#### HIGHWAY WORK PROPOSAL

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

Proposal Number: 018

COUNTY	STATE PROJECT	<u>FEDERAL</u>	PROJECT DESCRIPTION	<u>HIGHWAY</u>
Lincoln	9305-09-61	N/A	Merrill - Tomahawk; Culvert Replacement & Repair	STH 107
Lincoln	9305-09-62	N/A	Merrill - Tomahawk; Small Culvert Replacements	STH 107

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

Proposal Guaranty Required: \$40,000.00
Payable to: Wisconsin Department of Transportation

Bid Submittal
Date: September 13, 2022
Time (Local Time): 11:00 am

Contract Completion Time
65 Working Days

Assigned Disadvantaged Business Enterprise Goal 0%

Attach Proposal Guaranty on back of this PAGE.

Firm Name, Address, City, State, Zip Code

# SAMPLE NOT FOR BIDDING PURPOSES

This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date	
(Signature, Notary Public, State of Wisconsin)	(Bidder Signature)
(Print or Type Name, Notary Public, State Wisconsin)	(Print or Type Bidder Name)
(Date Commission Expires)  Notary Seal	(Bidder Title)

Type of Work: For Department	For Department Use Only				
Grading, Base, Milling Asphalt Pavement, Culvet Pipes, Bridge Replacement, Bridge Repair, Signs, Pavement Markings					
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 theinternet.
  - 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: <a href="https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx">https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx</a>

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<sup>TM</sup> on-line bidding exchange at <a href="http://www.bidx.com/">http://www.bidx.com/</a> 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<sup>TM</sup> on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

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

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:

  <a href="https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx">https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx</a>

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 TM web site.
  - 2. Use Expedite TM software to enter a unit price for every item in the schedule of items.
  - 3. Submit the bid according to the requirements of Expedite<sup>TM</sup> software and the Bid Express<sup>TM</sup> 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.
  - 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<sup>TM</sup> 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 TM 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> generated schedule of items is not the same on each page.
  - 2. The check code printed on the printout of the Expedite<sup>TM</sup> 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 Corp	porate Seal)					
(Signature and Title)						
(Company Name)						
(Signature and Title)						
(Company Name)						
(Signature and Title)		(Name of Surety) (Affix Seal)				
(Company Name)		(Signature of Attorney-in-Fact)				
(Signature and Title)						
NOTARY FOR PRINCIPAL		NOTARY FO	R SURETY			
(Date)		(Dat	e)			
State of Wisconsin	)	State of Wisconsin	)			
	) ss. County )		) ss. County )			
On the above date, this instrument was acknowledged before me by the named person(s).		On the above date, this instrument wan named person(s).	as acknowledged before me by the			
(Signature, Notary Public, State of Wisconsin)		(Signature, Notary Publi	c, 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 Commiss	sion 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

(Date)

Time Period Valid (	From/To)
Name of Surety	
Name of Contracto	r
Certificate Holder	Wisconsin Department of Transportation
	y that an annual bid bond issued by the above-named Surety is currently on file with the partment of Transportation.
	is issued as a matter of information and conveys no rights upon the certificate holder mend, 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)

#### March 2010

### LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value	
			_
			_
			_

#### **DECEMBER 2000**

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

## **Instructions for Certification**

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

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

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

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

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

## **Special Provisions**

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## STSP'S Revised January 7, 2022 SPECIAL PROVISIONS

#### 1. General.

Perform the work under this construction contract for Project 9305-09-61, Merrill – Tomahawk, Culvert Replacement & Repair, STH 107, Lincoln County; and Project 9305-09-62, Merrill – Tomahawk, Small Culvert Replacements, STH 107, Lincoln 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 (20220107)

## 2. Scope of Work.

The work under this contract shall consist of Structure C-35-10, Structure B-35-54, 2 culvert replacements with concrete pipe and concrete endwalls or apron endwalls, including approach roadway adjustments consisting of grading, base course, asphalt pavement, pavement markings, beam guard, heavy riprap, detour signs 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 time frame for construction of the project within the 2023 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. 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.

Only one structure or culvert can be constructed at a time in order to provide access to properties between structures and culverts. Only one detour shall be in effect at a time.

The detour route crosses railroad right-of-way along CTH J, approximately 0.2 miles west of USH 51. Do not place traffic control devices within 150 feet of railroad centerline.

Install trenched-in silt fence prior to construction to deter turtles from entering the construction zone. Maintain the silt fence through final stabilization of the graded areas.

#### **Fish Spawning**

There shall be no instream disturbance of the Wisconsin River, Joe Snow Creek, Skanawan Creek, or the unnamed tributaries at Stations 772+75 and 879+48 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 fish.

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

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## **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 one suitable deterrent device on the following structure(s) prior to nesting activity under the bid item Installing and Maintaining Bird Deterrent System:

1220+00

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 removing the existing bridge structure prior to nest occupation by birds or clearing nests from all structures before the nests become active in early spring.

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

### 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 have been identified within 150 feet of the project limits. 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).

To avoid adverse impacts upon the NLEBs, no Clearing is allowed between April 1 and October 31, both dates inclusive.

If the required Clearing is not completed by March 31, the department will suspend all clearing and associated work directly impacted by Clearing. The department will issue a notice to proceed with Clearing and associated work directly impacted by clearing after consulting with the United States Fish and Wildlife Service (USFWS).

Submit a schedule and description of Clearing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

#### 4. Traffic.

#### General

Close STH 107 to through traffic and provide a signed detour during the rehabilitation of Structure C-35-10, Culvert 35107001895 and Culvert 35107001905. Route STH 107 through traffic around project area via STH 64, USH 51 and CTH J. When construction at each location is substantially complete and base aggregate is installed, work may begin on the next location. Pavement may be placed at the three locations after base aggregate has been placed at all three locations.

Close STH 107 to through traffic and provide a signed detour during the replacement of Structure B-35-0054. Route STH 107 through traffic around project area via CTH J, USH 51 and CTH S.

#### **Vehicular Access to Driveways**

Maintain access to driveways and businesses within the project limits at all times.

## **Wisconsin Lane Closure System Advance Notification**

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

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TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16 feet)	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16 feet)	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

## 5. Holiday and Special Event Work Restrictions.

Prior to construction operations beginning or after construction operations have been substantially completed on STH 107, do not perform work on, nor haul materials of any kind along or across any portion of the highway, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 26, 2023 to 6:00 AM Tuesday, May 30, 2023 for Memorial Day;
- From noon Friday, June 30, 2023 to 6:00 AM Wednesday, July 5, 2023 for Independence Day;
- From noon Friday, September 1, 2023 to 6:00 AM Tuesday, September 5, 2023 for Labor Day.

