

# HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation  
 DT1502 01/2020 s.66.0901(7) Wis. Stats

Proposal Number: **023**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Outagamie	6498-06-71	N/A	C Kaukauna, Island Street; Power Canal Tail Race	LOC STR

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

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: January 11, 2022 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code  <div style="text-align: center;"> <h2>SAMPLE</h2> <h3>NOT FOR BIDDING PURPOSES</h3> </div> This contract is exempt from federal oversight.
Contract Completion Time November 22, 2022	
Assigned Disadvantaged Business Enterprise Goal <b>0%</b>	

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

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

Subscribed and sworn to before me this date \_\_\_\_\_

\_\_\_\_\_  
 (Signature, Notary Public, State of Wisconsin)

\_\_\_\_\_  
 (Bidder Signature)

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

\_\_\_\_\_  
 (Print or Type Bidder Name)

\_\_\_\_\_  
 (Date Commission Expires)

\_\_\_\_\_  
 (Bidder Title)

Notary Seal

Type of Work:	<b>For Department Use Only</b>
Grade, Storm Sewer, Base, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Sidewalk, Signing, Pavement Marking, Structure B-44-473	
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

**Effective with November 2007 Letting**

**PROPOSAL REQUIREMENTS AND CONDITIONS**

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

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

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

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

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

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

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

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

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

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

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

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

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

## Effective with August 2015 Letting

### BID PREPARATION

#### Preparing the Proposal Schedule of Items

##### A General

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

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

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

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

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

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

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

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

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

##### B Submitting Electronic Bids

###### B.1 On the Internet

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

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

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

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

**Bidder Name**

**BN00**

**Proposals: 1, 12, 14, & 22**

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

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

### **C Waiver of Electronic Submittal**

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

**PROPOSAL BID BOND**

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

**PRINCIPAL**

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

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature and Title)

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

\_\_\_\_\_  
(Signature of Attorney-in-Fact)

**NOTARY FOR PRINCIPAL**

**NOTARY FOR SURETY**

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Date)

State of Wisconsin )  
 ) ss.  
\_\_\_\_\_ County )

State of Wisconsin )  
 ) ss.  
\_\_\_\_\_ County )

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

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

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

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

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

\_\_\_\_\_  
(Date Commission Expires)

\_\_\_\_\_  
(Date Commission Expires)

**Notary Seal**

**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)





**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.....	2
2.	Scope of Work.....	2
3.	Prosecution and Progress.....	2
4.	Traffic.....	3
5.	Holiday and Special Event Work Restrictions.....	4
6.	Utilities.....	4
7.	Work By Others.....	5
8.	Other Contracts-City of Kaukauna Adjacent Construction Project.....	5
9.	Height Restrictions.....	5
10.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.....	7
11.	Environmental Protection, Aquatic Exotic Species Control.....	7
12.	Construction Over or Adjacent to Navigable Waters.....	7
13.	Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.....	8
14.	Removing Structure Over Waterway Minimal Debris (P-44-712).....	8
15.	Excavation for Structures Bridges (B-44-473).....	8
16.	Removing Concrete Bollard, Item 204.9060.S.01.....	11
17.	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.....	11
18.	Concrete Staining B-44-473, Item 517.1010.S.....	14
19.	Concrete Staining Multi-Color B-44-473, Item 517.1015.S.....	15
20.	Architectural Surface Treatment B-44-473, Item 517.1050.S.....	17
21.	Seismograph , Item 999.1001.S.01.....	18
22.	Crack and Damage Survey, Item 999.1501.S.....	19
23.	Installing and Maintaining Bird Deterrent System 10+00, Item 999.2000.S.....	20
24.	Remove, Salvage, and Reinstall Decorative Fence Panels, Item SPV.0090.01.....	22
25.	Remove, Salvage, and Reinstall Historical Stone Retaining Wall, Item SPV.0090.02.....	22
26.	Security Barbed Wire Fence, Item SPV.0090.03.....	24
27.	Concrete Sidewalk 6-Inch Special, Item SPV.0165.01.....	24
28.	Remove, Salvage, and Reinstall Rock Landscaping, Item SPV.0165.02.....	25
29.	Cut-Stone Boulders, Item SPV.0165.03.....	25
30.	Shredded Hardwood Bark Mulch, Item SPV.0180.01.....	26
31.	Concrete Pavement 8-Inch Special, Item SPV.0180.02.....	26

## STSP'S Revised July 8, 2021

### SPECIAL PROVISIONS

#### 1. General.

Perform the work under this construction contract for Project 6498-06-71, C Kaukauna, Island Street, Power Canal Tail Race, Loc Str, Outagamie 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, 2022 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 (20210708)

#### 2. Scope of Work.

The work under this contract shall consist of removal of the existing Structure P-44-0712, grading, base aggregate dense, concrete pavement, concrete curb and gutter, storm sewer, concrete sidewalk, permanent signing, pavement marking, Structure B-44-0473, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

#### 3. Prosecution and Progress.

Begin work within 10 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 10 calendar days before the approved start date.

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

The Notice to Proceed will be issued such that work shall start to coincide with the June 7, 2022 closure of Island Street as discussed under Traffic.

##### A General

Hold prosecution and progress meetings once per week. Invite City of Kaukauna and Kaukauna Utility representatives and the water main contractor to attend the prosecution and progress meetings, including area EMS services. The invite shall include Mike Pedersen with Kaukauna Utilities with the Badger Hydro Plant (920) 462-0220, [mpedersen@ku-wi.org](mailto:mpedersen@ku-wi.org).

The prime contractor's superintendent or designated representative and subcontractor's representatives for ongoing subcontract work or subcontractor work expected to begin within the next two weeks shall provide a written schedule of the next week(s) operations. Provide begin and end dates of specific prime and subcontractor work operations. Review the contractor's schedule and subcontractors' schedule, traffic control staging, and evaluation of progress and pay items and other agenda items at the meeting. Review plans, schedule and specifications for upcoming work at this meeting.

The contractor is advised to mobilize construction equipment that is a size suitable for maneuvering in the limited area throughout the project. There are many movement limitations both horizontally and vertically in the project limits (overhead wires, poles, etc.). The contractor will be responsible for any damage done to objects inside the project limits.

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

## **B Fish Spawning**

There shall be no instream disturbance of Fox River Tail Race as a result of construction activity under or for this contract, from March 1 to June 15 both dates inclusive, in order to avoid adverse impacts upon the spawning of cool to warm water fishery.

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.

## **C Migratory Birds**

Swallow or other migratory bird nests have been observed on or under the existing structure(s). All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. The nesting season for swallows and other birds is from April 15 to August 31.

Either prevent active nests from becoming established or prevent birds from nesting by installing and/or maintaining a suitable deterrent device on the remaining structure prior to nesting activity under the bid item Installing and Maintaining Bird Deterrent System. As a last resort, apply for a depredation permit from the US Fish and Wildlife Service for work that may disturb or destroy active nests. The need for a permit may be avoided by clearing nests from all structures before the nests become active in early spring.

Working days will not be assessed for placement of deterrent systems.

## **D Northern Long-eared Bat (*Myotis septentrionalis*)**

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

If additional construction activities beyond what was originally specified are required to complete the work, approval from the engineer, following coordination with WisDOT REC, is required prior to initiating these activities.

## **4. Traffic.**

### **A General**

Maintain full access on Island Street until 7:00 AM on June 7, 2022. After 7:00 AM on June 7, 2022, Island Street will be closed to through traffic within the project limits. Post and maintain a detour route. The detour route will be Dodge Street (CTH Z) to 2<sup>nd</sup> Street to Crooks Avenue (STH 55) to Catherine Street.

Notify the City of Kaukauna Engineering, Police Department, Fire Department, Kaukauna School Bus System, and the Post Office a minimum of 14 calendar days prior to closing Island Street. All project traffic control will be in place by 7:00 AM on June 7, 2022.

The intersection of Maple Street with Island Street will be closed for the duration of construction.

### **B Traffic Closure Signs PCMS**

Place traffic control signs PCMS as shown in detour plan sheets, 7 days prior to closure of Island Street.

### **C Work Zone Signing**

Prior to placing work zone signs, contact John Neumeier, City of Kaukauna, (920) 766-6305. Signs should be coordinated with the city's adjacent construction project on Island Street.

### **D Adjacent Properties and Access**

Maintain access to the Kaukauna Utilities facilities near the project limits.



## 5. **Holiday and Special Event Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of STH 55 or Island Street, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday and special event periods:

- From noon Friday, July 1, 2022 to 6:00 AM Tuesday, July 5, 2022 for Independence Day.
- From noon Friday, September 2, 2022 to 6:00 AM Tuesday, September 6, 2022 for Labor Day.

stp-107-005 (20210113)

## 6. **Utilities.**

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

stp-107-066 (20080501)

Within the limits of this project there are underground and aerial facilities. Coordinate construction activities with a call to Diggers Hotline, and/or a direct call to the utilities for the underground facilities in the area as required per Statutes. Use caution to ensure the integrity of underground facilities and maintain OSHA code clearances from overhead facilities at all times.

### **AT&T (Communications)**

AT&T has buried telephone facilities along the east side of Island Street extending from the south of Dodge Street and continuing north to a power pole at Station 7+78, RT. Overhead facilities from pole at Station 7+78, RT to the west side of Island Street on Kaukauna Utilities poles.

AT&T will work with Kaukauna Utilities to remove their overhead telephone line that spans over the south bridge approach.

Relocation work will be completed after the road is closed on June 6, 2022. Two days will be needed for relocation work.

### **Charter (Communications)**

Charter has overhead cable and fiber optic on Kaukauna Utilities poles. Facilities extend from the south along the east side of Island Street to a pole at Station 10+77, RT. Facilities cross to the west to a pole at Station 11+85, LT just north of Maple Street.

Charter will work with Kaukauna Utilities to remove their overhead facilities that span over the north bridge approach.

Relocation work will be completed in 2022, prior to project construction.

### **Kaukauna Utilities (Electric)**

Kaukauna Utilities has underground facilities located on the east side of Island Street behind the sidewalk from a pole at Station 10+77, RT to a pole at Station 12+56, RT.

Prior to construction in 2021, Kaukauna utilities will perform the following relocations:

- The pole in the northeast quadrant will be relocated to the north, outside the limits of the TLE.

Kaukauna Utilities will perform the following work after the project detour is placed and the road is closed on June 6, 2022; relocation work will take three days:

- The pole in the northwest quadrant will be removed; in order to sustain the next pole to the north, a temporary guy anchor will be placed within the Maple Street roadway.
- The light pole and overhead line in the southeast quadrant will be removed.
- The overhead line that spans the south bridge approach will be temporarily removed for construction of the bridge abutments and girders. The pole in the southwest quadrant will remain, however, two temporary guy wires will be installed near Station 9+25 LT, just outside the TLE.

### **Kaukauna Utilities (Water)**

Kaukauna Utilities water main is located beneath the northbound lane from south of the project limits to the bridge. The facility is hung on the east side of the bridge. North of the bridge, the facility continues north of the project limits.

Prior to construction, Kaukauna Utilities will permanently reroute the existing water main to a new location outside the limits of this project. The existing water main facility will be discontinued throughout the project limits, including the facility attached to the existing bridge, prior to the start of construction.

### **WE Energies (Gas)**

WE Energies has a high-pressure steel gas main located on the west side of Island Street along the entire length of the project. The facility is attached to the existing bridge.

