HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: 013

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Brown	4327-08-71	N/A	V Denmark, CTH R; Devils River Trail Bridge B-05-0438	CTH R
Brown	4327-09-71	N/A	V Denmark, CTH R; S Wall Street Bridge B-05-0439	CTH R

ADDENDUM REQUIRED

ATTACHED AT BACK

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

Proposal Guaranty Required: $75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: January 14, 2020 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time August 04, 2020	
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)	(Bidder Signature)
(Print or Type Name, Notary Public, State Wisconsin)	(Print or Type Bidder Name)
(Date Commission Expires)	(Bidder Title)

Notary Seal

Type of Work: **For Department Use Only**

Grading, Base, Concrete Pavement, Bridge Replacement, Beam Guard, Pavement Markings

Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

(1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:

1. Electronic bid on 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 departments 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

Wisconsin Department of Transportation

DT1303 1/2006

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

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

Wisconsin Department of Transportation

DT1305 8/2003

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

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

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

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

(Signature of Authorized Contractor Representative) (Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

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

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.

4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.

7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

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

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

(1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

Special Provisions

Table of Contents

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 4327-08-71, V Denmark, CTH R, Devils River Trail Bridge & Approaches, CTH R, Brown County, Wisconsin and Project 4327-09-71, V Denmark, CTH R, Wall St Bridge & Approaches, CTH R, Brown 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, 2020 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 (20190618)

2. Scope of Work.

The work under this contract shall consist of Structure B-05-438, Structure B-05-439, grading, breaker run, base aggregate dense, HMA pavement, landscaping, 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.

Start work no later than July 6, 2020, unless otherwise approved by the engineer.

Migratory Birds

Swallow and other migratory birds' nests have been observed on or under the existing bridges. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act.

The nesting season for swallows and other birds is usually between May 1 and August 30. Either prevent active nests from becoming established or apply for a depredation permit from the US Fish and Wildlife Service for work that may disturb or destroy active nests. The need for a permit may be avoided by removing the existing bridge structure prior to nest occupation by birds or clearing nests from all structures before the nests become active in early spring. As a last resort, prevent birds from nesting by installing a suitable netting device on the remaining structure prior to nesting activity. Include the cost for preventing nesting in the cost of Removing Old Structure.

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.

4. Traffic.

Close CTH R to through traffic during construction operations under this contract. Place the appropriate signing and barricades prior to beginning construction work on the closed roadway. Maintain local traffic on either side of the bridges along both CTH R and Wall Street for the duration of construction.

Provide a detour for CTH R vehicle traffic. The detour consists of CTH KB and CTH T. Coordinate with William Berg at (920) 662-2171 at least 7 days prior to construction.

Provide a detour for recreational traffic using Devil's River Trail. The detour route consists of Hager Road, Wall Street, and CTH KB. Devil's River Trail or Wall Street detour route must be open to pedestrian and bicycle traffic at all times during construction.

Keep appropriate emergency officials informed of roadway closure, trail closure, and detour so they can prepare for responses to emergencies in the area.

Keep Brown County Highway Department informed of roadway closure. Contact William Berg at (920) 662-2171 a minimum of 14 days prior to start of construction.

Structure B-05-439 Construction

During removal and construction operations on B-05-439 over Wall Street, arrange for 30 minute rolling closures to be utilized when the roadway is not being detoured. The contractor shall designate two workers to direct traffic during the rolling closures. The rolling closures will involve stopping Wall Street traffic for a brief period then allowing traffic to proceed as directed by the contractor. Contractor operations shall not require vehicles to wait more than 30 minutes. All vehicles from the rolling closure queue shall be cleared prior to the start of subsequent rolling closures.

5. Holiday Work Restrictions.

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

- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Friday, July 3, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day;
- From noon Friday, September 4, 2020 to 6:00 AM Tuesday, September 8, 2020 for Labor Day.

stp-107-005 (20181119)

6. Utilities.

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

stp-107-066 (20080501)

Project 4327-08-71

(Coordination for project 4327-09-71 was completed under project 4327-08-71).

Central Brown County Water Authority has a 48-inch transmission water main along the south side of CTH R at the base of the fill slope. No direct conflicts are anticipated. Central Brown County Water Authority is concerned about concussive vibrations during construction caused by driving piling.

During pile driving, monitor vibrations at the water main. See Seismograph, Item 999.1000.S for more information. Contact Nicolas Sparacio, Manager Central Brown County Water Authority at (920) 639-0078 seven calendar days prior to driving piling. Central Brown County Water Authority will have a representative on site during pile driving operations. Provide data recorded for each vibration occurrence to the Central Brown County Water Authority's representative.

Field Contact: Robert Michaelson, (920) 374-0959, rmichaelson@mpu.org.

CenturyLink has overhead facilities along the west side of Wall Street crossing under the CTH R bridge at approximately Station 49+75 that is in conflict with the project.

CenturyLink will relocate the overhead facility by burying their communication cable between Pole 500/4 at Station 201+40 and Pole 500/5 at Station 199+40. All work will be completed by November 1, 2019.

Field Contact: Matt Gunderson, (920) 837-2344, matt.gunderson@centurylink.com.

Charter has inactive underground communication facilities along the east side of Wall Street.

No conflicts are anticipated.

Field Contact: Vince Albin, (920) 378-0444, vince.albin@charter.com.

NetLec has underground communication facilities along the south side of CTH R at the base of the fill slope.

No conflicts are anticipated.

Field Contact: Dennis LaFave, 920-619-9774, dlafave@mi-tech.us

Village of Denmark – Sewer has existing water and sewer facilities under Wall Street north of CTH R. No conflicts are anticipated.

Field Contact: Erika Sisel, (920) 362-7982, erika@villageofdenmark.com.

Village of Denmark – Water has existing water and sewer facilities under Wall Street north of CTH R. No conflicts are anticipated.

Field Contact: Erika Sisel, (920) 362-7982, erika@villageofdenmark.com.

WPS – Gas has a 4-inch PE gas main along the west side of Wall Street in the project location and crosses under Wall Street north of CTH R. The gas main is located under the west slope paving but is buried deeper than the planned grade change.

No conflicts are anticipated.

Field Contact: James Eiden, (920) 617-5231, james.eiden@wisconsinpublicservice.com.

WPS – Electric has overhead facilities along the east side of Wall Street and cross CTH R at approximately Station 50+32. The electric facilities cross over Wall Street south of CTH R.

WPS will install a new pole at approximately Station 198+50, 25' RT, bury the overhead line continuing to Station 50+00, 31' RT, and continue the underground wire to the existing pole at approximately Station 200+55, 25' RT. The pole at 199+10 will stay in the existing location. WPS will complete this work by November 1, 2019.

Field Contact: Ryan Voskuil, (920) 617-5150, ryan.voskuil@wisconsinpublicservice.com.

Windstream has underground fiber optic facilities along the south side of CTH R.

No conflicts are anticipated.

Field Contact: Eric Becker, (920) 461-9825, eric.becker@windstream.com.

7. Work by Others.

CTH R Reconstruction

Brown County Highway Department will be reconstructing CTH R to the west of Project 4327-08-71 limits. The county will connect to the guardrail installed to the west of Structure B-05-438. This work is scheduled to be completed concurrently with the bridge construction. CTH R will be closed to through traffic within the construction limits, but access will be provided for the contractor to the bridges using flagging operations. Coordinate schedule and traffic control with William Berg at (920) 662-2171.

Asphaltic Surface

Brown County Highway Department will install the asphaltic surface for CTH R within the project limits from Station 44+80 to Station 53+00 during construction. Contact William Berg at (920) 662-2171 a minimum of 10 working days prior to anticipated paving to coordinate paving operations. The time to pave CTH R from Station 44+80 to Station 53+00 is included in the time of this contract. Brown County requires two working days to complete the paving of CTH R within the project limits. Place base aggregate shoulders after the county completes paving.

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Brian Edwards at (920) 360-2801.

stp-107-054 (20080901)

9. Environmental Protection, Devils River Trail.

The Devil's River Trail is considered a 4(f) resource. Do not stockpile materials or drive or park construction vehicles on the trail. Minimize all impacts to Devil's River Trail and restore the trail with materials similar to the existing condition after construction. Pre and post-construction visits will be required with Brown County Park representatives. Contact Matt Kriese at (920) 448-6242 at least 7 days prior to trail impacts.

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

Project 4327-08-71

Paul Garvey, License Number AII-117079, inspected Structure B-05-33 for asbestos on August 23, 2017. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Brian Edwards, (920) 360-2801.

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

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

- Site Name: Structure B-05-033, CTH R over CNW RR
- Site Address: 2.0M N JCT CTH P
- Ownership Information: Brown County, 100 S Jefferson St, PO Box 23600, Green Bay, WI 54305
- Contact: Brian Edwards
- Phone: (920) 360-2801
- Age: 62 years old. This structure was constructed in 1957.
- Area: 5320 SF of deck

Insert the following paragraph in Section 6.g.:

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

stp-107-125 (20120615)

Project 4327-08-71

Paul Garvey, License Number AII-117079, inspected Structure B-05-38 for asbestos on August 23, 2017. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Brian Edwards, 920-360-2801.

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

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

- Site Name: Structure B-05-038, CTH R over Wall St
- Site Address: 1.9M N JCTH CTH P
- Ownership Information: Brown County, 100 S Jefferson St, PO Box 23600, Green Bay, WI 54305
- Contact: Brian Edwards
- Phone: (920) 360-2801
- Age: 62 years old. This structure was constructed in 1957.
- Area: 4504 SF of deck

Insert the following paragraph in Section 6.g.:

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

stp-107-125 (20120615)

11. Notice to Contractor, Piling.

Add the following to standard spec 550.3.1:

Begin driving piles for B-05-438 and B-05-439 on the north side of each structure, working south. Use a seismograph to monitor the 48-inch transmission main along the south side of CTH R during piling operations.

12. Seismograph 4327-08-71, Item 999.1000.S.01; Seismograph 4327-09-71, Item 999.1000.S.02.

A Description

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

A report analyzing the construction induced ground vibration effects on the structural integrity of the 48" steel water main within the project limits was prepared for the project. A copy of the report is available from: Brian Edwards, 920-360-2801.

B Material

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

C Construction

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

During construction, place seismographs to monitor piling or as the engineer directs. At a minimum utilize three seismographs per station. Bury the vibration sensors approximately one foot below ground surface directly over the watermain section nearest the pile driving operation or secured to the ground surface if burial is not possible. Orient the seismographs so the middle seismograph is aligned with the pile driving and the other two seismographs are installed 10 feet on either side of the middle seismograph. If more than one major construction activity per day is taking place, multiple seismograph stations may be required. Provide data recorded for each vibration occurrence to the engineer which includes the following:

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

If construction activities generate ground vibration in excess of the peak particle velocity limits of 1.0 in/s, stop the construction operation in progress and implement alternate construction methods to produce results within the allowable peak particle velocity limits.

Contact Rob Michaelson (Manitowoc Public Utilities) 920-686-4354 and Nic Sparacio (Central Brown County Water Authority) 920-639-0078 if the peak particle velocity limit of 1.0 in/s is exceeded.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1000.S.01	Seismograph 4327-08-71	LS
999.1000.S.02	Seismograph 4327-09-71	LS

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

13. Removing Existing Timber Piling, Item SPV.0090.01.

A Description

This special provision describes removing existing timber piling and includes removing, drilling, or coring through existing timber piles in conflict with proposed new piling for the piers at Structure B-5-438. The work also includes backfilling the void left after removal with structure backfill. The purpose of this work is to clear the location so the proposed pile may be driven and installed without interference from an existing timber pile.

B (Vacant)

C Construction

Remove any existing timber piling that is in conflict with proposed piling locations. An existing timber pile is in conflict with a proposed pile if the timber pile is within 2.5 proposed-pile diameters (center-center spacing) of a proposed pile. One of the following methods of removal shall be used:

Direct Pull: Wrap piling with a choker cable, chain, or other device attached to a crane. Pull the piling vertically, removing the piling from the soil.

Vibratory Excavation: Attach a vibratory hammer to a crane and to the existing piling. Vibrate the piling loose. Pull the piling vertically and remove the piling from the soil.

Coring: Core through existing timber piles to an elevation that will permit the installation of the proposed pile without interference. Unless directed otherwise, make the diameter of the core hole only as large as required to eliminate the pile conflict.

Contractor Proposed: The contractor may propose, in writing, an alternate method of pile removal.

When an existing pile is found to be in conflict with the proposed piling, the contractor shall notify the engineer, and receive approval on the selected removal method prior to beginning any work to remove the timber piling.

Fill any void remaining after pile removal with structure backfill.

D Measurement

The department will measure Removing Existing Timber Piling in length by the linear foot, acceptably completed. Measurement will be made along the vertical length of the timber piling removed regardless of the method used. If the coring method is used, the contractor and engineer will agree to a cored depth.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Removing Existing Timber Piling	LF

Payment is full compensation for removing existing timber piling; for providing and placing necessary structure backfill material; and for disposing of all material excavated.

14. Superstructure ¾" V-Drip Edge (Structure B-5-438), Item SPV.0105.01.

A Description

This special provision describes constructing the Superstructure ¾" V-Drip Edge (Structure B-5-438) as detailed in the plans, and as hereinafter provided.

B Materials

Furnish materials conforming to the requirements of standard spec 502.2.

C Construction

Use construction methods conforming to the requirements of standard spec 502.3 and as detailed in the plans.

D Measurement

The department will measure Superstructure ¾" V-Drip Edge (Structure B-5-438) as a single lump sum unit for all work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Superstructure ¾" V-Drip Edge (Structure B-5-438)	LS

Payment is full compensation for forming the Superstructure ¾" V-Drip Edge (Structure B-5-438).

15. Superstructure ¾" V-Drip Edge (Structure B-5-439), Item SPV.0105.02.

A Description

This special provision describes constructing the Superstructure ¾" V-Drip Edge (Structure B-5-439) as detailed in the plans, and as hereinafter provided.

B Materials

Furnish materials conforming to the requirements of standard spec 502.2.

C Construction

Use construction methods conforming to the requirements of standard spec 502.3 and as detailed in the plans.

D Measurement

The department will measure Superstructure ¾" V-Drip Edge (Structure B-5-439) as a single lump sum unit for all work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	Superstructure ¾" V-Drip Edge (Structure B-5-439)	LS

Payment is full compensation for forming the Superstructure ¾" V-Drip Edge (Structure B-5-439).

16. Traffic Bond Limestone 3/8-Inch, Item SPV.0195.01.

A Description

This special provision describes constructing the surface of the trail with traffic bond limestone.

B Materials

Provide traffic bond limestone screenings conforming to the following gradation requirements:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3/8 Inch	100
No. 4	80-95
No. 40	65-86
No. 100	25-40
No. 200	8-25

C Construction

Construction the traffic bond limestone conforming to standard spec 305.3.