#### 6. Utilities.

This contract comes under the provision of Administrative Rule Trans 220.

stp-107-065 (20080501)

There are underground and overhead utility facilities located within the project limits for this project. The contractor shall coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area, as required by statutes. The contractor shall use caution to ensure the integrity of underground facilities and shall maintain code clearances from overhead facilities at all times.

#### ID 9305-09-61:

C-35-10 – Joe Snow Creek

**Frontier Communications of WI LLC (communications)** has existing overhead facilities on WPS poles on the northeast side of STH 107 just behind the beam guard. The cable is approximately 14 feet above grade. This will be in conflict with the installation of posts for the beam guard. This facility will be relocated to the new WPS poles and set at least 18' above grade prior to construction.

**Spectrum (communications)** has existing overhead facilities on WPS poles on the northeast side of STH 107 just behind the beam guard. This facility will be relocated to the new WPS poles and set at least 18' above grade prior to construction.

**Wisconsin Public Service (WPS; electric)** has existing overhead facilities on the northeast side of STH 107 just behind the beam guard. The neutral wire is approximately 21 feet above grade. This will be in conflict with the installation of posts for the beam guard. WPS will install taller poles and raise the neutral wire to a minimum of 26' prior to construction.

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#### B-35-54 – Skanawan Creek

**Frontier Communications of WI LLC (communications)** had an existing underground facility on the east side of STH 107 between the edge of shoulder and the existing R/W. This facility has been discontinued and has been replaced with an underground facility located within 3' of the easterly R/W purchased for this project. The relocated facility will not be affected by construction operations.

#### ID 9305-09-62:

#### 35107001895

Frontier Communications of WI LLC (communications) had an existing underground facility extending from the south along the LT shoulder, then crossing STH 107 to the RT shoulder at Station 772+00, then along the RT shoulder to Station 773+75. This facility has been discontinued and has been replaced with an underground facility located within 3' of the existing westerly R/W of STH 107. The relocated facility is below the bottom of the rip rap and will not be impacted by construction operations.

**Wisconsin Public Service (WPS; electric)** had two existing overhead facilities that cross STH 107, both originating from a pole at Station 774+22 RT and extending south. These facilities were discontinued and replaced by a single underground facility located about 20' east of the STH 107 centerline. Because this relocated facility is still in conflict with the pipe and rip rap, WPS will be relocating it again by splicing the line and shifting it to the east. Horizontally it is planned to be located within the rip rap area and vertically if will be located below the elevation of the bottom of the rip rap. Relocation will occur in the fall of 2022.

## 35107001905

**Frontier Communications of WI LLC (communications)** had an existing underground facility along the LT shoulder from Station 877+00 to Station 881+00. This facility has been discontinued and has been replaced with an underground facility located about 30' west of the STH 107 centerline. The relocated facility is well below the bottom of the proposed pipe and will not be impacted by construction operations.

**Wisconsin Public Service (WPS; electric)** had two existing overhead facilities that cross STH 107. One originated from a pole at Station 879+10 RT and extended south. The second crossing originated from a pole at Station 880+70 RT and extended west. These facilities have been discontinued and have been replaced by a single underground facility located about 25' east of the STH 107 centerline. The relocated facility is located below the proposed pipe, is well below the bottom of the pipe, and will not be impacted by construction operations.

## 7. Railroad Insurance and Coordination - Fox Valley and Lake Superior Rail System, LLC.

#### **A** Description

Comply with standard spec 107.17 for all work affecting Fox Valley and Lake Superior Rail property and any existing tracks.

## A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Fox Valley and Lake Superior Rail System LLC.

Notify evidence of the required coverage, and duration to Amanda Haggerty, Office Administrator; 1890 E Johnson Street, Madison, WI 53704; Telephone (608) 620-2048; E-mail: ahaggerty@watco.com.

Also send a copy to the following: Anna Davey, NW and NC Region Railroad Coordinator; 1701 N 4th Street, Superior, WI 54880; Telephone (715) 392-7960; E-mail: <a href="mailto:anna.davey@dot.wi.gov">anna.davey@dot.wi.gov</a>.

Include the following information on the insurance document:

- Project: 9305-09-61 / 9305-09-62
- Project Location: Tomahawk, WI
- Route Name: STH 107, Lincoln County
- Crossing ID: approx. 1000' north of 392292U
- Railroad Subdivision: Valley Sub
- Railroad Milepost: 129.07
- Work Performed: Bridge Replacement parallel to railroad.

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#### A.2 Train Operation

Approximately 4 through freight trains operate daily at up to 40 mph. There are no switching movements at this location.

## A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination

#### **Construction Contact**

Roger Schaalma, Divisional Engineer, Fox Valley and Lake Superior Rail System, LLC.; 1890 East Johnson Street, Madison, WI 53704; Telephone (608) 620-2044; E-mail <a href="mailto:rschaalma@watco.com">rschaalma@watco.com</a> for consultation on railroad requirements during construction.

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

## **Flagging Contact**

Rick Grant; Roadmaster; (608) 400-6556; rgrant@watco.com

Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

#### **Cable Locate Contact**

In addition to contacting Diggers Hotline, contact the Construction Contact above at least five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Fox Valley and Lake Superior Rail System, LLC will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

## A.4 Work by Railroad

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

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

## A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

#### **B** Railroad Flagging

Arrange with the railroad for the flagging of trains and safety of railroad operations if clearances specified in standard spec 107.17.1 are not maintained during construction operations. At any other time in railroad representative's judgment, the contractor's work or operations constitute an intrusion into the track zone and create an extraordinary hazard to railroad traffic, and at any other time when flagging protection is necessary for safety to comply with the operating rules of the railroad.

Projects with concurrent activity may require more than one flagger.

Projects with heavy contractor activity within 25 feet of the centerline of any track or unusual or heavy impact on railroad facilities will normally require a full-time flagger.

The department and railroad will monitor operations for compliance with the above flagging requirements. Violations may result in removal from railroad property until arrangements to adhere to the flagging requirements are satisfied. If the railroad imposes additional flagging requirements beyond the above flagging requirements due to the previous violations, the contractor shall bear all costs of the additional flagging requirements.