Prior to construction, WE Energies will bore a new 6-inch steel gas main beneath the Tail Race stream bed, approximately 32 feet west of the new roadway reference line. At Station 8+86, the new gas main will be located at an approximate elevation of 593.0; it will then dip to a low elevation near 590.0 beneath the stream bed before rising to an approximate elevation of 618.0 near Station 12+00.

Prior to construction, the existing gas main within the project limits including what is attached to the bridge will be discontinued and deenergized. Contact the 24-hour WE Energies (see below) Gas Dispatch prior to removing any gas facilities to verify that they have been discontinued and carry no natural gas. Do not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from WE Energies:

WE Energies Gas Dispatch: 1 (800) 261-5325

Any proposed blasting near We Energies facilities will need to be approved by Gas Operations to determine if the blasting is within a safe distance from our facility. The Owner/Engineer/Contractor is required to submit We Energies OM EX 614E providing details of what explosives they plan to use (to determine energy release ratio), weight of charge (lbs), charge delay time, proximity to We Energies facilities (horizontal and vertical separation), etc. in order to calculate the safe distance from our existing gas mains. Submit all blasting information a minimum of 1 week prior to blasting, to the contact listed below:

Relocation work is scheduled to be completed by December 2021.

## **7. Work By Others.**

Prior to construction, Kaukauna utilities will remove the light pole on the southeast quadrant of the bridge.

## **8. Other Contracts-City of Kaukauna Adjacent Construction Project.**

Island Street: Island Street from Dodge Street to the southern project limits of Project 6498-06-71 is scheduled to be reconstructed as part of a separate city project in 2022. Coordinate local roadway project work under this construction project with the City of Kaukauna Engineering Department and the local roadway contractor to facilitate timely completion for both projects.

## **9. Height Restrictions.**

The Federal Aviation Administration (FAA) has height restrictions surrounding select airports. The use of temporary cranes at the Island Street site has the potential to affect air navigation.

Provide notification to Abe Weber, Airport Director – Appleton International Airport, (920) 832-5267; [aweber@atwairport.com](mailto:aweber@atwairport.com) and Gerard Baeten, Airport Manager – Antique Aerodome Airport, (920) 227-7454; no less than three business days prior to erection of any temporary structure and again when the temporary structure is removed from the Island Street site.

Ensure all temporary and/or permanent storm water facilities follow FAA Advisory Circular 150/5200-33B and do not create hazardous wildlife attractants.

Lower any temporary structure (i.e., crane) to the ground when not in use and also during the hours between sunset and sunrise.

The Federal Aviation Administration (FAA) has issued a Determination of No Hazard to Air Navigation for Temporary Structure. The conditions of this letter shall be followed. A copy of the letter can be obtained by contacting WisDOT Project Manager, Brian Edwards at (920) 360-2801.

Project ID	Distance from Appleton International Airport	FAA Aeronautical Study No.	Latitude	Longitude	Heights:			Expirations for Determination (TMP or DNE)
					Site Elevation (SE)	Above Ground Level (AGL)	Above Mean Sea Level (AMSL)	
6498-06-71	10.93 nautical miles	2021-AGL-13367-OE	44-16-37.07N NAD 83	88-15-59.87W	631 feet	17 feet	648 feet	Indefinite (DNE)
6498-06-71	10.93 nautical miles	2021-AGL-18578-OE	44-16-36.09N NAD83	88-16-00.00W	641 feet	1 foot	642 feet	Indefinite (DNE)
6498-06-71	10.93 nautical miles	2021-AGL-18579-OE	44-16-39.00N NAD 83	88-15-59.36W	643 feet	1 foot	644 feet	Indefinite (DNE)
6498-06-71	10.93 nautical miles	2021-AGL-18580-OE	44-16-36.27N NAD83	88-16-00.48W	642 feet	199 feet	841 feet	7/30/2021 – 1/30/2023 (TMP)

Based on the aeronautical study, cranes do not need to be marked and/or lit for aviation safety. However, if marking and/or lighting are accomplished on a voluntary basis, the contractor is encouraged to install and maintain it according to FAA Advisory Circular 70/7460-1 L Change 2.

Any height of a temporary structure exceeding above ground level (AGL) or above mean sea level (AMSL), as listed in the temporary determination (2021-AGL-18580-OE), will result in a substantial adverse effect and will warrant a Determination of Hazard to Air Navigation.

The determination expires unless extended, revised, or terminated by the issuing FAA office. If an extension is needed, the contractor must request an extension to the effective period of the determination. The request must be e-filed at least 15 days prior to the expiration date.

Any changes in coordinates and/or heights will void the determination. Any future construction or alteration, including increase to height, requires a separate notice to the FAA.

Determinations include temporary construction equipment such as cranes, derricks, and other equipment, which may be used during actual construction. Equipment shall not exceed the overall heights as indicated in the determination. The contractor must request separate notice to the FAA if equipment has a height greater than the determination.

If additional coordination with the FAA is required, contact Vee Stewart at (816) 329-2508, or [vee.stewart@faa.gov](mailto:vee.stewart@faa.gov), and reference the Aeronautical Study Number(s). The contractor must copy the engineer on any correspondence with the FAA.

A determination concerns the effect of temporary structures on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Jaime Kurten Chmielewski (608) 242-6619. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

## 11. Environmental Protection, Aquatic Exotic Species Control.

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

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

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

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

Use the following inspection and removal procedures:

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

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

stp-107-055 (20130615)

## 12. Construction Over or Adjacent to Navigable Waters.

The Fox River Tail Race is classified as a federal navigable waterway under standard spec 107.19.

stp-107-060 (20171130)

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

Paul M. Garvey, License Number All-117079, inspected Structure P-44-712 for asbestos on March 14, 2019. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Brian Edwards, WisDOT Local Program Manager, (920) 360-2801.

According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Brian Edwards, WisDOT Local Program Manager, (920) 360-2801 and DOT BTS-ESS attn: Hazardous Materials Specialist, PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Structure P-44-712, Island Street over Fox River Tail Race
- Site Address: Section 25 T1N R18E (441,637.5, 881,559.76), City of Kaukauna
- Ownership Information: 114 West 2<sup>nd</sup> Street, Kaukauna, WI 54130
- Contact: Brian Edwards, WisDOT Local Program Manager
- Phone: (920) 360-2801
- Age: 91/38 years old. This pier was constructed in 1930 and the superstructure was constructed in 1983.
- Area: 4,526 SF of deck

Insert the following paragraph in Section 6.g.:

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

stp-107-125 (20120615)

**14. Removing Structure Over Waterway Minimal Debris (P-44-712)**

*Replace standard spec 203.3.2.2.1(2) as follows:*

Remove the existing pier substructure units to an elevation no greater than 1 foot above the stream bottom.

**15. Excavation for Structures Bridges (B-44-473).**

*Add the following to standard spec 206.3:*

**206.3.16 Blasting**

- (1) If it is determined that blasting is needed in order to excavate to the appropriate depth as provided in the plans, the following requirements must be followed and are considered incidental to Excavation for Structures Bridges (B-44-473). Perform blasting and monitoring work according to Code of Federal Regulations (CFR), Title 29, Chapter XVII – Occupational Safety and Health Administration (OSHA), Department of Labor - Part 1926 Regulations, Current Edition and the Wisconsin Department of Safety and Professional Services (SPS), Chapters 305 and 307 as described hereinafter.
- (2) The contractor shall be responsible for obtaining all state and local permits required prior to blasting. No additional payments will be made for any permits. Notify Kaukauna Utilities 10 days prior to beginning any blasting operations.
- (3) A blasting plan is required on all projects where rock blasting occurs.
- (4) Not less than three weeks prior to commencing drilling and blasting operations or at any time the contractor proposes to change the drilling and blasting methods, the contractor shall submit a "Blasting Plan" to the engineer for review. The blasting plan shall describe in full details, the drilling and blasting patterns the contractor proposes to use. The blasting plan shall include (at a minimum):

- a. Name, license number, experience of blaster(s), and classification according to SPS Chapter 305.20 and 307. A minimum of a Class 6 blaster is required for blasting.
  - b. Type of explosives, primers and initiators including manufacturer's data sheets for all explosive products.
  - c. General blasting configurations including hole size, spacing, loading pattern, detonation procedure, anticipated maximum pounds of explosive per delay, powder factor, number of lifts, and limits of blasting.
  - d. Preblasting Survey including procedures to inform and protect the public and adjacent property (e.g., signs, horns, letters, personal visits, etc.) according to SPS Chapter 307.41
  - e. Flyrock control plan.
  - f. Proposed "Shot Log" for individual blasts.
- (5) The blasting plan submittal is for quality control and record keeping purposes. Review of the blast plan by the engineer shall not relieve the contractor of his responsibility for the accuracy and adequacy of the plan when implemented in the field.
- (6) Complete preblasting notification and survey according to SPS Chapter 307.41 is required on all projects where rock blasting occurs. Conduct and document pre-blast and post-blast surveys of any nearby buildings or structures as required by the scaled-distance equation specified in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43. Make right of entry arrangements with the property owners for these condition surveys. Before any blasting, make the pre-blast survey records available to the engineer for review. After completion of blasting operations, perform a post-blast survey and make these records available to the engineer for review. The contractor shall be responsible for any damage resulting from blasting. These condition surveys shall consist of visually inspecting and recording all existing defects in the structures before and after blasting operations. Photographs and/or videotape may be used to assist in documentation. Submit a written report to the department detailing the visual and photographic investigation of potentially affected structures. This report will include copies of the pre-blast and post-blast surveys and discuss any discrepancies and findings of these surveys.
- (7) A shot log is required on all projects where rock blasting occurs.
- (8) The contractor is required to submit records (shot logs) for each individual shot on forms reviewed by the engineer. The shot log shall be maintained by the contractor and submitted to the engineer at the end of each day. No blasting will be allowed until the shot log from the preceding day has been submitted to the engineer. The shot log shall include the following information (at a minimum):
- a. Location of the shot by station and offset.
  - b. Plan view of the drill pattern including free face, burden, hole spacing, diameters and angles.
  - c. Section view showing type and amount of explosives, primers, initiators, location and depth of stemming, lift height, and subdrill depth.
  - d. Initiation sequence of holes including cumulative delay times and delay system.
  - e. Total pounds of explosives used.
  - f. Maximum peak particle velocity measured at the closest (or most critical receptor), location of monitoring station, and scaled distance.

All vibration control and monitoring shall comply with Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43, Instrumentation and SPS 307.44, Control of Adverse Effects.

Whenever there is a potential for vibration damage to adjacent buildings, structures, or utilities, monitor each blast with an approved seismograph located, as approved, between the blast area and the closest structure subject to blast damage, and as close as practical to the subject structure. Peak particle velocity shall not be allowed to exceed the safe limits of the nearest structure subject to vibration damage.

A vibration specialist, approved by the engineer, shall perform vibration monitoring. The vibration specialist shall monitor vibration levels according to the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 and interpret the seismograph records to ensure that the seismograph data shall be effectively utilized in the control of the blasting operations with respect to the existing structures and utilities.

According to the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 consult with the owner of any structure or utility not listed in SPS 307.43 to establish maximum allowable limits on ground vibrations. In no case shall these vibration limits exceed the following criteria:

Structure Type	Maximum Peak Particle Velocity (inches/second)
Reinforced Concrete, Structures, Unoccupied	4.0
Steel Structures, Unoccupied	4.0
Buried Utilities	2.0
Wells and Aquifers	2.0
Green Concrete (Less than 7 days)	1.0

Furnish data recorded for each shot to the engineer before the next blast; the data shall include the following:

- a. Identification of vibration monitoring instrument used.
- b. Name of qualified observer and interpreter.
- c. Distance and direction of recording station from blast area.
- d. Type of ground at recording station and material on which the instrument is sitting.
- e. Peak particle velocity and principal frequency in each component.
- f. A dated and signed copy of records of seismograph readings.
- g. A comparison of measured seismograph readings to maximum allowable readings identified in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 or as specified in this special provision.