Two days after the limestone screenings have been placed or when the screenings are dry and firm, taper the edges of the limestone screenings using a roller or other method approved by the engineer. Compact and roll the edge of the limestone screenings to create a neat bevel.

D Measurement

The department will measure Traffic Bond Limestone 3/8-Inch by the ton, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Traffic Bond Limestone 3/8-Inch	TON

Payment is full compensation for preparing the foundation; and for transporting, stockpiling, placing, shaping, compacting, and maintaining the limestone surface throughout construction.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

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

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

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

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

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

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

Make the following revisions to the standard specifications:

104.3 Contractor Notification

Replace the entire text with the following effective with the December 2019 letting:

104.3.1 General

(1) Subsection 104.3 specifies the step-by-step communication process to be followed to expedite the resolution of potential contract revisions identified by the contractor. Both contractor actions and department responses are outlined. The contractor's non-compliance with the requirements of 104.3 may constitute a waiver of entitlement to a pay adjustment under 109.4 or a time extension under 108.10. The department and contractor can mutually agree to extend any time frame specified throughout 104.3.

104.3.2 Contractor Initial Oral Notification

(1) If required by 104.2, or if the contractor believes that the department's action, the department's lack of action, or some other situation results in or necessitates a contract revision, the contractor must promptly provide oral notification to the project engineer. Upon notification, the project engineer will attempt to resolve the identified issue.

104.3.3 Contractor 5-Day Written Statement

(1) If the project engineer has not responded or resolved the identified issue within 5 business days after receipt of initial notification, provide a contractor written statement to the project engineer in the following format:

Part 1 - Executive Summary *(label page 1.1 through page 1.x)*

Include a detailed, factual statement of the request for additional compensation and contract time. Include the date the issue was identified, the date initial notification was given to the project engineer, and the dates and specific locations of work involved.

Part 2 - Contractor's Basis of Entitlement *(label page 2.1 through page 2.x)*

Include references to relevant contract provisions and a narrative summarizing how the contract provisions support the request for a revision to the original contract.

Part 3 - Contractor's Request for Damages *(label page 3.1 through page 3.x)*

When requesting additional compensation, include an itemized list of costs with a narrative supporting the requested amount and explaining how the costs are tied to the requested contract revision.

When requesting additional contract time, include a copy of the schedule that was in effect when the issue occurred and a detailed narrative explaining how the issue impacted controlling items of work. Provide a time impact analysis utilizing base and updated schedules.

If the full extent of either compensation or time is not known at the date of submittal of the contractor 5-Day written statement, provide a brief statement as to why, and include estimated compensation and time.

Part 4 - Supporting Documentation *(label page 4.1 through page 4.x)*

Include copies of the following:

A. Relevant excerpts from specifications, special provisions, plans, change orders, or other contract documents.

B. Communication on the issue, including: letters, e-mails, meeting minutes, etc.

C. Any other documentation to support or clarify the contractor's position, including: daily work records, cost summary sheets, weigh tickets, test results, sketches, etc.

(2) With the submittal of the written statement, the contractor may also request a meeting with the region.

104.3.4 Region One-Day Written Acknowledgment

(1) Within one business day after the contractor provides the 5-day written statement, the project engineer will provide a region one-day written acknowledgment to the contractor. The project engineer will continue to resolve the issue.

104.3.5 Region 5-Day Written Response

(1) Within 5 business days after receiving the contractor 5-day written statement, the project engineer may request specific additional information to allow the project engineer to decide whether item 1 or 2 of 104.3.6(1) applies. The project engineer will state the information needed and date it is to be

received for further review. Submit additional information as an amendment to the contractor 5-day written statement.

104.3.6 Region Final Decision

(1) Within 10 business days after receiving the contractor 5-day written statement or additional information requested in 104.3.5(1), whichever comes last, the region will consider all information and provide a region final decision in writing to the contractor with one or more of the following responses:

1. The region will confirm that the contractor is entitled to a contract revision and a contract change order is necessary as specified in 104.2. The project engineer will give direction concerning the potential change.
2. The region will deny that the contractor is entitled to a contract revision. The project engineer will provide a statement as to why the issue is not a change to the contract. At a minimum, the project engineer will respond to the contractor's issues and refer to the contract to show why the issues are not a change from the original contract.

(2) If the contractor does not agree with the region's decision the contractor may pursue the issue as a claim as specified in 105.13. Alternatively, if the contractor and department mutually agree, the department will get a third-party advisory opinion according to the department's dispute resolution procedures.

(3) If a third party reviews the issue, their recommendation is not binding on either party. The region has 10 business days after receipt of the third party's written recommendation to render a decision. If the department fails to respond in writing within those 10 business days or the contractor disagrees with theregion's decision, the contractor may pursue the issue as a claim as specified in 105.13.

104.6.1.2.1 General

Replace paragraph one with the following effective with the December 2019 letting:

(1) Conduct construction operations and provide facilities required to maintain the portion of the project open to the public in a condition that safely and adequately accommodates public traffic. Use barricades, signs, flaggers, and temporary barrier as specified in part VI, of the WMUTCD and ensure that the contractor's use of the right-of-way conforms to 107.9. Throughout the life of the contract, and as the engineer directs, conduct construction operations and provide facilities as follows:

- Conduct flagging operations conforming to plan details and the department's flagging handbook.
- Use drums, barricades, and temporary barrier to delineate and shield abrupt drop-offs and other hazards.
- Furnish, erect, and maintain traffic control devices and facilities conforming to 643.
- Furnish, erect, and maintain temporary pedestrian devices and facilities conforming to 644.

104.6.1.2.2 Flagging

Replace paragraph three with the following effective with the December 2019 letting:

(3) Provide associated advanced warning signs that meet the retroreflective requirements of 637.2.2.2. Provide temporary portable rumble strips from the department's APL installed according to manufacturer's instructions and as specified in the flagging plan details. Provide guidance service through the worksite using pilot vehicles if required.

Replace paragraph five with the following effective with the December 2019 letting:

(5) Flagging is incidental to the contract and includes costs for advance signing, temporary portable rumble strips, and pilot vehicle guidance service.

104.8 Rights in the Use of Materials Found on the Project

Replace paragraph two with the following effective with the December 2019 letting:

(2) Do not excavate or remove material from within the right-of-way that is not within the vertical and horizontal excavation limits the plans show except as follows:

- If the contract does not identify potential source areas, obtain written authorization from the engineer to use those sources. Complete required environmental documentation and obtain necessary permits. The department will reduce pay by $1.50 per cubic yard under the Material from Right-of-Way administrative item for material obtained from those areas.
- If the contract identifies potential source areas that were evaluated and permitted in the original environmental document, do not begin excavating in those areas until the engineer allows in writing. Additional environmental documentation and environmental permits are not required. The department will not reduce pay for material obtained from those areas.

The department may suspend use of these sources if the contractor's operation affects the essential functions or characteristics of the project.

104.10.1 General

Replace paragraph one with the following effective with the December 2019 letting:

(1) Subsection 104.10 specifies a 2-step process for contractors to follow in submitting a cost reduction incentive (CRI) for modifying the contract in order to reduce direct construction costs computed at contract bid prices. The initial submittal is referred to as a CRI concept and the second submittal is a CRI proposal. The contractor and the department will equally share all savings generated to the contract due to a CRI as specified in 104.10.4.2(1). The department encourages the contractor to submit CRI concepts for the following situations:

1. The contractor generates the original cost savings idea and formulates it into a concept.
2. The department generates the original cost savings idea and obtains the contractor’s assistance to formulate the idea into a concept.

Replace paragraph five with the following effective with the December 2019 letting:

(5) The department will consider a CRI that changes but does not impair the essential functions or characteristics of the project. These functions or characteristics include, but are not limited to, appearance, service life, economy of operations, ease of maintenance, design, and safety of structures and pavements, construction phasing or procedures, or other contract requirements. The department will not consider a CRI that changes the following:

- Permanent pavement type.
- Permanent structural cross section above the subgrade.

104.10.2 Submittal and Review of a CRI Concept

Replace paragraphs five and six with the following effective with the December 2019 letting:

(5) The department may consider a CRI concept that addresses a potential change under 104.2.

(6) The department will not implement a contractor-initiated CRI concept, or portion of that concept, without sharing the cost savings with the contractor as specified in 104.10.4.2.

(7) The savings generated by the CRI must be sufficient to warrant its review and processing and offset the level of risk. The department will assess the risk of the CRI relative to departmental design policies and criteria for the project. The department may reject a CRI concept for the following reasons:

1. It requires excessive time or costs for the contractor to develop the CRI proposal.
2. It requires excessive time or costs for review, evaluation, investigation, or implementation.
3. It introduces an inappropriate level of risk.

104.10.4.2 Payment for the CRI Work

Replace paragraph one with the following effective with the December 2019 letting:

(1) The department will pay for completed CRI work as specified for progress payments under 109.6. The department will pay for CRI's under the Cost Reduction Incentive administrative item. When all CRI costs are determined, the department will execute a contract change order that does the following:

1. Adjusts the contract time, interim completion dates, or both.
2. Pays the contractor for the unpaid balance of the CRI work.
3. Pays the contractor 50 percent of the net savings resulting from the CRI, calculated as follows:

NS = CW - CRW - CC - DC

Where:

NS = Net Savings

CW = The cost of the work required by the original contract that is revised by the CRI. CW is computed at contract bid prices if applicable.

CRW = The cost of the revised work, computed at contract bid prices if applicable.

CC = The contractor's cost of developing the CRI proposal.

DC = The department's cost for investigating, evaluating, and implementing the CRI proposal.

105.13 Claims Process for Unresolved Changes

Replace the entire text with the following effective with the December 2019 letting:

105.13.1 General

(1) Before submitting a claim, the department and contractor can mutually agree to have the department get a third-party advisory opinion as specified in 104.3.6.

(2) The department and contractor can mutually agree to extend any time frame specified throughout 105.13 and can mutually agree to utilize an alternative dispute resolution method at any point before the department renders its final decision.

(3) The department and contractor share costs related to referral to a dispute review board (DRB) as prescribed in the department's dispute resolution procedures.

105.13.2 Notice of Claim

(1) If the contractor has followed the procedures for revising the contract specified in 104.2 and provided the notification specified in 104.3, but still disagrees with the region, the contractor may pursue the issue as a claim. File a notice of claim with the project engineer concerning the disagreement within 14 calendar days of receiving the region's decision under 104.3.6(1).

(2) The project engineer may deny the applicable portion of a claim if the contractor does not do the following:

1. File the notice of claim within 14 calendar days as specified in 105.13.2(1).
2. Give the project engineer sufficient access to keep a record of the actual labor, materials, and equipment used to perform the claimed work.

(3) Upon filing the notice of claim, maintain records as specified for force account statements in 109.4.5. Unless the project engineer issues a suspension, continue to perform the disputed work. The department will continue to make progress payments to the contractor as specified in 109.6.

105.13.3 Submission of Claim

(1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim, but not later than the end of the time allowed under 109.7 for the contractor to respond in writing to the engineer-issued semi-final estimate. If the contractor does not submit the claim within that response time, the department will deny the claim.

(2) The department will not accept the submission of a claim until the resolution process in 104.3 has been completed and the contractor makes no further requests to submit updated information that may affect the region's final decision.

105.13.4 Content of Claim

(1) The final contractor written statement under 104.3.3 is considered the content of the claim. If the contractor makes a request to submit updated information that may affect the region's final decision under 104.3.6, submit the updated information as an amendment to the contractor written statement and continue the resolution process in 104.3 before submitting a claim.

(2) The department may refer the claimant of a false claim to the appropriate authority for criminal prosecution. Certify the claim using the following form:

The undersigned is duly authorized to certify this claim on behalf of (the contractor).

(The contractor) certifies that this claim is made in good faith, that the supporting data are accurate and complete to the best of (the contractor's) knowledge and belief, and that the amount requested accurately reflects the contract adjustment for which (the contractor) believes that the department is liable.

(THE CONTRACTOR)

By:_____
(Name and Title)

Date of Execution:_____

105.13.5 Department Final Decision

(1) The department will have up to 28 calendar days, from the contractor's submission of the claim, to perform a final review of the claim and conduct all meetings. The department may request, in writing, that the contractor submit additional information related to the claim. Submit that additional information, or notify the department in writing to base its decision on the information previously submitted. Either the contractor or region may request a meeting to present their views. Before the meeting, both parties will agree upon written ground rules for the meeting.

(2) Upon completion of the 28 calendar days for the department's review and meetings, the department will have up to 21 calendar days to render a written decision. The department will consider written and oral submissions from the contractor and region, and may consider other relevant information in the project records.

(3) The department will provide the following in its final decision:

1. A concise description of the claim.
2. A clear, contractual basis for its decision that includes a reference to 104.2 on revisions to the contract and as appropriate, specific reference to language regarding the bid items in question.
3. Other facts the department relies on to support its decision.
4. A concise statement of the circumstances surrounding the claim and reasons for its decision. If the department rejects the claim in whole or in part, the department will explain why the claimed work is not a change to the contract work.
5. The amount of money or other relief, if any, the department will grant the contractor.

(4) If the contractor disagrees with the department's final decision, the contractor may initiate a legal action pursuant to state statutes.

106.3.4.2.2.2 Freeze-Thaw Soundness

Replace paragraph one with the following effective with the December 2019 letting:

(1) Perform freeze-thaw soundness testing according to AASHTO T103 as modified in CMM 8-60.2. Provide freeze/thaw soundness test results based on the fraction retained on the No. 4 sieve as follows:

1. Using virgin crushed stone aggregates produced from limestone/dolomite sources in one or more of the following counties or from out of state:

Brown	Columbia	Crawford	Dane	Dodge
Fond du Lac	Grant	Green	Green Lake	Iowa
Jefferson	Lafayette	Marinette	Oconto	Outagamie
Rock	Shawano	Walworth	Winnebago	

2. Using gravel aggregates produced from pit sources in one or more of the following counties or from out of state:

Dodge	Washington	Waukesha

208.5 Payment

Replace paragraph three with the following effective with the December 2019 letting:

(3) The department will adjust pay for material obtained from within the project right-of-way limits but outside project excavation limits, furnished under 208.2.2, as specified in 104.8.

301.2.3 Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

(1) Department and contractor testing shall conform to the following:

Sampling[1]	AASHTO T2
Percent passing the 200 sieve	AASHTO T11
Gradation[1]	AASHTO T27
Gradation of extracted aggregate	AASHTO T30
Moisture content[1]	AASHTO T255
Liquid limit	AASHTO T89
Plasticity index	AASHTO T90
Wear	AASHTO T96
Sodium sulfate soundness (R-4, 5 cycles)	AASHTO T104
Freeze/thaw soundness[1]	AASHTO T103
Lightweight Pieces in Aggregate	AASHTO T113
Fracture	ASTM D5821 as modified in CMM 8-60
Moisture/density[1]	AASHTO T99 and AASHTO T180
In-place density[1]	AASHTO T191
Asphaltic material extraction	CMM 8-36 WisDOT Test Method 1560

[1] As modified in CMM 8-60.