#### C Flagging by Railroad Pailroad Does Not Pay Flagging Costs

#### C.1 General

Replace paragraph (1,3 and 4) of standard spec 107.17.1 with the following:

(1) Coordinate with the railroad for all work performed within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. Include the following on all submittals and other written communications with the railroad:

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- WisDOT crossing number.
- Railroad milepost.
- Railroad subdivision.
- (3) Perform all work within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way in a way that does not interfere with the safe and uninterrupted operation of railroad traffic. Maintain clearances during construction as follows:
  - 1. Do not operate equipment closer than 25 feet horizontally from a track centerline or 22 feet vertically above the top of a rail, except under the protection of railroad flaggers.
  - 2. Do not store materials or equipment closer than 25 feet horizontally from a track centerline.
  - 3. Provide an obstruction-free work zone adjacent to a track extending 12 feet or more horizontally on both sides of the track centerline. Keep this work zone free of construction debris.
  - 4. Unless the railroad's chief engineering officer approves otherwise in writing, maintain minimum clearances from falsework, forms, shoring, and other temporary fixed objects as follows:
    - 4.1 Provide 12 feet, plus 1.5 inches per degree of track curvature, measured horizontally from the track centerline.
    - 4.2 Provide 21 feet, plus compensation for super-elevated track, measured vertically above the top of the highest rail.
- (4) Comply with the railroad's rules and regulations when work is within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and make payment directly to the railroad. Notify the appropriate railroad representative as listed in section A.3 above, in writing, at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

### C.2 Rates – Fox Valley and Lake Superior Rail System, LLC

The following rates, reimbursement provisions, and excluded conditions will be used to determine the contractor's cost of flagging:

- \$106 per hour with a four-hour minimum up to eight hours in any weekday (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- \$151 per hour for all hours over eight in any weekday (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- \$190 per hour with a four-hour minimum up to eight hours on Saturday's (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- \$190 per hour for all hours over eight on Saturday's <u>or</u> up to eight hours on Sunday's or holidays (including wages, labor surcharges, meal, lodging, vehicle and mileage expenses)

#### **C.3 Reimbursement Provisions**

The actual cost for flagging will be billed by the railroad. After the completion of the work requiring flagging protection as provided in section B above, the department will reimburse 50% of the cost of such services up to the rates provided above based on paid railroad invoices, except for the excluded conditions enumerated below. In the event actual flagging rates exceed the rates stated above, the department will reimburse 100% of the portion of the rate that is greater than the rates stated above.

#### **C.4 Excluded Conditions**

The department will not reimburse any of the cost for additional flagging attributable to the following:

- 1. Additional flagging requirements imposed by the railroad beyond the flagging requirements provided in subsection B above due to violations by the contractor.
- 2. Temporary construction crossings arranged for by the contractor.

The contractor shall bear all costs of the additional flagging requirements for the excluded conditions.

#### C.5 Payment for Flagging

The department will pay for the department's portion of flagging reimbursement as specified in section C of this provision under the following item:

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ITEM NUMBERDESCRIPTIONUNIT801.0117Railroad Flagging ReimbursementDOL

The reimbursement payment, as shown on the Schedule of Items, is solely for department accounting purposes. Actual flagging costs will vary based on the contractor's means and methods.

Railroads may issue progressive invoices. Notify the railroad when the work is completed and request a final invoice from the railroad. Promptly pay railroad-flagging invoices, less any charges that may be in dispute. The department will withhold flagging reimbursement until any disputed charges are resolved and the final invoice is paid. No reimbursement for flagging will be made by the department if a violation of subsection B is documented.

stp-107-034 (20220107)

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Korey Boehm at (715) 459-2943.

stp-107-054 (20210708)

## 9. 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 Korey Boehm at (715) 459-2943. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

### 10. 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

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- 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)

## 11. Environmental Protection - Dewatering.

Add the following to standard spec 107.18:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. Submit the proposed means and methods of dewatering for each required location for approval as part of the Erosion Control Implementation Plan (ECIP). Include details of how the intake will be managed to not cause an increase in the background level turbidity prior to treatment and any additional measures necessary to prevent sediments from reaching the project limits or wetlands and waterways.

Guidance on Dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code #1061. This document can be found at the WisDNR website:

http://dnr.wi.gov/topic/stormwater/standards/const standards.html

Work includes furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material and removal of the dewatering system and is incidental to contract work.

ncr-107-025 (20160401)

## 12. Public Convenience and Safety.

Replace standard spec 107.8 (4) with the following:

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

Lincoln County Sheriff's Department

Wisconsin State Patrol

Lincoln County Highway Department

Town of Bradley

Town of Merrill

Town of Rock Falls

Merrill School District

Tomahawk School District

Irma Post Office

Merrill Post Office

Tomahawk Post Office

The Lincoln County Sheriff's Department 911 dispatches all area police, fire and ambulance services, and will relay any notification given by the contractor.

ncr-107-005 (20200729)

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

The Wisconsin River, Joe Snow Creek and Skanawan Creek are classified as a state navigable waterway under standard spec 107.19.

stp-107-060 (20171130)

#### 14. Erosion Control Structures.

Within three calendar days after completing the excavation for a substructure unit, place riprap or other permanent erosion control items required by the contract or deemed necessary by the engineer around the unit at a minimum to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs.

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

stp-107-070 (20191121)

#### 15. Erosion Control.

Add the following to standard spec 107.20:

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

Replace topsoil on disturbed areas, including spot locations such as cross drains, driveways, guardrail and terminals, and intersections, immediately after grading is completed within those areas. Complete finishing operations, which includes seed, fertilizer, erosion mat, mulch, and any other permanent erosion control measures required, within seven (7) calendar days after the placement of topsoil.

ncr-107-050 (20141015)

#### 16. Coordination with Businesses and Residents.

The department will arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold a meeting one week prior to each traffic staging change. The department will arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

## 17. Asphaltic Surface.

Replace standard spec 465.2 (1) with the following:

Under the Asphaltic Surface bid item submit a mix design. Furnish asphaltic mixture meeting the requirements specified for HMA Pavement Type LT standard spec 460.2; except the engineer will not require the contractor to conform to the quality management program specified under standard spec 460.2.8. Use tack coat as required under 450.3.2.7.

ncr-465-005 (20220530)

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### 18. Seeding.

