

HIGHWAY WORK PROPOSAL

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

Proposal Number: **036**

| <u>COUNTY</u> | <u>STATE PROJECT</u> | <u>FEDERAL</u> | <u>PROJECT DESCRIPTION</u> | <u>HIGHWAY</u> |
|---------------|----------------------|----------------|---|----------------|
| Oneida | 9261-07-60 | N/A | Crandon - Three Lakes; Culvert Replacements | STH 032 |
| Forest | 9261-07-61 | N/A | Crandon - Three Lakes; Hiles Culvert Replacements | STH 032 |

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

| | |
|---|--|
| Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation | Attach Proposal Guaranty on back of this PAGE. |
| Bid Submittal Date: March 8, 2022 Time (Local Time): 11:00 am | Firm Name, Address, City, State, Zip Code <h2 style="text-align: center;">SAMPLE</h2> <h3 style="text-align: center;">NOT FOR BIDDING PURPOSES</h3> This contract is exempt from federal oversight. |
| Contract Completion Time September 09, 2022 | |
| Assigned Disadvantaged Business Enterprise Goal 0% | |

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

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

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

| | |
|---|--------------------------------|
| Type of Work: | For Department Use Only |
| Grade, Storm Sewer, Culvert Pipe, Base, Asphalt Pavement, Beam Guard, Pavement Marking, Structures B-43-63, C-21-8, C-43-23, R-21-004 | |
| Notice of Award Dated | Date Guaranty Returned |

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

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

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

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

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

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

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

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

B Submitting Electronic Bids

B.1 On the Internet

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

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

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

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

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

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

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

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

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

(Signature of Attorney-in-Fact)

NOTARY FOR PRINCIPAL

NOTARY FOR SURETY

(Date)

(Date)

State of Wisconsin)
) ss.
_____ County)

State of Wisconsin)
) ss.
_____ County)

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

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

(Signature, Notary Public, State of Wisconsin)

(Signature, Notary Public, State of Wisconsin)

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

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

(Date Commission Expires)

(Date Commission Expires)

Notary Seal

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

Special Provisions

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STSP'S Revised July 8, 2021

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 9261-07-60, Crandon – Three Lakes, Culvert Replacements, STH 32, Oneida County, and Project 9261-07-61, Crandon – Three Lakes, Hiles Culvert Replacements, STH 32 Forest County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2022 Edition, as published by the department, and these special provisions.

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

100-005 (20210708)

2. Scope of Work.

The work under this contract shall consist of base aggregate dense, asphaltic surface, culvert replacements, beamguard, restoration and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

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

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

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

Pave lanes carrying through traffic by the end of the work week. A milled or gravel surface is prohibited during the time periods specified in this section and in the Holidays and Special Events article.

During culvert replacements, place gravel at the same level of the surface layer if left overnight. Dips are prohibited overnight.

At any time, do not have both the Julia Creek and the Scott Creek locations closed to through traffic.

Interim Completion and Liquidated Damages – Julia Creek Pipe Replacement: May 26, 2022

At the beginning of the Julia Creek pipe replacement operations, close STH 32 to through traffic. STH 32 may be closed to through traffic from Monday May 9, 2022 through May 26, 2022. Do not reopen until completing the following work: Removal and replacement of the culvert pipe.

If the contractor fails to complete the work necessary to reopen STH 32 to traffic by May 26, 2022, the department will assess the contractor \$1585 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on May 27, 2022. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Interim Completion and Liquidated Damages – Pine Creek Pipe Replacement: September 1, 2022

At the beginning of the Pine Creek pipe replacement operations, close STH 32 to through traffic. STH 32 may be closed to through traffic from July 5, 2022 through September 1, 2022. Do not reopen until completing the following work: Removal and replacement of the culvert pipe.

If the contractor fails to complete the work necessary to reopen STH 32 to traffic by September 1, 2022, the department will assess the contractor \$1585 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on September 2, 2022. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Interim Completion and Liquidated Damages – Scott Creek Pipe Replacement: 15 Calendar Days

At the beginning of the Scott Creek pipe replacement operations, close STH 32 to through traffic for a maximum of 15 calendar days. Do not reopen until completing the following work: removal and replacement of the culvert pipes.

If the contractor fails to complete the work necessary to reopen Scott Creek to through traffic within 15 calendar days, the department will assess the contractor \$1585 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 15 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

In addition to the duration of days listed above, the pipe replacements at Julia Creek and Scott Creek are allowed one additional day of full closure to remove the temporary pipe. The additional day of full closure cannot be on the same day for both locations.

Fish Spawning (Pine Creek)

There shall be no instream disturbance of Pine Creek 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 gamefish and other aquatic organisms.

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.

Fish Spawning (Julia Creek)

There shall be no instream disturbance of Julia Creek as a result of construction activity under or for this contract, from March 1 to May 8 both dates inclusive, and from May 28 to June 15, both dates inclusive, in order to avoid adverse impacts upon the spawning of fish and other aquatic organisms. Work may occur anytime on the endwalls if the stream channel is fully diverted and the work area is isolated from the Creek.

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.

Fish Spawning (Scott Creek)

There shall be no instream disturbance of Scott Creek 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 and other aquatic organisms.

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.

Northern Long-eared Bat (*Myotis septentrionalis*)

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

In accordance to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal, but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat

presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

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.

Turtles

Turtles are known to inhabit Pine Creek (~STA 150+50), Scott Creek (~STA 350+00), Julia Creek (~STA 452+00) and their riparian corridors. It is reasonable to assume that turtles may be present at or near the project site during construction. Protect the perimeter of the areas to be disturbed with properly trenched-in silt fence before May 1 to discourage turtles from entering the work area. If the construction area cannot be protected by silt fence by May 1, install the silt fence before construction activities, conduct a survey of the area within the silt fence, and remove turtles confined within the construction area before any site disturbance. Turtles may be observed crossing the road during normal migration or to reach nesting areas. If turtles are found in the project area, stop construction work and promptly remove the turtles from the construction site to a safe location in the direction they were traveling.

4. Traffic

STH 32 will be closed in the immediate areas of Pine Creek, Scott Creek, and Julia Creek to all through traffic. Detours will be used during construction to handle construction traffic. Only one of the above locations can be closed at a time. For all other culvert pipe replacements, the contractor may reduce traffic to one lane using flagging operations daylight hours.

Sign and maintain a detour of STH 32 during any hard closures. The detour route is USH 8 and USH 45.

For grading in the areas of beam guard replacements, no hazards within 18' of the edge of lane can be exposed to the traveling public for a duration longer than 72 hours, without providing concrete barrier. Hazards include slopes steeper than a 3:1 and blunt ends.