301.2.4.5 Aggregate Base Physical Properties

Replace paragraph one with the following effective with the December 2019 letting:

(1) Furnish aggregates conforming to the following:

TABLE 301-2 AGGREGATE BASE PHYSICAL PROPERTIES

PROPERTY	CRUSHED STONE	CRUSHED GRAVEL	CRUSHED CONCRETE	RECLAIMED ASPHALT	REPROCESSED MATERIAL	BLENDED MATERIAL
Gradation AASHTO T27						
dense	305.2.2.1	305.2.2.1	305.2.2.1	305.2.2.2	305.2.2.1	305.2.2.1[1]
open-graded	310.2	310.2	not allowed	not allowed	not allowed	not allowed
Wear AASHTO T96 loss by weight	<=50%	<=50%	note[2]	___	note[2]	note[3]
Sodium sulfate soundness AASHTO T104 loss by weight						
dense	<=18%	<=18%	___	___	___	note[3]
open-graded	<=12%	<=12%	not allowed	not allowed	not allowed	not allowed
Freeze/thaw soundness AASHTO T103[6] loss by weight						
dense	<=18%	<=18%	note[2]	___	___	note[3]
open-graded	<=18%	<=18%	not allowed	not allowed	not allowed	not allowed
Liquid limit AASHTO T89	<=25	<=25	<=25	___	___	note[3]
Plasticity AASHTO T90	<=6[4]	<=6[4]	<=6[4]	___	___	note[3]
Fracture ASTM D5821[6] min one face by count						
dense	58%	58%	58%	___	note[5]	note[3]
open-graded	90%	90%	not allowed	not allowed	not allowed	not allowed

[1] The final aggregate blend must conform to the specified gradation.

[2] No requirement for material taken from within the project limits. For material supplied from a source outside the project limits:

- LA wear maximum of 50 percent loss, by weight.
- Freeze thaw maximum of 42 percent loss, by weight.

[3] Required as specified for the individual component materials defined in columns 2 - 6 of the table before blending.

[4] For base placed between old and new pavements, use crushed stone, crushed gravel, or crushed concrete with a plasticity index of 3 or less.

[5] >=75 percent by count of non-asphalt coated particles.

[6] as modified in CMM 8-60.

450.2.2 Aggregate Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

(1) The department and the contractor will sample and test according to the following methods, except as revised with the engineer's approval:

Sampling aggregates	AASHTO T2
Material finer than No. 200 sieve	AASHTO T11
Sieve analysis of aggregates	AASHTO T27
Mechanical analysis of extracted aggregate	AASHTO T30
Sieve analysis of mineral filler	AASHTO T37
Los Angeles abrasion of coarse aggregate	AASHTO T96
Freeze-thaw soundness of coarse aggregate[1]	AASHTO T103
Sodium sulfate soundness of aggregates (R-4, 5 cycles)	AASHTO T104
Extraction of bitumen	AASHTO T164

[1] As modified in CMM 8-60.2.

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

Add 450.3.2.6.3 as a new subsection effective with the December 2019 letting:

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

(1) When specified in 460.3.3.1, compact asphaltic mixture using the roller pattern established during construction of a control strip. Use 2 or more rollers per paver if placing more than 165 tons per hour.

(2) On the first day of production, construct a control strip under the direct observation of department personnel. After compacting the control strip with a minimum of 3 passes, mark the gauge outline and take a one-minute wet density measurement using a nuclear density gauge in back scatter mode at a single location. Take a density measurement at the same location after each subsequent pass. Continue compacting and testing until the increase in density is less than 1 pcf for 3 consecutive passes. Submit the final roller pattern to the engineer in writing. Once the roller pattern is established do not change the pattern or decrease the number, type, or weight of rollers without the engineer's written approval.

(3) After establishing the roller pattern, and under the direct observation of the engineer, cut at least one 4-inch diameter or larger core from the control strip density gauge outline. Prepare cores and determine density according to AASHTO T166. Dry cores after testing. Fill core holes and obtain engineer approval before opening to traffic. The department will maintain custody of cores throughout the entire sampling and testing process. The department will label cores, transport cores to testing facilities, witness testing, store dried cores, and provide subsequent verification testing.

450.3.2.8 Jointing

Replace paragraph three with the following effective with the December 2019 letting:

(3) Construct notched wedge longitudinal joints for mainline paving of HMA layers 1.75 inches or greater. Extend the wedge beyond the normal lane width as the plans show or as the engineer directs.

Replace paragraph five with the following effective with the December 2019 letting:

(5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel or vibratory plate compactor the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.

(6) Clean longitudinal and transverse joints coated with dust and, if necessary, paint with hot asphaltic material, a cutback, or emulsified asphalt to ensure a tightly bonded, sealed joint.

455.2.5 Tack Coat

Replace paragraph one with the following effective with the December 2019 letting:

(1) Under the Tack Coat bid item, furnish type SS-1h, CSS-1h, QS-1h, CQS-1h, or modified emulsified asphalt with an “h” suffix, unless the contract specifies otherwise.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the December 2019 letting:

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

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm)	No. 2 (25.0 mm)	No.3 (19.0 mm)	No. 4 (12.5 mm)	No. 5 (9.5 mm)	No. 6 (4.75 mm)	SMA No. 4 (12.5 mm)	SMA No. 5 (9.5 mm)
50.0-mm	100							
37.5-mm	90 - 100	100						
25.0-mm	90 max	90 - 100	100					
19.0-mm	___	90 max	90 - 100	100			100	
12.5-mm	___	___	90 max	90 - 100	100		90 - 97	100
9.5-mm	___	___	___	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm	___	___	___	___	90 max	90 - 100	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm	___	___	___	___	___	30 - 55	___	___
0.60-mm	___	___	___	___	___	___	18 max	18 max
0.075-mm	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.

460.2.7 HMA Mixture Design

Replace paragraph one with the following effective with the December 2019 letting:

(1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. Ensure that SMA mixture designs adhere to AASHTO R 46 and AASHTO M 325 in addition to the required test procedures outlined in CMM 8-66 table 1 and CMM 8-66 table 2. Determine the specific gravity of fines or super fines used as a mineral filler or additional stabilizer in SMA designs according to AASHTO T 100. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to CMM 8-66.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	LT	MT	HT	SMA
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103 as modified in CMM 8-60.2) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821 as modified in CMM 860) (one face/2 face, % by count)	65/___	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40[1]	43[1]	45	45
Sand Equivalency (AASHTO T176, min)	40	40[2]	45	50
Clay Lumps and Friable Particle in Aggregate (AASHTO T112)	<= 1%	<= 1%	<= 1%	<= 1%
Plasticity Index of Material Added to Mix Design as Mineral Filler (AASHTO T89/90)	<= 4	<= 4	<= 4	<= 4
Gyratory Compaction				
Gyrations for Nini	6	7	8	7
Gyrations for Ndes	40	75	100	65
Gyrations for Nmax	60	115	160	100
Air Voids, %Va (%Gmm Ndes)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.5 (95.5)
% Gmm Nini	<= 91.5[3]	<= 89.0[3]	<= 89.0	___
% Gmm Nmax	<= 98.0	<= 98.0	<= 98.0	<= 98.0
Dust to Binder Ratio[4] (% passing 0.075/Pbe)	0.6 - 1.2[5]	0.6 - 1.2[5]	0.6 - 1.2[5]	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80[6] [8]	65 - 75[6] [7] [9]	65 - 75[6] [7] [9]	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283)[10] [11]				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.80 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	___	___	___	<= 0.30
Minimum Effective Asphalt Content, Pbe (%)	___	___	___	5.5

[1] For No 6 (4.75 mm) nominal maximum size mixes, the specified fine aggregate angularity is 43 for LT and 45 MT mixes.

[2] For No 6 (4.75 mm) nominal maximum size mixes, the specified sand equivalency is 43 for MT mixes.

[3] The percent maximum density at initial compaction is only a guideline.

[4] For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

[5] For No 6 (4.75 mm) nominal maximum size mixes, the specified dust to binder ratio limits are 1.0 - 2.0 for LT mixes and 1.5 - 2.0 for MT and HT mixes.

[6] For No. 6 (4.75mm) nominal maximum size mixes, the specified VFB is 67 - 79 percent for LT mixes and 66 - 77 percent for MT and HT mixes.

[7] For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

[8] For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

[9] For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

[10] WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

[11] Run TSR at asphalt content corresponding to 3.0% air void regressed design, or 4.5% air void design for SMA, using distilled water for testing.

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Replace paragraph four with the following effective with the December 2019 letting:

(4) Use the test methods identified below, or other methods the engineer approves, to perform the following tests at the frequency indicated:

Blended aggregate gradations:

Drum plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.
- Belt samples, optional for virgin mixtures, obtained from stopped belt or from the belt discharge using an engineer-approved sampling device and performed according to AASHTO T11 and T27.

Batch plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Asphalt content (AC) in percent:

AC by ignition oven according to AASHTO T308 (CMM 8-36.6.3.6), by chemical extraction according to AASHTO T-164 method A or B; or by automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Bulk specific gravity of the compacted mixture according to AASHTO T166.

Maximum specific gravity according to AASHTO T209.

Air voids (Va) by calculation according to AASHTO T269.

VMA by calculation according to AASHTO R35.

460.2.8.2.1.4.2 Control Charts

Replace paragraph one with the following effective with the December 2019 letting:

(1) Maintain standardized control charts at the laboratory. Record contractor test results on the charts the same day as testing. Record data on the standardized control charts as follows:

- Blended aggregate gradation tests in percent passing. Of the following, plot sieves required in table 460-1: 37.5-mm, 25.0-mm, 19.0-mm, 12.5-mm, 9.5-mm, 4.75-mm, 2.36-mm, 1.18-mm, 0.60-mm, and 0.075-mm.
- Asphalt material content in percent.
- Air voids in percent.
- VMA in percent.

(2) Plot both the individual test point and the running average of the last 4 data points on each chart. Show QC data in black with the running average in red. Draw the warning limits with a dashed green line and the JMF limits with a dashed red line. The contractor may use computer generated black-and-white printouts with a legend that clearly identifies the specified color-coded components.

460.2.8.2.1.5 Control Limits

Replace paragraph one with the following effective with the December 2019 letting:

(1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
4.75-mm	+/- 5.0	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
1.18-mm	+/- 4.0	+/- 3.0
0.60-mm	+/- 4.0	+/- 3.0
0.075-mm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent[1]	+1.3/-1.0	+1.0/-0.7
VMA in percent[2]	- 0.5	- 0.2

[1] For SMA, JMF limits are +/-1.3 and warning limits are +/-1.0.

[2] VMA limits are based on requirements for each mix design nominal maximum aggregate size in table 460-1. For No. 6 (4.75mm) mixes, JMF limits are +/- 0.5 and warning limits are +/- 0.2.

460.3.2 Thickness

Replace paragraph one with the following effective with the December 2019 letting:

(1) Provide the plan thickness for lower and upper layers limited as follows:

NOMINAL SIZE	MINIMUM LAYER THICKNESS (in inches)	MAX LOWER LAYER THICKNESS (in inches)	MAX UPPER LAYER THICKNESS (in inches)	MAX SINGLE LAYER THICKNESS[3] (in inches)
No. 1 (37.5 mm)	4.5	6	4.5	6
No. 2 (25.0 mm)	3.0	5	4	6
No. 3 (19.0 mm	2.25	4	3	5
No. 4 (12.5 mm)[1]	1.75	3[2]	2.5	4
No. 5 (9.5 mm)[1]	1.25	3[2]	2	3
No. 6 (4.75 mm)	0.75	1.25	1.25	1.25

[1] SMA mixtures use nominal size No. 4 (12.5 mm) or No. 5 (9.5 mm).

[2] SMA mixtures with nominal sizes of No. 4 (12.5 mm) and No. 5 (9.5 mm) have no maximum lower layer thickness specified.

[3] For use on cross-overs and shoulders.

(2) Place leveling layers using No. 4 (12.5 mm), No. 5 (9.5 mm), or No. 6 (4.75 mm) mixtures. Leveling layers may be thinner than the minimum lower layer thickness for the mixture used.

(3) Place wedging layers as the contract specifies or engineer directs. Wedging layers have no specified minimum or maximum thickness.

460.3.3.1 Minimum Required Density

Replace paragraph one with the following effective with the December 2019 letting:

(1) Compact No. 6 mixtures in lower layers as specified in 450.3.2.6.2 and in upper layers as specified in 450.3.2.6.3. For other HMA mixtures, compact all layers to the density table 460-3 specifies.

TABLE 460-3 MINIMUM REQUIRED DENSITY[1]

LOCATION	LAYER	PERCENT OF TARGET MAXIMUM DENSITY		
		MIXTURE TYPE		
		LT and MT	HT	SMA[5]
TRAFFIC LANES[2]	LOWER	93.0[3]	93.0[4]	___
	UPPER	93.0	93.0	93.0
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	___
	UPPER	92.0	92.0	92.0

[1] The table values are for average lot density. If any individual density test result falls more than 3.0 percent below the minimum required target maximum density, the engineer will investigate the acceptability of that material according to CMM 8-15.11.

[2] Includes side roads, crossovers, turn lanes, ramps, parking lanes, bike lanes, and park-and-ride lots as defined by the contract plans.

[3] Minimum reduced by 2.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

[4] Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

460.3.3.2 Pavement Density Determination

Replace paragraph three with the following effective with the December 2019 letting:

(3) A lot is defined in CMM 8-15 and placed within a single layer for each location and target maximum density category indicated in table 460-3. The lot density is the average of all samples taken for that lot. The department determines the number of tests per lot according to CMM 8-15.

460.5.2.1 General

Replace paragraph six with the following effective with the December 2019 letting:

(6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:

- Va less than 2.5 or greater than 6.5 percent for SMA, or for other mixes, less than 1.5 or greater than 5.0 percent.
- VMA more than 1.0 percent below the minimum or above the maximum specified in table 460-1.
- AC more than 0.5 % below the JMF target.

Remove and replace the material, or if the engineer allows the mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

501.2.5.5 Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

(1) Sample and test aggregates for concrete according to the following:

Sampling aggregates[1]	AASHTO T2
Lightweight pieces in aggregate	AASHTO T113
Material finer than No. 200 sieve[1]	AASHTO T11
Unit weight of aggregate	AASHTO T19
Organic impurities in sands	AASHTO T21
Sieve analysis of aggregates	AASHTO T27
Effect of organic impurities in fine aggregate	AASHTO T71
Los Angeles abrasion of coarse aggregate	AASHTO T96
Alkali Silica Reactivity of Aggregates	ASTM C1260
Alkali Silica Reactivity of Combinations of Cementitious Materials and Aggregates	ASTM C1567
Freeze-thaw soundness of coarse aggregate[1]	AASHTO T103
Sodium sulfate soundness of coarse aggregates (R-4, 5 cycles)	AASHTO T104
Specific gravity and absorption of fine aggregate	AASHTO T84
Specific gravity and absorption of coarse aggregate[1]	AASHTO T85
Flat & elongated pieces based on a 3:1 ratio[1]	ASTM D4791
Sampling fresh concrete	AASHTO R60
Making and curing concrete compressive strength test specimens	AASHTO T23
Compressive strength of molded concrete cylinders	AASHTO T22

[1] As modified in CMM 8-60.

