Anti-Graffiti coating to the exposed concrete or modular block wall surfaces of the structure for the purpose of preventing absorption of paint components into the concrete surfaces.

B Materials

The graffiti coating shall be Permaclean, product No. 1496, matte gloss, as manufactured by TK Products, 11400 West 47th Street, Minnetonka, MN 55343, (612) 938-7223; Anti-Graffiti Coating as manufactured by Sherwin Williams; or equal as approved by the department. The anti-graffiti coating shall be compatible for use on unpainted, stained or painted concrete surfaces.

C Construction

C.1 Preparation of Concrete Surfaces.

All surfaces that are to be coated shall be cleaned to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, graffiti, and any foreign material in order to accept the coating material according to product requirements. The contractor shall correct, at his own expense, any surface problems he may create as a direct result of his surface preparation methods.

C.2 Application.

The anti-graffiti shield shall be applied to the exposed concrete surfaces. Apply anti-graffiti shield in even surface coats so as to avoid uneven staining of the concrete surface.

Install Anti Graffiti Shield in accordance to manufacturer's recommendations.

D Measurement

The department will measure Anti-Graffiti Shield by the square foot of work, 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.0165.01	Anti-Graffiti Shield	SF

Payment is full compensation for at the contract price per square foot, which price shall be payment in full for furnishing and applying the coating; and for concrete surface preparation.

41. Concrete Sidewalk 4-Inch Special, Item SPV.0165.02.

A Description

This special provision describes constructing a concrete sidewalk with sections of downturned edges as shown in the drawings, as specified herein, and as directed by the engineer.

B Materials

Concrete shall meet the requirements of standard spec 602.2.

C Construction

Construct concrete in accordance to standard spec 602.3.

D Measurement

The department will measure Concrete Sidewalk 4-Inch Special by the square foot of work, 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.0165.02	Concrete Sidewalk 4-Inch Special	SF

Payment is full compensation for at the contract price per square foot, which price shall be payment in full for concrete pigmenting, and for concrete placement, finishing, and curing.

42. Modular Grid, Item SPV.0165.03.

A Description

This special provision describes furnishing and installing a modular grid and backfill material appropriate to grow vegetation as shown in the drawings, as specified herein, and as directed by the engineer.

B Materials

Furnish GrassPave II, TrueGrid, BodPave 85, or approved equal. Provide appropriate soil backfill appropriate to grow vegetation.

C Construction

Install modular grid in accordance with the installation guidelines provided by the manufacturer, as shown in the plans, and as directed by the engineer.

D Measurement

The department will measure Modular Grid by the square foot of work, 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.0165.03	Modular Grid	SF

Payment is full compensation for preparing the surface, furnishing, transporting, and installing the grid and backfill material; and for furnishing and installing all devices and materials necessary to join or secure the grid in place.

43. Reset Limestone Blocks, Item SPV.0165.04.

A Description

This special provision describes resetting of the limestone blocks along the River Access and West River Bridge Abutments as shown in the plans. Item includes sub-base, geotextile fabric, and backfill as needed.

B Materials

B.1 Limestone Block

No additional blocks will be needed for this work.

B.2 Subbase

Use a compacted 1'-0" deep by 3'-6" wide leveling pad made from backfill granular in conformance with section 209 of the standard specifications.

B.3 Backfill Materials

Backfill, shall comply with the requirements for Backfill Granular as given in section 209 of the standard specifications.

All other backfill materials required to finish the wall and restore the ground surface may be select material available on the project that meets the engineer's approval.

C Construction

C.1 General

Lift and reset limestone blocks that have shifted as shown on the plans and as directed by the engineer. Lay back the existing geotextile fabric, regrade and compact the leveling pad. Replace geotextile fabric over the leveling pad making sure to overlay any downstream fabric needed for riprap. Place the Limestone Blocks to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Sweep clean of all debris each layer of facing units before placing the next layer of facing units.