Traffic may be maintained at Scott Creek with the Standard Detail 'Traffic Control, One Lane Road Stop Condition'.

Along STH 32, when flagging is occurring, provide an 11' lane. All other times, provide an 11' lane, in addition to 3' paved shoulders.

Keep all private entrances and field entrances accessible at all times, unless written permission is obtained from the property owner 48 hours in advance of closing the access. Restore private entrances with a minimum of gravel surface by the end of each working day.

Wisconsin Lane Closure System Advance Notification

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

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.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 32 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday and special event periods:

- From noon Friday, May 27, 2022 to 6:00 AM Tuesday, May 31, 2022 for Memorial Day;
- From noon Friday, June 24, 2022 to 6:00 AM Monday, June 27, 2022 for the Forest County Potawatomi Brush Run Races;
- From noon Friday, July 1, 2022 to 6:00 AM Tuesday, July 5, 2022 for Independence Day;
- From noon Friday, September 2, 2022 to 6:00 AM Tuesday, September 6, 2022 for Labor Day and the Crandon World Championship Off-Road Races.

stp-107-005 (20210113)

6. **Utilities.**

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

107-065 (20080501)

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

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

Project 9261-07-60

Astrea has aerial and buried **communication** facilities within the project limits.

No conflicts are anticipated.

The field contact is Andy Heigl (906)-221-7536 or andy.heigl@astreaconnect.com.

Frontier Communications of WI LLC (Frontier) has aerial and buried **communication** facilities within the project limits.

Frontier will discontinue the existing buried cable from approximately Station 503+10, RT to approximately Station 506+15 RT.

Frontier will install a new buried copper cable from the existing pedestal at approximately Station 503+10 to the existing power pole at approximately Station 503+45 at a depth of approximately 36 inches and offset of approximately 25 feet right from highway reference line.

Frontier will install a new aerial copper cable from the existing power pole at approximately Station 503+45, RT to a new pole at approximately Station 505+00, 21 feet right, then to the existing pole at approximately Station 506+15, RT.

Frontier will complete the work described above prior to construction.

The field contact is Chris McAbee (260)-416-9053 or Christopher.mcabee@ftr.com.

Wisconsin Public Service Corporation (WPS) has overhead **electric** facilities within the project limits.

WPS overhead electric lines exist near approximately Station 452+00 and are anticipated to be clear of roadway construction activities; however, OSHA clearance must be maintained with construction equipment and personnel.

WPS will remove and replace the power pole located at approximately Station 503+45 RT with a 10-foot taller pole to allow for more room for roadway construction activities.

WPS will complete the work described above prior to construction.

The field contact is Kevin TerMaat (715)-848-7353 or kevin.termaat@wisconsinpublicservice.com.

Wisconsin Public Service Corporation (WPS) has buried plastic **gas** facilities within the project limits.

WPS has a 2-inch plastic gas main on the east side at Structure C-43-23 crossing Julia Creek. WPS will discontinue the existing 2-inch gas main from approximately Station 449+50 to approximately Station 454+50 and install a new 4-inch plastic gas main, boring to an approximate depth of 20 feet below the existing road grade at centerline, approximately 15 to 20 feet east of the roadway centerline.

WPS has a 3-inch plastic gas main on the south side at approximately Station 504+00. No conflicts are anticipated with the proposed roadway construction. Notify WPS one week prior to construction to arrange standby as needed.

WPS will complete the work described above prior to construction. This work is anticipated to start September 1, 2021 and require 20 working days to complete.

The field contact is Chris Gilman (715)-369-7133 or chris.gilman@wisconsinpublicservice.com.

Project 9261-07-61

Frontier Communications of WI LLC (Frontier) has buried **communication** facilities within the project limits.

Frontier maintains a fiber optic cable, approximately 10 feet in depth from river bottom, that is not in conflict with the proposed highway construction and will remain in place.

Frontier will discontinue the existing copper cable from approximately Station 157+06, RT to approximately Station 160+75 RT.

Frontier will install a new buried 200 pr copper cable from the existing pedestal at approximately Station 157+06 to the existing pedestal at approximately Station 160+75 at a depth of approximately 10 feet under the river bottom and an offset of approximately 25 feet right from highway reference line.

Frontier will complete the work described above prior to construction.

The field contact is Chris McAbee (260)-416-9053 or Christopher.mcabee@ftr.com.

Wisconsin Public Service Corporation (WPS) has overhead **electric** facilities within the project limits.

WPS overhead electric lines exist over Structure C-21-8 and deemed to conflict with the construction operations of Structure C-21-8.

WPS will install a new pole at approximately Station 157+10 RT and install a new underground conductor in a 4-inch conduit, crossing STH 32 at approximately Station 157+00, then extending north parallel to the right of way edge at approximately 20 feet deep below road grade under Structure C-21-8 and approximately 15 feet west of the roadway centerline.

WPS will remove the existing pole at approximately Station 157+25 and the overhead line that crosses STH 32 from approximately Station 157+25 RT to approximately Station 160+50 LT.

WPS will install a new pole at approximately Station 201+20 LT, raising the existing conductors to allow for safe working area for roadway contractor to construct Culvert 21032000349.

WPS will complete the work described above prior to construction. This work is anticipated to start November 1, 2021 and requires 10 working days to complete.

The field contact is Kevin TerMaat (715)-848-7353 or kevin.termaat@wisconsinpublicservice.com.

Wisconsin Public Service Corporation (WPS) has buried plastic **gas** facilities within the project limits.

WPS has a 2-inch plastic gas main on the west side at Culvert 21032000343 . WPS will discontinue the existing 2-inch gas main from approximately Station 144+00 to approximately Station 146+25 and install a new 4-inch plastic gas main, boring to an approximate depth of 15 feet below the existing road grade at centerline, approximately 25 to 30 feet west of the roadway centerline.

WPS has a 2-inch plastic gas main on the west side of Structure C-21-8. WPS will discontinue the existing 2-inch gas main from approximately Station 156+00 to approximately Station 161+00 and install a new 4-inch plastic gas main boring to an approximate depth of 20 feet relative to the existing grade at the roadway centerline and approximately 15 to 20 feet west of the roadway centerline.

WPS has underground gas facilities near Culvert 21032000347. No conflicts are anticipated.

WPS has a 2-inch gas main on the east side of Culvert 21032000349. No conflicts are anticipated; however, notify WPS one week prior to construction to arrange standby as needed.

WPS will complete the work described above prior to construction.

The field contact is Chris Gilman (715)-369-7133 or chris.gilman@wisconsinpublicservice.com.