If the recorded vibration data exceeds the allowable levels established in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 or as specified in this special provision, immediately halt blasting operations. Submit a revised blasting plan to the engineer and do not resume blasting operations until the engineer approves the revised plan.

- (9) The amplitude/frequency vibration monitor shall be an InstanTel Blastmate DS677 or equivalent, available from Sobie & Associates, 1200 Pratt Avenue, Elk Grove Village, Illinois 60003, phone (708) 473-7333. This instrument shall be capable of measuring, recording, and producing a hard copy of the frequency and peak particle velocity in three mutually perpendicular axes ("vector sum" instrumentation is not allowed). The instrument shall be capable of measuring Linear Scale air blast pressure (other weighting systems, such as A- or C-scale are not allowed). The instrument must also be capable of plotting the measured vibration level against the OSM criteria or be capable of reporting the frequency and displacement of each vibration event.
- (10) The contractor shall submit documentation of the last calibration of the instrument. Calibration should be according to SPS Section 307.43
- (11) The regulatory requirements of OSHA Safety and Health Standards 29 CFR, Part 1926, Subpart U, "Blasting and Use of Explosives," shall apply. All blasting operations, including the storage and handling of explosives and blasting agents, shall be performed according to all pertinent federal, state, and local regulations. Whenever explosives are used, they shall be of such character and in such amount as is permitted by state and local laws and ordinances and all respective agencies having jurisdiction over them. The person(s) responsible for the use of explosive materials shall be knowledgeable and experienced in their use and handling. Blasting will be limited to a period between 8:00 AM and 5:00 PM or as otherwise approved by the owner.
- (12) The contractor shall observe the entire blast area for a minimum of five minutes following a blast to guard against rock fall before commencing work in the cut. The contractor is responsible for the safety of workers and the public in general.
- (13) The engineer shall, at all times, have the authority to prohibit or halt the contractor's blasting operations if it is apparent that, through the methods being employed the safety or property of the public is being jeopardized.
- (14) The contractor is advised that structures may be located close to the proposed work and that noise and vibration producing activities shall be conducted so as to preclude damage to these structures

and undue annoyance to any occupants of adjacent facilities. The contractor shall be responsible for all damage caused by his activities.

- (15) The contractor is required to have both letter and personal contact with residents or owners of buildings that are adjacent to the construction area or near enough to it for ground vibrations from construction operations (including blasting) to affect the structure, personal property, or water wells. This contact will be made prior to the beginning of any blasting or other vibration producing activity. The contractor will furnish a list of those contacted to the engineer, as part of the blasting plan.
- (16) The contractor will identify a contact person for complaints from the public and will maintain a log of such complaints and any action taken by the contractor. This log shall be available to the engineer at his request. The contractor shall make an initial reply to complaints within 24 hours.
- (17) Comply with the requirements of SPS Chapter 307.44 for the control of adverse effects.
- (18) Submit blasting plans to WE Energies for review (as noted in the Utility Special Provisions) a minimum of one week prior to blasting.

Add the following to standard spec 206.5.2.1 as follows:

- (1) Blasting operations and requirements are incidental to the Excavation for Structures bid item.

**16. Removing Concrete Bollard, Item 204.9060.S.01.**

**A Description**

This special provision describes removing a concrete bollard conforming to standard spec 204.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Concrete Bollard as each unit, acceptably completed.

**E Payment**

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Concrete Bollard	EACH

Payment is full compensation for removing the concrete bollard, and for disposal of materials and backfilling the void.

stp-204-025 (20150630)

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

**A Description**

**A.1 General**

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility. The closest DNR approved bioremediation facility is

Hickory Meadows Landfill  
W3105 Schneider Rd  
Hilbert, WI 54129  
(920) 853-8553

Waste Management Ridgeview Security Landfill  
6207 Hempton Lake Rd  
Whitelaw, WI 54247  
(920) 796-6007



Waste Management Valley Trail Security Landfill  
N9101 Willard Rd  
Berlin, WI 54923  
(920) 361-4995

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

## **A.2 Notice to the Contractor – Contaminated Soil Locations**

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following locations the plans show:

1. Island Street from Station 10+60, RT to 11+12, RT, from reference line to 100 feet right, from 0' to maximum depth of soil excavation. Soil contains petroleum volatile organic compounds (PVOs), polycyclic aromatic hydrocarbons (PAHs), mercury, and lead and must be managed. Approximately 305 cubic yards (approximately 519 tons at an estimated 1.7 tons per cubic yard) or soil will be excavated from this location.

Directly load soil excavated by the project at the above locations into trucks that will transport the soil to a WDNR-licensed bioremediation facilitate for treatment and disposal.

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. If dewatering is required at the above locations, conduct the dewatering according to Section C below.

The excavation management plan for this project has been designed to minimize the offsite treatment or disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the

Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities near this project, contact:

Name: Ms. Kathie Van Price  
Address: 944 Vanderperren Way  
Green Bay, WI 54304-5344  
Phone: (920) 492-7175  
E-mail: [Kathie.VanPrice@dot.wi.gov](mailto:Kathie.VanPrice@dot.wi.gov)

## **A.3 Coordination**

Coordinate work under this contract with the environment consultant:

Consultant: O'Brien and Gere Engineers, Inc. Part of Ramboll (OBG)  
Address: 234 W. Florida Street, Fifth Floor  
Contact: Mark Walter, PE  
Phone: (414) 837-3563

The role of the environmental consultant will be limited to:

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

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

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

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

#### **A.4 Health and Safety Requirements**

*Add the following to standard spec 107.1:*

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

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

#### **B (Vacant)**

#### **C Construction**

*Add the following to standard spec 205.3:*

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

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 15 cubic yards excavated.

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

If dewatering is required in areas of known contamination, water generated from dewatering activities will likely contain PVOCs, PAHs, mercury, and lead. Such water may, with approval of the local wastewater treatment utility, be discharged to the sanitary sewer or at the treatment facility directly as follows:

Meet all applicable requirements, including the control of suspended solids. Perform all necessary monitoring to document compliance with requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with requirements.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Notify the engineer of any dewatering activities and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

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

#### **D Measurement**

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

## E Payment

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

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

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils before transport, if necessary. Management and disposal of contaminated water is considered incidental to other bid items in the contract. The department will not pay directly for management and disposal/treatment of contaminated water.

~~stp-205-003-(20150630)~~

## 18. Concrete Staining B-44-473, Item 517.1010.S.

### A Description

This special provision describes providing a two coat concrete stain on the exposed concrete surfaces of structures as the plans show.

### B Materials

#### B.1 Mortar

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

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

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

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

#### B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

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

### C Construction

#### C.1 General

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

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

#### C.2 Preparation of Concrete Surfaces

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

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

### **C.3 Staining Concrete Surfaces**

Apply the concrete stain according to the manufacturer's recommendations.

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

The color of the stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

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

### **C.4 Test Areas**

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

### **C.5 Surfaces to be Coated.**

Apply concrete stain to the surfaces according to the plan.

### **D Measurement**

The department will measure Concrete Staining B-44-473 in area by the square foot of surface, acceptably prepared and stained.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S	Concrete Staining B-44-473	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.

stp-517-110 (20140630)

## **19. Concrete Staining Multi-Color B-44-473, Item 517.1015.S.**

### **A Description**

This special provision describes providing a multi-color concrete stain on the exposed concrete surfaces of the structure as the plan details show.

### **B Materials**

#### **B.1 Mortar**

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

Preblended, Packaged Type II Cement:

Tri-Mix by TK Products

Thoroseal Pearl Gray by Thoro Products

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

Acrylic Bonding Admixture:

TK-225 by TK Products

Achro 60 by Thoro Products

Achro Set by Master Builders

## **B.2 Concrete Stain**

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

Tri-Sheen Concrete Surfacers, Smooth by TK Products

Tri-Sheen Acrylic by TK Products

TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products

Safe-Cure & Seal EPX by Chem Masters

H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

## **C Construction**

### **C.1 General**

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

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

### **C.2 Preparation of Concrete Surfaces**

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

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

### **C.3 Staining Concrete Surfaces**

Apply the concrete stain according to the manufacturer's recommendations.

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

The color of the staining shall produce a multi-color effect that consists of multiple colors replicating varying natural stone coloration. Stain the joints between stones produced by the form liner to create the appearance of grouted joints. The color of the staining shall match the scheme used for the parapets on Structure P-44-713, Island Street over the Fox River.

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

### **C.4 Test Areas**

Before applying stain to the structure, apply the stain to sample panels measuring a minimum of 48 inches x 48 inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing

time of the concrete or 28 days, whichever is greater, before staining. Submit color samples to the department before staining the sample panels. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between stones produced by the form liner. Do not apply stain to the structure until the department approves the test panels.

#### **C.5 Surfaces to be Coated.**

Apply concrete stain to the surfaces according to the plan.

#### **D Measurement**

The department will measure Concrete Staining Multi-Color B-44-473 in area by the square foot of surface, acceptably prepared and stained.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1015.S	Concrete Staining Multi-Color B-44-473	SF

Payment is full compensation for furnishing and applying the coloring system; for preparing the concrete surface; and for constructing and staining the sample panels.

### **20. Architectural Surface Treatment B-44-473, Item 517.1050.S.**

#### **A Description**

This special provision describes providing a concrete masonry architectural surface treatment on the exposed concrete surfaces of structures as the plan details show.

#### **B Materials**

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

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

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

#### **C Construction**

##### **C.1 Equipment**

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

##### **C.2 Form Liner Preparation**

The pattern shall match the scheme used for the parapets on Structure P-44-713, Island Street over the Fox River.

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

Apply form release per manufacturer's recommendations.

##### **C.3 Form Liner Attachment**

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

##### **C.4 Surface Finishing**

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

Grind or fill pouring blemishes.

**D Measurement**

The department will measure Architectural Surface Treatment B-44-473 in area by the square foot of architectural surface, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S	Architectural Surface Treatment B-44-473	SF

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

stp-517-150 (20110615)

**21. Seismograph , Item 999.1001.S.01.**

**A Description**

This special provision describes furnishing seismographs and employing trained operators to monitor construction-induced vibrations on buildings/structures, and submittal of all required documentation.

**B Material**

Use seismographs conforming to Wisconsin Department of Safety and Professional Services (SPS) 307.43, Wisconsin Administrative Code that are continuous data recorders supplied with all the accessories necessary for making vibration and noise monitoring observations.

**C Construction**

Conduct monitoring procedures conforming to SPS 307.44 and as follows: Take seismograph readings before construction activities to establish an ambient or background index.

During construction, place seismographs to monitor all vibration-inducing construction activities or as the engineer directs. At a minimum utilize one seismograph. If more than one major construction activity per day is taking place, multiple seismographs may be required. Place seismographs on a stable surface within 3 feet of the building/structure nearest to the construction operation. Provide data recorded for each vibration occurrence to the engineer which includes the following:

1. Identification of vibration monitoring instrument used.
2. Description of equipment used by the contractor.
3. Name of qualified observer and interpreter.
4. Distance and direction of recording station from the vibration area.
5. Type of ground at recording station and material on which the instrument is sitting.
6. Peak particle velocity and principal frequency in each component.
7. A dated and signed copy of records of seismograph readings.
8. A comparison of measured seismograph readings to maximum allowable readings identified in SPS 307.43 or as specified in this special provision.