Limestone blocks shall be placed to avoid vertical joints between successive steps in the Limestone Walls in front of the abutment.

All excavation for the Limestone Block Walls shall conform to section 206 of the standard specifications. 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.

C.2 Backfill

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of limestone block units. Compact Backfill Granular 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 Limestone Block units. At no expense to the department, correct any such damage or misalignment as directed by the engineer. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the limestone block units.

D Measurement

The department will measure Reset Limestone Blocks by the square foot, acceptably completed. The measured area equals the sum of the areas covered by the blocks, measured in the plane of the surface.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.04	Reset Limestone Blocks	SF

Payment is full compensation for resetting of existing limestone blocks; excavation of new location as needed; supply, placement and compaction of subbase; supply and placement of geotextile fabric; supply, placement and compaction of backfill structure; and for finishing.

44. Geogrid Warning Layer, Item SPV.0180.01.**A Description**

This special provision describes furnishing and installing geogrids for subgrade stabilization and warning layer purposes in accordance to the plans and specifications.

B Materials

Provide geogrid consisting of a single layer of uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The polymer will consist of polyester, polypropylene, polyamide, or polyethylen. The grid will maintain dimensional stability during handling, placing, and installation. The geogrid will be insect, rodent, mildew, and rot resistant.

The geogrid will comply with the following physical properties:

Test	Method	Value
Ultimate Tensile Strength Machine Direction (lb./ft.)	ASTM D 6637	800 min.
Flexural Rigidity Both Principal Directions (mg-cm)	ASTM D 5732-95 ⁽²⁾	200,000 min.
Aperture Area (in ²)	Inside Measurement	5.0 max.
Aperture Dimension (in.)	Inside Measurement	0.4 min.
Minimum True Initial Modulus In use (MD) (lbs/ft.)	ASTM D 6637-01	15,000 min.
Minimum True Initial Modulus In use (CMD) (lbs/ft.)	ASTM D 6637-01	20,000 min.
Junction Efficiency	GGI: GG2 87	93%
Aperture Stability (Torsional Rigidity) N-m/deg	Kinny (01)	0.28

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.

Resistance to bending force determined in accordance to ASTM D5732-95, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang

dimension. . The overall Flexural Stiffness is calculated as the square root of the product of MD and XMD Flexural Stiffness values.

True resistance to elongation when initially subjected to a load measured via ASTM D6637 without deforming test materials under load before measuring such resistance or employing “secant” or “offset” tangent methods of measurement. Note MD = Machine Direction and CMD = Cross Machine Direction

Protect the geogrid from ultraviolet radiation as required by the manufacturer and from damage due to shipping and handling. Keep the geogrid dry until it is installed. Mark the geogrid rolls clearly 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

Install geogrid in accordance with the installation guidelines provided by the manufacturer or as directed by the engineer.

Prior to placement of the geogrid, bring the indicated placement surface to the required lines and grades, and dimensions as shown on the plans or as directed by the engineer. Smooth and shape the surface to eliminate any rocks, clods, roots, or other items that may cause damage to the geogrid during placement. Place geogrid on the prepared surface at the locations and to the limits as shown on the plans or as directed by the engineer. After placement, pull taut and secure with 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 the use of ties, straps, clips or other devices to develop a secure joint that meets the approval of the engineer. No vehicles or construction equipment are permitted to operate directly on the grid.

Cover small rips, tears, or defects in the geogrid with an additional section of geogrid, secured in place so as to overlap 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 are 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. Place, spread, and compact this material according to the applicable sections of the standard specifications or special provisions. Conduct the placing, spreading, and compaction operations so that the geogrid is not displaced or damaged. Fill materials are to be carefully end dumped and pushed onto the geogrid with a wide-tracked dozer. Unless otherwise directed by the engineer, place lifts and spread by

expanding outward from the center line of the fill. The engineer may require changes in equipment and/or operations to prevent damage or displacement of the geogrid.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Geogrid Warning Layer	SY

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

45. Scrape and Redress, Item SPV.0180.02.

A Description

This special provision describes surface scarification, grading and compaction of an aggregate surface.