7. Other Contracts

The contractor must coordinate traffic control and the detour with the following projects:

1600-28-61 – Oneida County, USH 045, STH 32 to Vilas CL

1590-12-72 – Oneida County, USH 008, USH 45 North to Forest CL

1590-18-61 – Forest County, USH 008, Oneida CL to STH 32

1590-18-62 – Forest County, USH 008, Wolf & Peshtigo Bridges B-21-001, 10

9260-00-70 – Forest County, STH 32, Crandon – Three Lakes, Crandon RR Overhead to Railroad Ave

9261-07-62 – Forest County, STH 32, Crandon – Three Lakes, Culvert Replacements

Projects 9260-00-70 and 9261-07-62 will be let on March 8, 2022. The Forest County pipe replacement project will have a full closure at the Middle Branch of the Peshtigo River at STH 32 near Argonne. The closure will most likely be about three weeks long and be sometime in June or July 2022. CTH S will be used as the detour.

8. Information to Bidders, US 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 Nick Vos at 715-365-5782.

stp-107-054 (20210708)

9. Environmental Protection, By-Pass Pumping

Add the following to standard spec 107.18:

If by-pass pumping is required, the means and methods proposed to be used during construction shall be submitted for approval as part of the Erosion Control Implementation Plan for each location it is required. The submittal shall include how the intake will be managed to not cause an increase in the background level turbidity during pumping; equipment pumping rate capabilities; discharge energy dissipation; and erosion controls. For by-pass pumping that will extend beyond one working day, the submittal should also include how the work zone will be managed and protected should the pump fail; be shut down due to unacceptable water quality; or storm water flows exceed the pumping rate of equipment. After setup of the approved by-pass pumping operation, the contractor shall demonstrate that the means and methods will pump the water at an acceptable water quality before starting work that necessitates the by-pass pumping. The cost of all work and materials associated with by-pass pumping is incidental to the bid

items the work is associated with. Erosion control devices beyond the discharge energy dissipation point will be paid for at the contract unit prices for the items that are included in the plan.

ner-107-035 (20180212)

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
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. Environmental Protection, Invasive Species European Marsh Thistle

Due to the presence of the invasive European Marsh Thistle along the banks of the Scott Creek pipe replacement, supplement subsection 107.18 of the standard specifications as follows:

Inspect and clean all equipment before moving off site at the Scott Creek pipe replacement location. Use the most effective method that is practical of the following methods: brush, broom, or other hand tools; high pressure air, steam cleaning; or portable wash stations that contains runoff from washing equipment. Do not clean equipment, vehicles, or trailers in or near waterways, as this may promote the spread of the invasives downstream. Properly dispose of materials containing invasive species.

13. 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)

14. Airport Coordination

Notify the manager of Three Lakes Municipal Airport (715) 360-0631 at least 3 business days prior to bringing a crane to either the Scott or Julia Creek work sites and when the crane leaves.

15. Public Convenience and Safety

Replace standard spec 107.8 (4) with the following:

Notify the following organizations and departments at least 2 business days before road closures, lane closures, or detours are put into effect:

Forest County Sheriff's Department

Oneida County Sheriff's Department

Wisconsin State Patrol

Forest County Highway Department

Oneida County Highway Department

Town of Hiles

Town of Three Lakes

Three Lakes School District

Argonne Post Office

Three Lakes Post Office

The Oneida and Forest 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)

16. Temporary Lane Shift During Culvert Work, Item 208.1500.S

A Description

This special provision describes the construction of a temporary lane shift to maintain traffic with a one-lane roadway around culvert work.

B (Vacant)

C Construction

Place fill, base aggregate dense, and temporary asphalt as needed to maintain traffic through the lane shift.

Furnish materials and construct conforming to the following standard specs:

| | |
|---|-----|
| Common excavation, material removal, and disposal | 205 |
| Borrow | 208 |
| Base Aggregate Dense | 305 |
| Asphaltic Surface | 465 |

Do pertinent construction staking according to standard spec 650 for the temporary lane shift.

Construct to appropriate widths and material thicknesses. Remove materials once the lane shift is no longer needed to maintain traffic.

D Measurement

The department will measure Temporary Lane Shift During Culvert Work as a single unit for each temporary roadway, 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 |
|-------------|--|------|
| 208.1500.S | Temporary Lane Shift During Culvert Work | EACH |

Payment is full compensation for placing, removing and disposal of fill material, including any base aggregate dense and temporary asphalt used for the driving surface; and associated construction staking.

The department will pay separately for traffic control and erosion control items.

stp-208-010 (20210113)

**17. Culvert Pipe Liners, 18-Inch, Item 520.9700.S;
Cleaning Culvert Pipes for Liner Verification, Item 520.9750.S.**

A Description

This special provision describes providing, verifying, and pressure grouting culvert pipe liners for circular culverts.

B Materials

B.1 General

Provide flow calculations at the preconstruction conference. Use contractor-proposed liner properties, the Manning's coefficients listed on the department's approved products list, and base calculations on existing culvert sizes and liner sizes the plans show. Ensure that pipes when lined have a capacity within ±5% of the original full flow capacity of the pipe.

B.2 Flexible Pipe Liner

Use liners with a Manning's coefficient value published on the department's approved products list. Upon delivery provide manufacturer certificates of compliance certifying that the liners conform to the following:

| Pipe Type | ASTM Designation | ASTM D3350 Resin |
|---|------------------|------------------|
| High Density Polyethylene (HDPE) | | |
| Profile Wall Pipe | F894 | 345463C |
| Solid Wall Pipe | F714 | 345463C |
| Polyvinylchloride (PVC) | F949 | --- |

B.3 Grout

B.3.1 Cement

Furnish cement meeting the requirements of standard spec 501.2.4.1 for Type I or II Portland Cement.

B.3.2 Fly Ash

Furnish Class C or F Fly Ash meeting the requirements of standard spec 501.2.4.2.2.

B.3.3 Sand

Furnish natural sand meeting the fine aggregate requirements of standard spec 501.2.7.2 and the size requirements of standard spec 501.2.7 except the percent passing the number 200 sieve shall be 0-5 percent by weight.

B.3.4 Water

Furnish water meeting the requirements of standard spec 501.2.6.

B.3.5 Mix Design

Use the basic proportions of dry materials per cubic yard of grout as follows:

- Cement 100 pounds
- Fly Ash 400 pounds
- Fine Aggregate 2600 pounds

Air entraining and chemical admixtures to control fluidity of the grout are allowable. Ten days before placement, furnish to the engineer a design mix detailing all components and their proportions in the mix.