505.2.2 Bar Steel Reinforcement

Replace paragraph one with the following effective with the December 2019 letting:

(1) Conform to AASHTO M31, type S or type W.

505.2.3 High-Strength Bar Steel Reinforcement

Replace paragraph one with the following effective with the December 2019 letting:

(1) Conform to AASHTO M31, grade 60, type S or type W.

505.2.4.1 General

Replace paragraph one with the following effective with the December 2019 letting:

(1) Conform to AASHTO M31, grade 60, type S or type W. Ensure that the coating is applied in a CRSI certified epoxy coating plant. Bend bars that require bending before coating, unless the fabricator can bend the bar without damaging the coating.

505.2.6.1 General

Replace paragraph one with the following effective with the December 2019 letting:

(1) For dowel bars and straight tie bars, there is no requirement for bend tests. Ensure that the bars are the specified diameter and length the plans show.

505.2.6.2.2 Solid Dowel Bars

Replace paragraph one with the following effective with the December 2019 letting:

(1) Furnish coated bars conforming to AASHTO M31 grade 40 or 60. Alternatively the contractor may furnish dowel bars conforming to AASHTO M227 grade 70-80. Coat in a plant certified by the Concrete Reinforcing Steel Institute with a thermosetting epoxy conforming to AASHTO M254, type B.

625.3.2 Processing Topsoil or Salvaged Topsoil

Delete paragraph four effective with the December 2019 letting.

701.3.1 General

Replace the entire text with the following effective with the December 2019 letting:

(1) Perform contract required QC tests for samples randomly located according to CMM 8-30. Use the test methods specified in table 701-1.

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 8-30.9.2	Transportation Materials Sampling Technician (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, AGGTECT-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11[1]	AGGTEC-I, ACT-AGG
Fine and coarse aggregate gradation	AASHTO T27[1]	
Aggregate moisture content	AASHTO T255[1]	
Fractured faces	ASTM D5821[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152[2]	
Air void system of fresh concrete	AASHTO TP118[5]	
Concrete slump	AASHTO T119[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete cylinders	AASHTO T23	
Moist curing for concrete cylinders	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Profiling	—	PROFILER

[1] As modified in CMM 8-60.

[2] As modified in CMM 8-70.

[3] A plasticity check, if required under individual QMP provisions, 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 tests by rodding only.

715.2.1 General

Replace paragraph five with the following effective with the December 2019 letting:

(5) For new lab-qualified mixes, test the air void system of the proposed concrete mix. Include the SAM number as a part of the mix design submittal.

715.3.1.1 General

Replace paragraph two with the following effective with the December 2019 letting:

(2) Test the air void system at least once per lot and enter the SAM number in the MRS for information only. SAM testing is not required for the following:

- For lots with less than 4 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

730.3.1 General

Replace paragraph three with the following effective with the December 2019 letting:

(3) Stockpile tests[1] can be used for multiple projects. If placement on a project does not begin within 120 calendar days after the date the stockpile sample was obtained, retest the stockpile before placement begins.

[1] Replace the stockpile test with an in-place production test for concrete pavement recycled and processed on-site; test on the first day of production.

730.3.2 Contractor QC Testing

Replace paragraph four with the following effective with the December 2019 letting:

(4) Submit test results to the engineer within one business day of obtaining the sample, except any aggregate classification with recycled asphalt may be submitted within two business days.

730.3.4.1 Contractor QC Testing

Replace the entire text with the following effective with the December 2019 letting:

(1) For small quantity contracts with <= 500 tons, submit 2 production tests or 1 stockpile test. Production tests are valid for 3 years from the date the production sample was obtained. Begin placement within 3 years of the date sampled.

(2) For small quantity contracts with <= 6000 tons and >= 500 tons, do the following:

1. Conduct one QC stockpile test before placement.
2. Submit 2 production tests or conduct 1 loadout test instead of placement tests. Production tests are valid for 3 years from the date the production sample was obtained; the first day of placement must be within 3 years of the date sampled.
3. If the actual quantity placed is more than 6000 tons, on the next day of placement perform one additional random QC test for each 3000 tons of overrun, or fraction thereof.

740.3.2 Contractor QC Testing

Replace paragraph three with the following effective with the December 2019 letting:

(3) Field-locate the beginning and ending points for each profile run. Measure the profiles of each standard and partial segment. Define primary segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Define segments one wheel path wide and distinguished by length as follows:

1. Standard segments are 500 feet long.
2. Partial segments are less than 500 feet long.

Errata

614.3.6 Thrie Beam Structure Approach Retro Fits

Correct errata by deleting the galvanization reference already required under 614.3.1.

(2) Install posts and drill holes into existing thrie beam conforming to 614.3.2.

628.3.7 Mobilizations for Erosion Control

Correct errata by clarifying that mobilizations for erosion control include proceeding with the work.

(1) Move personnel, equipment, and materials to the project site and promptly proceed with construction of erosion control items at the stages the contract indicates or the engineer directs.

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://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf

Effective January 2019 Letting ASP 9

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 August 2015 letting

BUY AMERICA PROVISION

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

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

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

https://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	203.0200 Removing Old Structure (station) 01. 46+54.89	LS	LUMP SUM	_____.____
0004	203.0200 Removing Old Structure (station) 02. 50+00	LS	LUMP SUM	_____.____
0006	204.0100 Removing Pavement	1,600.000 SY	_____.____	_____.____
0008	204.0165 Removing Guardrail	888.000 LF	_____.____	_____.____
0010	205.0100 Excavation Common	1,269.000 CY	_____.____	_____.____
0012	206.1000 Excavation for Structures Bridges (structure) 01. B-5-438	LS	LUMP SUM	_____.____
0014	206.1000 Excavation for Structures Bridges (structure) 02. B-5-439	LS	LUMP SUM	_____.____
0016	208.0100 Borrow	1,460.000 CY	_____.____	_____.____
0018	210.1500 Backfill Structure Type A	1,370.000 TON	_____.____	_____.____
0020	213.0100 Finishing Roadway (project) 01. 4327-08-71	1.000 EACH	_____.____	_____.____
0022	213.0100 Finishing Roadway (project) 02. 4327-09-71	1.000 EACH	_____.____	_____.____
0024	305.0110 Base Aggregate Dense 3/4-Inch	100.000 TON	_____.____	_____.____
0026	305.0120 Base Aggregate Dense 1 1/4-Inch	1,065.000 TON	_____.____	_____.____
0028	311.0110 Breaker Run	1,905.000 TON	_____.____	_____.____
0030	415.0070 Concrete Pavement 7-Inch	80.000 SY	_____.____	_____.____

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	415.0410 Concrete Pavement Approach Slab	240.000 SY	_____.____	_____.____
0034	416.1010 Concrete Surface Drains	25.000 CY	_____.____	_____.____
0036	502.0100 Concrete Masonry Bridges	1,126.000 CY	_____.____	_____.____
0038	502.3200 Protective Surface Treatment	1,070.000 SY	_____.____	_____.____
0040	502.3210 Pigmented Surface Sealer	315.000 SY	_____.____	_____.____
0042	503.0146 Prestressed Girder Type I 45W-Inch	763.000 LF	_____.____	_____.____
0044	505.0400 Bar Steel Reinforcement HS Structures	34,080.000 LB	_____.____	_____.____
0046	505.0600 Bar Steel Reinforcement HS Coated Structures	157,330.000 LB	_____.____	_____.____
0048	506.2605 Bearing Pads Elastomeric Non-Laminated	14.000 EACH	_____.____	_____.____
0050	506.4000 Steel Diaphragms (structure) 01. B-5-439	12.000 EACH	_____.____	_____.____
0052	516.0500 Rubberized Membrane Waterproofing	52.000 SY	_____.____	_____.____
0054	550.0500 Pile Points	134.000 EACH	_____.____	_____.____
0056	550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch	2,210.000 LF	_____.____	_____.____
0058	550.2124 Piling CIP Concrete 12 3/4 X 0.25-Inch	5,250.000 LF	_____.____	_____.____
0060	604.0400 Slope Paving Concrete	830.000 SY	_____.____	_____.____
0062	606.0200 Riprap Medium	24.000 CY	_____.____	_____.____

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	612.0406 Pipe Underdrain Wrapped 6-Inch	380.000 LF	_____.____	_____.____
0066	614.0150 Anchor Assemblies for Steel Plate Beam Guard	8.000 EACH	_____.____	_____.____
0068	614.2300 MGS Guardrail 3	196.500 LF	_____.____	_____.____
0070	614.2330 MGS Guardrail 3 K	356.000 LF	_____.____	_____.____
0072	614.2500 MGS Thrie Beam Transition	316.000 LF	_____.____	_____.____
0074	614.2610 MGS Guardrail Terminal EAT	1.000 EACH	_____.____	_____.____
0076	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4327-08-71	1.000 EACH	_____.____	_____.____
0078	618.0100 Maintenance And Repair of Haul Roads (project) 02. 4327-09-71	1.000 EACH	_____.____	_____.____
0080	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0082	624.0100 Water	14.000 MGAL	_____.____	_____.____
0084	625.0100 Topsoil	5,180.000 SY	_____.____	_____.____
0086	628.1504 Silt Fence	2,020.000 LF	_____.____	_____.____
0088	628.1520 Silt Fence Maintenance	4,040.000 LF	_____.____	_____.____
0090	628.1905 Mobilizations Erosion Control	5.000 EACH	_____.____	_____.____
0092	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.____	_____.____
0094	628.2004 Erosion Mat Class I Type B	5,180.000 SY	_____.____	_____.____

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0096	628.7504 Temporary Ditch Checks	135.000 LF	_____.____	_____.____
0098	628.7555 Culvert Pipe Checks	15.000 EACH	_____.____	_____.____
0100	628.7570 Rock Bags	120.000 EACH	_____.____	_____.____
0102	629.0210 Fertilizer Type B	3.300 CWT	_____.____	_____.____
0104	630.0120 Seeding Mixture No. 20	145.000 LB	_____.____	_____.____
0106	630.0200 Seeding Temporary	145.000 LB	_____.____	_____.____
0108	630.0500 Seed Water	120.000 MGAL	_____.____	_____.____
0110	638.2602 Removing Signs Type II	4.000 EACH	_____.____	_____.____
0112	638.3000 Removing Small Sign Supports	4.000 EACH	_____.____	_____.____
0114	642.5001 Field Office Type B	1.000 EACH	_____.____	_____.____
0116	643.0420 Traffic Control Barricades Type III	4,080.000 DAY	_____.____	_____.____
0118	643.0705 Traffic Control Warning Lights Type A	6,240.000 DAY	_____.____	_____.____
0120	643.0900 Traffic Control Signs	11,340.000 DAY	_____.____	_____.____
0122	643.0920 Traffic Control Covering Signs Type II	2.000 EACH	_____.____	_____.____
0124	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0126	645.0111 Geotextile Type DF Schedule A	200.000 SY	_____.____	_____.____
0128	645.0120 Geotextile Type HR	80.000 SY	_____.____	_____.____

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0130	646.1020 Marking Line Epoxy 4-Inch	3,095.000 LF	_____._____	_____._____
0132	650.4500 Construction Staking Subgrade	576.000 LF	_____._____	_____._____
0134	650.5000 Construction Staking Base	576.000 LF	_____._____	_____._____
0136	650.6500 Construction Staking Structure Layout (structure) 01. B-5-438	LS	LUMP SUM	_____._____
0138	650.6500 Construction Staking Structure Layout (structure) 02. B-5-439	LS	LUMP SUM	_____._____
0140	650.9910 Construction Staking Supplemental Control (project) 01. 4327-08-71	LS	LUMP SUM	_____._____
0142	650.9910 Construction Staking Supplemental Control (project) 02. 4327-09-71	LS	LUMP SUM	_____._____
0144	650.9920 Construction Staking Slope Stakes	576.000 LF	_____._____	_____._____
0146	690.0250 Sawing Concrete	60.000 LF	_____._____	_____._____
0148	715.0415 Incentive Strength Concrete Pavement	160.000 DOL	1.00000	160.00
0150	715.0502 Incentive Strength Concrete Structures	7,212.000 DOL	1.00000	7,212.00
0152	999.1000.S Seismograph 01. 4327-08-71	LS	LUMP SUM	_____._____
0154	999.1000.S Seismograph 02. 4327-09-71	LS	LUMP SUM	_____._____
0156	SPV.0090 Special 01. Removing Existing Timber Piling	560.000 LF	_____._____	_____._____
0158	SPV.0105 Special 01. Superstructure 3/4" V-Drip Edge Structure B-5-438	LS	LUMP SUM	_____._____

Proposal ID: 20200114013 **Project(s):** 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	SPV.0105 Special 02. Superstructure 3/4" V-Drip Edge Structure B-5-439	LS	LUMP SUM	_____._____
0162	SPV.0195 Special 01. Traffic Bond Limestone 3/8-Inch	50.000 TON	_____._____	_____._____
	Section: 0001		**Total:**	_____._____
			Total Bid:	**_____._____**

PLEASE ATTACH SCHEDULE OF ITEMS HERE

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

January 8, 2020

NOTICE TO ALL CONTRACTORS:

Proposal #13:	**4327-08-71**	**4327-09-71**
	V Denmark, CTH R	**V Denmark, CTH R**
	Devils River Trail Bridge B-05-0438	**Wall Street Bridge B-05-0439**
	CTH R	**CTH R**
	Brown County	**Brown County**

Letting of January 14, 2020

This is Addendum No. 01, which provides for the following:

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
604.0400	Slope Paving Concrete	SY	830	-15	815
612.0406	Pipe Underdrain Wrapped 6-Inch	LF	380	480	860

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
203.0100	Removing Pipe Culverts	LF	0	2	2
204.0175	Removing Concrete Slope Paving	SY	0	302	302

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
60 (60)	Quantities, Typical Section, & Design Data (Revised quantity for Pipe Underdrain 6-Inch for project 4327-08-71)
10 (98)	Miscellaneous Quantities (Added items Removing Small Pipe Culverts and Removing Concrete Slope Paving for project 4327-09-71)
69 (157)	General Plan (Revised Slope Paving for project 4327-09-71)
70 (158)	Quantities, Typical Section, & Design Data (Revised quantity for Pipe Underdrain 6-Inch and Slope Paving Concrete for project 4327-09-71)