B (Vacant)

C Construction

Mechanically scarify the aggregate surface to a depth of 2 inches or as directed by the engineer. Re-grade, finish and compact the aggregate surface according to the requirements of Crushed Aggregate 3/8-Inch.

D Measurement

The department will measure Scrape and Redress by the square yard of work, 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.0180.02	Scrape and Redress	SY

Payment is full compensation for scarification, grading, and compaction of the aggregate surface.

46. Woodchip Mulch, Item SPV.0180.03.

A Description

This special provision describes furnishing and installing wood chip or shredded bark mulch as shown on the plans, in accordance with the applicable provisions of standard spec 632, and as hereinafter provided.

B Materials

Mulch consisting of shredded hardwood, shredded bark, wood chips, or approved equivalent that is substantially free of noxious weed seeds and objectionable foreign material. Material will retain natural color. Size will range from 3 inches maximum to ½ minimum. Obtain the engineer's approval for the type of mulch used.

C Construction

Place mulch to the depth necessary to achieve 4 inches minimum once settlement has occurred. Grade or rake the mulch to a reasonable smooth and consistent surface.

D Measurement

The department will measure Woodchip Mulch by the square yard of work, 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.0180.03	Woodchip Mulch	SY

Payment is full compensation for furnishing and placing the mulch; and for removing and disposing of all excess materials.

47. Concrete Sealer, Item SPV.0180.04.

A Description

This special provision describes furnishing and applying a permanent liquid Concrete Sealer to concrete flatwork.

B Materials

The concrete sealer shall be:

Bright Kure and Seal, as manufactured by TK Products, 11400 West 47th Street, Minnetonka, MN 55343, (612) 938-7223; SCOFIELD Cureseal-S, as manufactured by L.M. Scofield Company, (800) 800-9900; or equal as approved by the department

C Construction

Install Concrete Sealer in accordance to the manufacturer's recommended practices. All surfaces that are to be coated shall be cleaned to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, graffiti, and any foreign material in order to accept the

coating material according to product requirements. The contractor shall correct, at his own expense, any surface problems he may create as a direct result of his surface preparation methods.

D Measurement

The department will measure Concrete Sealer by the square yard of work, 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.0180.04	Concrete Sealer	SY

Payment is full compensation for furnishing and applying the coating; and for concrete surface preparation.

48. Crushed Aggregate 3/8-Inch, Item SPV.0195.01.

A Description

This special provision describes furnishing and installing Crushed Aggregate 3/8-Inch as shown in the contract documents, as described herein, and as directed by the engineer in the field.

B Materials

B.1 Submittals

Submit each of the following items to the engineer for Crushed Aggregate 3/8-Inch prior to delivery of bulk material to the project site:

- Sieve analysis of proposed material to ensure it meets gradation requirements.
- Sample of crushed aggregate screenings for approval: 1/2 cubic foot.
- Color of crushed aggregate.

Prepare a mock up of finished pavement section for Crushed Aggregate 3/8-Inch. Mock up shall be full width of pavement, with length equal to 3x width. Mock up shall be approved in writing by the engineer prior to final placement of the entire paving.

B.2 Delivery, Storage, and Handling

Protect all materials from damage during delivery.

B.3 Materials

Crushed Aggregate Screenings

Clean, hard, durable particles or fragments of 3/8" minus select buff colored crushed granite, river rock, or limestone. Fines shall be evenly mixed throughout the aggregate. When produced from gravel, 50 percent by weight, of the material retained on a No. 4 sieve shall have one fractured face. The portion retained on the No. 4 sieve shall have a maximum percentage of wear of 50 at 500 revolutions as determined by AASHTO T96-77. The portion

passing a No. 40 sieve shall have a maximum liquid limit of 25 and a maximum plasticity index of 7, as determined by AASHTO T89-81 and AASHTO T90-81, respectively. The crushed aggregate screenings shall be free from clay lumps, vegetable matter, and deleterious material.