B.8.6 Fluidity

Measure the fluidity of the grout per ASTM C939. Prior to filling the flow cone with flowable mortar, pass the mixture through a 1/4-inch screen. Use an efflux time of 10 seconds to 16 seconds. Measure in the presence of the engineer prior to placement and at least once every 4 working hours until work is complete.

B.8.7 Cellular Grout

Alternatively, the contractor may use, or if the manufacturer recommends, an engineer-approved commercial cellular concrete grout conforming to the following:

| | | |
|----------------------|----------------------------|---|
| Cement | ASTM C150 | Type I or II |
| Density | ASTM C495 (no oven drying) | 50 pcf min |
| Compressive Strength | ASTM C495 | 300 psi @ 28 day min 100 psi in 24 hours |
| Shrinkage | ASTM | 1% by volume |
| Flow | ASTM C939 | 35 sec max |

C Construction

C.1 General

As soon as possible after contract execution, survey existing culvert pipes to determine which culverts need cleaning in order to verify the required liner diameter and length. Notify the engineer before cleaning to confirm payment under the Cleaning Culvert Pipes for Liner Verification bid item.

Coordinate with the engineer to field verify culvert diameter and length, shape, material, and condition before ordering the liners.

Obtain easements if necessary for installing long sections of pipe.

C.2 Excavating and Cleaning

Before inserting the liner, clean and dry the pipe. Excavate and pump as required to remove debris and other materials that would interfere with the placement or support of the inserted liner. Dispose of and replace unserviceable endwalls as the engineer directs.

C.3 Flow Diversion

Maintain drainage at and through worksite during construction in accordance to standard specs 107.20, 205 and 520. Use existing culvert pipes, existing drainage channels, temporary culvert pipes, or temporary drainage channels to maintain existing surface and pipe drainage. Provide, operate, and maintain pumps to bypass flow or dewater during construction as necessary. Unless otherwise approved by the engineer, dewater by bypassing or diverting flow during bulkheading and grouting operations. Provide a plan for controlling flow and dewatering (including sediment treatment as required) as part of the project ECIP.

C.4 Placing Liners

Unload liners using slings and boom-type trucks or equivalents. Do not use chains or wire rope to handle liners and do not dump liners from the trucks when unloading.

Install liners such that the alignment and invert lie true to the lines, grades, and elevations in the plan. In absence of plan details, install liners horizontally to provide even annular space between the host pipe and sides of the liner. Install liners vertically with the invert as close to the host pipe invert as possible.

Obtain additional easements, if necessary, for installing long sections of liner.

Connect joints and install the liner per the manufacturer's recommendations and this part.

C.5 Pressure Grouting

Furnish a written plan for grouting the annular space between the host pipe and culvert pipe liner to the engineer for acceptance. Furnish the grouting plan prior to or at the project preconstruction conference so that it can be reviewed and discussed. At a minimum, the grouting plan shall consist of the following:

- Intended grout mix(es)
- Testing methods and frequency
- Pumping equipment and pressure regulation
- Intended grout staging
- Grout monitoring
- Bracing/floatation control

Include a description of staging in the grouting plan. Based on the length and slope of the host culvert, multiple stages may be required to minimize external loads on the culvert pipe liner. Develop the staging plan with the manufacturer based on the recommended maximum loading for the culvert pipe liner and the condition of the host culvert. Unless approved by the manufacturer, in no case shall a single lift of grout exceed 1/3rd the pipe external diameter at any point in the pour.

After the liner is in place, fill the area between the original culvert and the liner completely with grout per the accepted grouting plan. Block, grout in lifts, or otherwise secure liners to prevent floatation or deformation of the liner while grouting. Grout ports can be fabricated to allow placement of anti-floatation bracing or spacers.

Use a grout plant that is capable of accurately measuring, proportioning, mixing, and discharging by volume and at discharge pressures the liner manufacturer recommends. Do not exceed manufacturer-specified maximum pressures. Place grout in lifts to prevent exceeding maximum allowable pressures and to prevent floatation.

Use grout and witness ports to vent grouting and monitoring grouting progress. Plug ports as necessary as grout reaches them.

Do not remove any bracing inside of the liner until the grouting process is complete.

C.6 Assembly, Floatation, and Deflection Mitigation

Damage or misalignment due to assembly, floatation or deformation during grouting, or otherwise resulting from workmanship will be mitigated at the contractor's expense.

C.7 Site Restoration

Replace pipe sections damaged or collapsed during installation or grouting operations. Restore the grade to its original or improved cross section. Dispose of waste material.

D Measurement

The department will measure the Culvert Pipe Liners bid items by the linear foot measured in place for each culvert location, acceptably completed.

The department will measure Cleaning Culvert Pipes for Liner Verification as each culvert, acceptably cleaned. The department will only measure culverts the engineer approves for payment.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---|------|
| 520.9700.S | Culvert Pipe Liners 18-Inch | LF |
| 520.9750.S | Cleaning Culvert Pipes for Liner Verification | EACH |

Payment for the Culvert Pipe Liners bid items is full compensation for providing pipe liners; obtaining easements; for excavation; for pumping to bypass flow, to clean pipes, for liner insertion or for grouting; for shoring and dewatering; for cleaning the existing pipe before liner installation; for pressure grouting; for replacing contractor-damaged pipe and endwalls; and for restoring the grade and disposing of waste materials.

The department will pay the contractor \$150 per cubic yard for grout required in excess of 110 percent of the theoretical quantity required to fill the space between the inside diameter of the existing pipe and the outside diameter of the liner.

Payment for Cleaning Culvert Pipes for Liner Verification is full compensation for cleaning required to verify liner length and diameter; for excavation; for pumping to bypass flow, to dewater, or to remove debris; and for disposing of waste material.

The department will pay separately for replacing unserviceable endwalls not rendered unserviceable by contractor operations under the appropriate contract endwall bid item, or absent the appropriate item as extra work.

stp-520-015 (20210708)

18. Storm Sewer

Replace standard spec 608.3.3(5) with the following:

Provide joint ties at all joints on concrete storm sewer system in-fall and outfall pipes, including endwalls. Ties are not required on installations with concrete masonry endwalls unless the plans show otherwise.

ncr-520-005b (20180319)

19. 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.

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)

20. Pavement Marking and Centerline Rumble Strip.

Before installing Centerline Rumble Strips place centerline Temporary Marking Line (Paint) 4-Inch. Except where removed with the rumble application, do not remove the centerline Temporary Marking Line (Paint) 4-Inch. After the Centerline Rumble Strips have been installed, place permanent centerline Marking Line (Epoxy) 4-Inch.