If construction activities generate ground vibration in excess of the peak particle velocity limits as shown in SPS 307.44, stop the construction operation in progress and implement alternate construction methods to produce results within the allowable peak particle velocity limits.

**D Measurement**

The department will measure Seismograph as a single unit of work for each project, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1001.S.01	Seismograph	EACH

Payment is full compensation for furnishing and operating seismographs, operators, and for producing documentation reports

stp-999-005 (20210708)

## 22. Crack and Damage Survey, Item 999.1501.S.

### A Description

This special provision describes conducting a crack and damage survey of the residences and business located at Kaukauna Utilities.

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

### B (Vacant)

### C Construction

Before any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Electronically submit a written report with the inspector's name, date of inspection, descriptions and locations of defects, and digital images. The intent of the written report and digital images is to procure a record of the general physical condition of the building's interior and exterior walls and foundation.

Use a digital camera capable of producing sharp, grain free, high-contrast colored digital images with good shadow details. Label each digital image with the following information:

ID: \_\_\_\_\_  
Building Location: \_\_\_\_\_  
View looking: \_\_\_\_\_  
Date: \_\_\_\_\_  
Photographer: \_\_\_\_\_

Before the start of any construction activities related to this survey, submit a copy of the written report and digital images to the engineer electronically.

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

Instead of digital images, a digital video camera capable of producing sharp, high contrast, colored digital video with good shadow detail may be used to perform this work.

### D Measurement

The department will measure Crack and Damage Survey as single unit for each location, acceptably completed.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1501.S	Crack and Damage Survey	EACH

Payment is full compensation for providing the before and after written reports, and for photographs or video.

stp-999-010 (20210708)



## **23. Installing and Maintaining Bird Deterrent System 10+00, Item 999.2000.S.**

### **A Description**

This special provision describes inspecting, installing and/or maintaining approved deterrents that prevent migratory bird nesting on bridges and culverts. Swallows or other migratory birds' nests have been observed on or under the existing culvert or bridge at the station identified. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act.

### **B Materials**

#### **B.1 Hardware and Lumber**

Pressure treated lumber shall conform to the requirements of standard spec 507.

Hardware and fastening devices shall be either galvanized or stainless steel. Fastening device and system must be approved by the engineer prior to installation on culverts and bridges that will remain in service after removal of deterrent systems. The method of fastening should not compromise the culvert or bridge concrete surfaces or steel protection systems. The attachment locations must be restored and repaired as needed by use of engineer approved fillers, sealers and paint systems.

#### **B.2 Netting Materials**

Exclusion netting is material either wrapped around or draped and fastened to bridge decks/abutments and culvert corners to prevent bird entry.

Furnish exclusionary netting to deter nesting in bridge decks and abutments and corners of box culverts, consisting of either:

- a. 1/2" x 1/2" or 3/4" x 3/4" knotless, flame resistant, U.V. stabilized polyethylene netting with minimum 40-pound breaking strength per strand, or engineer proved equal.
- b. Galvanized wire mesh (hardware cloth) with a wire diameter of .040 inches (19-gauge) and opening width of 1/2-inch.

Furnish 1" x 2" pressure treated lumber of equal length as the netting.

#### **B.3 Plastic Strip Curtain**

Plastic strip curtains are strips of plastic attached to vertical surfaces in areas suitable for nesting.

Furnish 3-foot wide lengths of 6 mil minimum plastic sheeting with the lower 2 feet cut into vertical strips 2 inches wide.

Furnish 1" x 2" treated wood and galvanized staples to attach plastic strips to wood to fabricate the strip curtain.

Furnish concrete screws to attach strip curtain to structure.

#### **B.4 Corner Slope Materials**

Corner slopes are pieces of curved plastic placed in corners suitable for nesting. They are particularly effective in preventing nesting in top corners of box culverts.

Furnish U.V. stabilized pre-fabricated PVC or polycarbonate corner slopes from commercial bird-deterrent manufacturers or an approved equal.

### **C Construction**

#### **C.1 General**

If active nests are observed after construction starts, or if a trapped bird or an active nest is found, stop work that may affect birds or their nests, and notify the engineer to consult with the Wisconsin Department of Natural Resources transportation liaison, Matt Schaeve at (920) 366-1544, or the department regional environmental coordinator, Jennifer Gibson at (920) 492-4160.

Efforts should be made to release trapped birds, unharmed.

#### **C.2 Nest Removal**

Remove unoccupied nests prior to the beginning of the nesting season as designated in Prosecution and Progress. Nest removal involves the removal and disposal of unoccupied or partially constructed nests without eggs or nestlings. Removing all evidence of nesting (e.g. cleaning droppings from structures) eliminates a visual cue for a potential breeding location, especially for first-time breeders. Nest removal is not a type of deterrent and does not prevent nest establishment but can delay the process. As such, it

should only be used in conjunction with other methods. It cannot be used on its own to ensure compliance. However, nest removal is not required if deterrents are installed before the start of the avoidance window.

Remove nests on the structure by scraping or pressure washing prior to established avoidance windows to deter nesting. Remove only unoccupied or partially constructed nests without eggs or nestlings. Remove newly built nests every two days before eggs are laid. Nest removal is intended to be used prior to and in conjunction with other nesting deterrents.

### **C.3 Exclusion Netting**

#### **C.3.1 Installation**

Using concrete screws, anchor lumber to bridge or culvert along perimeter of intended netting. Fasten netting to lumber until netting is held taut. Eliminate any loose pockets or wrinkles that could trap and entangle birds. Ensure the net is pulled taut in order to prevent flapping in the wind, which results in tangles or breakage at mounting points.

For culverts, attach netting at a 45-degree angle at the culvert corner so it extends at least 12" below the corner.

### **C.4 Plastic Curtains**

#### **C.4.1 Installation**

Attach plastic curtains along the entire length of vertical surface or corner on which nest building is to be deterred. Affix plastic curtain strips to treated lumber with staples spaced a minimum of 1 foot O.C. Wrap plastic curtains around lumber prior to attaching it to the structure to reduce the likelihood of it tearing out at the staples. Screw lumber into the underside of the bridge deck or top of box culvert with concrete screws placed 24-inches O.C. minimum.

### **C.5 Corner Slopes**

#### **C.5.1 Installation**

Attach corner slopes to the structure per the manufacturer's recommendations. Use urethane-based adhesives if manufacturer supplied hardware or adhesives are not available or no recommendations are provided. Install end caps or seal ends of corner slopes to prevent entry of birds or other animals.

### **C.6 Inspection and Maintenance**

Inspect bird deterrent devices every 2 weeks both during and prior to construction when deterrents have been installed to exclude birds prior to nesting windows, and after large storm events or high winds. Ensure that netting is taut, that no gaps or holes have formed, and that the nets are functioning properly. Ensure that corner slopes are not cracked or otherwise damaged and are functioning properly. Ensure that curtains are undamaged, with no tears, holes, or creases. Repair any damaged or loose deterrent devices. Inspect, maintain, and repair nesting deterrents whether installed by the contractor or others. Repair, replace, supplement deterrents as necessary with materials meeting the requirements of this specification.

Remove any unoccupied or partially constructed nests without eggs or nestlings

Repair deterrents to prevent birds from attempting to nest again.

Record all inspection, removal, and maintenance activities. Provide inspection, removal and maintenance records to the engineer upon request.

### **C.7 Removal and Structure Repair**

Maintain the deterrent until the engineer determines that the deterrent is deemed no longer necessary. Upon completion of the project, remove any remaining migratory bird deterrent from the project site. If the existing bridge or culvert is to remain after construction, restore and repair as needed by use of engineer approved fillers, sealers and paint systems.

## **D Measurement**

The department will measure Installing and Maintaining Bird Deterrent System (Station) as a single unit at each structure, acceptably completed.

The department will measure Maintaining Bird Deterrent System (Station) as a single unit at each structure, acceptably completed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
999.2000.S	Installing and Maintaining Bird Deterrent System 10+00	EACH

Payment for Installing and Maintaining Bird Deterrent System is full compensation for providing and installing deterrents that prevent migratory bird nesting; removing and disposing of unoccupied or partially constructed nests without eggs or nestlings; maintaining, repairing, replacing, supplementing, existing deterrent materials; repairing damage to structures resulting from installation of deterrents; removal and disposal of materials.

stp-999-200 (20210708)

## **24. Remove, Salvage, and Reinstall Decorative Fence Panels, Item SPV.0090.01.**

### **A Description**

This special provision describes removing, salvage, and reinstalling decorative fence panels conforming to standard spec 204 and as described herein provided.

### **B Materials**

Replace the decorative fence posts, panels, and all fixtures and brackets in kind to match the existing fence. Furnish all posts, mounting brackets, fixtures, materials, and equipment according to the selected manufacturer's recommendations to install new posts and reinstall the salvaged panels to the new posts.

### **C Construction**

Remove existing fence posts according to standard spec 204.

Remove the fence panels such that the panels remain intact and the structural integrity of the panel is maintained for reuse.

Store the panels such that they are protected from damage and/or theft until they are re-established on new posts. If fence panels are damaged or stolen the panels must be replaced at the contractor's expense.

Install the posts and reinstall the salvaged fence panels according to the manufacturer's recommended installation instructions.

### **D Measurement**

The department will measure Remove, Salvage, Reinstall Decorative Fence Panels by the linear foot acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Remove, Salvage, and Reinstall Decorative Fence Panels	LF

Payment is full compensation removing, store salvaged fence panels, install new fence posts and reinstall salvaged fence panels on new posts.

## **25. Remove, Salvage, and Reinstall Historical Stone Retaining Wall, Item SPV.0090.02.**

### **A Description**

This special provision describes work consisting of removing, salvaging, and reinstalling stone retaining walls according to the applicable provisions of standard spec 204 and 206, as shown in the plans, and as hereinafter provided.

### **B (Vacant)**

### **C Construction**

#### **C.1 Remove and Salvage, and Reinstall Historical Stone Retaining Wall Components**

Provide equipment necessary to carefully remove stone retaining walls according to standard spec 204. Remove only those portions of existing stone retaining wall as needed to provide for the construction of Structure B-44-0473.

Western limit of removal of existing wall shall be 5 feet measured from the end of the northwest wing wall ("Wing 3") of Structure B-44-0473. Further removal requires engineer approval.

Salvage sufficient materials to complete the reinstallation beyond the limits of Structure B-44-0473. Salvage materials adjacent to the existing abutment and up to the removal limit for replacement of stone at the western limit of removal as directed by the engineer.

Store the salvaged boulders and stone items at a location such as to preserve the integrity, quality, and condition of the existing boulders and stone removed. Reinstall the stone walls to a similar quality and condition as the existing wall prior to removal. Align the wall face to transition from matching the existing wall to matching the front face of the northwest wing wall ("Wing 3") of Structure B-44-0473.

## **C.2 Excavation and Backfill**

Excavation and preparation of the foundation for reinstalling the stone retaining wall shall be performed according to standard spec 206. At the end of each working day, provide temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction.

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

Do not operate tracked or wheeled equipment on the backfill.

## **C.3 Compaction**

Compact wall backfill with each backfill lift.

Compaction of backfill should be accomplished using lightweight compaction devices.