Grading requirements are as follows:

Percentage of Weight Passing a Square Mesh Sieve
AASHTO T11-82 and T27-82

Sieve Designation	Percent Passing
3/8 – Inch	100
No. 4	85 – 95
No. 8	55 – 75
No. 16	35 – 50
No. 30	20 – 35
No. 50	18 – 28
No. 100	15 – 23
No. 200	10 – 19

C Construction

All hard surface paving adjacent to porous unit paving areas, including concrete walks and asphalt paving must be completed prior to installation of porous unit paving. Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen work or wet, saturated or muddy subgrade.

Placing Crushed Aggregate Screenings

Place edges and material to assure that finished and compacted grade of crusher fines area is sloped to positively drain (min 1-1/2%) to adjacent areas and is less than 5% except as otherwise directed.

Place the crushed screenings on prepared subgrade, and rake smooth using a steel fine rake to desired grade and cross section. Place in two lifts of 2 inches maximum thickness per lift.

Backfilling

Backfill excavation to the crusher fine area edge with scraper spoils, using backfill to hold edge of crusher fines in place.

Compaction

Compact Crushed Aggregate 3/8-Inch into smooth, firm surface with self-propelled, vibratory roller of sufficient weight. Maintain proper moisture content per proctor test submitted by the contractor. Alternate direction of rolling and continue until all material is firmly locked and keyed together. The appearance and surface shall be uniform with all ridges removed. Surface shall not vary more than 1/2" when measured with a ten foot straight edge applied parallel to the centerline. Correct any variation by loosening, reshaping, and

re-rolling. When finished, compacted trail thickness shall be a minimum of the dimension shown on the drawings.

Finishing

Rake along all trail edges to ensure finished appearance and positive drainage away from trail and into new drainage structures: alter grade if necessary.

Finished surface shall be smooth, uniform, and solid, with no evidence of chipping or cracking. Dried, compacted pavement material shall be firm all the way through with no spongy areas. Loose material shall not be present on the surface initially. After the first year of use, a minor amount of loose material is expected on the surface.

Loose gravel on the surface, or unconsolidated crushed aggregate screenings below the surface, is evidence of improper bonding due to poor mixing or insufficient watering. Test the loose material by wetting, then tamping, and allowing it to dry.

Unconsolidated areas shall be dug out, and replaced with new crushed screenings with a high proportion of fines meeting the grading requirements of Section B.3. Patched areas then shall be wetted thoroughly and rolled smooth. Patching shall be completed prior to any pavement smoothing required.

Significant irregularities shall be smoothed out prior to final acceptance of work. Smoothing shall be accomplished by rewetting/saturating rough areas thoroughly, and rolling the drive with a heavy roller (1,000 - 1,500 lbs powered walk-behind or small rider). Wackers are not acceptable.

Final thickness of completed pavement shall not vary more than 1/2 inch from the dimension indicated on the drawings. The engineer may take measurements by means of test holes taken at random in finished trail surface. Correct any variations in the thickness beyond the allowable 1/2 inch by repeating the installation procedures. Repair test holes made by the engineer.

Crusher fines shall not vary in top surface depressions/bumps more than 1/4 inch in 10 feet, measured with a straight edge.

Where geotextile fabric is used, the edges of the geotextile fabric shall not be exposed.

D Measurement

The department will measure Crushed Aggregate 3/8-Inch by the ton, 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.0195.01	Crushed Aggregate 3/8-Inch	TON

Payment is full compensation for furnishing all materials as measured by the weight tickets obtained from a certified scale; and for mixing all materials, for required testing, for sub base preparation, and for placement and compaction.