21. Flowable Fill, Item SPV.0035.01.

A Description

This special provision describes furnishing backfill materials and backfilling excavations around culverts as shown in the plan details, as directed by the engineer and as hereinafter provided.

B Materials

Furnish slurry backfill material adhering to the following specifications. The materials shall be placed in a clean concrete mixer truck and thoroughly mixed in the following quantities for each cubic yard required:

Sand: 1,350 lbs

Well Graded Coarse Aggregate Size #1: 750 lbs

Well Graded Coarse Aggregate Size #2: 1,150 lbs

Water: 25 gals

No additional water will be allowed. The above weights are damp weights. Just prior to placing the slurry backfill, the mixer shall be run at mixing speed for one full minute to assure an even mixture.

C Construction

Place flowable fill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition. If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of flowable fill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40° F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours. No flowable fill shall be allowed to enter any stream, lake, or sewer system. The contractor shall be responsible for any clean up or remediation costs resulting from such occurrences.

D Measurement

The department will measure Flowable Fill by the cubic yard acceptably completed, measured in the vehicle.

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 | Flowable Fill | CY |

Payment is full compensation for designing the mix; supplying all materials; preparing the proportioned mix; hauling it to the construction site; and placing the materials.

22. Apron Endwall for Culvert Pipe Reinforced Concrete HE 77x121-Inch, Item SPV.0060.01.

A Description

This special provision describes furnishing and installing an apron endwall for culvert reinforced concrete HE 77x121-Inch, according to standard spec 522 and the plan details.

B Materials

Comply with standard spec 522.2.

C Construction

Construct according to standard spec 522.3 and the plan details.

D Measurement

The department will measure Apron Endwalls for Culvert Pipe Reinforced Concrete HE 77x121-Inch by each individual unit, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---|------|
| SPV.0060.01 | Apron Endwalls for Culvert Pipe Reinforced Concrete HE 72x113-Inch | EACH |

Payment is according to standard spec 522.5.

23. Temporary Water Diversion – Pine Creek, Item SPV.0060.02.

A Description

This special provision describes diverting and maintaining stream flow at Pine Creek through a temporary diversion channel.

B Materials

Materials used for the diversion of the existing stream shall consist of non-erodible earthen materials, temporary shoring, or other approved materials according to the pertinent requirements of either standard spec 205-208 or 511. Provide plans for the temporary diversion as part of the Erosion Control Implementation Plan (ECIP) transmittal.

The temporary water diversion channel should be lined with plastic and weighted down with rock bags, clean non-erodible stone, or another acceptable alternative.

Materials used for the channel of the Temporary Water Diversion as well as the materials used for diverting the existing stream will be subject to DNR review and approved with the ECIP.

C Construction

Divert the stream flow prior to removing the existing pipe. All methods of diversion are subject to DOT/DNR approval prior to use. The channel should be lined with plastic or other non-erodible material and weighted down with clean stone. The temporary channel must be capable of carrying all steam flows during the construction period and must maintain a suitable depth and velocity to allow the passage of migrating fish and aquatic species. Fish that become stranded in dewatered areas or temporary channels should be captured and returned to the active channel immediately.

Maintain channel flow at all times and minimize erosion into the existing stream using appropriate erosion control measures. Inspect Temporary Water Diversion daily to ensure bypass is functioning adequately and not creating any erosion.

Pine Creek
Q2 : 60 cfs

Provide details of how the diversion will be completed in the Erosion Control Implementation Plan for review by Wisconsin DNR and the department.

D Measure

The department will measure Temporary Water Diversion completed according to the contract and accepted, as a single complete unit of work.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0060.02 | Temporary Water Diversion – Pine Creek | EACH |

Payment is full compensation for excavating the temporary channel; furnishing and placing lining and anchoring the temporary channel with polyethylene sheeting, rock bags, clear stone, or other acceptable materials, furnishing and installing the impervious barriers and turbidity barriers including earthen material or temporary shoring for water diversion if used; and all other materials required to complete the Temporary Water Diversion. Payment also includes stockpiling and backfilling excavated materials, for removing the Temporary Water Diversion including removing impervious barriers and temporary shoring and restoring the temporary channel and other temporary diversion areas to their original condition.

24. Remove and Replace Guardrail and End Terminal, Item SPV.0060.03.

A Description

This special provision describes carefully removing and setting aside the existing energy absorbing terminal and 3-12.5' segments of guardrail and re-installing it after the pipe placement at the new proposed pipe location near STA 504+00. Store all salvageable components to prevent damage or destruction. Furnish any components that are not salvageable. Re-install posts and blocks. Provide new posts and blocks for any that have been damaged. Reinstall EAT and beamguard per SDDs Steel Plate Beam Guard Energy Absorbing Terminal and Steel Plate Beam Guard, Class A. Complete grading as shown on the details.

B Materials

See standard spec 614.2.

C Construction

See standard spec 614.3.

D Measurement

The department will measure Remove and Replace Guardrail and End Terminal by each unit, acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|---|------|
| SPV.0060.03 | Remove and Replace Guardrail and End Terminal | EACH |

Payment is full compensation for removing, stockpiling, and re-installing rails; for replacing contractor-damaged rail; for removing, breaking down and disposing of unsalvageable posts, offset blocks, and unwanted or damaged materials; for supplying and installing new posts and offset blocks, including excavating, backfilling and compacting; for attaching salvaged rail to new posts, and offset blocks; for any new hardware, or re-installing salvageable hardware; and for grading to standard once installation is complete.

25. **Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 72x113-Inch, Item SPV.0090.01;**
Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 77x121-Inch, Item SPV.0090.02;
Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 97x151-Inch, Item SPV.0090.03.

A Description

This special provision describes furnishing and installing culvert pipe reinforced concrete of the type and size indicated according to standard spec 522 and the plan details.

B Materials

Comply with standard spec 522 except replace standard spec 522.2(4) and standard spec 520.2.6 as follows:

Joint Connections

Furnish joint materials conforming to the following:

Joints using rubber gaskets per ASTM C443.

Joints using preformed flexible joint sealants per ASTM C990.

External Sealing Bands per ASTM C877.

Trowel Applied Mastics: Furnish an engineer-approved cold-applied bituminous mastic joint sealer with a consistency that enables application to joints with a trowel if air temperatures range from 20 to 100 F.

C Construction

Construct according to standard spec 520.3 and the plan details and as follows:

Do not use pipe with different wall thicknesses in the same installations unless the plans or special provisions specify otherwise.

Replace 520.3.3(3) as follows:

(3) Lay concrete pipe with bells or grooves up grade and with spigot or tongue ends fully inserted in the bells or grooves.