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
96A	Cross section sheet under Bridge B-05-0439 along Wall Street
96B	Cross section sheet under Bridge B-05-0439 along Wall Street
96C	Cross section sheet under Bridge B-05-0439 along Wall Street

Schedule of Items
Attached, dated January 8, 2020, are the revised Schedule of Items Pages 1 – 6.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 4327-08-71: 60
4327-09-71: 10, 69, 70; Added: 96A, 96B and 96C

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

STATE PROJECT NUMBER
4327-08-71

Addendum No. 01
ID 4327-08-71
Revised Sheet 60
January 8, 2020

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	PIER 1	PIER 2	E. ABUT.	SUPER.	TOTAL
203.0200	REMOVING OLD STRUCTURE STATION 46+54.89	LS	-----	-----	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-5-438	LS	-----	-----	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	280	-----	-----	280	-----	560
502.0100	CONCRETE MASONRY BRIDGES	CY	60	125	125	60	384	754
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	-----	575	575
502.3210	PIGMENTED SURFACE SEALER	SY	15	-----	-----	15	130	160
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	3,270	9,160	9,160	3,260	-----	24,850
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,590	17,000	17,000	1,590	78,640	115,820
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	12	-----	-----	12	-----	24
550.0500	PILE POINTS	EACH	10	40	40	10	-----	100
☆ 550.2124	PILING CIP CONCRETE 12¾ X 0.25-INCH	LF	650	2,000	2,000	600	-----	5,250
604.0400	SLOPE PAVING CONCRETE	SY	260	-----	-----	255	-----	515
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	~~210 90~~	-----	-----	~~210 90~~	-----	~~420 180~~
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-----	-----	2	-----	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	-----	-----	50	-----	100
SPV.0090.01	REMOVING EXISTING TIMBER PILING	LF	-----	280	280	-----	-----	560
SPV.0105.01	SUPERSTRUCTURE ¾" V-DRIP EDGE STRUCTURE B-5-438	LS	-----	-----	-----	-----	-----	1
	NON-BID ITEMS							
	FILLER	SIZE	-----	-----	-----	-----	-----	½" & ¾"

☆ IF THE CENTER OF THE PROPOSED PILE IS WITHIN 2'-6" FROM CENTER OF AN EXISTING PILE, THE EXISTING PILE CAN BE REMOVED OR THE PROPOSED PILE SPACING CAN BE ADJUSTED, WITH PRIOR APPROVAL FROM THE ENGINEER. THE COST OF REMOVING EXISTING PILES AND ADJUSTING THE SPACING IS INCIDENTAL TO "REMOVING OLD STRUCTURE STATION 46+54.89".

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.24
OPERATING RATING FACTOR: 1.61
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 #/S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY { SUPERSTRUCTURE ____ f'_c = 4,000 p.s.i.
ALL OTHER ____ f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ____ f_y = 60,000 p.s.i.

FOUNDATION DATA:

WEST ABUTMENT TO BE SUPPORTED ON 12¾" ϕ x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 65'-0".

EAST ABUTMENT TO BE SUPPORTED ON 12¾" ϕ x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 60'-0".

PIERS TO BE SUPPORTED ON 12¾" ϕ x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 110 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 50'-0".

‡ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:

A.A.D.T. = 3,500 (2019)
A.A.D.T. = 4,300 (2039)
R.D.S. = 50 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-5-438" SHALL BE THE EXISTING GROUND LINE.

THE EXISTING STRUCTURE, B-5-33, TO BE REMOVED, IS A 152-FOOT LONG, FIVE SPAN, CONCRETE HAUNCHED SLAB BRIDGE ON CONCRETE SILL-TYPE ABUTMENTS AND CONCRETE MULTI-COLUMNED PIERS WITH A CLEAR ROADWAY WIDTH OF 30-FEET.

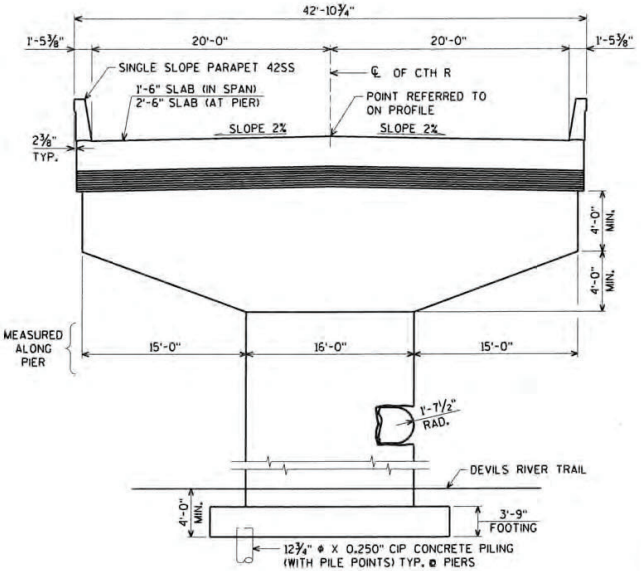
AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER IS TO BE APPLIED AS SHOWN IN DETAIL ON SHEET 3.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.



TYPICAL SECTION THRU BRIDGE

William C. Dreher SDR
01/08/20

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
1/7/2020

NO.	DATE	REVISION	BY
1	01/20	ADD PIPE UNDERDRAIN AT SLOPE PAVING	AYRES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-438

DRAWN BY CLS/CJM/JLB | PLANS CK'D. CBM

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

QUANTITIES, TYPICAL SECTION, & DESIGN DATA

SHEET 2 OF 23

60

8

8

$PRFNAME$
DGN NA

$DATE

PEN

3

Addendum No. 01
ID 4327-09-71
Revised Sheet 10
January 8, 2020

3

LANDSCAPING ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
44+80	-	45+90	CTH R	675	675	0.5	20	20	15
47+20	-	49+05	CTH R	1740	1740	1.1	50	50	40
UNDISTRIBUTED			ENTIRE PROJECT	485	485	0.3	15	15	10
TOTALS				2,900	2,900	1.9	85	85	65

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF
49+05	-	49+47	CTH R	200	400
50+53	-	53+00	CTH R	570	1,140
UNDISTRIBUTED				150	300
TOTALS				920	1,840

REMOVING CONCRETE SLOPE PAVING

STATION	TO	STATION	LOCATION	204.0175 SY
49+29	-	49+87	CTH R	164
50+17	-	50+70	CTH R	138
TOTALS				302

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	SIZE AND TYPE	LENGTH	203.0100 EACH
49+75	CTH R	18" RCP	100 FT	1
50+31	CTH R	18" RCP	100 FT	1
TOTAL				2

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CTH R	2	1
	2	1

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF
49+90	CTH R, RT	15
50+90	CTH R, RT	15
52+60	CTH R, RT	15
	UNDISTRIBUTED	15
TOTAL		60

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
49+50	CTH R, RT	3
50+20	CTH R, RT	3
50+85	CTH R, LT	3
	UNDISTRIBUTED	6
TOTAL		15

ROCK BAGS

STATION	LOCATION	628.7570 EACH	REMARKS
49+25	CTH R, RT	15	SILT FENCE RELIEF
49+50	CTH R, LT	15	DITCH CHECK
	UNDISTRIBUTED	15	
TOTAL		45	

REMOVING SIGNS & SUPPORTS

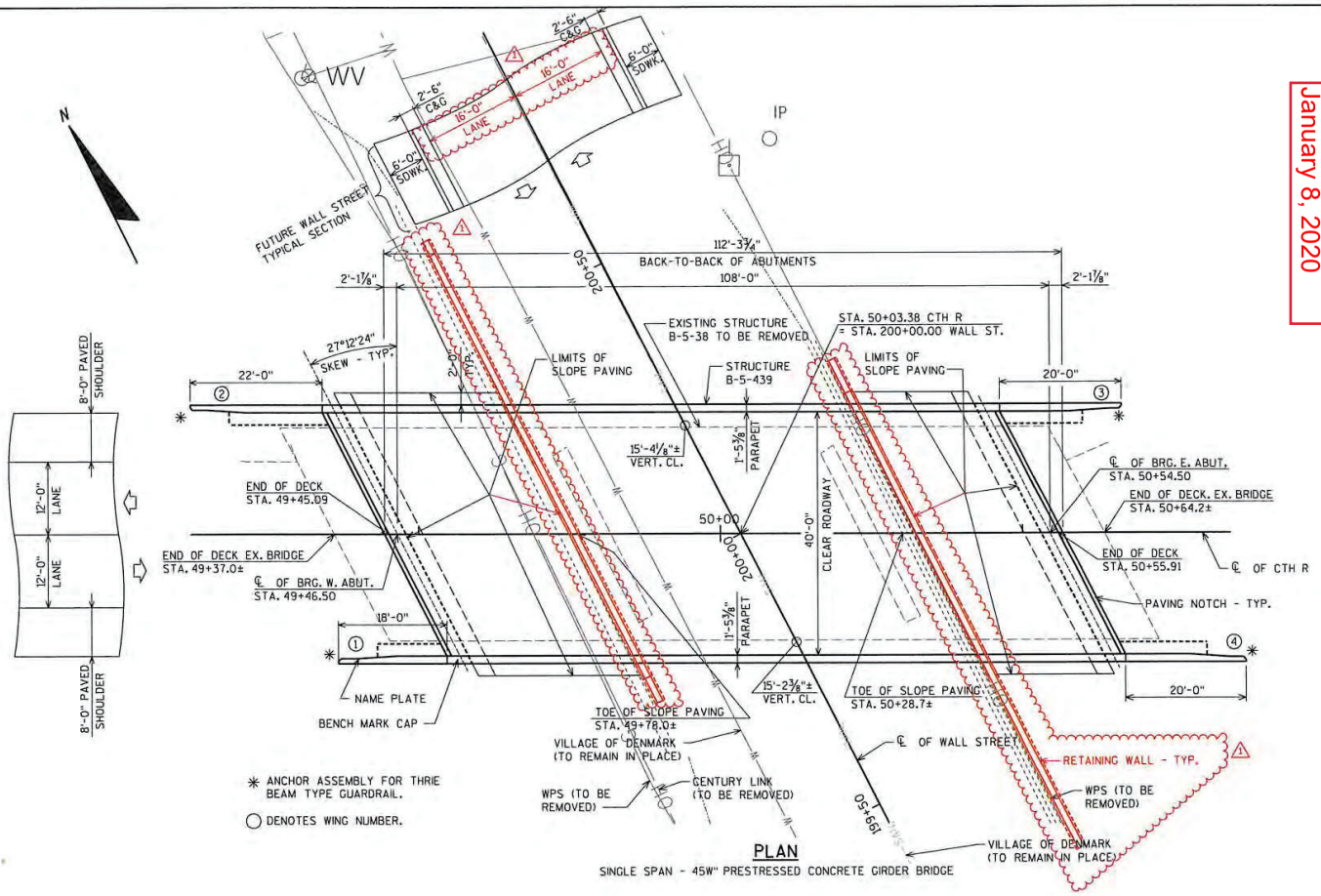
STATION	LOCATION	638.2602 SIGNS TYPE II EACH	638.3000 SMALL SIGN SUPPORTS EACH
50+75	CTH R, LT & RT	2	2
TOTALS		2	2

ALL ITEMS CATEGORY 0010 UNLESS SPECIFIED.

STATE PROJECT NUMBER
4327-09-71

Addendum No. 01
ID 4327-09-71
Revised Sheet 69
January 8, 2020

LIST OF DRAWINGS

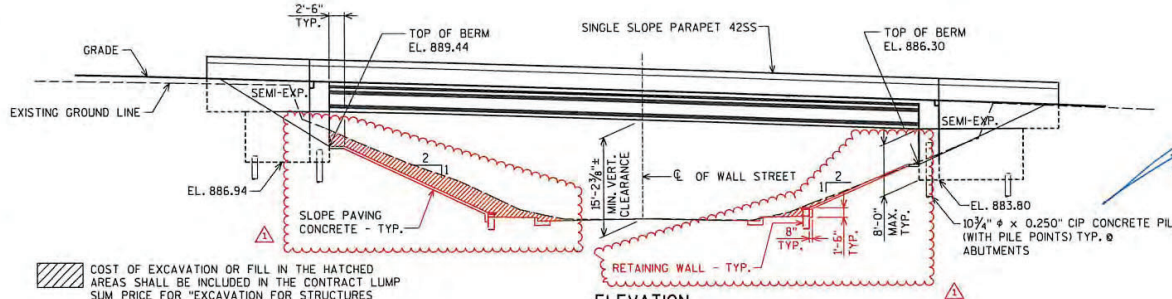


PLAN

SINGLE SPAN - 45W" PRESTRESSED CONCRETE GIRDER BRIDGE

FOR TYPICAL SECTION AND DESIGN DATA SEE SHEET 2

William C. Dreher SDR
01/08/20



COST OF EXCAVATION OR FILL IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "EXCAVATION FOR STRUCTURES BRIDGES B-5-439".

ELEVATION

(NORMAL TO ℄ OF WALL STREET)

WISCONSIN PROFESSIONAL ENGINEER
CHRISTOPHER B. McMAHON
E-20454
EAU CLAIRE WI
1/2/20

NO.	DATE	REVISION	BY
1	01/20	ADD RETAINING WALLS	AYRES

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ DATE _____
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-5-439

CTH R OVER WALL STREET

COUNTY BROWN | ~~TOWN/CITY/~~ VILLAGE DENMARK

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AEB	ZSS	JLB/CLS	CBM

GENERAL PLAN

SHEET 1 OF 23

69

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

$PRFNAME$
DGN NA

$DATE

$PENS

8

8

STATE PROJECT NUMBER

4327-09-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 50+00.00	LS	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-5-439	LS	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	410	400	-----	810
502.0100	CONCRETE MASONRY BRIDGES	CY	83	82	207	372
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	495	495
502.3210	PIGMENTED SURFACE SEALER	SY	20	20	115	155
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	-----	-----	763	763
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	4,620	4,610	-----	9,230
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	5,030	4,970	31,510	41,510
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	7	7	-----	14
506.4000	STEEL DIAPHRAGMS B-5-439	EACH	-----	-----	12	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14	14	-----	28
550.0500	PILE POINTS	EACH	17	17	-----	34
550.2104	PILING CIP CONCRETE 10¾X 0.25-INCH	LF	~~1,105~~	~~1,105~~	-----	2,210
604.0400	SLOPE PAVING CONCRETE	SY	175	~~125~~ 140	-----	300 ~~315~~
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	~~220~~ 100	~~220~~ 100	-----	440 ~~200~~
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	2	-----	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	50	-----	100
SPV.0105.02	SUPERSTRUCTURE ¾" V-DRIP EDGE STRUCTURE B-5-439	LS	-----	-----	-----	1
	NON-BID ITEMS					
	FILLER	SIZE	-----	-----	-----	½" & ¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-5-439" SHALL BE THE EXISTING GROUND LINE.