Add the following to standard spec spec 630.2.1.5.1.1:

Table 630-3 may be used for the mixtures provided in the table:

## TABLE 630-3 (OPTIONAL SEED MIXTURES)

SPECIES	SPECIES	PURITY GERMINATION						RTION r each		ercent pe	()
COMMON NAME (Acceptable Varieties)	BOTANICAL NAMF	minimum %	minimum %	NO	.10	NO	.20	NO	.30	NO	.40
(Acceptable varieties)	INAIVIE			#1	#2	#1	#2	#1	#2	#1	#2
Kentucky Bluegrass (Low Maintenance)	Poa pratensis	98	85	40	42	6	6	10	13	35	35
* Red Fescue (Creeping)	Festuca rubra	97	85	10	13	5	7	15	15	10	15
Hard Fescue (Improved)	Festuca ovina var. duriuscula	97	85			24	22	25	25	20	20
Tall Fescue (Improved Turf Type)	Festuca arundinacea	98	85			40	40				
Salt Grass (Fult's or Salty)	Puccinella distans	98	85					15	15		
Redtop	Agrostis alba	92	85	5	5						
Perennial Ryegrass	Lolium perenne	96	85	25	30	25	25	25	32	25	30
White Clover	Triflium repens	95	90	10	10						
Chewings Fescue	Festuca rubra var. commutata	98	85	10				10		10	
Sheep's Fescue	Festuca ovina	97	85								

<sup>\*</sup> A blend of fescue type will be permitted to achieve the specified Red Fescue (Creeping) percentage using any of the following varieties as substitutes:

Red Fescue (Creeping) Hard Fescue (Improved) Chewings Fescue Sheep's Fescue

## 19. Field Office.

Add the following to standard spec 642.3:

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

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

ncr-642-005 (20160406)

## 20. Traffic Control

Add the following to standard spec 643.3.1:

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

Provide the engineer and law enforcement (police, sheriff and State Patrol) the current telephone number(s) that the contractor, or their representative, can be contacted at, at all times, in the event a safety hazard develops. Repair, replace, or restore the damaged or disturbed traffic control devices within two hours from the time notified or made aware of the damaged or disturbed traffic control devices.

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Promptly replace all state-owned signs that are removed by the contractor due to interference with construction operations. At no time may stop signs be removed or moved without flag persons present.

Add the following to standard spec 104.6.1.2.2:

Provide a dedicated person or alternate method to guide traffic travelling alongside or near moving operations such as milling, paving, and shouldering.

ncr-643-005 (20190703)

## 21. Installing and Maintaining Bird Deterrent System Station 1220+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. One deterrent system shall be installed and/or maintained for each applicable structure. Deterrent methods selected shall be appropriate for structure type, size and/or site-specific constraints.

#### **B** Materials

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

Lumber, hardware, and fastening devices shall be durable enough to last through the length of the nesting season. Fastening devices and deterrence 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 or polypropylene netting with minimum 40-pound breaking strength per strand, or engineer approved equal.
- b. Galvanized wire mesh (hardware cloth) with a wire diameter of .040 inches (19-gauge) and opening width of 1/2-inch.

At a minimum, use either 1"  $\times$  2" (nominal) lumber or 3/4"  $\times$  2" pressure treated plywood strips and 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.

At a minimum, use either 1" x 2" (nominal) lumber or 3/4" x 2" pressure treated plywood strips and 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.

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#### **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, Wendy Henniges, at (715) 365-8916, or the department regional environmental coordinator, Greer Lundquist, at (715) 365-5758.

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. Nest removal is not required if deterrents are installed before the start of the avoidance window unless nests interfere with successful installation of the deterrent.

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 two 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

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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 NUMBERDESCRIPTIONUNIT999.2000.SInstalling and Maintaining Bird Deterrent System Station 1220+00EACH

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 (20220107)

## 22. Scour Repair Grout Bags, Item SPV.0035.01.

#### **A** Description

This work consists of providing all labor, materials and equipment necessary for the installation of grout filled bags for scour protection as shown on the plan, given in these special provisions and as directed by the engineer.

#### **B** Materials

Furnish grout consisting of a mixture of portland cement, 6±1.5 percent air entrainment by volume, mortar sand aggregate, additives, and water proportioned to provide a pumpable mixture. The 28-day compressive strength shall be as specified on the plans or 3,000 psi minimum whichever is greater.

Compressive strength test shall be made using grout cubes or 3" x 6" cylinders. Submit the mix design and laboratory test results to the engineer for approval prior to proceeding with the work.

Furnish an anti-washout admixture (AWA) to prevent/decrease the percentage of fines and cement paste washed out prior to setting of the grout. Add the admixture at the manufacturer's recommended rate. Should the AWA negatively affect the ability to pump the grout; use, at the contractor's option, a water-reducing admixture at the manufacturer's recommended rate. Use a water-reducing admixture from the department's Approved Product List.

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

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Grout bag fabric shall meet or exceed the following properties:

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

Fabric porosity and limited cement lost through fabric is essential to the successful execution of this work. Suitability of fabric and grout design shall be demonstrated by injecting the proposed grout mix into three 24-inch long by approximately 6-inch diameter fabric sleeves under a pressure of not more than 15 psi which shall be maintained for not more than 10 minutes. Test shall be run on the first truck of each day by the State of Wisconsin.

Grout shall be tested by an air content test according to ASTM C231. Grout cubes or 3"x6" cylinders shall be made and tested according to ASTM C1019 or C31and ASTM C39. The average seven day compressive strength of the grout cubes or 3"x6" cylinders shall be at least 2500 psi. The tests shall be run on the first truck of the day by the State of Wisconsin and the contractor will test each truck thereafter if a 90 minute delay occurs between trucks.

In lieu of the above testing requirements the contractor may submit test results from past successful projects and manufacturers test results to the engineer for approval prior to proceeding with the work.

#### **C** Construction

Repair areas to be filled with grout bags shall be thoroughly cleaned of loose material before grout bag placement. Place the grout bags as shown on the plan and as directed by the engineer.

Position and fill bags so that they abut tightly to each other and to the substructure units. Make appropriate allowance for contraction of fabric bag resulting from grout injection. Stagger joints between bags in successive rows and tiers. Temporary or permanent rods, fencing, forms, etc. may be used to hold the bags in place and to maintain the desired final shape. Remove temporary materials after grout has reached self-supporting strength.

Use a pumping rate of less than 7 yd3/hr when pumping grout into the grout bags.

#### **D** Measurement

The department will measure Scour Repair Grout Bags by the cubic yard of grout placed in bags, acceptably completed.

#### **E** Payment

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

ITEM NUMBER

DESCRIPTION

UNIT

SPV.0035.01

Scour Repair Grout Bags

CY

Payment is full compensation for grout bags, excavation, obstruction removal, hauling, disposal, materials, and for installation.