Replace 520.3.3(4) as follows:

(1) Connect joints for concrete pipe with annular rubber or plastic gaskets, or the combination of both an external sealing band and a mastic joint sealer, as specified below.

(2) If using trowelable mastic joint sealer with an external sealing band, fill the joint with mastic sealer and wipe the inside of the joint and finish smooth.

(3) If using annular rubber or plastic gaskets, fit the gasket snugly into the annular space between the surfaces of the connecting parts of the pipe sections to form a flexible, watertight joint.

(4) If using preformed mastic joint sealer with an external sealing band, remove sharp edges and protrusions from pipe joint surfaces and clean dust, dirt, and other foreign matter from them. A primer may be used. If using a primer, use the type recommended by the preformed seal manufacturer. After the primer dries, remove the wrapper from one side of the seal only and press the seal to the primed surface. When ready to assemble, remove the remaining wrapper and fit the pipe sections in place. Shove the pipe sections together at the required alignment. Make seals of sufficient size so that after the pipe sections are in their final position a squeeze-out of the seal is evident around the joints' exterior **circumference**. Remove and make flush with the interior pipe wall, any extrusion of the seal inside the pipe before applying the external sealing band.

(5) Place external sealing band as the manufacturer specifies and the engineer approves.

D Measurement

The department will measure Culvert Pipe Reinforced Concrete Horizontal Elliptical Class pipe by the linear foot according to standard spec 522.4(1), acceptably completed.

E Payment

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

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|--|------|
| SPV.0090.01 | Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 72x113-Inch | LF |
| SPV.0090.02 | Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 77x121-Inch | LF |
| SPV.0090.03 | Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 97x151-Inch | LF |

Payment is according to standard spec 522.5.

ADDITIONAL SPECIAL PROVISION 4

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

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

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

Make the following revisions to the standard specifications:

415.3.16 Tolerance in Pavement Thickness

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

415.3.16.1 General

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

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

415.3.16.2 Pavement Units**415.3.16.2.1 Basic Units**

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

415.3.16.2.2 Special Units

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

415.3.16.3 Test Plate Locations

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

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

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

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

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

415.3.16.4.2 Special Units**415.3.16.4.2.1 Magnetic Pulse Induction**

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

415.3.16.4.2.2 Probing

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

415.3.16.4.2.3 Preplacement Measurement

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

415.5.2 Adjusting Pay for Thickness

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

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

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

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

460.2.6 Recovered Asphaltic Binders

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

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

recovered binder from the resultant mixture.

501.2.6 Water

Retitle with the following effective with the November 2021 letting:

501.2.6 Mixing Water

501.2.6.2 Requirements

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

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

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

501.3.2.4.2 Air Entrainment

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

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

501.3.7.1 Slump

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

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

531.5 Payment

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

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

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

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

642.2.2.1 General

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

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

701.3.1 General

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

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

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

^[1] As modified in CMM 860.

^[2] As modified in CMM 870.

^[3] 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.

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

^[5] Consolidate by rodding.

710.2 Small Quantities

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

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

710.4 Concrete Mixes

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

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

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

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

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

710.5.5 Strength

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

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

710.5.6 Aggregate Testing

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

710.5.6 Aggregate Testing During Concrete Production

710.5.6.1 General

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

710.5.6.2 Contractor Control Charts

710.5.6.2.1 General

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

TABLE 710-1 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS I

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

TABLE 710-2 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS II

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

710.5.6.2.2 Optimized Aggregate Gradation Control Charts

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

710.5.6.2.3 Combined Aggregate Gradation Control Charts

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

710.5.6.3 Department Acceptance Testing

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

TABLE 710-3 DEPARTMENT GRADATION TESTING FREQUENCY

| CONCRETE CLASSIFICATION | MINIMUM DEPARTMENT FREQUENCY |
|-------------------------|---|
| Class I: Pavement | 1 test per placement day for first 5 days of placement. If all samples are passing, reduced frequency is applied. |
| | Reduced frequency: 1 test per calendar week of placement |
| Class I: Structures | 1 test per 250 CY placed <ul style="list-style-type: none"> - 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 subplot. For partial sublots exceeding 25 percent of the standard volume, notify the engineer who will direct additional testing to represent that partial subplot.
- (3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 3 or more sublots for that lot.

715.3.2 Strength Evaluation

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

715.3.2.1 General

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

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

715.3.2.2 Removal and Replacement

715.3.2.2.1 Pavement

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

715.3.2.2.2 Structures and Cast-in-Place Barrier

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

715.3.3 Aggregate

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

715.3.3.1 General

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

715.3.3.2 Structures

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

715.5 Payment

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

715.5.1 General

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

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

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

715.5.2 Compressive Strength

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

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

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

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

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

715.5.3 Flexural Strength

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

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

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

>= 50 to < 85
< 50

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

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

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

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

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

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

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

^[1] 14.5 for LT and MT mixes.

^[2] 15.5 for LT and MT mixes.

715.5.1 GeneralCorrect the bid item number for Incentive Compressive Strength Concrete Pavement.

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

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

ADDITIONAL SPECIAL PROVISION 7

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

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

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

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

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

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

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

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

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

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

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

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

Non-discrimination Provisions

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

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

Effective November 2020 letting

BUY AMERICA PROVISION

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

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

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

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



Proposal Schedule of Items

Proposal ID: 20220308036 Project(s): 9261-07-60, 9261-07-61

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0002 | 201.0105 Clearing | 11.000 STA | _____. | _____. |
| 0004 | 201.0205 Grubbing | 11.000 STA | _____. | _____. |
| 0006 | 203.0100 Removing Small Pipe Culverts | 3.000 EACH | _____. | _____. |
| 0008 | 203.0220 Removing Structure (structure) 01. 158+52 | 1.000 EACH | _____. | _____. |
| 0010 | 203.0220 Removing Structure (structure) 02. C-43- 0014 | 1.000 EACH | _____. | _____. |
| 0012 | 203.0220 Removing Structure (structure) 03. C-43- 0011 | 1.000 EACH | _____. | _____. |
| 0014 | 204.0110 Removing Asphaltic Surface | 40.000 SY | _____. | _____. |
| 0016 | 204.0165 Removing Guardrail | 1,637.000 LF | _____. | _____. |
| 0018 | 204.0185 Removing Masonry | 23.000 CY | _____. | _____. |
| 0020 | 204.0215 Removing Catch Basins | 1.000 EACH | _____. | _____. |
| 0022 | 205.0100 Excavation Common | 5,046.000 CY | _____. | _____. |
| 0024 | 206.2000 Excavation for Structures Culverts (structure) 01. C-43-0023 | LS | LUMP SUM | _____. |
| 0026 | 206.3000 Excavation for Structures Retaining Walls (structure) 01. R-21-0004 | LS | LUMP SUM | _____. |
| 0028 | 206.5000 Cofferdams (structure) 01. R-21-0004 | LS | LUMP SUM | _____. |
| 0030 | 208.1500.S Temporary Lane Shift During Culvert Work | 5.000 EACH | _____. | _____. |