THE EXISTING STRUCTURE, B-5-38, TO BE REMOVED, IS A 127-FOOT LONG, THREE SPAN, CONCRETE HAUNCHED SLAB BRIDGE WITH A CLEAR ROADWAY WIDTH OF 30-FEET, ON CONCRETE SILL-TYPE ABUTMENTS AND CONCRETE MULTI-COLUMNED PIERS.

AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

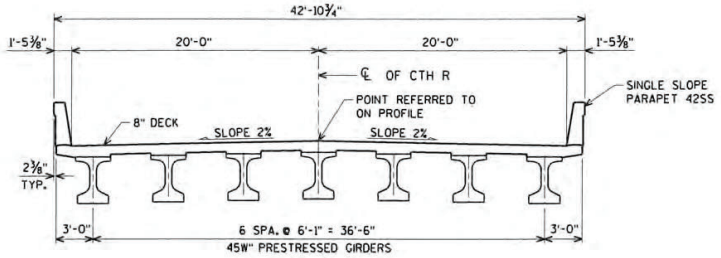
PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER IS TO BE APPLIED AS SHOWN IN DETAIL ON SHEET 3.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.



TYPICAL SECTION THRU BRIDGE

Addendum No. 01
ID 4327-09-71
Revised Sheet 70
January 8, 2020

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.14
OPERATING RATING FACTOR: 1.95
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 #/S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY { SUPERSTRUCTURE ____ f'_c = 4,000 p.s.i.
ALL OTHER ____ f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ____ f_y = 60,000 p.s.i.

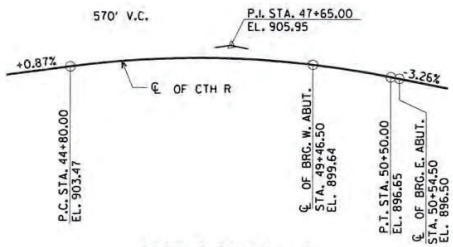
45W" PRESTRESSED GIRDER
CONCRETE MASONRY ____ f'_c = 8,000 p.s.i.
STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF ____ = 270,000 p.s.i.

FOUNDATION DATA:

WEST ABUTMENT TO BE SUPPORTED ON 10¾" Φ x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 65'-0".

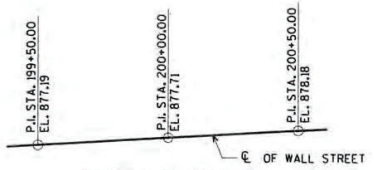
EAST ABUTMENT TO BE SUPPORTED ON 10¾" Φ x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 65'-0".

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.



PROFILE GRADE LINE
(CTH R)

BENCH MARK:
ALUM. CAP ON NE WW
STA. 50+52, 16.0 FT. LT.
EL. 896.78



PROFILE GRADE LINE
(WALL STREET)

TRAFFIC DATA:

CTH R
A.A.D.T. = 3,500 (2019)
A.A.D.T. = 4,300 (2039)
R.D.S. = 50 M.P.H.

WALL STREET
A.A.D.T. = 720 (2019)
A.A.D.T. = 820 (2039)
R.D.S. = 30 M.P.H.

WISCONSIN
CHRISTOPHER B. McMAHON
E-20454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
1/7/2020

William C. Dreher SDR
01/08/20

NO.	DATE	REVISION	BY
1	01/20	ADD RETAINING WALLS AND ADD PIPE UNDERDRAIN AT SLOPE PAVING	AYRES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-439

DRAWN BY JLB/CLS | PLANS CK'D. CBM

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

QUANTITIES, TYPICAL SECTION, & DESIGN DATA

SHEET 2 OF 23

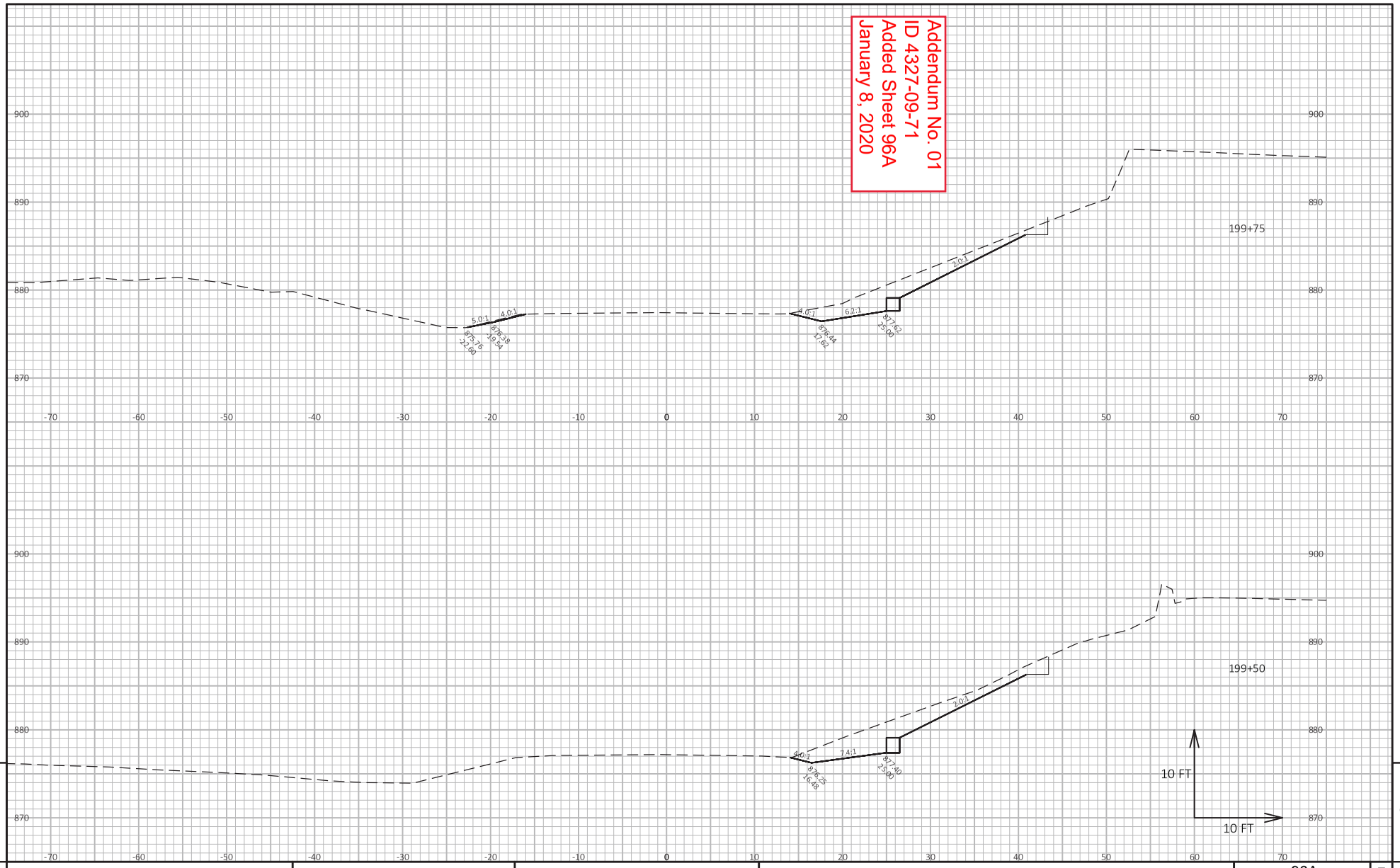
70

$PRF NAME$
DGN NA

$DATE$

PEN

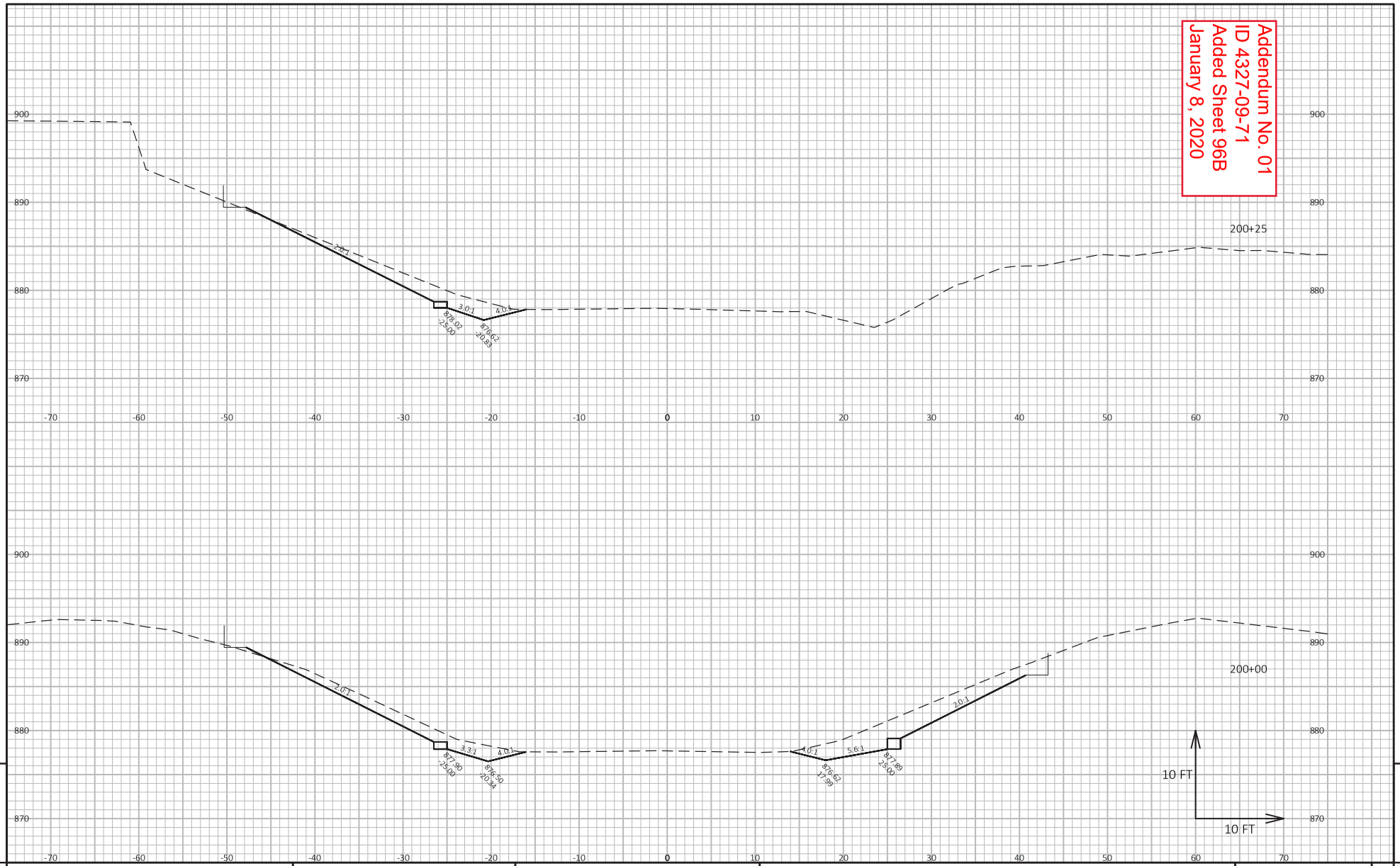
Addendum No. 01
ID 4327-09-71
Added Sheet 96A
January 8, 2020



PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	CROSS SECTIONS: WALL ST	SHEET 96A	E

FILE NAME : V:\TRANS-GB\450444 CTH R (WALL)\C3D\DESIGN\ALIPROFS\ALIPROF-WALLS (TEMP).DWG
LAYOUT NAME - Wall Temp - (1)
PLOT DATE : 1/2/2020 3:51 PM
PLOT BY : SCHAITEL, RYAN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Addendum No. 01
ID 4327-09-71
Added Sheet 96B
January 8, 2020



9

9

PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	CROSS SECTIONS: WALL ST	SHEET 96B	E

FILE NAME : V:\TRANS-GB\450444 CTH R (WALL)\C3D\DESIGN\ALIPROFS\ALIPROF-WALLS (TEMP).DWG
LAYOUT NAME - Wall Temp - (2)

PLOT DATE : 1/2/2020 3:51 PM PLOT BY : SCHAITEL, RYAN PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Addendum No. 01
ID 4327-09-71
Added Sheet 96C
January 8, 2020

PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	CROSS SECTIONS: WALL ST	SHEET 96C	E