## **C.4 Reinstall Salvaged Boulder and Stone Wall Components**

Reinstall stone retaining walls upon completion of Structure B-44-0473. Removal limits as shown on the plans includes a minimal allowance to select stone and boulders that have not been damaged by removal and the integrity has been maintained.

Prior to reinstallation, attain engineer approval of condition and quality that is sound, hard, dense, free from seams or cracks, or other structural defects of the existing stone and boulders for use in reinstallation.

Erect wall elements according to the elevations to match preconstruction conditions.

Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

## **D Measurement**

The department will measure Remove, Salvage, and Reinstall Historical Stone Retaining Wall by the linear foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed beyond theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Remove, Salvage, and Reinstall Historical Stone Retaining Wall	LF

Payment is full compensation for preparing the site, including all necessary excavation and disposal of materials; salvaging existing stone materials, supplying new materials, if necessary, to complete the reinstallation; constructing the walls and providing temporary drainage; providing backfill, backfilling, compacting, and performing compaction testing.

**26. Security Barbed Wire Fence, Item SPV.0090.03.**

**A Description**

This special provision describes work consisting of furnishing and installing security barbed wire fence according to the applicable provisions of standard spec 616, as shown in the plans, and as hereinafter provided.

**B Materials**

Furnish barbed wire fence according to the applicable provision of standard spec 616 include the following:

1. Fence fabric height must be 7 feet, include the top guard. Fence height including outriggers must be a minimum of 8 feet.
2. Bottom fencing barbs must be affixed tightly in place and no more than two inches from the ground.
3. Furnish three strands of barbed wire conforming to standard spec 616.2.2.2

**C Construction**

Install Security Barbed Wire Fence according to the applicable provision of standard spec 616 and consistent with matching into existing adjacent barbed wire fencing.

**D Measurement**

The department will measure Security Barbed Wire Fence by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Security Barbed Wire Fence	LF

Payment is full compensation for furnishing and installing, including all necessary excavation, mounting brackets, and disposal of excess of material.

**27. Concrete Sidewalk 6-Inch Special, Item SPV.0165.01.**

**A Description**

This special provision describes constructing 6-inch concrete sidewalk 6-Inch at the corners of the bridge as detailed on the plans and according to standard spec 602 and as hereinafter provided.

**B Materials**

Follow the plan details and the appropriate requirements of standard spec 602.

**C Construction**

Follow the plan details and the appropriate requirements of standard spec 602.

**D Measurement**

The department will measure Concrete Sidewalk 6-Inch Special by the square foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Concrete Sidewalk 6-Inch Special	SF

Payment is full compensation for providing furnishing, forming and placing steel reinforcement and concrete.

**28. Remove, Salvage, and Reinstall Rock Landscaping, Item SPV.0165.02.**

**A Description**

This special provision describes removing, salvaging, and reinstalling rock landscaping conforming to standard spec 204 and as described herein provided.

**B (Vacant)**

**C Construction**

Remove rock landscaping shown in the plans, stockpile and store on site, and reinstall in-kind upon project completion.

**D Measurement**

The department will measure Remove, Salvage, Reinstall Rock Landscaping by the square foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.02	Remove, Salvage, and Reinstall Rock Landscaping	SF

Payment is full compensation for removal, storing of salvaged rock, and reinstalling the rock landscaping.

**29. Cut-Stone Boulders, Item SPV.0165.03.**

**A Description**

This special provision describes work consisting of furnishing and placing cut-stone boulders according to the requirements of the plans and these specifications.

**B Materials**

Provide stone for cut-stone boulders of durable quarry limestone of approved quality that are sound, hard, dense, resistant to the action of air and water, and free from seams, cracks or other structural defects. Alternate materials made of regionally quarried, similarly durable stone may be used if approved by the engineer.

Provide stone pieces for cut-stone boulders that are rectangular in shape and approved by the engineer with dimensions as shown on the plans.

**C Construction**

Properly trim and shape the bed for the cut-stone boulders in a stair-step configuration as shown on the plans. Set succeeding courses of cut-stone boulders to overlap underlying joints.

Place cut-stone boulders by any mechanical means that will produce a completed job within reasonable tolerances of the typical section shown on the plans. Firmly set each cut stone boulder with no rocking or tipping providing a firm foundation for subsequent layers. Unless otherwise provided on the plans, provide cut-stone boulders not less than 8 inches thick. Limit hand work to the amount necessary to fill large voids or to correct segregated areas. Conform to the requirements of standard spec 645.3.7 for the placement of cut-stone boulders over geotextile Type HR. Do not place cut-stone boulders against or in contact with any concrete masonry surface prior to the expiration of the curing and protection period for the concrete.

**D Measurement**

The department will measure Cut-Stone Boulders by the square foot in place of the completed work, and the quantity thereof to be paid for will be the summation of the square foot projections onto a vertical plane of the surface areas of such cut-stone boulders incorporated in the work according to the contract. Only accepted work will be measured for payment, and the computation of the quantity thereof will be based on the area within the limiting dimensions designated on the plans, in the contract or established by the engineer.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.03	Cut-Stone Boulders	SF

Payment is full compensation for excavation and preparation of the bed, including backfilling and disposal of surplus material; for furnishing and placing cut-stone boulders; and for restoring the site of the work.

**30. Shredded Hardwood Bark Mulch, Item SPV.0180.01.**

**A Description**

This special provision describes furnishing and placing shredded hardwood bark mulch at the location shown on the plans and according to standard spec 632 and as hereinafter provided.

**B Materials**

Shredded Hardwood Bark Mulch shall be finely shredded hardwood bark mulch and shall be the product of a mechanical chipper, hammermill, or tub grinder and match existing shredded bark mulch color located adjacent to the Kaukauna Utility Building at 777 Island Street. The material shall be fibrous and uniformly colored to match the existing bark mulch within the area, free of large wood chunks, and shall be substantially free of mold, dirt, sawdust, and foreign material. No portion of the material shall be in an advanced state of decomposition. The material shall be free of material detrimental to healthy plant growth, not contain chipped up manufactured boards or chemically treated wood, including but not limited to wafer board, particle board, chromated copper arsenate (CCA) or penta-treated wood and not contain color dyes. The material shall contain no bark of the black walnut tree. The material shall be 1/8" nominal thickness, with at least 50 percent having an area of not less than 1 sq. inch. The maximum length of individual pieces shall not exceed 2 inches.

**C Construction**

Install mulch according to standard spec 632.3.9 to a depth of 3 inches. Pull back mulch no less than 3" and no more than 6" from any tree trunk.

**D Measurement**

The department will measure Shredded Hardwood Bark Mulch by the square yard of surface area, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01.	Shredded Hardwood Bark Mulch	SY

Payment is full compensation for furnishing and installing shredded hardwood bark mulch.

**31. Concrete Pavement 8-Inch Special, Item SPV.0180.02.**

**A Description**

Install Concrete Pavement 8-Inch Special as shown on the plans, as directed by the engineer, and as hereinafter provided.

**B Materials**

Furnish materials conforming to standard spec 415 and as hereinafter described.

**C Construction**

Construct the per standard spec 415 and provide reinforcement and taper at the abutments per the construction detail included elsewhere in the road plans.

**D Measurement**

The department will measure Concrete Pavement 8-Inch Special in area by the square yard of surface in accordance with standard spec 415.4(1), acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.02	Concrete Pavement 8-Inch Special	SY

Payment will be in accordance with standard spec 415.5(2).



**ADDITIONAL SPECIAL PROVISION 4**

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

**Payment to First-Tier Subcontractors**

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

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

**Payment to Lower-Tier Subcontractors**

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

**Additional Special Provision 6****ASP 6 - Modifications to the standard specifications**

*Make the following revisions to the standard specifications:*

**415.3.16 Tolerance in Pavement Thickness**

*Replace the entire text with the following effective with the November 2021 letting:*

**415.3.16.1 General**

- (1) Construct the plan thickness or thicker. The department will accept pavement thickness based on the results of department-performed acceptance testing conforming to:

Magnetic Pulse Induction .....	CMM 870: ASTM E3209 WTM
Probing.....	CMM 870: WTP C-002
Preplacement Measurement .....	CMM 870: WTP C-003

**415.3.16.2 Pavement Units****415.3.16.2.1 Basic Units**

- (1) Basic unit is defined as a slip formed, single lane, with a minimum lane width of 10 feet, measured, from the pavement edge to the adjacent longitudinal joint; from one longitudinal joint to the next; or between pavement edges if there is no longitudinal joint.

**415.3.16.2.2 Special Units**

- (2) Establish special units for areas of fillets, intersections, gaps, gores, shoulders, ramps, pavement lanes less than 10 feet wide and other areas not included in basic units.

**415.3.16.3 Test Plate Locations**

- (1) Place department-furnished test plates. Within 5 business days after paving, enter the sequential number and associated position data into MRS available at:

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

- (2) Contractor will maintain plate location markings for 10 business days after paving.

**415.3.16.4 Acceptance Testing****415.3.16.4.1 Basic Units****415.3.16.4.1.2 Magnetic Pulse Induction**

- (1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.
- (2) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before testing.
- (3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings falls within the 80 to 50 percent pay range.
- (4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable. Department will determine limits of unacceptable pavement by performing the following:
- The engineer will test each consecutive plate stationed ahead and behind until the thickness test result is plan thickness or greater.
  - The engineer will direct the contractor to core the hardened concrete to determine the extent of the unacceptable area. In each direction, the contractor shall take cores at points approximately 20 feet from the furthest out of specification plate towards the plate that is plan thickness of greater. Once a core is within 80 to 100 percent pay range, the coring is complete and the limits of unacceptable pavement extend from the stationing between the core test results of 80 to 100 percent payment, inclusive of all unacceptable core and plate test results.
  - The contractor shall perform coring according to AASHTO T24. The department will evaluate the results according to AASHTO T148
  - The contractor shall fill core holes with concrete or mortar.

**415.3.16.4.2 Special Units****415.3.16.4.2.1 Magnetic Pulse Induction**

- (1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.
- (2) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before testing.
- (3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings falls within the 80 to 50 percent pay range.
- (4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the department will measure the second plate in that unit. If both plates are required to be measured, then all six thickness measurements will be averaged for that unit. If the average of the six measurements is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable.

**415.3.16.4.2.2 Probing**

- (1) The department will measure slip form special units during concrete placement. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.
- (2) Department will probe 2 random locations within the special unit. The average of the two readings will be the reported measurement for the special unit.

**415.3.16.4.2.3 Preplacement Measurement**

- (1) The department will measure non-slip form special units before concrete placement.
- (2) Thickness corrections will be made to a conforming thickness by reshaping the base aggregate before the pavement is placed.

**415.5.2 Adjusting Pay for Thickness**

Replace the entire text with the following effective with the November 2021 letting:

- (1) The department will adjust pay for pavement thickness under the Nonconforming Thickness Concrete Pavement administrative item as follows:

FOR PAVEMENT THINNER THAN PLAN THICKNESS BY:	PERCENT OF THE CONTRACT UNIT PRICE
> 1/4 inch but <= 1/2 inch	80
> 1/2 inch but <= 3/4 inch	60
> 3/4 inch but <= 1 inch	50

- (2) When pavement of unacceptable final thickness is determined, as specified in 415.3.16.4, the department will direct the contractor to either:
  1. Remove and replace unacceptable concrete pavement to the nearest joint with new concrete pavement of conforming thickness. The department will pay once for the area at the full contract price.
  2. If the unacceptable pavement is less than 100 LF, the department may allow the concrete to remain in place without payment for the unacceptable area.