Proposal Schedule of Items

Proposal ID: 20220308036 Project(s): 9261-07-60, 9261-07-61

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|---|--------------------------------|------------|------------|
| 0032 | 210.2500 Backfill Structure Type B | 897.000 TON | _____. | _____. |
| 0034 | 213.0100 Finishing Roadway (project) 01. 9261-07-60 | 1.000 EACH | _____. | _____. |
| 0036 | 213.0100 Finishing Roadway (project) 02. 9261-07-61 | 1.000 EACH | _____. | _____. |
| 0038 | 305.0110 Base Aggregate Dense 3/4-Inch | 301.000 TON | _____. | _____. |
| 0040 | 305.0120 Base Aggregate Dense 1 1/4-Inch | 3,146.000 TON | _____. | _____. |
| 0042 | 310.0110 Base Aggregate Open-Graded | 662.000 TON | _____. | _____. |
| 0044 | 311.0115 Breaker Run | 60.000 CY | _____. | _____. |
| 0046 | 312.0110 Select Crushed Material | 109.000 TON | _____. | _____. |
| 0048 | 455.0605 Tack Coat | 155.000 GAL | _____. | _____. |
| 0050 | 460.2000 Incentive Density HMA Pavement | 540.000 DOL | 1.00000 | 540.00 |
| 0052 | 460.5244 HMA Pavement 4 LT 58-34 S | 833.000 TON | _____. | _____. |
| 0054 | 465.0120 Asphaltic Surface Driveways and Field Entrances | 7.000 TON | _____. | _____. |
| 0056 | 465.0125 Asphaltic Surface Temporary | 433.000 TON | _____. | _____. |
| 0058 | 465.0315 Asphaltic Flumes | 30.000 SY | _____. | _____. |
| 0060 | 465.0475 Asphalt Centerline Rumble Strips 2-Lane Rural | 468.000 LF | _____. | _____. |
| 0062 | 504.0100 Concrete Masonry Culverts | 76.000 CY | _____. | _____. |



Proposal Schedule of Items

Proposal ID: 20220308036 Project(s): 9261-07-60, 9261-07-61

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|---|--------------------------------|------------|------------|
| 0064 | 504.0500 Concrete Masonry Retaining Walls | 94.000 CY | _____. | _____. |
| 0066 | 504.0900 Concrete Masonry Endwalls | 37.000 CY | _____. | _____. |
| 0068 | 505.0400 Bar Steel Reinforcement HS Structures | 1,770.000 LB | _____. | _____. |
| 0070 | 505.0600 Bar Steel Reinforcement HS Coated Structures | 18,970.000 LB | _____. | _____. |
| 0072 | 511.1200 Temporary Shoring (structure) 01. R-21-0004 | 325.000 SF | _____. | _____. |
| 0074 | 516.0500 Rubberized Membrane Waterproofing | 71.000 SY | _____. | _____. |
| 0076 | 520.1024 Apron Endwalls for Culvert Pipe 24-Inch | 4.000 EACH | _____. | _____. |
| 0078 | 520.2054 Culvert Pipe Temporary 54-Inch | 176.000 LF | _____. | _____. |
| 0080 | 520.3624 Culvert Pipe Class III-B Non-metal 24-Inch | 148.000 LF | _____. | _____. |
| 0082 | 520.9700.S Culvert Pipe Liners (size) 01. 18-Inch | 90.000 LF | _____. | _____. |
| 0084 | 520.9750.S Cleaning Culvert Pipes for Liner Verification | 1.000 EACH | _____. | _____. |
| 0086 | 521.1518 Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1 | 2.000 EACH | _____. | _____. |
| 0088 | 521.3118 Culvert Pipe Corrugated Steel 18-Inch | 26.000 LF | _____. | _____. |
| 0090 | 522.0454 Culvert Pipe Reinforced Concrete Class IV 54-Inch | 64.000 LF | _____. | _____. |
| 0092 | 522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch | 1.000 EACH | _____. | _____. |



Proposal Schedule of Items

Proposal ID: 20220308036 Project(s): 9261-07-60, 9261-07-61

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|---|--------------------------------|------------|------------|
| 0094 | 522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch | 2.000 EACH | _____. | _____. |
| 0096 | 603.8000 Concrete Barrier Temporary Precast Delivered | 470.000 LF | _____. | _____. |
| 0098 | 603.8125 Concrete Barrier Temporary Precast Installed | 675.000 LF | _____. | _____. |
| 0100 | 606.0200 Riprap Medium | 113.000 CY | _____. | _____. |
| 0102 | 608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch | 62.000 LF | _____. | _____. |
| 0104 | 611.0612 Inlet Covers Type C | 1.000 EACH | _____. | _____. |
| 0106 | 611.3003 Inlets 3-FT Diameter | 1.000 EACH | _____. | _____. |
| 0108 | 614.0397 Guardrail Mow Strip Emulsified Asphalt | 55.000 SY | _____. | _____. |
| 0110 | 614.0905 Crash Cushions Temporary | 4.000 EACH | _____. | _____. |
| 0112 | 614.2300 MGS Guardrail 3 | 462.500 LF | _____. | _____. |
| 0114 | 614.2340 MGS Guardrail 3 L | 675.000 LF | _____. | _____. |
| 0116 | 614.2610 MGS Guardrail Terminal EAT | 12.000 EACH | _____. | _____. |
| 0118 | 619.1000 Mobilization | 1.000 EACH | _____. | _____. |
| 0120 | 624.0100 Water | 47.000 MGAL | _____. | _____. |
| 0122 | 625.0100 Topsoil | 1,291.000 SY | _____. | _____. |
| 0124 | 625.0500 Salvaged Topsoil | 2,585.000 SY | _____. | _____. |