FILE NAME : V:\TRANS-GB\450444 CTH R (WALL)\C3D\DESIGN\ALIPROFS\ALIPROF-WALLS (TEMP).DWG
LAYOUT NAME - Wall Temp - (3)
PLOT DATE : 1/2/2020 3:51 PM
PLOT BY : SCHAITEL, RYAN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	203.0200 Removing Old Structure (station) 01. 46+54.89	LS	LUMP SUM	_____.____
0004	203.0200 Removing Old Structure (station) 02. 50+00	LS	LUMP SUM	_____.____
0006	204.0100 Removing Pavement	1,600.000 SY	_____.____	_____.____
0008	204.0165 Removing Guardrail	888.000 LF	_____.____	_____.____
0010	205.0100 Excavation Common	1,269.000 CY	_____.____	_____.____
0012	206.1000 Excavation for Structures Bridges (structure) 01. B-5-438	LS	LUMP SUM	_____.____
0014	206.1000 Excavation for Structures Bridges (structure) 02. B-5-439	LS	LUMP SUM	_____.____
0016	208.0100 Borrow	1,460.000 CY	_____.____	_____.____
0018	210.1500 Backfill Structure Type A	1,370.000 TON	_____.____	_____.____
0020	213.0100 Finishing Roadway (project) 01. 4327-08-71	1.000 EACH	_____.____	_____.____
0022	213.0100 Finishing Roadway (project) 02. 4327-09-71	1.000 EACH	_____.____	_____.____
0024	305.0110 Base Aggregate Dense 3/4-Inch	100.000 TON	_____.____	_____.____
0026	305.0120 Base Aggregate Dense 1 1/4-Inch	1,065.000 TON	_____.____	_____.____
0028	311.0110 Breaker Run	1,905.000 TON	_____.____	_____.____
0030	415.0070 Concrete Pavement 7-Inch	80.000 SY	_____.____	_____.____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	415.0410 Concrete Pavement Approach Slab	240.000 SY	_____.____	_____.____
0034	416.1010 Concrete Surface Drains	25.000 CY	_____.____	_____.____
0036	502.0100 Concrete Masonry Bridges	1,126.000 CY	_____.____	_____.____
0038	502.3200 Protective Surface Treatment	1,070.000 SY	_____.____	_____.____
0040	502.3210 Pigmented Surface Sealer	315.000 SY	_____.____	_____.____
0042	503.0146 Prestressed Girder Type I 45W-Inch	763.000 LF	_____.____	_____.____
0044	505.0400 Bar Steel Reinforcement HS Structures	34,080.000 LB	_____.____	_____.____
0046	505.0600 Bar Steel Reinforcement HS Coated Structures	157,330.000 LB	_____.____	_____.____
0048	506.2605 Bearing Pads Elastomeric Non-Laminated	14.000 EACH	_____.____	_____.____
0050	506.4000 Steel Diaphragms (structure) 01. B-5-439	12.000 EACH	_____.____	_____.____
0052	516.0500 Rubberized Membrane Waterproofing	52.000 SY	_____.____	_____.____
0054	550.0500 Pile Points	134.000 EACH	_____.____	_____.____
0056	550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch	2,210.000 LF	_____.____	_____.____
0058	550.2124 Piling CIP Concrete 12 3/4 X 0.25-Inch	5,250.000 LF	_____.____	_____.____
0060	604.0400 Slope Paving Concrete	815.000 SY	_____.____	_____.____
0062	606.0200 Riprap Medium	24.000 CY	_____.____	_____.____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	612.0406 Pipe Underdrain Wrapped 6-Inch	860.000 LF	_____.____	_____.____
0066	614.0150 Anchor Assemblies for Steel Plate Beam Guard	8.000 EACH	_____.____	_____.____
0068	614.2300 MGS Guardrail 3	196.500 LF	_____.____	_____.____
0070	614.2330 MGS Guardrail 3 K	356.000 LF	_____.____	_____.____
0072	614.2500 MGS Thrie Beam Transition	316.000 LF	_____.____	_____.____
0074	614.2610 MGS Guardrail Terminal EAT	1.000 EACH	_____.____	_____.____
0076	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4327-08-71	1.000 EACH	_____.____	_____.____
0078	618.0100 Maintenance And Repair of Haul Roads (project) 02. 4327-09-71	1.000 EACH	_____.____	_____.____
0080	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0082	624.0100 Water	14.000 MGAL	_____.____	_____.____
0084	625.0100 Topsoil	5,180.000 SY	_____.____	_____.____
0086	628.1504 Silt Fence	2,020.000 LF	_____.____	_____.____
0088	628.1520 Silt Fence Maintenance	4,040.000 LF	_____.____	_____.____
0090	628.1905 Mobilizations Erosion Control	5.000 EACH	_____.____	_____.____
0092	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.____	_____.____
0094	628.2004 Erosion Mat Class I Type B	5,180.000 SY	_____.____	_____.____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0096	628.7504 Temporary Ditch Checks	135.000 LF	_____.____	_____.____
0098	628.7555 Culvert Pipe Checks	15.000 EACH	_____.____	_____.____
0100	628.7570 Rock Bags	120.000 EACH	_____.____	_____.____
0102	629.0210 Fertilizer Type B	3.300 CWT	_____.____	_____.____
0104	630.0120 Seeding Mixture No. 20	145.000 LB	_____.____	_____.____
0106	630.0200 Seeding Temporary	145.000 LB	_____.____	_____.____
0108	630.0500 Seed Water	120.000 MGAL	_____.____	_____.____
0110	638.2602 Removing Signs Type II	4.000 EACH	_____.____	_____.____
0112	638.3000 Removing Small Sign Supports	4.000 EACH	_____.____	_____.____
0114	642.5001 Field Office Type B	1.000 EACH	_____.____	_____.____
0116	643.0420 Traffic Control Barricades Type III	4,080.000 DAY	_____.____	_____.____
0118	643.0705 Traffic Control Warning Lights Type A	6,240.000 DAY	_____.____	_____.____
0120	643.0900 Traffic Control Signs	11,340.000 DAY	_____.____	_____.____
0122	643.0920 Traffic Control Covering Signs Type II	2.000 EACH	_____.____	_____.____
0124	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0126	645.0111 Geotextile Type DF Schedule A	200.000 SY	_____.____	_____.____
0128	645.0120 Geotextile Type HR	80.000 SY	_____.____	_____.____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0130	646.1020 Marking Line Epoxy 4-Inch	3,095.000 LF	_____._____	_____._____
0132	650.4500 Construction Staking Subgrade	576.000 LF	_____._____	_____._____
0134	650.5000 Construction Staking Base	576.000 LF	_____._____	_____._____
0136	650.6500 Construction Staking Structure Layout (structure) 01. B-5-438	LS	LUMP SUM	_____._____
0138	650.6500 Construction Staking Structure Layout (structure) 02. B-5-439	LS	LUMP SUM	_____._____
0140	650.9910 Construction Staking Supplemental Control (project) 01. 4327-08-71	LS	LUMP SUM	_____._____
0142	650.9910 Construction Staking Supplemental Control (project) 02. 4327-09-71	LS	LUMP SUM	_____._____
0144	650.9920 Construction Staking Slope Stakes	576.000 LF	_____._____	_____._____
0146	690.0250 Sawing Concrete	60.000 LF	_____._____	_____._____
0148	715.0415 Incentive Strength Concrete Pavement	160.000 DOL	1.00000	160.00
0150	715.0502 Incentive Strength Concrete Structures	7,212.000 DOL	1.00000	7,212.00
0152	999.1000.S Seismograph 01. 4327-08-71	LS	LUMP SUM	_____._____
0154	999.1000.S Seismograph 02. 4327-09-71	LS	LUMP SUM	_____._____
0156	SPV.0090 Special 01. Removing Existing Timber Piling	560.000 LF	_____._____	_____._____
0158	SPV.0105 Special 01. Superstructure 3/4" V-Drip Edge Structure B-5-438	LS	LUMP SUM	_____._____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	SPV.0105 Special 02. Superstructure 3/4" V-Drip Edge Structure B-5-439	LS	LUMP SUM	_____._____
0162	SPV.0195 Special 01. Traffic Bond Limestone 3/8-Inch	50.000 TON	_____._____	_____._____
0164	203.0100 Removing Small Pipe Culverts	2.000 EACH	_____._____	_____._____
0166	204.0175 Removing Concrete Slope Paving	302.000 SY	_____._____	_____._____
	Section: 0001		Total:	_____._____
			Total Bid:	_____._____

Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

January 9, 2020

NOTICE TO ALL CONTRACTORS:

Proposal #13:	**4327-08-71**	**4327-09-71**
	V Denmark, CTH R	**V Denmark, CTH R**
	Devils River Trail Bridge B-05-0438	**Wall Street Bridge B-05-0439**
	CTH R	**CTH R**
	Brown County	**Brown County**

Letting of January 14, 2020

This is Addendum No. 02, which provides for the following:

Special Provisions:

Added Special Provisions	
Article No.	Description
17	Wall Modular Block Gravity Landscape West Abutment, Item SPV.0165.01; Wall Modular Block Gravity Landscape East Abutment, Item SPV.0165.02.

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
612.0406	Pipe Underdrain Wrapped 6-Inch	LF	860	215	1,075

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0165.01	Wall Modular Block Gravity West Abutment	SF	0	235	235
SPV.0165.02	Wall Modular Block Gravity East Abutment	SF	0	305	305

Plan Sheets:

Added Plan Sheets – 4327-09-71	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
4A	Retaining Wall Layout – West Abutment (Added retaining walls for future urban typical section for Wall Street)
4B	Retaining Wall Layout – East Abutment (Added retaining walls for future urban typical section for Wall Street)
4C	Retaining Wall Details – Design Data (Added retaining walls for future urban typical section for Wall Street)
4D	Retaining Wall Details – Typical Sections (Added retaining walls for future urban typical section for Wall Street)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

4327-08-71 & 4327-09-71

January 9, 2020

Special Provisions

17. Wall Modular Block Gravity Landscape West Abutment, Item SPV.0165.01; Wall Modular Block Gravity Landscape East Abutment, Item SPV.0165.02.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system in accordance to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Gravity Landscape Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared in accordance to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

It is the responsibility of the Contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the Department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined in accordance with Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls in accordance to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf in accordance with Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the Contractor shall consider the internal and compound stability of the wall mass in accordance with AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses, but shall consist of only a single block. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed in accordance with AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete or base aggregate leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec.

501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured in accordance with ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02" and longer than 25% of the nominal height of the unit, chips larger than 1", have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either;

- Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.
- A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

B.3.1.1 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max.[3]	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1]	1.0 max.[2][3] 1.5 max.[2][3]	N/A

[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

[3] The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the

sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number and lot size

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete. Use Base Aggregate Dense 1 1/4-Inch conforming to standard spec 305.

The minimum width of the concrete leveling pad shall be as wide as the proposed blocks plus 6-inches, with 6-inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

The minimum width of the base aggregate leveling pad shall be as wide as the proposed blocks plus 12-inches, and the modular blocks centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

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

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in 209.2.2 of the standard spec. The Contractor may substitute Type A Backfill for Granular Backfill Grade 1.

C Construction

C.1 Excavation and Backfill

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

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

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

C.2 Compaction

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

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

C.3 Wall Components

C.3.1 General

Erect wall facing units and other associated elements according to the wall manufacturer's construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers in accordance with the manufacturer's directions.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow the concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad.

C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan.

D Measurement
The department will measure Wall Modular Block Gravity Landscape by the square foot acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Modular Block Gravity Landscape West Abutment	SF
SPV.0165.02	Wall Modular Block Gravity Landscape East Abutment	SF

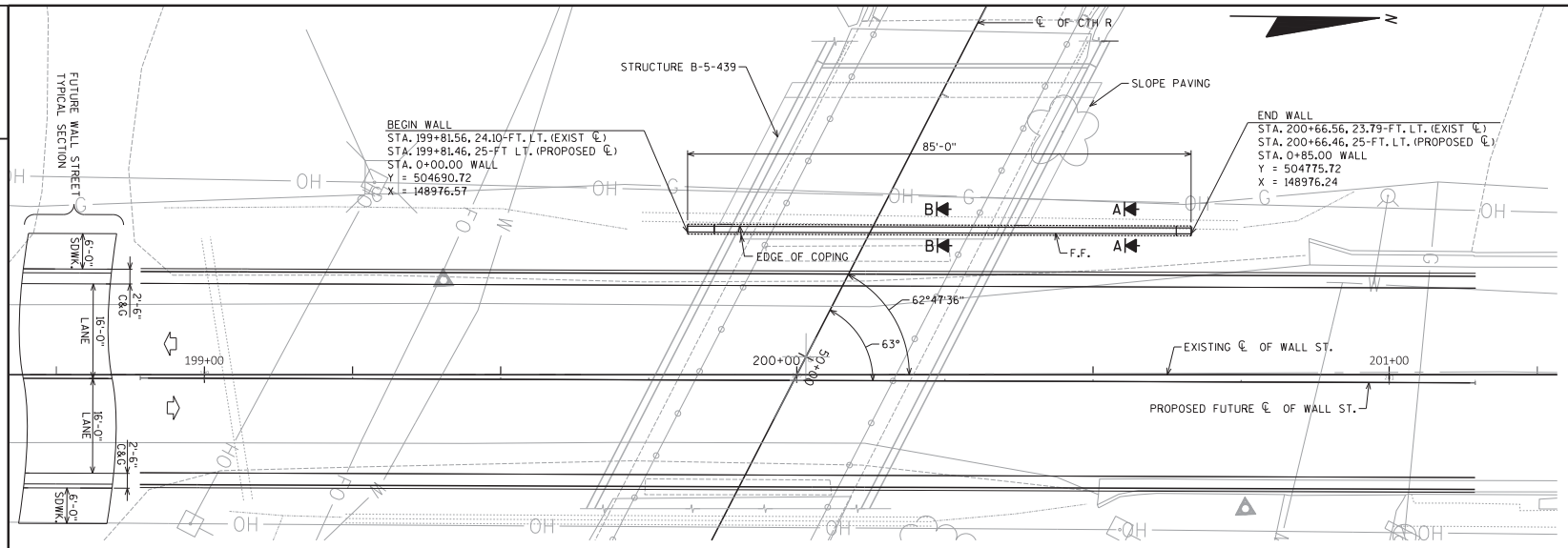
Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for railings, and other items above the wall cap or coping.

Schedule of Items
Attached, dated January 9, 2020, are the revised Schedule of Items Pages 3 and 6.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Project 4327-09-71: Added: 4A, 4B, 4C and 4D

END OF ADDENDUM



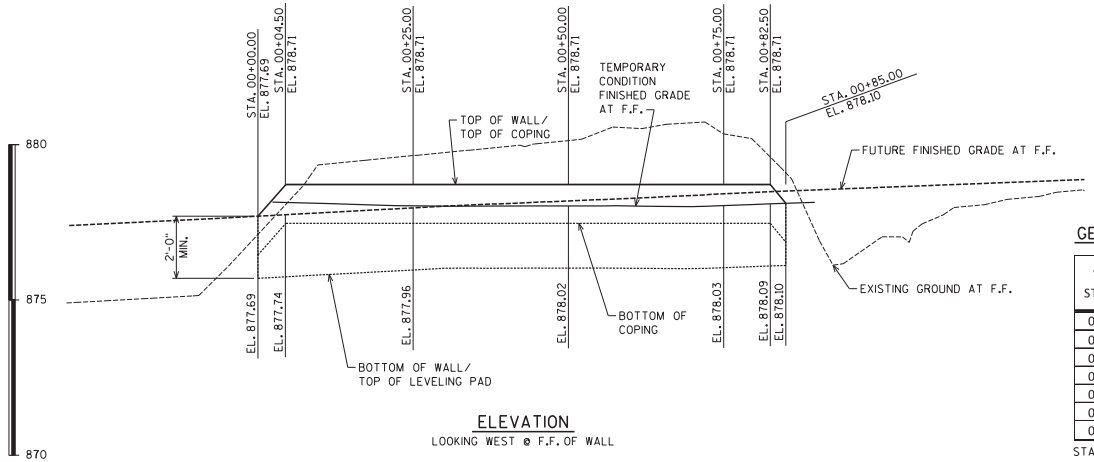
PLAN

ALL STATIONS & DIMENSIONS ARE MEASURED ALONG FRONT FACE

FOR SECTIONS A & B, SEE SHEET "RETAINING WALL DETAILS - TYPICAL SECTIONS".