#### 23. Settlement Monitoring, Item SPV.0060.01.

#### **A** Description

#### A.1 General

This special provision describes installing settlement plates and collecting data for the purpose of monitoring ground movement during filling, excavation, subgrade preparation and pile driving operations.

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#### A.2 Submittals

Submit the following specific information for information only, at least 30 days prior to installation:

- Drawing that indicates the locations of control points and benchmarks associated with surveys for monitoring settlement.
- Description of methods for installing and protecting all markers.
- Schedule of marker installation related to significant activities or milestones in the overall project.
- Plans for markers to be installed at contractor's option.

#### A.3 Quality Assurance

#### A.3.1 General

Notify the engineer at least 24 hours prior to all plate installation operations so that the engineer may monitor the installation work.

### **A.3.2 Control Points**

Survey for monitoring settlement shall be referenced to the same control points and benchmarks established for setting out the work. Control points shall be tied to benchmarks and other monuments outside of the zone of ground movements that might result from underground excavations.

#### **B** Materials

Furnish ¾-inch steel threaded rod (5-foot sections) mounted on 24-inch x 24-inch base plate.

#### **C** Construction

## C.1 On-site Geotechnical Engineer

An on-site geotechnical engineer is required to monitor, collect, review, interpret data regarding settlement during all filling, excavation, subgrade preparation and pile driving operations.

## C.4 Pre-Construction and Post-Construction Condition Surveys (PCCS's)

Conduct a PCCS of the surrounding area within 200 feet of potentially vibration producing activities which includes, but is not limited to the existing railroad track, the existing railroad bridge, the existing road, the existing highway bridge, and the ground surface. PCCS's shall include visually inspecting and recording all ground surface and structure conditions. Photographs and videotape shall be used to assist in documentation.

The PCCS shall include a topographic survey of the project limits, including the ground surface below the water to be impacted by the project. The survey shall provide elevations to a minimum of accuracy of 1/10 tenth of a foot above surface water levels and 1 foot below water surface levels.

Submit a written report to the engineer for each PCCS, detailing the visual and photographic investigation of the structures and topography. This report shall include copies of the photographs, videotape and topographic surveys and discuss any discrepancies and findings.

At a minimum, PCCS's shall be conducted prior to the start of construction activities and upon completion of construction activities.

#### C.5 Control Plan

A settlement control plan is to be created by the contractor and presented to the engineer a minimum of 30 days prior to any construction. The control plan shall discuss the following items:

- 1. Summary of the PCCS with established vibration limits.
- 2. A description of the proposed equipment
- 3. A description and understanding of the soil profile impacted by the construction upon the completion of driving pile for each abutment and pier.
- 4. A settlement monitoring procedure including:
  - a. Methods to taking settlement readings
  - b. Proposed times for taking settlement readings.
  - c. Locations of each settlement plate to be monitored.
  - d. Anticipated settlement time frame.
  - e. Monitoring duration for baseline and daily settlement monitoring.
  - f. Mitigation plan to reduce potentially excessive settlement to acceptable limits.

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- 5. A description of when and how reports will be generated.
- 6. Obtain the engineer's acceptance seven calendar days before any filling operations.

#### **C.6 Settlement Monitoring**

Elevations of the existing and proposed embankment must be monitored for settlement throughout the construction process. The embankment must be monitored by a grid spacing of 50-foot intervals (grid node) for all areas within 100 feet of activities described in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43. Survey targets are also required to monitor the settlement of structures. A minimum of 4 high contrast survey targets are to be installed on the railroad structure, and a minimum of 1 high contrast survey target is to be installed on each pier or abutment of each bridge. The x, y and z coordinates of each grid node and survey target is to be recorded. During demolition and pile driving operations the grid nodes and survey targets are to be monitored on a daily basis. A report describing the location of the grid nodes and survey targets is to be created and submitted to the engineer during the following times:

- 1. Prior to any work being performed (baseline readings).
- 2. At the end of each day for demolition and pile driving operations.
- 3. Upon the completion of diving pile for each abutment.
- 4. Upon the completion of the bridge demolition.
- 5. Upon the completion of backfilling the embankment.

A maximum value for ground accelerations is limited to 0.07 g for granular fill and 0.1 g for breaker run, for the CTH X roadway embankment slope only. Any damage to other existing structures is the responsibility of the contractor.

The railroad structure has a parameter of ¼ inch displacement. Any displacements greater than ¼ inch will require pile driving operations to cease until the railroad can be contacted to determine if the displacement warrants track adjustments.

Note: If construction and monitoring are planned over winter months, the settlement plates shall be set below frost penetration depths.

#### **D** Measurement

The department will measure Settlement Monitoring as each unit of work, acceptably completed.

#### **E** Payment

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

ITEM NUMBERDESCRIPTIONUNITSPV.0060.01Settlement MonitoringEACH

Payment is full compensation for providing submittals, furnishing all materials; for installing all settlement plates; for monitoring all existing and proposed elements for movement; for furnishing all survey required to monitor and all other incidentals necessary to complete the required work.

## 24. Underwater Concrete Surface Repair, Item SPV.0165.01.

#### **A Description**

This special provision describes placement of a rapid strength gain, single component, permanent concrete repair material intended for underwater application by hand or trowel. Areas designated for repair will include abutment areas with exposed reinforcement steel. The intent of this item is to cover and protect exposed reinforcement steel.

#### **B** Materials

Furnish concrete repair material allowing for small volume hand placements with minimal underwater washout. Application thickness may range from 1/2 inch (13 mm) to several inches in a single installation, providing corrosion protection of steel reinforcement with migrating corrosion inhibitor technology and very low chloride ion permeability.

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Provide pre-packaged cement-based mortar suitable for hand placement underwater requiring only the addition of potable water. The material shall not contain any chlorides or lime other than amounts contained within the hydraulic cement composition. The manufacturer shall be ISO 9001 certified and have at least ten years' experience in the manufacture of concrete repair materials. The manufacturer shall offer technical services and provide a representative at the jobsite for product training prior to product installation upon five days advance notice.