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:

550.5.2 Piling

Add the following as paragraph three effective with the December 2015 letting:

- (3) The department will not entertain a change order request for a differing site condition under 104.2.2.2 or for a quantity change under 104.2.2.4.3 for the Piling bid items. Instead the department will adjust pay under the Piling Quantity Variation administrative item if the total driven length of each size is less than 85 percent of, or more than 115 percent of the contract quantity as follows:

Percent of Contract Length Driven	Pay Adjustment
< 85	(85% contract length - driven length) x 20% unit price
> 115	(driven length - 115% contract length) x 5% unit price

643.2.1 General

Replace paragraph two with the following effective with the December 2015 letting:

- (2) Use reflective sheeting from the department's approved products list on barricades, drums, and flexible tubular marker posts.

Errata

Make the following corrections to the standard specifications:

641.2.9 Overhead Sign Supports

Correct errata adding back accidentally deleted paragraphs one through three.

- (1) Provide commercially fabricated overhead sign supports conforming to AASHTO design and fabrication standards for structural supports for highway signs, luminaires, and traffic signals. Use a design life of 50 years with a wind importance factor of 1.00. Design to withstand a 3 second gust wind speed of 90 mph. Do not use the methods of appendix C of those AASHTO standards.
- (2) Design structures, listed as applicable structure types in the AASHTO standards, to the fatigue category criteria as follows:
 1. Structures carrying variable message signs:
 - Category I criteria for structures over all roadway types.
 2. Structures carrying type II or III signs:
 - Category I criteria for structures used over highways and free flow ramps.
 - Category II criteria for structures with arms greater than 30 feet used over local roads and city streets.
 - Category III criteria for structures with arms 30 feet or less used over local roads and city streets.
- (3) Use the posted speed limit of the roadway beneath the structure for truck-induced gusts.
- (4) Submit shop drawings identified by structure number, design computations, and material specifications, to the engineer before erecting sign supports. Provide tightening procedures for mast arm or luminaire arm to pole shaft connections on the shop drawings. Have a professional engineer registered in the state of Wisconsin sign, seal, and date the shop drawings and certify that the design conforms to AASHTO standards and the contract.
- (5) Provide steel pole shafts and mast arms zinc coated according to ASTM A123. Provide tapered pole and arm shafts with a minimum taper of 0.14 inch per foot for single-member vertical and single-member horizontal structure components. Provide bolts and other hardware conforming to 641.2.2.

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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>

(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://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

Effective August 2015 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

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://wisconsindot.gov/rdwy/worksheets/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
MILWAUKEE 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, 2015

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	35.37	17.99	53.36
Carpenter	33.68	19.99	53.67
Cement Finisher	32.75	19.21	51.96
Future Increase(s): 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	33.93	22.77	56.70
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	23.73	19.09	42.82
Ironworker	30.77	23.97	54.74
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.			
Line Constructor (Electrical)	37.43	18.19	55.62
Painter	29.22	16.69	45.91
Pavement Marking Operator	30.27	18.79	49.06
Piledriver	30.11	26.51	56.62
Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.60/hr on 6/1/2016.			
Premium Pay: Add \$.65/hr for Piledriver Loftsmen; Add \$.75/hr for Sheet Piling Loftsmen. 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.			
Roofer or Waterproofing	29.40	17.05	46.45
Teledata Technician or Installer	24.89	17.15	42.04
Tuckpointer, Caulker or Cleaner	33.76	17.82	51.58

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	14.64	46.24
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	12.83	38.51
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.63	33.38

TRUCK DRIVERS

Single Axle or Two Axle	25.18	18.31	43.49
Future Increase(s): Add \$1.15/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.			
Three or More Axle	25.28	18.31	43.59
Future Increase(s): Add \$1.15/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.			
Articulated, Euclid, Dumptor, Off Road Material Hauler	30.27	21.15	51.42
Future Increase(s): 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 .			
Pavement Marking Vehicle	23.16	17.13	40.29
Shadow or Pilot Vehicle	24.37	17.77	42.14
Truck Mechanic	24.52	17.77	42.29