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	105 LF
SPV.0165.01	WALL MODULAR BLOCK GRAVITY LANDSCAPE WEST ABUTMENT	235 SF



ELEVATION

LOOKING WEST @ F.F. OF WALL

GEOMETRY TABLE

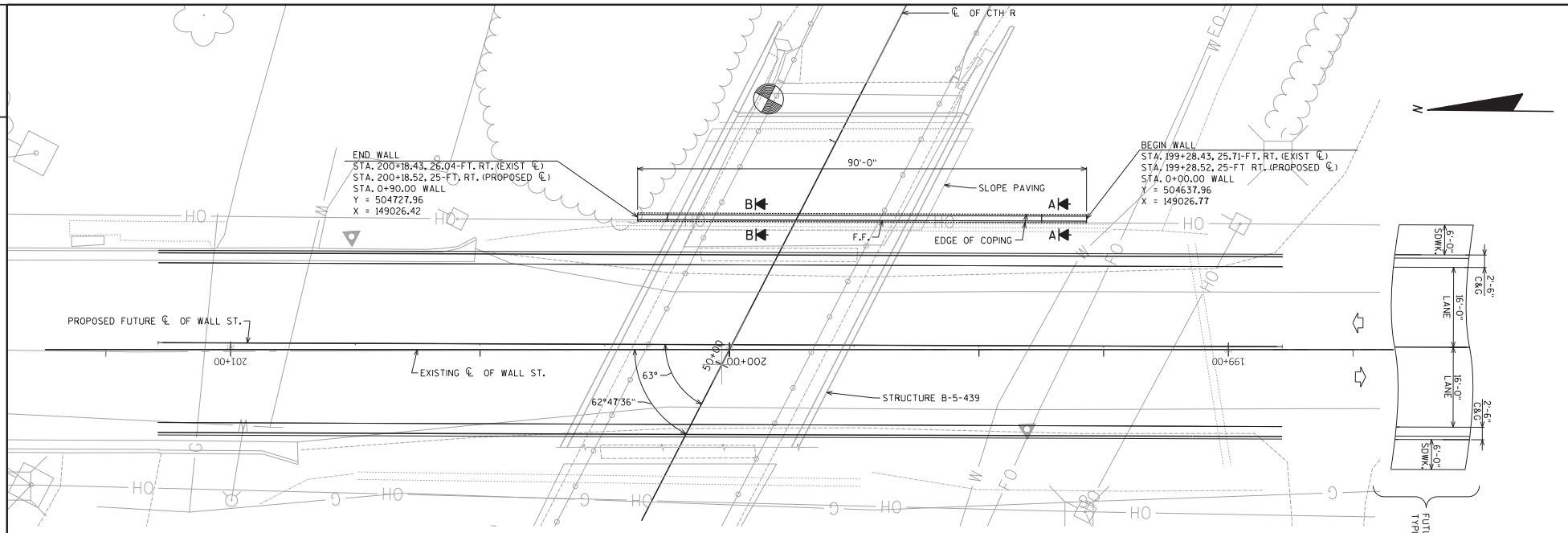
WALL STATION	ROAD STATION	OFFSET TO FF OF WALL	TOP OF WALL EL.	FINISHED GRADE EL.
0+00.00	199+81.46	25'	877.69	877.69
0+04.50	199+85.96	25'	878.71	877.74
0+25.00	199+98.96	25'	878.71	877.96
0+50.00	200+23.96	25'	878.71	878.02
0+75.00	200+48.96	25'	878.71	878.03
0+82.50	200+63.96	25'	878.71	878.09
0+85.00	200+66.46	25'	878.10	878.10

STATIONING BASED ON PROPOSED ℄

F.F. DENOTES FRONT FACE.

Addendum No. 02
ID 4327-09-71
Added Sheet 4A
January 9, 2020

PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	RETAINING WALL LAYOUT - WEST ABUTMENT	SHEET 4A	E



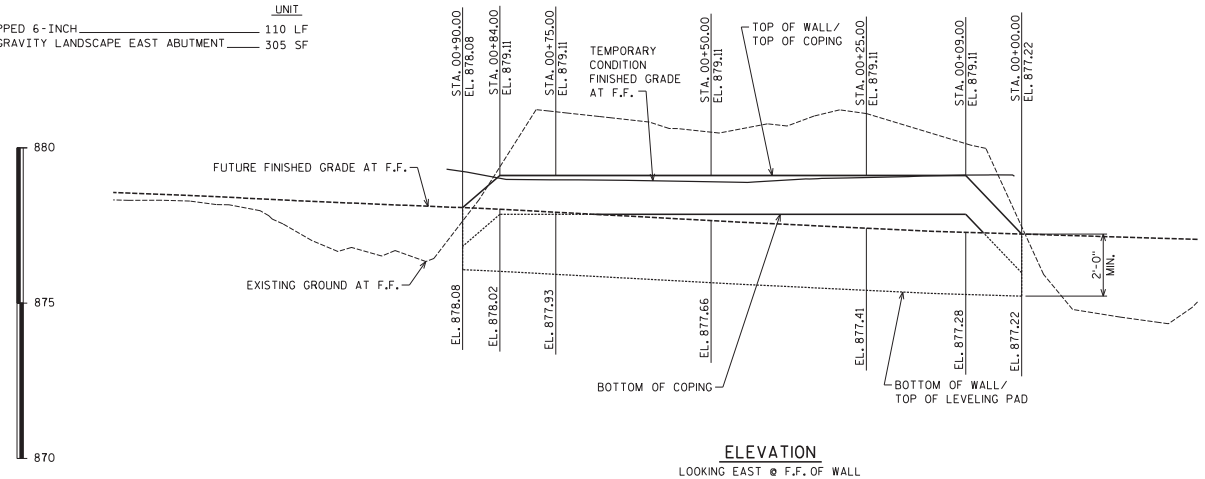
PLAN

ALL STATIONS & DIMENSIONS ARE MEASURED ALONG FRONT FACE

FOR SECTIONS A & B, SEE SHEET "RETAINING WALL DETAILS - TYPICAL SECTIONS".

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	110 LF
SPV.0165.02	WALL MODULAR BLOCK GRAVITY LANDSCAPE EAST ABUTMENT	305 SF



ELEVATION

LOOKING EAST @ F.F. OF WALL

GEOMETRY TABLE

WALL STATION	ROAD STATION	OFFSET TO FF OF WALL	TOP OF WALL EL.	FINISHED GRADE EL.
0+00.00	199+28.52	25'	877.22	877.22
0+09.00	199+37.52	25'	879.11	877.28
0+25.00	199+48.52	25'	879.11	877.41
0+50.00	199+73.52	25'	879.11	877.66
0+75.00	199+98.52	25'	879.11	877.93
0+84.00	200+12.52	25'	879.11	878.02
0+90.00	200+18.52	25'	878.08	878.08

STATIONING BASED ON PROPOSED ℄

F.F. DENOTES FRONT FACE.

Addendum No. 02
ID 4327-09-71
Added Sheet 4B
January 9, 2020

PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	RETAINING WALL LAYOUT - EAST ABUTMENT	SHEET 4B	E

GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK GRAVITY" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-0" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

MODULAR BLOCKS SHALL HAVE A 'CUT STONE' APPREARNCE WITH SANDSTONE COLORATION.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THE LAYOUT SHEETS.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 psf.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (COPING) ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

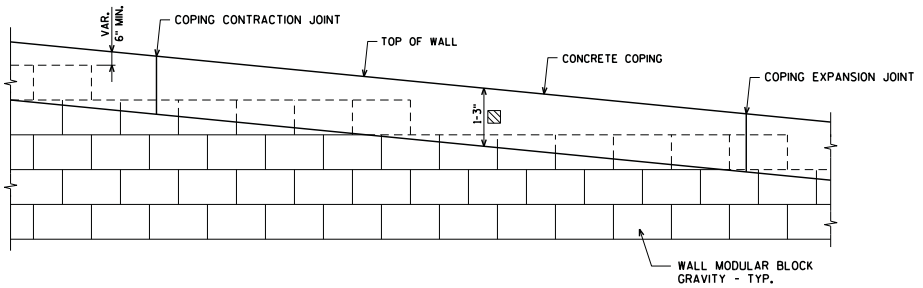
WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS	
LOCATION	W. ABUT.	E. ABUT.
WALL HEIGHT (FEET)	2.97	3.83
EXPOSED WALL HEIGHT (FEET)	0.97	1.83
MINIMUM LENGTH OF REINFORCEMENT (FEET) ■	---	---
WALL STATION	0+04.50	0+09.00
BORING USED	1-18	2-18
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	1.03	1.00
ECCENTRICITY (CDR>1.0)	1.28	1.00
OVERALL STABILITY (CDR>1.0) ☆	2.30	2.15
BEARING RESISTANCE (CDR>1.0)	6.30	2.86
FACTORED BEARING RESISTANCE (psf)	4,105	3,485

NOTES

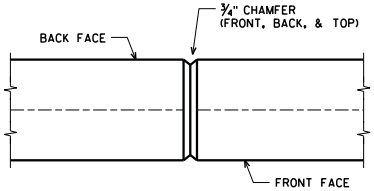
■ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.



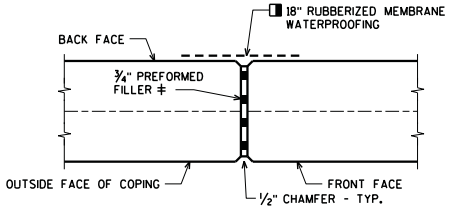
RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.

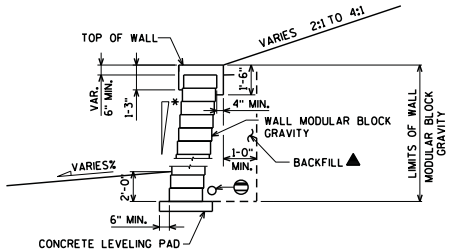
SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	34°	0
RETAINED SOIL ⊛	120	30°	0

⊛ DESIGN WALL FOR THESE VALUES

Addendum No. 02
ID 4327-09-71
Added Sheet 4C
January 9, 2020

PROJECT NO. 4327-09-71	HWY: CTH R	COUNTY: BROWN	RETAINING WALL DETAILS - DESIGN DATA	SHEET 4C	E



SECTION A-A

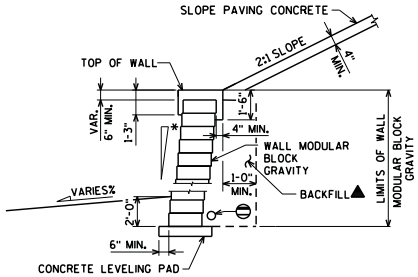
STA. 199+81.46 TO STA. 199+86.82 (PROPOSED ℄) - WEST ABUTMENT
STA. 200+39.01 TO STA. 200+66.46 (PROPOSED ℄) - WEST ABUTMENT
STA. 199+28.52 TO STA. 199+59.99 (PROPOSED ℄) - EAST ABUTMENT
STA. 200+12.17 TO STA. 200+18.52 (PROPOSED ℄) - EAST ABUTMENT

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

FOR LOCATION OF SECTION A, SEE SHEETS :
"RETAINING WALL LAYOUT - WEST ABUTMENT"
& "RETAINING WALL LAYOUT - EAST ABUTMENT"



SECTION B-B

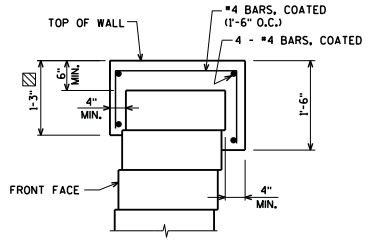
STA. 199+86.82 TO STA. 200+39.01 (PROPOSED ℄) - WEST ABUTMENT
STA. 199+59.99 TO STA. 200+12.17 (PROPOSED ℄) - EAST ABUTMENT

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

FOR LOCATION OF SECTION A, SEE SHEETS :
"RETAINING WALL LAYOUT - WEST ABUTMENT"
& "RETAINING WALL LAYOUT - EAST ABUTMENT"

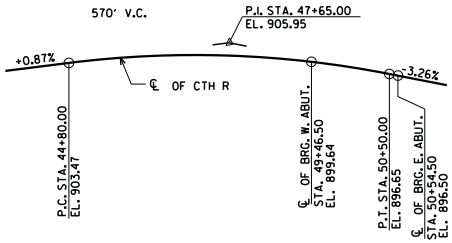


COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES AT COPING.

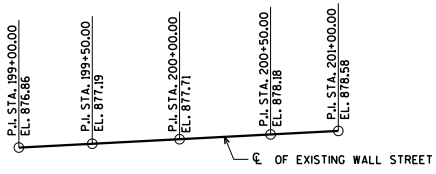
MAINTAIN 2" MINIMUM COVER ON ALL REBAR.

Addendum No. 02
ID 4327-09-71
Added Sheet 4D
January 9, 2020

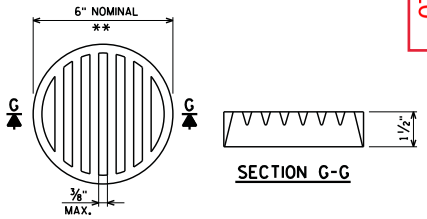


PROFILE GRADE LINE
(CTH R)

BENCH MARK:
ALUM. CAP ON NE WW
STA. 50+52, 16.0 FT. LT.
EL. 896.78



PROFILE GRADE LINE
(EXISTING WALL STREET)



SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

PROJECT NO: 4327-09-71	HWY: CTH R	COUNTY: BROWN	RETAINING WALL DETAILS - TYPICAL SECTIONS	SHEET 4D	E

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	612.0406 Pipe Underdrain Wrapped 6-Inch	1,075.000 LF	_____.____	_____.____
0066	614.0150 Anchor Assemblies for Steel Plate Beam Guard	8.000 EACH	_____.____	_____.____
0068	614.2300 MGS Guardrail 3	196.500 LF	_____.____	_____.____
0070	614.2330 MGS Guardrail 3 K	356.000 LF	_____.____	_____.____
0072	614.2500 MGS Thrie Beam Transition	316.000 LF	_____.____	_____.____
0074	614.2610 MGS Guardrail Terminal EAT	1.000 EACH	_____.____	_____.____
0076	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4327-08-71	1.000 EACH	_____.____	_____.____
0078	618.0100 Maintenance And Repair of Haul Roads (project) 02. 4327-09-71	1.000 EACH	_____.____	_____.____
0080	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0082	624.0100 Water	14.000 MGAL	_____.____	_____.____
0084	625.0100 Topsoil	5,180.000 SY	_____.____	_____.____
0086	628.1504 Silt Fence	2,020.000 LF	_____.____	_____.____
0088	628.1520 Silt Fence Maintenance	4,040.000 LF	_____.____	_____.____
0090	628.1905 Mobilizations Erosion Control	5.000 EACH	_____.____	_____.____
0092	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.____	_____.____
0094	628.2004 Erosion Mat Class I Type B	5,180.000 SY	_____.____	_____.____

Proposal ID: 20200114013 Project(s): 4327-08-71, 4327-09-71

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	SPV.0105 Special 02. Superstructure 3/4" V-Drip Edge Structure B-5-439	LS	LUMP SUM	_____.____
0162	SPV.0195 Special 01. Traffic Bond Limestone 3/8-Inch	50.000 TON	_____.____	_____.____
0164	203.0100 Removing Small Pipe Culverts	2.000 EACH	_____.____	_____.____
0166	204.0175 Removing Concrete Slope Paving	302.000 SY	_____.____	_____.____
0168	SPV.0165 Special 01. Wall Modular Block Gravity Landscape West Abutment	235.000 SF	_____.____	_____.____
0170	SPV.0165 Special 02. Wall Modular Block Gravity Landscape East Abutment	305.000 SF	_____.____	_____.____
	Section: 0001		Total:	_____.____

Total Bid: _____.____