The concrete repair material shall meet all the following typical performance criteria when cured at 73°F (23°C):

1. Compressive Strength, ASTM C 109

3 Hours 3,000 psi (20.7 MPa)
1 Day 4,000 psi (27.6 MPa)
7 Days 5,000 psi (34.5 MPa)
28 Days 5,500 psi (37. MPa)

2. Underwater Bond Strength, ASTM C 882

7 Days 1,150 psi (7.9 MPa)

3. Coefficient of Thermal Expansion

ASTM C 531 5.0 x 10-6 in/in/°F

(9.0 x 10-6 mm/mm/°C)

Submit to the engineer for approval of concrete repair material at least three weeks prior to construction. All requests for approval shall contain certified test data verifying conformance with this specification.

#### **C** Construction

## **C.1 Surface Preparation**

Completely remove all loose, delaminated and weak concrete in areas designated by the engineer. All concrete surfaces designated for repair shall be free of marine growth, laitance, and other contaminants. A perimeter edge and minimum depth of ½ inch (13 mm) is required without featheredging.

## C2. Mixing

Mix thoroughly with a drill and paddle mixer to a uniform consistency. Start by adding the minimum amount of potable water followed by repair material and mix for two to three minutes. Adjust consistency as necessary. Do not mix more material than can be placed in 10 minutes.

#### **C3. Placement Procedures**

Repair surfaces shall be between 45°F and 90°F (7°C and 32°C) at time of placement.

Firmly work concrete repair material into concrete surfaces with a trowel or by hand, taking care not to leave air pockets. Application is from one side of the repair to the other, filling the repair to the desired level. Finish smooth by hand troweling.

#### C4. Special Conditions

For use in cold temperatures, concrete repair materials must be maintained at a temperature of at least 45°F (7°C). Protect from freezing until a compressive strength of 1,000 psi (6.9 MPa) is obtained. In hot temperatures, concrete repair materials should be kept as cool as possible, but not exceeding 90°F (32°C). Cold water should be used for mixing to help maintain sufficient working time.

#### **D** Measurement

The department will measure Underwater Concrete Surface Repair 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 NUMBERDESCRIPTIONUNITSPV.0165.01Underwater Concrete Surface RepairSF

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Payment is full compensation for preparation and cleaning to include removing deteriorated concrete, placing underwater concrete surface repair materials, and for disposing of waste materials.

## 25. Select Crushed Material for Travel Corridor, Item SPV.0195.01.

#### **A** Description

This special provision describes furnishing and placing select crushed material to fill voids to create a wildlife travel corridor.

#### **B** Materials

Furnish select crushed material according to the pertinent requirements of standard spec 312. Material shall be clean and substantially free from material passing the No. 4 sieve.

#### **C** Construction

Place the material after the heavy riprap has been completed. Place material such that voids in the finished surface are three inches or less in any dimension.

#### **D** Measurement

The department will measure Select Crushed Material for Travel Corridor by the ton, acceptably completed.

## **E** Payment

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

ITEM NUMBERDESCRIPTIONUNITSPV.0195.01Select Crushed Material for Travel CorridorTON

Payment is full compensation for providing, placing, and shaping the material.

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## 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	

### 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 payement 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	PERCENT OF THE
THINNER THAN PLAN THICKNESS BY:	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 (S0 <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

#### 501.3.2.2.2 Supplementary Cementitious Material

Replace the entire text with the following effective with the May 2022 letting:

- (1) Replace 15 to 30 percent by weight of the total cementitious material content with approved SCMs for class I concrete as specified in 715.
- (2) Replace a maximum of 30 percent by weight of the total cementitious material content with approved SCMs for class II and class III concrete as specified in 716.
- (3) Limit Class F fly ash sources not on the APL to maximum 15 percent.
- (4) Minimum SCM content may be waived by the engineer.

#### 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** 

	ID CERTIFICATION STANDARDS	
TEST	TEST	MINIMUM REQUIRED CERTIFICATION
	STANDARD	(any one of the certifications listed for each test)
		Transportation Materials Sampling Technician (TMS)
		TMS Assistant Certified Technician (ACT-TMS)
		Aggregate Technician I (AGGTEC-I)
		AGGTEC-I Assistant Certified Technician (ACT-AGG)
Random Sampling	CMM 830.9.2	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] [4]</sup>	TMS, ACT-TMS, AGGTECT-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11 <sup>[1]</sup>	
Fine & coarse aggregate gradation	AASHTO T27 <sup>[1]</sup>	AGGTEC-I, ACT-AGG
Aggregate moisture content	AASHTO T255 <sup>[1]</sup>	AGG1EG-1, AG1-AGG
Fractured faces	ASTM D5821 <sup>[1]</sup>	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS)
Plasticity index	AASHTO T90 <sup>[3]</sup>	GRADINGTEC-I, or ACT-GRADING
Sampling freshly mixed concrete	AASHTO R60	
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>	PCCTEC-1
Concrete slump	AASHTO T119 <sup>[2]</sup>	ACT-PCC
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 Strength Tester (CST)
Concrete surface resistivity <sup>[2]</sup>	AASHTO T358	CST Assistant Certified Technician (ACT-CST)
Voids in aggregate	AASHTO T19	PCCTEC-II
Profiling		PROFILER

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

#### 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:

<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.

- 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 sublot 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 B	efore 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

I	MINIMUM FREQUENCY
	Gradation Report Before Placement
I	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.

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.		
Class I. Faverneill	Reduced frequency: 1 test per calendar week of placement		
Class I: Structures	test per 250 CY placed     Minimum of 1 test per substructure     Minimum of 1 test per superstructure		
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 sublot. For partial sublots exceeding 25 percent of the standard volume, notify the engineer who will direct additional testing to represent that partial sublot.
- (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 sublot 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 sublot strength is less than 2500 psi in compressive strength or 500 psi in flexural strength, the department may direct the contractor to core that sublot to determine its structural adequacy and whether to direct removal.
- (2) If the engineer directs coring, obtain three cores from the sublot 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 sublot-by-sublot 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 sublot pavement is conforming if the compressive strengths of all cores from the sublot are 2500 psi or greater.
- (6) The sublot pavement is nonconforming if the compressive strengths of any core from the sublot 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 sublot for possible removal and replacement if the 28-day sublot 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 sublot.
- (2) The engineer may initially evaluate the sublot strength using a non-destructive method. Based on the results of non-destructive testing, the department may accept the sublot at the previously determined pay for the lot, or direct the contractor to core the sublot.
- (3) If the engineer directs coring, obtain three cores from the sublot 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 sublot-by-sublot 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 sublot 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 sublot. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

#### 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.

#### 716.2.1 Class II Concrete

Replace paragraph two with the following effective with the May 2022 letting:

- (2) Perform random QC testing at the following frequencies:
  - 1. Test air content, temperature, and slump a minimum of once per 100 cubic yards for each mix design and placement method.
  - 2. Cast one set of 2 cylinders per 200 cubic yards for each mix design and placement method. Cast a minimum of one set of 2 cylinders per contract for each mix design and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.
  - 3. For deck overlays, perform tests and cast cylinders once per 50 cubic yards of grade E concrete placed.
  - 4. For concrete base, one set of tests and one set of cylinders per 250 cubic yards.