LABORERS

General Laborer	27.06	20.03	47.09
Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: Add \$.15/hr for air tool operator, joint sawer and filler (pavement), vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.35/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.50/hr for line and grade specialist; Add \$.65/hr for blaster and powderman; Add \$2.01/hr for topman; Add \$2.46/hr for bottomman; Add \$3.23/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	22.05	18.41	40.46
Landscaper	27.06	20.03	47.09
Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 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 \$1.25/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	22.55	19.37	41.92

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.71	16.01	33.72
Railroad Track Laborer	14.50	4.39	18.89

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).	37.72	21.15	58.87
--	-------	-------	-------

Future Increase(s): 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>.

Backhoe (Track Type) Having a Mfr.'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.	37.22	21.15	58.37
---	-------	-------	-------

Future Increase(s): 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 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 Mfr.'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);	36.72	21.15	57.87
--	-------	-------	-------

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. Future Increase(s): 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. Future Increase(s): 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 .	36.46	21.15	57.61
Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.25/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 .	36.17	21.15	57.32
Fiber Optic Cable Equipment.	28.89	17.95	46.84
Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	41.65	21.71	63.36
Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	35.72	17.85	53.57
Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks-Great Lakes ONLY.	35.46	20.40	55.86

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

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

SECTION 0001 Landscaping Items

0010	213.0100 Finishing Roadway (project) 01. 2984-43-74	EACH	1.000	.	.
0020	305.0120 Base Aggregate Dense 1 1/4-Inch	TON	35.000	.	.
0030	310.0110 Base Aggregate Open Graded	TON	45.000	.	.
0040	416.0610 Drilled Tie Bars	EACH	8.000	.	.
0050	465.0105 Asphaltic Surface	TON	20.000	.	.
0060	502.0100 Concrete Masonry Bridges	CY	18.000	.	.
0070	505.0400 Bar Steel Reinforcement HS Structures	LB	2,125.000	.	.
0080	601.0205 Concrete Gutter 24-Inch	LF	400.000	.	.
0090	606.0200 Riprap Medium	CY	5.000	.	.
0100	606.0400 Riprap Extra-Heavy	CY	60.000	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	612.0106 Pipe Underdrain 6-Inch	370.000 LF	.		.	
0120	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	1.000 EACH	.		.	
0130	616.0700.S Fence Safety	100.000 LF	.		.	
0140	619.1000 Mobilization	1.000 EACH	.		.	
0150	625.0105 Topsoil	5.000 CY	.		.	
0160	625.0500 Salvaged Topsoil	1,025.000 SY	.		.	
0170	628.1104 Erosion Bales	60.000 EACH	.		.	
0180	628.1504 Silt Fence	200.000 LF	.		.	
0190	628.1520 Silt Fence Maintenance	200.000 LF	.		.	
0200	628.1905 Mobilizations Erosion Control	4.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	628.1910 Mobilizations Emergency Erosion Control	2.000 EACH	.		.	
0220	628.2006 Erosion Mat Urban Class I Type A	250.000 SY	.		.	