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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|---|--------------------------------|------------|------------|
| 0126 | 628.1504 Silt Fence | 4,048.000 LF | _____. | _____. |
| 0128 | 628.1520 Silt Fence Maintenance | 4,048.000 LF | _____. | _____. |
| 0130 | 628.1905 Mobilizations Erosion Control | 13.000 EACH | _____. | _____. |
| 0132 | 628.1910 Mobilizations Emergency Erosion Control | 5.000 EACH | _____. | _____. |
| 0134 | 628.2008 Erosion Mat Urban Class I Type B | 3,874.000 SY | _____. | _____. |
| 0136 | 628.7504 Temporary Ditch Checks | 24.000 LF | _____. | _____. |
| 0138 | 628.7555 Culvert Pipe Checks | 116.000 EACH | _____. | _____. |
| 0140 | 628.7570 Rock Bags | 40.000 EACH | _____. | _____. |
| 0142 | 629.0210 Fertilizer Type B | 2.500 CWT | _____. | _____. |
| 0144 | 630.0120 Seeding Mixture No. 20 | 104.000 LB | _____. | _____. |
| 0146 | 630.0160 Seeding Mixture No. 60 | 10.000 LB | _____. | _____. |
| 0148 | 630.0500 Seed Water | 87.000 MGAL | _____. | _____. |
| 0150 | 633.5200 Markers Culvert End | 15.000 EACH | _____. | _____. |
| 0152 | 634.0616 Posts Wood 4x6-Inch X 16-FT | 8.000 EACH | _____. | _____. |
| 0154 | 638.2102 Moving Signs Type II | 6.000 EACH | _____. | _____. |
| 0156 | 642.5001 Field Office Type B | 1.000 EACH | _____. | _____. |
| 0158 | 643.0300 Traffic Control Drums | 132.000 DAY | _____. | _____. |



Proposal Schedule of Items

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0160 | 643.0420 Traffic Control Barricades Type III | 1,234.000 DAY | _____. | _____. |
| 0162 | 643.0705 Traffic Control Warning Lights Type A | 1,620.000 DAY | _____. | _____. |
| 0164 | 643.0900 Traffic Control Signs | 9,879.000 DAY | _____. | _____. |
| 0166 | 643.0920 Traffic Control Covering Signs Type II | 10.000 EACH | _____. | _____. |
| 0168 | 643.1000 Traffic Control Signs Fixed Message | 94.520 SF | _____. | _____. |
| 0170 | 643.5000 Traffic Control | 1.000 EACH | _____. | _____. |
| 0172 | 645.0105 Geotextile Type C | 180.000 SY | _____. | _____. |
| 0174 | 645.0120 Geotextile Type HR | 175.000 SY | _____. | _____. |
| 0176 | 646.1020 Marking Line Epoxy 4-Inch | 2,884.000 LF | _____. | _____. |
| 0178 | 649.0105 Temporary Marking Line Paint 4-Inch | 7,119.000 LF | _____. | _____. |
| 0180 | 649.0820 Temporary Marking Stop Line Epoxy 18-Inch | 30.000 LF | _____. | _____. |
| 0182 | 650.4500 Construction Staking Subgrade | 834.000 LF | _____. | _____. |
| 0184 | 650.5000 Construction Staking Base | 834.000 LF | _____. | _____. |
| 0186 | 650.6000 Construction Staking Pipe Culverts | 8.000 EACH | _____. | _____. |
| 0188 | 650.6500 Construction Staking Structure Layout (structure) 01. R-21-0004 | LS | LUMP SUM | _____. |
| 0190 | 650.9910 Construction Staking Supplemental Control (project) 01. 9261-07-60 | LS | LUMP SUM | _____. |



Proposal Schedule of Items

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0192 | 650.9910 Construction Staking Supplemental Control (project) 02. 9261-07-61 | LS | LUMP SUM | _____. |
| 0194 | 650.9920 Construction Staking Slope Stakes | 1,153.000 LF | _____. | _____. |
| 0196 | 690.0150 Sawing Asphalt | 1,325.000 LF | _____. | _____. |
| 0198 | SPV.0035 Special 01. Flowable Fill | 157.000 CY | _____. | _____. |
| 0200 | SPV.0060 Special 01. Apron Endwalls for Culvert Pipe Reinforced Concrete HE 77x121-Inch | 1.000 EACH | _____. | _____. |
| 0202 | SPV.0060 Special 02. Remove & Replace Guardrail & End Terminal Project 9261-07-60 | 1.000 EACH | _____. | _____. |
| 0204 | SPV.0060 Special 03. Temporary Water Diversion - Pine Creek | 1.000 EACH | _____. | _____. |
| 0206 | SPV.0090 Special 01. Culvert Pipe Reinforced Concrete HE Class HE-IV 72x113-Inch | 116.000 LF | _____. | _____. |
| 0208 | SPV.0090 Special 02. Culvert Pipe Reinforced Concrete HE Class HE-III 77x121-Inch | 62.000 LF | _____. | _____. |
| 0210 | SPV.0090 Special 03. Culvert Pipe Reinforced Concrete HE Class HE-IV 97x151-Inch | 52.000 LF | _____. | _____. |
| Section: 0001 | | | Total: | _____. |
| | | | Total Bid: | _____. |

PLEASE ATTACH ADDENDA HERE



Proposal Schedule of Items

Proposal ID: 20220308036 Project(s): 9261-07-60, 9261-07-61

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

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

| Proposal Line Number | Item ID Description | Approximate Quantity and Units | Unit Price | Bid Amount |
|----------------------|--|--------------------------------|------------|------------|
| 0194 | 650.9920 Construction Staking Slope Stakes | 1,153.000 LF | _____. | _____. |
| 0196 | 690.0150 Sawing Asphalt | 1,325.000 LF | _____. | _____. |
| 0198 | SPV.0035 Special 01. Flowable Fill | 157.000 CY | _____. | _____. |
| 0200 | SPV.0060 Special 01. Apron Endwalls for Culvert Pipe Reinforced Concrete HE 77x121-Inch | 1.000 EACH | _____. | _____. |
| 0202 | SPV.0060 Special 02. Remove & Replace Guardrail & End Terminal Project 9261-07-60 | 1.000 EACH | _____. | _____. |
| 0204 | SPV.0060 Special 03. Temporary Water Diversion - Pine Creek | 1.000 EACH | _____. | _____. |
| 0206 | SPV.0090 Special 01. Culvert Pipe Reinforced Concrete HE Class HE-IV 72x113-Inch | 116.000 LF | _____. | _____. |
| 0208 | SPV.0090 Special 02. Culvert Pipe Reinforced Concrete HE Class HE-III 77x121-Inch | 62.000 LF | _____. | _____. |
| 0210 | SPV.0090 Special 03. Culvert Pipe Reinforced Concrete HE Class HE-IV 97x151-Inch | 52.000 LF | _____. | _____. |
| 0212 | 649.0150 Temporary Marking Line Removable Tape 4-Inch | 7,119.000 LF | _____. | _____. |
| Section: 0001 | | | Total: | _____. |
| | | | Total Bid: | _____. |