The department will allow concrete startup test results for quantities under 50 cubic yards. Cast one set of 2 cylinders if using startup testing for acceptance.

## **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

	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
SIEVE	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] 14.5</sup> 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:

ITEM NUMBER	<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

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

#### **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. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
  - 6. 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).
  - 7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.
- 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 <a href="mailto:paul.ndon@dot.wi.gov">paul.ndon@dot.wi.gov</a> 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://wisconsindot.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 <a href="mailto:paul.ndon@dot.wi.gov">paul.ndon@dot.wi.gov</a>. 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

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Federal ID(s): N/A, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0105 Clearing	6.000 STA		
0004	201.0205 Grubbing	6.000 STA		
0006	203.0100 Removing Small Pipe Culverts	2.000 EACH		
8000	203.0220 Removing Structure (structure) 01. C-35- 10	1.000 EACH		
0010	203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. C-35-13	1.000 EACH		
0012	204.0120 Removing Asphaltic Surface Milling	370.000 SY		
0014	204.0165 Removing Guardrail	740.000 LF		
0016	205.0100 Excavation Common	2,129.000 CY		·
0018	205.0400 Excavation Marsh	96.000 CY		
0020	206.1000 Excavation for Structures Bridges (structure) 01. B-35-54	LS	LUMP SUM	
0022	206.5000 Cofferdams (structure) 01. C35107001895	LS	LUMP SUM	
0024	209.2100 Backfill Granular Grade 2	1,210.000 CY		
0026	210.1500 Backfill Structure Type A	500.000 TON		
0028	211.0100  Prepare Foundation for Asphaltic Paving (project) 01. 9305-09-61	LS	LUMP SUM	
0030	213.0100 Finishing Roadway (project) 01. 9305- 09-61	1.000 EACH		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID  Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	213.0100 Finishing Roadway (project) 02. 9305- 09-62	1.000 EACH		·
0034	305.0110 Base Aggregate Dense 3/4-Inch	230.000 TON		
0036	305.0120 Base Aggregate Dense 1 1/4-Inch	1,750.000 TON		
0038	416.1010 Concrete Surface Drains	2.000 CY		
0040	455.0605 Tack Coat	185.000 GAL		
0042	465.0105 Asphaltic Surface	585.000 TON	<u> </u>	
0044	502.0100 Concrete Masonry Bridges	163.000 CY		
0046	502.3200 Protective Surface Treatment	122.000 SY	·	
0048	502.3210 Pigmented Surface Sealer	36.000 SY	·	·
0050	502.4204 Adhesive Anchors No. 4 Bar	40.000 EACH	·	·
0052	504.0100 Concrete Masonry Culverts	1.000 CY	·	·
0054	505.0400 Bar Steel Reinforcement HS Structures	4,960.000 LB		
0056	505.0600  Bar Steel Reinforcement HS Coated Structures	18,890.000 LB	·	
0058	509.1500 Concrete Surface Repair	208.000 SF	·	
0060	516.0500 Rubberized Membrane Waterproofing	20.000 SY	<u></u>	
0062	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	60.000 LF		







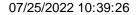
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Federal ID(s): N/A, N/A

SECTION: 0001 Contract Items

0064   522.0448   38.000   Culvert Pipe Reinforced Concrete Class   LF	Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch  0068 522.1048 2.000 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch  0070 550.0500 14.000 Pile Points EACH  0072 550.1100 350.000 Piling Steel HP 10-Inch X 42 Lb LF  0074 601.0588 53.000 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT  0076 606.0200 64.000 Riprap Medium CY  0078 606.0300 213.000 Riprap Heavy CY  0080 612.0406 150.000 Pipe Underdrain Wrapped 6-Inch LF  0082 614.0150 4.000 Anchor Assemblies for Steel Plate Beam Guard  0084 614.0305 Steel Plate Beam Guard Class A LF  0086 614.0340 187.500 Steel Plate Beam Guard Over Low-Fill LUVerts Class A  0088 614.0397 46.000 Guardrail Mow Strip Emulsified Asphalt SY  0090 614.2300 50.000	0064	Culvert Pipe Reinforced Concrete Class			
Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch  0070	0066	Apron Endwalls for Culvert Pipe			
Pile Points         EACH            0072         550.1100         350.000            Piling Steel HP 10-Inch X 42 Lb         LF            0074         601.0588         53.000           Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT         LF            0076         606.0200         64.000            Riprap Medium         CY            0078         606.0300         213.000            Riprap Heavy         CY            0080         612.0406         150.000            Pipe Underdrain Wrapped 6-Inch         LF            0082         614.0150         4.000            Anchor Assemblies for Steel Plate Beam Guard         EACH Guard            0084         614.0305         112.500            Steel Plate Beam Guard Class A         LF            0086         614.0340         187.500            Steel Plate Beam Guard Over Low-Fill Culverts Class A         LF            0088         614.0397         46.000            Guardrail Mow Strip Emulsified Asphalt	0068	Apron Endwalls for Culvert Pipe			
Piling Steel HP 10-Inch X 42 Lb       LF         0074       601.0588       53.000         Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT       LF         0076       606.0200       64.000         Riprap Medium       CY         0078       606.0300       213.000         Riprap Heavy       CY         0080       612.0406       150.000         Pipe Underdrain Wrapped 6-Inch       LF         0082       614.0150       4.000         Anchor Assemblies for Steel Plate Beam       EACH         Guard       EACH         0084       614.0305       112.500         Steel Plate Beam Guard Class A       LF         0086       614.0340       187.500         Steel Plate Beam Guard Over Low-Fill       LF         Culverts Class A       46.000         Guardrail Mow Strip Emulsified Asphalt       SY         0090       614.2300       50.000	0070				·
Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT  0076 606.0200 64.000 Riprap Medium CY  0078 606.0300 213.000 Riprap Heavy CY  0080 612.0406 150.000 Pipe Underdrain Wrapped 6-Inch LF  0082 614.0150 4.000 Anchor Assemblies for Steel Plate Beam EACH Guard  0084 614.0305 112.500 Steel Plate Beam Guard Class A LF  0086 614.0340 187.500 Steel Plate Beam Guard Over Low-Fill Culverts Class A  0088 614.0397 46.000 Guardrail Mow Strip Emulsified Asphalt SY  0090 614.2300 50.000	0072				
Riprap Medium       CY         0078       606.0300       213.000         Riprap Heavy       CY         0080       612.0406       150.000         Pipe Underdrain Wrapped 6-Inch       LF         0082       614.0150       4.000         Anchor Assemblies for Steel Plate Beam Guard       EACH EACH EACH EACH EACH EACH EACH EACH	0074	Concrete Curb & Gutter 4-Inch Sloped		·	
Riprap Heavy       CY          0080       612.0406       150.000         Pipe Underdrain Wrapped 6-Inch       LF          0082       614.0150       4.000         Anchor Assemblies for Steel Plate Beam Guard       EACH Guard          0084       614.0305       112.500         Steel Plate Beam Guard Class A       LF          0086       614.0340       187.500         Steel Plate Beam Guard Over Low-Fill Culverts Class A       LF          0088       614.0397       46.000         Guardrail Mow Strip Emulsified Asphalt       SY          0090       614.2300       50.000	0076				
Pipe Underdrain Wrapped 6-Inch       LF	0078				
Anchor Assemblies for Steel Plate Beam Guard	0080				
Steel Plate Beam Guard Class A       LF          0086       614.0340       187.500         Steel Plate Beam Guard Over Low-Fill Culverts Class A       LF          0088       614.0397       46.000         Guardrail Mow Strip Emulsified Asphalt       SY          0090       614.2300       50.000	0082	Anchor Assemblies for Steel Plate Beam		·	
Steel Plate Beam Guard Over Low-Fill Culverts Class A         LF	0084				
Guardrail Mow Strip Emulsified Asphalt         SY	0086	Steel Plate Beam Guard Over Low-Fill			
	0088				
	0090				
0092 614.2500 157.600  MGS Thrie Beam Transition LF	0092				