0230	628.2008 Erosion Mat Urban Class I Type B	1,150.000 SY	.		.	
0240	628.6005 Turbidity Barriers	125.000 SY	.		.	
0250	628.7504 Temporary Ditch Checks	500.000 LF	.		.	
0260	628.7570 Rock Bags	20.000 EACH	.		.	
0270	642.5001 Field Office Type B	1.000 EACH	.		.	
0280	643.0100 Traffic Control (project) 01. 2984-43-74	1.000 EACH	.		.	
0290	643.0300 Traffic Control Drums	600.000 DAY	.		.	
0300	643.0410 Traffic Control Barricades Type II	240.000 DAY	.		.	
0310	643.0705 Traffic Control Warning Lights Type A	240.000 DAY	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	643.0900 Traffic Control Signs	240.000 DAY	.		.	
0330	645.0111 Geotextile Fabric Type DF Schedule A	270.000 SY	.		.	
0340	645.0120 Geotextile Fabric Type HR	115.000 SY	.		.	
0350	645.0130 Geotextile Fabric Type R	170.000 SY	.		.	
0360	650.5500 Construction Staking Curb Gutter and Curb & Gutter	400.000 LF	.		.	
0370	650.8500 Construction Staking Electrical Installations (project) 01. 2984-43-74	LUMP	LUMP		.	
0380	650.9910 Construction Staking Supplemental Control (project) 01. 2984-43-74	LUMP	LUMP		.	
0390	655.0615 Electrical Wire Lighting 10 AWG	675.000 LF	.		.	
0400	655.0620 Electrical Wire Lighting 8 AWG	1,325.000 LF	.		.	
0410	690.0150 Sawing Asphalt	1,400.000 LF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0420	SPV.0035 Special 01. Excavation Special - ACM	295.000 CY	.		.	
0430	SPV.0035 Special 02. Fieldstone Riprap Light	55.000 CY	.		.	
0440	SPV.0035 Special 03. Fieldstone Riprap Medium	25.000 CY	.		.	
0450	SPV.0035 Special 04. Coloring Concrete Sequoia Sand	16.000 CY	.		.	
0460	SPV.0055 Special 01. Entrance and Donor Displays	101,546.610 DOL	1.00000		101546.61	
0470	SPV.0060 Special 01. Zinc Dome	4.000 EACH	.		.	
0480	SPV.0060 Special 02. LED In Ground Light Fixture	4.000 EACH	.		.	
0490	SPV.0060 Special 03. Native Vegetation Surveillance and Care Cycles	30.000 EACH	.		.	
0500	SPV.0060 Special 04. Invasive Species Control	4.000 EACH	.		.	
0510	SPV.0085 Special 01. Nurse Crop Seed Mix	115.000 LB	.		.	
0520	SPV.0085 Special 02. Pioneer Native Seed Mix	23.000 LB	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0530	SPV.0090 Special 01. Slope Interruptor Socks 8" Foundation	500.000 LF	.		.	
0540	SPV.0090 Special 02. 1" Coilable HDPE Conduit	190.000 LF	.		.	
0550	SPV.0105 Special 01. Flagging Hank Aaron State Trail	LUMP	LUMP		.	
0560	SPV.0105 Special 02. UEC Community Garden Water Line	LUMP	LUMP		.	
0570	SPV.0105 Special 03. Solar Panel, Battery System and Foundation	LUMP	LUMP		.	
0580	SPV.0145 Special 01. Path Edge Seed Mix	4.000 OZ	.		.	
0590	SPV.0145 Special 02. Ditch Seed Mix	4.000 OZ	.		.	
0600	SPV.0165 Special 01. Anti Graffiti Shield	270.000 SF	.		.	
0610	SPV.0165 Special 02. Concrete Sidewalk 4-Inch Special	750.000 SF	.		.	
0620	SPV.0165 Special 03. Modular Grid	4,700.000 SF	.		.	
0630	SPV.0165 Special 04. Reset Limestone Blocks	100.000 SF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160308016PROJECT(S):
2984-43-74FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0640	SPV.0180 Special 01. Geogrid Warning Layer	350.000 SY	.		.	
0650	SPV.0180 Special 02. Scrape and Redress	80.000 SY	.		.	
0660	SPV.0180 Special 03. Woodchip Mulch	600.000 SY	.		.	
0670	SPV.0180 Special 04. Concrete Sealer	85.000 SY	.		.	
0680	SPV.0195 Special 01. Crushed Aggregate 3/8-inch	28.000 TON	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

PLEASE ATTACH SCHEDULE OF ITEMS HERE