**460.2.6 Recovered Asphaltic Binders**

Replace paragraph two with the following effective with the November 2021 letting:

- (2) The contractor may replace virgin binder with recovered binder up to the maximum percentage allowed under 460.2.5 without further testing. When the design percent asphalt binder replaced exceeds the allowable limits in 460.2.5, the contractor must:
  - Document adjustments made to the mix design in the mix design submittal.
  - Submit test results that indicate the mixture's asphaltic binder meets or exceeds the upper and lower temperature grade requirements the bid item designates.
    - If only one recycled asphaltic material source is used, furnish one of the following:
      - Test results from extracted and recovered binder from the resultant mixture.
      - Blending charts that indicate the resultant mixture's high and low temperature PG as an interpolation of the percent binder replaced between the virgin binder's and the recycled asphaltic material source binder's high and low temperature PG.
    - If two or more recycled asphaltic material sources are used, furnish test results from extracted and

recovered binder from the resultant mixture.

**501.2.6 Water**

*Retitle with the following effective with the November 2021 letting:*

**501.2.6 Mixing Water**

**501.2.6.2 Requirements**

*Replace paragraph two with the following effective with the November 2021 letting:*

(2) Water from other sources must comply with the following:

Acidity, maximum of 0.1N NaOH to neutralize 200 mL of water; CMM 870: WTP C-001.....	2 mL
Alkalinity, maximum of 0.1N HCL to neutralize 200 mL of water; CMM 870: WTP C-001.....	15 mL
Maximum sulphate (SO <sub>4</sub> ); CMM 870: WTP C-001.....	0.05 percent
Maximum chloride; CMM 870: WTP C-001.....	0.10 percent
Maximum total solids; CMM 870: WTP C-001	
Organic.....	0.04 percent
Inorganic.....	0.15 percent

**501.3.2.4.2 Air Entrainment**

*Replace paragraph two with the following effective with the November 2021 letting:*

(2) Test fresh concrete air content according to AASHTO T152 or AASHTO TP118 at the contract-required frequency and as the engineer directs. Test concrete placed by pumping or belting at the point of discharge from the pump line or belt.

**501.3.7.1 Slump**

*Replace paragraph one with the following effective with the November 2021 letting:*

- (1) Use a 1-inch to 4-inch slump for concrete used in structures or placed in forms, except as follows:
- Do not exceed a slump of 2 inches for grade E concrete.
  - Increase slump as specified in 502.3.5.3 for concrete placed underwater.
  - If BTS approves a concrete mixture using a superplasticizer, the contractor may increase slump for that mixture to a maximum of 9 inches without exceeding the maximum mix water allowed for that grade.

**531.5 Payment**

*Replace paragraph two with the following effective with the November 2021 letting:*

(2) Payment for Concrete Masonry Ancillary Structures Type NS is full compensation for providing concrete for non-standard sign structure foundations; and for anchor rod assemblies. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

*Replace paragraph five with the following effective with the November 2021 letting:*

(5) Payment for the Foundation bid items is full compensation for providing concrete foundations; for anchor rod assemblies; for reinforcing steel; and for embedded conduit and electrical components. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

**642.2.2.1 General**

*Replace paragraph one with the following effective with the November 2021 letting:*

(1) Provide each field office with two rooms, separated by an interior door with a padlock. Ensure that each room has a separate exterior door and its own air conditioner. Locate the office where a quality internet connection can be achieved. Ensure quality cell phone reception is achievable inside the field office.

**701.3.1 General**

*Replace table 701-1 with the following effective with the November 2021 letting:*

**TABLE 701-1 TESTING AND CERTIFICATION STANDARDS**

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 830.9.2	Transportation Materials Sampling Technician (TMS) TMS Assistant Certified Technician (ACT-TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2 <sup>[1]</sup> <sup>[4]</sup>	TMS, ACT-TMS, AGGTEC-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11 <sup>[1]</sup>	AGGTEC-I, ACT-AGG
Fine & coarse aggregate gradation	AASHTO T27 <sup>[1]</sup>	
Aggregate moisture content	AASHTO T255 <sup>[1]</sup>	
Fractured faces	ASTM D5821 <sup>[1]</sup>	
Liquid limit	AASHTO T89	
Plasticity index	AASHTO T90 <sup>[3]</sup>	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152 <sup>[2]</sup> AASHTO TP118 <sup>[5]</sup>	
Air void system of fresh concrete	AASHTO TP118 <sup>[5]</sup>	
Concrete slump	AASHTO T119 <sup>[2]</sup>	
Concrete temperature	ASTM C1064	
Making and curing concrete specimens	AASHTO T23	
Moist curing for concrete specimens	AASHTO M201	
Concrete compressive strength	AASHTO T22	
Concrete flexural strength	AASHTO T97	
Concrete surface resistivity <sup>[2]</sup>	AASHTO T358	
Voids in aggregate	AASHTO T19	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Profiling	—	PCCTEC-II PROFILER

<sup>[1]</sup> As modified in CMM 860.

<sup>[2]</sup> As modified in CMM 870.

<sup>[3]</sup> A plasticity check, if required under individual QMP specifications, may be performed by an AGGTEC-I in addition to the certifications listed for liquid limit and plasticity index tests.

<sup>[4]</sup> Plant personnel may operate equipment to obtain samples under the direct observation of a TMS or higher.

<sup>[5]</sup> Consolidate by rodding.

## 710.2 Small Quantities

*Replace the entire text with the following effective with the November 2021 letting:*

- (1) The department defines small quantities as follows:
  - As specified in 715.1.1.2 for class I concrete.
  - Less than 50 cubic yards of class II ancillary concrete placed under a single bid item.
- (2) For contracts with only small quantities of material subject to testing, modify the requirements of 710 as follows:
  1. The contractor may submit an abbreviated quality control plan as allowed in 701.1.2.3.
  2. Provide one of the following for aggregate process control:
    - Documented previous testing dated within 120 calendar days. Provide gradation test results to the engineer before placing material.
    - Non-random start-up gradation testing.

## 710.4 Concrete Mixes

*Replace paragraph two with the following effective with the November 2021 letting:*

- (2) At least 7 business days before producing concrete, document that materials conform to 501 unless the engineer allows or individual QMP specifications provide otherwise. Include the following:

1. For mixes: quantities per cubic yard expressed as SSD weights and net water, water to cementitious material ratio, air content, and SAM number.
2. For cementitious materials and admixtures: type, brand, and source.
3. For aggregates: absorption, SSD bulk specific gravity, wear, soundness, freeze thaw test results if required, and air correction factor. Also include aggregate production records dated within 2 years if using those results in the design. Submit component aggregate gradations, aggregate proportions, and target combined blended aggregate gradations using the following:
  - DT2220 for combined aggregate gradations.
  - DT2221 for optimized aggregate gradations.
4. For optimized concrete mixtures:
  - Complete the worksheets within DT2221 according to the directions.
  - Ensure the optimized aggregate gradations and the optimized mix design conform to WisDOT specifications and pass the built-in tests within DT2221.
  - Verify slip-form mixture workability according to AASHTO TP137 and conformance to specifications through required trial batching.
  - Submit the completed DT2221 to the engineer electronically. Include the trial batch test results with the mix design submittal.

Replace paragraph four with the following effective with the November 2021 letting:

- (4) Prepare and submit modifications to a concrete mix to the engineer for approval 3 business days before using that modified mix. Modifications requiring the engineer's approval include changes in:
  1. Source of any material. For paving and barrier mixes, a source change for fly ash of the same class does not constitute a mix design change.
  2. Quantities of cementitious materials.
  3. Addition or deletion of admixtures. Minor admixture dosage adjustments required to maintain air content or slump do not require engineer review or approval.

### **710.5.5 Strength**

Replace paragraph one with the following effective with the November 2021 letting:

- (1) Cast all 6" x 12" cylinders or all 6" x 6" x 21" beams in a set from the same sample. Do not cast more than one set of specimens from a single truckload of concrete. Mark each specimen to identify the lot and subplot or location on the project it represents.

### **710.5.6 Aggregate Testing**

Retitle and replace the entire text with the following effective with the November 2021 letting:

#### **710.5.6 Aggregate Testing During Concrete Production**

##### **710.5.6.1 General**

- (1) The department will accept gradation based on the results of department-performed acceptance testing.
- (2) The department and contractor will obtain samples using the same method. When belt sampling, contractor personnel shall obtain samples for the department under the direct observation of the department personnel. Contractor will define sampling method in the QMP or abbreviated QMP.

##### **710.5.6.2 Contractor Control Charts**

###### **710.5.6.2.1 General**

- (1) Test aggregate gradations during concrete production except as allowed for small quantities under 710.2. Required contractor testing will be performed using non-random samples.
- (2) Sample aggregates from either the conveyor belt or from the working face of the stockpiles.
- (3) Sample aggregates within 2 business days before placement for each mix design. Include this gradation on the control charts.
- (4) Report gradation test results and provide control charts to the engineer within 1 business day of obtaining the sample. Submit results to the engineer and electronically into MRS as specified in 701.1.2.7.
- (5) Conduct aggregate testing at the minimum frequency shown based on the anticipated daily cumulative plant production for each mix design. The contractor's concrete production tests can be used for the same mix design on multiple contracts.

**TABLE 710-1 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS I**

DAILY PLANT PRODUCTION RATE FOR WisDOT WORK	MINIMUM FREQUENCY
Gradation Report Before Placement	
1000 cubic yards or less	one test per day
more than 1000 cubic yards	two tests per day

**TABLE 710-2 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS II**

MINIMUM FREQUENCY
Gradation Report Before Placement
One test per calendar week of production

**710.5.6.2.2 Optimized Aggregate Gradation Control Charts**

- (1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the following:
  - 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.
  - Sum of volumetric percentages retained on No. 8, No. 16, and No. 30 sieves.
  - Sum of volumetric percentages retained on No. 30, No. 50, No. 100, and No. 200 sieves.
- (2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the volumetric percent retained of the optimized aggregate gradation limits specified in table 501-4.
- (3) Throughout the contract, construct a 4-point running average of the volumetric percent retained for each sieve to determine if the blended aggregate gradation is within the tarantula curve limits specified in table 501-4.

**710.5.6.2.3 Combined Aggregate Gradation Control Charts**

- (1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.
- (2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the percent passing by weight requirements of the combined aggregate gradation limits specified in table 501-4.
- (3) Throughout the contract, construct a 4-point running average of the percent passing by weight for each sieve to determine if the blended aggregate gradation is within the combined aggregate gradation limits specified in table 501-4.

**710.5.6.3 Department Acceptance Testing**

- (1) Department testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract.
- (2) The department will split each sample, test for acceptance, and retain the remainder for a minimum of 10 calendar days.
- (3) The department will obtain the sample and deliver to regional testing lab in the same day. Department will report gradation test results to the contractor within 1 business day of being delivered to the lab. Department and contractor can agree to an alternative test result reporting timeframe; alternative timeframe is required to be documented in the QMP.
- (4) Additional samples may be taken at the engineer's discretion due to change in condition.