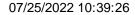
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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	614.2610 MGS Guardrail Terminal EAT	4.000 EACH		
0096	618.0100 Maintenance And Repair of Haul Roads (project) 01. 9305-91-61	1.000 EACH	<u>-</u>	·
0098	618.0100 Maintenance And Repair of Haul Roads (project) 02. 9305-09-62	1.000 EACH	·	·
0100	619.1000 Mobilization	1.000 EACH		
0102	624.0100 Water	12.000 MGAL		<u> </u>
0104	625.0100 Topsoil	3,750.000 SY	·	
0106	628.1504 Silt Fence	2,315.000 LF	·	
0108	628.1520 Silt Fence Maintenance	2,315.000 LF	·	
0110	628.1905 Mobilizations Erosion Control	4.000 EACH	·	
0112	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH	·	
0114	628.2006 Erosion Mat Urban Class I Type A	3,750.000 SY		
0116	628.6005 Turbidity Barriers	430.000 SY		
0118	628.7504 Temporary Ditch Checks	100.000 LF		
0120	628.7555 Culvert Pipe Checks	20.000 EACH		
0122	628.7570 Rock Bags	20.000 EACH		
0124	629.0210 Fertilizer Type B	2.370 CWT		







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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0126	630.0130 Seeding Mixture No. 30	70.000 LB		<u> </u>
0128	630.0500 Seed Water	8.000 MGAL		
0130	633.5200 Markers Culvert End	4.000 EACH		
0132	634.0616 Posts Wood 4x6-Inch X 16-FT	9.000 EACH		
0134	637.2210 Signs Type II Reflective H	33.250 SF	·	
0136	638.2602 Removing Signs Type II	12.000 EACH	·	
0138	638.3000 Removing Small Sign Supports	13.000 EACH	·	
0140	642.5001 Field Office Type B	1.000 EACH	·	
0142	643.0420 Traffic Control Barricades Type III	1,706.000 DAY	·	
0144	643.0705 Traffic Control Warning Lights Type A	2,484.000 DAY	·	·
0146	643.0900 Traffic Control Signs	16,242.000 DAY	·	
0148	643.0920 Traffic Control Covering Signs Type II	2.000 EACH		
0150	643.1000 Traffic Control Signs Fixed Message	164.000 SF		
0152	643.5000 Traffic Control	1.000 EACH		
0154	645.0111 Geotextile Type DF Schedule A	86.000 SY		
0156	645.0120 Geotextile Type HR	311.000 SY		
0158	646.1020 Marking Line Epoxy 4-Inch	3,810.000 LF		·



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# Proposal Schedule of Items

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Federal ID(s): N/A, N/A

SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	650.4500 Construction Staking Subgrade	855.000 LF		
0162	650.5000 Construction Staking Base	855.000 LF		
0164	650.5500 Construction Staking Curb Gutter and Curb & Gutter	53.000 LF	·	·
0166	650.6000 Construction Staking Pipe Culverts	2.000 EACH		
0168	650.6500 Construction Staking Structure Layout (structure) 01. B-35-54	LS	LUMP SUM	·
0170	650.8000 Construction Staking Resurfacing Reference	115.000 LF		
0172	650.9910 Construction Staking Supplemental Control (project) 01. 9305-09-61	LS	LUMP SUM	
0174	650.9910 Construction Staking Supplemental Control (project) 02. 9305-09-62	LS	LUMP SUM	<u></u>
0176	650.9920 Construction Staking Slope Stakes	855.000 LF		
0178	690.0150 Sawing Asphalt	136.000 LF		
0180	715.0502 Incentive Strength Concrete Structures	984.000 DOL	1.00000	984.00
0182	801.0117 Railroad Flagging Reimbursement	20,000.000 DOL	1.00000	20,000.00
0184	999.2000.S Installing and Maintaining Bird Deterrent System (station) 01. STA 1220+00	1.000 EACH		
0186	SPV.0035 Special 01. Scour Repair Grout Bags	4.000 CY		
0188	SPV.0060 Special 01. Settlement Monitoring	1.000 EACH		·



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Proposal Schedule of Items

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SECTION: 0001 Contract Items

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0190	SPV.0165	80.000		
	Special 01. Underwater Concrete Surface Repair	SF	·	·
0192	SPV.0195	130.000		
	Special 01. Select Crushed Material for Travel Corridor	TON	·	
	Section: 0	001	Total:	·
			Total Bid:	

# PLEASE ATTACH ADDENDA HERE