**TABLE 710-3 DEPARTMENT GRADATION TESTING FREQUENCY**

CONCRETE CLASSIFICATION	MINIMUM DEPARTMENT FREQUENCY
Class I: Pavement	1 test per placement day for first 5 days of placement. If all samples are passing, reduced frequency is applied.
	Reduced frequency: 1 test per calendar week of placement
Class I: Structures	1 test per 250 CY placed <ul style="list-style-type: none"> <li>- Minimum of 1 test per substructure</li> <li>- Minimum of 1 test per superstructure</li> </ul>

Class I: Cast-in-Place Barrier	1 test per 500 CY placed
Class II	No minimum testing

### 710.5.7 Corrective Action

*Replace the entire text with the following effective with the November 2021 letting:*

#### 710.5.7.1 Optimized Aggregate Gradations

- (1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size, do the following:
1. Notify the other party immediately.
  2. Perform corrective action documented in the QC plan or as the engineer approves.
  3. Document and provide corrective action results to the engineer as soon as they are available.
  4. Department will conduct two tests within the next business day after corrective action is complete.
  5. If blended aggregate gradations are within the tarantula curve limits by the second department test:
    - Continue with concrete production.
    - Contractor will include a break in the 4-point running average.
    - For Class I: Pavements, department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
  6. If blended aggregate gradations are not within the tarantula curve limits by the second department test:
    - Provide a new mix design with an increased cementitious content.
    - If the mix design already has a cementitious content of 565 or more pounds per cubic yard, provide a new mix design.
    - If the contract requires optimized aggregate gradations under 501.2.7.4.2.1(2), stop concrete production and submit a new mix design.
- (2) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a new mix design.
- (3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.

#### 710.5.7.2 Combined Aggregate Gradations

- (1) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by less than or equal to 1.0 percent on a single sieve size, do the following:
1. Notify the other party immediately.
  2. Perform corrective action documented in the QC plan or as the engineer approves.
  3. Document and provide corrective action results to the engineer as soon as they are available.
  4. Department will conduct two tests within the next business day after corrective action is complete.
  5. If blended aggregate gradations are within the combined aggregate gradation limits by the second department test:
    - Continue with concrete production.
    - Contractor will include a break in the 4-point running average.
    - For Class I: Pavements, department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
  6. If blended aggregate gradations are not within the combined aggregate gradation limits by the second department test, stop concrete production and submit a new mix design.
- (2) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a new mix design.
- (3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.



**715.3.1.1 General**

Replace paragraphs three and four with the following effective with the November 2021 letting:

- (3) Cast a set of 3 additional 6"x12" cylinders and test the concrete surface resistivity according to AASHTO T358. Perform this testing at least once per lot if total contract quantities are greater than or equal to the following:
  - 20,000 square yards for pavements.
  - 5,000 linear feet for barriers.
  - 500 cubic yards for structure concrete.

Submit the resistivity to the nearest tenth into MRS for information only. Resistivity testing is not required for the following:

- Lot with less than 3 sublots.
- Concrete items classified as ancillary.
- Concrete placed under the following bid items:
  - Concrete Pavement Approach Slab
  - Concrete Masonry Culverts
  - Concrete Masonry Retaining Walls
- (4) Test the air void system at least once per lot and enter the SAM number in MRS for information only. SAM testing is not required for the following:
  - For lots with less than 3 sublots.
  - High early strength (HES) concrete.
  - Special high early strength (SHES) concrete.
  - Concrete placed under the following bid items:
    - Concrete Pavement Approach Slab
    - Concrete Masonry Culverts
    - Concrete Masonry Retaining Walls
    - Steel Grid Floor Concrete Filled
    - Crash Cushions Permanent
    - Crash Cushions Permanent Low Maintenance
    - Crash Cushions Temporary

**715.3.1.2.3 Lots by Cubic Yard**

Replace the entire text with the following effective with the November 2021 letting:

- (1) Define standard lots and sublots conforming to the following:

**TABLE 715-1 CLASS I - LOT AND SUBLot SIZES**

CONCRETE CLASSIFICATION	LOT SIZE	SUBLot SIZE	NUMBER OF SUBLots PER LOT
Class I: Pavement	1250 cubic yards	250 cubic yards	5
Class I: Structures	250 cubic yards	50 cubic yards	5
Class I: Cast-in-Place Barrier	500 cubic yards	100 cubic yards	5

- (2) The contractor may include sublots less than or equal to 25 percent of the standard volume in the previous subplot. For partial sublots exceeding 25 percent of the standard volume, notify the engineer who will direct additional testing to represent that partial subplot.
- (3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 3 or more sublots for that lot.

**715.3.2 Strength Evaluation**

Replace the entire text with the following effective with the November 2021 letting:

**715.3.2.1 General**

- (1) The department will make pay adjustments for strength on a lot-by-lot basis using the compressive strength of contractor QC cylinders or the flexural strength of contractor QC beams.

- 
- (2) Randomly select 2 QC specimens to test at 28 days for percent within limits (PWL). Compare the strengths of the 2 randomly selected QC specimens and determine the 28-day subplot average strength as follows:
- If the lower strength divided by the higher strength is 0.9 or more, average the 2 QC specimens.
  - If the lower strength divided by the higher strength is less than 0.9, break one additional specimen and average the 2 higher strength specimens.

### **715.3.2.2 Removal and Replacement**

#### **715.3.2.2.1 Pavement**

- (1) If a subplot strength is less than 2500 psi in compressive strength or 500 psi in flexural strength, the department may direct the contractor to core that subplot to determine its structural adequacy and whether to direct removal.
- (2) If the engineer directs coring, obtain three cores from the subplot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24.
- (3) Have an independent consultant test cores according to AASHTO T24.
- (4) The department will assess concrete for removal and replacement based on a subplot-by-subplot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.
- (5) The subplot pavement is conforming if the compressive strengths of all cores from the subplot are 2500 psi or greater.
- (6) The subplot pavement is nonconforming if the compressive strengths of any core from the subplot is less than 2500 psi. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

#### **715.3.2.2.2 Structures and Cast-in-Place Barrier**

- (1) The department will evaluate the subplot for possible removal and replacement if the 28-day subplot average compressive strength is lower than  $f'c$  minus 500 psi. The value of  $f'c$  is the design stress the plans show. The department may assess further strength price reductions or require removal and replacement only after coring the subplot.
- (2) The engineer may initially evaluate the subplot strength using a non-destructive method. Based on the results of non-destructive testing, the department may accept the subplot at the previously determined pay for the lot, or direct the contractor to core the subplot.
- (3) If the engineer directs coring, obtain three cores from the subplot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24. Determine core locations, subject to the engineer's approval, that do not interfere with structural steel.
- (4) Have an independent consultant test cores according to AASHTO T24.
- (5) The department will assess concrete for removal and replacement based on a subplot-by-subplot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.
- (6) If the 3-core average is greater than or equal to 85 percent of  $f'c$ , and no individual core is less than 75 percent of  $f'c$ , the engineer will accept the subplot at the previously determined pay for the lot. If the 3-core average is less than 85 percent of  $f'c$ , or an individual core is less than 75 percent of  $f'c$ , the engineer may require the contractor to remove and replace the subplot. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

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### **715.3.3 Aggregate**

*Replace the entire text with the following effective with the November 2021 letting:*

#### **715.3.3.1 General**

- (1) Except as allowed for small quantities in 710.2, test aggregate conforming to 710.5.6.

#### **715.3.3.2 Structures**

- (1) In addition to the aggregate testing required under 710.5.6, determine the fine and coarse aggregate moisture content for each sample.
- (2) Calculate target batch weights for each mix when production of that mix begins. Whenever the moisture content of the fine or coarse aggregate changes by more than 0.5 percent, adjust the batch weights to maintain the design w/cm ratio.

**715.5 Payment**

*Replace the entire text with the following effective with the November 2021 letting:*

**715.5.1 General**

- (1) The department will pay incentive for compressive strength under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

- (2) Incentive payment may be more or less than the amount the schedule of items shows.
- (3) The department will administer disincentives for strength under the Disincentive Strength Concrete Structures, Disincentive Strength Concrete Barrier, Disincentive Flexural Strength Concrete Pavement, and Disincentive Compressive Strength Concrete Pavement, administrative items.
- (4) The pay factor that is calculated from the equations in 715.5.2(2) and 715.5.3(2) will be applied to the unit costs listed below:
- Pavement: \$45 per SY.
  - Structure: \$635 per CY.
  - Cast-in-place barrier: \$75 per LF.
- (5) 28-day strength average for a lot is the average of the individual subplot strengths within the given lot.
- (6) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.
- (7) Submit test results to the department electronically using MRS software. The department will validate contractor data before determining pay adjustments.
- (8) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.

**715.5.2 Compressive Strength**

- (1) The department will measure PWL relative to strength lower specification limits as follows:
- Compressive strength of 3700 psi for pavements.
  - Compressive strength of 4000 psi for structures and cast-in-place barrier.

- (2) The department will adjust pay for each lot using equation "Comp2022" as follows:

Percent within Limits (PWL)	Pay Factor (%)
>= 90 to 100	$(1/5 \times \text{PWL}) + 82$
>= 85 to < 90	100
>= 50 to < 85	$(5/7 \times \text{PWL}) + (275/7)$
< 50	50 <sup>[1]</sup>

<sup>[1]</sup> Any material resulting in a lot PWL value less than 50 will be evaluated according to 715.3.2. In the event the material remains in place, it will be paid at 50 percent of the contract unit price of the concrete bid item.

- (3) The department will not pay incentive if the lot standard deviation is greater than the following:
- 400 psi for pavement.
  - 350 psi for structure and cast-in-place barrier
- (4) For lots with less than 3 sublots, there is no incentive but the department will reduce pay by 50 percent of the contract unit price for sublots with an average compressive strength below the following:
- 3700 psi for pavements.
  - 4000 psi for structures and cast-in-place barrier.

**715.5.3 Flexural Strength**

- (1) The department will measure PWL relative to strength lower specification limits as follows:
- Flexural strength of 650 psi for pavements.

- (2) The department will adjust pay for each lot using equation "Flex2022" as follows:

Percent within Limits (PWL)	Pay Factor (%)
>= 90 to 100	$(2/5 \times \text{PWL}) + 64$
>= 85 to < 90	100

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>= 50 to < 85  
< 50

$(5/7 \times \text{PWL}) + (275/7)$   
50<sup>[1]</sup>

<sup>[1]</sup> Material resulting in a lot PWL value less than 50 will be evaluated according to 715.3.2. In the event the material remains in place, it will be paid at 50 percent of the contract unit price of the concrete bid item.

- (3) The department will not pay incentive if the lot standard deviation is greater than 60 psi.
  - (4) For lots with less than 3 sublots, there is no incentive but the department will reduce pay by 50 percent of the contract unit price for sublots with an average flexural strength below 650 psi.
-

## ERRATA

**460.2.2.3 Aggregate Gradation Master Range****Correct errata by adding US Standard equivalent sieve sizes.**

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

**TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS**

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm) (1 1/2 inch)	No. 2 (25.0 mm) (1 inch)	No.3 (19.0 mm) (3/4 inch)	No. 4 (12.5 mm) (1/2 inch)	No. 5 (9.5 mm) (3/8 inch)	No. 6 (4.75 mm) (3/16 inch)	SMA No. 4 (12.5 mm) (1/2 inch)	SMA No. 5 (9.5 mm) (3/8 inch)
50.0-mm (2-inch)	100							
37.5-mm (1 1/2-inch)	90 - 100	100						
25.0-mm (1-inch)	90 max	90 - 100	100					
19.0-mm (3/4-inch)	—	90 max	90 - 100	100			100	
12.5-mm (1/2-inch)	—	—	90 max	90 - 100	100		90 - 97	100
9.5-mm (3/8-inch)	—	—	—	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm (No. 4)	—	—	—	—	90 max	90 - 100	25 - 35	35 - 45
2.36-mm (No. 8)	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm (No. 16)	—	—	—	—	—	30 - 55	—	—
0.60-mm (No. 30)	—	—	—	—	—	—	18 max	18 max
0.075-mm (No. 200)	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min <sup>[1]</sup>	15.0 min <sup>[2]</sup>	16.0 - 17.5	16.0 min	17.0 min

<sup>[1]</sup> 14.5 for LT and MT mixes.

<sup>[2]</sup> 15.5 for LT and MT mixes.

**715.5.1 General**Correct the bid item number for Incentive Compressive Strength Concrete Pavement.

- (1) The department will pay incentive for compressive strength under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

**ADDITIONAL SPECIAL PROVISION 7**

- A. Reporting 1<sup>st</sup> Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
  2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
  3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
  4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
  5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
  6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov) within 5 days of payment receipt to be logged manually.

\*\*\*Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

<https://wisconsin.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf>

## **ADDITIONAL SPECIAL PROVISION 9**

### **Electronic Certified Payroll or Labor Data Submittal**

(1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

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

(2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

(4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov). Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:

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

## **Non-discrimination Provisions**

**During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:**

**1. Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

**2. Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

**3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

**4. Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

**5. Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.



**6. Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

**During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:**

**Pertinent Non-Discrimination Authorities:**

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

**Effective November 2020 letting**

### **BUY AMERICA PROVISION**

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

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

Upon completion of the project certify to the engineer, in writing using department form DT4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form DT4567 is available at:

<https://wisconsindot.gov/Documents/formdocs/dt4567.docx>



## Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. P-44-712	1.000 EACH	_____.	_____.
0004	204.0100 Removing Concrete Pavement	987.000 SY	_____.	_____.
0006	204.0150 Removing Curb & Gutter	65.000 LF	_____.	_____.
0008	204.0170 Removing Fence	75.000 LF	_____.	_____.
0010	204.0210 Removing Manholes	1.000 EACH	_____.	_____.
0012	204.0220 Removing Inlets	5.000 EACH	_____.	_____.
0014	204.0245 Removing Storm Sewer (size) 01. 10- Inch	47.000 LF	_____.	_____.
0016	204.0245 Removing Storm Sewer (size) 02. 12- Inch	171.000 LF	_____.	_____.
0018	204.9060.S Removing (item description) 01. Concrete Bollard	1.000 EACH	_____.	_____.
0020	205.0100 Excavation Common	474.000 CY	_____.	_____.
0022	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	519.000 TON	_____.	_____.
0024	206.1000 Excavation for Structures Bridges (structure) 01. B-44-473	LS	LUMP SUM	_____.
0026	210.1500 Backfill Structure Type A	345.000 TON	_____.	_____.
0028	213.0100 Finishing Roadway (project) 01. 6498- 06-71	1.000 EACH	_____.	_____.
0030	305.0120 Base Aggregate Dense 1 1/4-Inch	400.000 TON	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	311.0110 Breaker Run	60.000 TON	_____.	_____.
0034	415.0080 Concrete Pavement 8-Inch	706.000 SY	_____.	_____.
0036	415.0410 Concrete Pavement Approach Slab	94.000 SY	_____.	_____.
0038	415.4100 Concrete Pavement Joint Filling	706.000 SY	_____.	_____.
0040	416.0620 Drilled Dowel Bars	61.000 EACH	_____.	_____.
0042	416.1010 Concrete Surface Drains	2.900 CY	_____.	_____.
0044	455.0605 Tack Coat	2.000 GAL	_____.	_____.
0046	465.0120 Asphaltic Surface Driveways and Field Entrances	5.000 TON	_____.	_____.
0048	502.0100 Concrete Masonry Bridges	471.000 CY	_____.	_____.
0050	502.3200 Protective Surface Treatment	915.000 SY	_____.	_____.
0052	503.0172 Prestressed Girder Type I 72W-Inch	1,208.000 LF	_____.	_____.
0054	505.0400 Bar Steel Reinforcement HS Structures	4,230.000 LB	_____.	_____.
0056	505.0600 Bar Steel Reinforcement HS Coated Structures	59,010.000 LB	_____.	_____.
0058	506.2605 Bearing Pads Elastomeric Non-Laminated	16.000 EACH	_____.	_____.
0060	506.4000 Steel Diaphragms (structure) 01. B-44-473	14.000 EACH	_____.	_____.
0062	513.7011 Railing Steel Type C2	323.000 LF	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	516.0500 Rubberized Membrane Waterproofing	27.000 SY	_____.	_____.
0066	517.1010.S Concrete Staining (structure) 01. B-44-473	2,810.000 SF	_____.	_____.
0068	517.1015.S Concrete Staining Multi-Color (structure) 01. B-44-473	640.000 SF	_____.	_____.
0070	517.1050.S Architectural Surface Treatment (structure) 01. B-44-473	640.000 SF	_____.	_____.
0072	601.0409 Concrete Curb & Gutter 30-Inch Type A	265.000 LF	_____.	_____.
0074	601.0411 Concrete Curb & Gutter 30-Inch Type D	45.000 LF	_____.	_____.
0076	602.0405 Concrete Sidewalk 4-Inch	1,075.000 SF	_____.	_____.
0078	602.0515 Curb Ramp Detectable Warning Field Natural Patina	60.000 SF	_____.	_____.
0080	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	231.000 LF	_____.	_____.
0082	611.0530 Manhole Covers Type J	2.000 EACH	_____.	_____.
0084	611.0624 Inlet Covers Type H	5.000 EACH	_____.	_____.
0086	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.	_____.
0088	611.2044 Manholes 4x4-FT	1.000 EACH	_____.	_____.
0090	611.3230 Inlets 2x3-FT	5.000 EACH	_____.	_____.
0092	612.0406 Pipe Underdrain Wrapped 6-Inch	190.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	614.0920 Salvaged Rail	12.000 LF	_____.	_____.
0096	616.0206 Fence Chain Link 6-FT	26.000 LF	_____.	_____.
0098	619.1000 Mobilization	1.000 EACH	_____.	_____.
0100	624.0100 Water	5.000 MGAL	_____.	_____.
0102	625.0100 Topsoil	190.000 SY	_____.	_____.
0104	628.1504 Silt Fence	30.000 LF	_____.	_____.
0106	628.1520 Silt Fence Maintenance	30.000 LF	_____.	_____.
0108	628.1905 Mobilizations Erosion Control	8.000 EACH	_____.	_____.
0110	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH	_____.	_____.
0112	628.7020 Inlet Protection Type D	11.000 EACH	_____.	_____.
0114	628.7560 Tracking Pads	2.000 EACH	_____.	_____.
0116	629.0210 Fertilizer Type B	0.120 CWT	_____.	_____.
0118	631.0300 Sod Water	10.000 MGAL	_____.	_____.
0120	631.1000 Sod Lawn	180.000 SY	_____.	_____.
0122	634.0614 Posts Wood 4x6-Inch X 14-FT	2.000 EACH	_____.	_____.
0124	634.0616 Posts Wood 4x6-Inch X 16-FT	1.000 EACH	_____.	_____.
0126	637.2210 Signs Type II Reflective H	5.180 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0128	637.2220 Signs Type II Reflective SH	6.630 SF	_____.	_____.
0130	637.2230 Signs Type II Reflective F	9.620 SF	_____.	_____.
0132	638.2602 Removing Signs Type II	3.000 EACH	_____.	_____.
0134	638.3000 Removing Small Sign Supports	1.000 EACH	_____.	_____.
0136	642.5001 Field Office Type B	1.000 EACH	_____.	_____.
0138	643.0300 Traffic Control Drums	50.000 DAY	_____.	_____.
0140	643.0410 Traffic Control Barricades Type II	640.000 DAY	_____.	_____.
0142	643.0420 Traffic Control Barricades Type III	5,104.000 DAY	_____.	_____.
0144	643.0705 Traffic Control Warning Lights Type A	7,568.000 DAY	_____.	_____.
0146	643.0900 Traffic Control Signs	10,032.000 DAY	_____.	_____.
0148	643.1000 Traffic Control Signs Fixed Message	132.000 SF	_____.	_____.
0150	643.1050 Traffic Control Signs PCMS	14.000 DAY	_____.	_____.
0152	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0154	645.0120 Geotextile Type HR	20.000 SY	_____.	_____.
0156	646.1020 Marking Line Epoxy 4-Inch	565.000 LF	_____.	_____.
0158	646.3020 Marking Line Epoxy 8-Inch	25.000 LF	_____.	_____.
0160	646.5020 Marking Arrow Epoxy	2.000 EACH	_____.	_____.





## Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0162	646.6120 Marking Stop Line Epoxy 18-Inch	25.000 LF	_____.	_____.
0164	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	140.000 LF	_____.	_____.
0166	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	60.000 LF	_____.	_____.
0168	650.4000 Construction Staking Storm Sewer	7.000 EACH	_____.	_____.
0170	650.5000 Construction Staking Base	162.000 LF	_____.	_____.
0172	650.5500 Construction Staking Curb Gutter and Curb & Gutter	45.000 LF	_____.	_____.
0174	650.6500 Construction Staking Structure Layout (structure) 01. B-44-473	LS	LUMP SUM	_____.
0176	650.7000 Construction Staking Concrete Pavement	162.000 LF	_____.	_____.
0178	650.9000 Construction Staking Curb Ramps	6.000 EACH	_____.	_____.
0180	650.9910 Construction Staking Supplemental Control (project) 01. 6498-06-71	LS	LUMP SUM	_____.
0182	650.9920 Construction Staking Slope Stakes	162.000 LF	_____.	_____.
0184	690.0150 Sawing Asphalt	59.000 LF	_____.	_____.
0186	690.0250 Sawing Concrete	97.000 LF	_____.	_____.
0188	715.0502 Incentive Strength Concrete Structures	2,826.000 DOL	1.00000	2,826.00
0190	715.0720 Incentive Compressive Strength Concrete Pavement	500.000 DOL	1.00000	500.00



Proposal Schedule of Items

Proposal ID: 20220111023 Project(s): 6498-06-71

Federal ID(s): N/A

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0192	999.1001.S Seismograph	1.000 EACH	_____.	_____.
0194	999.1501.S Crack and Damage Survey	1.000 EACH	_____.	_____.
0196	999.2000.S Installing and Maintaining Bird Deterrent System (station) 01. 10+00	1.000 EACH	_____.	_____.
0198	SPV.0090 Special 01. Remove, Salvage, and Reinstall Decorative Fence Panels	29.000 LF	_____.	_____.
0200	SPV.0090 Special 02. Remove, Salvage, and Reinstall Historical Stone Retaining Wall	5.000 LF	_____.	_____.
0202	SPV.0090 Special 03. Security Barbed Wire Fence	33.000 LF	_____.	_____.
0204	SPV.0165 Special 01. Concrete Sidewalk 6-Inch Special	480.000 SF	_____.	_____.
0206	SPV.0165 Special 02. Remove, Salvage, and Reinstall Rock Landscaping	380.000 SF	_____.	_____.
0208	SPV.0165 Special 03. Cut-Stone Boulders	124.000 SF	_____.	_____.
0210	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	37.000 SY	_____.	_____.
0212	SPV.0180 Special 02. Concrete Pavement 8-Inch Special	34.000 SY	_____.	_____.

Section: 0001 Total: \_\_\_\_\_.

Total Bid: \_\_\_\_\_.

**PLEASE ATTACH ADDENDA HERE**