HIGHWAY WORK PROPOSAL

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

Proposal Number: 025

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Door	4140-19-73	N/A	Gibraltar - Sister Bay; Bluff Ln - Gibraltar Road	STH 042

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: May 14, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code SAMPLE NOT FOR BIDDING PURPOSES
Contract Completion Time June 26, 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

For Department Use Only

Type of Work:
Grading, Base, Milling, Asphalt Pavement, Culvert Pipe, Storm Sewer, Curb and Gutter, Sidewalk, Concrete Driveway, Traffic Signals, Street Lighting, Signs, Pavement Markings, Fence, Modular Block Wall

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

Article	Description	Page #
1.	General	3
2.	Scope of Work.	3
3.	Prosecution and Progress.	3
4.	Traffic.	6
5.	Holiday Work Restrictions.	12
6.	Utilities.	12
7.	Work by Others.	14
8.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.	14
9.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.	15
10.	Environmental Protection, Dewatering.	15
11.	Environmental Protection, By-Pass Pumping	15
12.	Erosion Control.	15
13.	Coordination with Businesses and Residents.	16
14.	Notice to Contractor – Heavy Equipment Storage during Winter Shutdown.	16
15.	Notice to Contractor - Snow Removal.	16
16.	Notice to Contractor – Soil Conditions.	16
17.	Notice to Contractor – High Ground Water.	16
18.	Notice to Contractor – Work Adjacent to Historical Property – 4148 Main St Fish Creek.	16
19.	Notice to Contractor – Work Adjacent to Property 3976 Main Street, Fish Creek.	16
20.	Notice to Contractor – Driveways.	17
21.	Notice to Contractor – Karst Features.	17
22.	Notice to Contractor – Proposed Items within MSE Wall Reinforcing Zone Backfill.	17
23.	Survey Monument Coordination.	17
24.	Removing Concrete Sidewalk.	17
25.	Removing Advance Flasher Assemblies Type 1, Item 204.9001.S; Removing Advance Flasher Assemblies Type 2, Item 204.9002.S; Removing Flashing Beacon (STH 42 & Main St), Item SPV.0105.01.	17
26.	Removing Cables or Conduit, Item 204.9090.S.01.	18
27.	General Requirements for Blasting Rock	19
28.	Select Crushed Material, Item 312.0110.	21
29.	Asphaltic Base, Item 315.0100.	21
30.	Coloring Concrete Custom, Item 405.0200.	21
31.	Protection of Concrete.	21
32.	QMP HMA Pavement Nuclear Density.	22
33.	Storm Sewer	25
34.	Adjusting Manhole Covers.	25
35.	Cover Plates Temporary, Item 611.8120.S.	25
36.	Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.01	26

37. Fence Safety, Item 616.0700.S. 27
38. Traffic Control. 27
39. Temporary Portable Rumble Strips, Item 643.0310.S. 28
40. Temporary Pedestrian Asphalt, Item 644.1410; Temporary Pedestrian Surface Plate, Item 644.1430.S. 29
41. Temporary Curb Ramp, Item 644.1601.S. 29
42. Temporary Pedestrian Safety Fence, Item 644.1616.S. 30
43. Electrical Service for Meter Breaker Pedestal STH 42 & Main St, Item 656.0200.01. 31
44. Crack and Damage Survey, Item 999.1500.S. 31
45. Salvage Lighting Unit, Item SPV.0060.01. 32
46. Reconnecting Existing Storm Sewer Laterals, Item SPV.0060.02. 33
47. Remove Lighting Unit, Item SPV.0060.03. 33
48. Install Lighting Unit Type Special, Item SPV.0060.04. 34
49. Lighting Control Cabinet Base Type Special, Item SPV.0060.05. 35
50. Concrete Bases Type Special, Item SPV.0060.06. 35
51. Trimming Trees, Item SPV.0060.07. 35
52. Pipe Inlet Structure, Item SPV.0060.08. 36
53. Manhole Special 8-FT, Item SPV.0060.09. 37
54. Removing Landscape Rocks, Item SPV.0060.10. 37
55. Lighting Control Cabinet Type Special, Item SPV.0060.11. 37
56. Concrete Base Spread Footing, Item SPV.0060.12. 38
57. Street Sweeping, Item SPV.0075.01. 39
58. Fence Chain Link Polymer Coated 4-Ft., Item SPV.0090.01. 39
59. Concrete Cold Weather Covering Curb and Gutter, Plastic 1 Layer, Item SPV.0090.02; Concrete Cold Weather Covering Curb and Gutter, Plastic 2 Layers, Item SPV.0090.03; Concrete Cold Weather Covering Curb and Gutter, Plastic/Hay/Plastic, Item SPV.0090.04; Concrete Cold Weather Covering Sidewalk, Plastic 1 Layer, Item SPV.0165.04; Concrete Cold Weather Covering Sidewalk, Plastic 2 Layers, Item SPV.0165.05; Concrete Cold Weather Covering Sidewalk, Plastic/Hay/Plastic, Item SPV.0165.06. 42
60. Joint Ties, Item SPV.0090.05. 42
61. Wall Modular Block Mechanically Stabilized Earth (R-15-11), Item SPV.0165.01; Wall Modular Block Mechanically Stabilized Earth (R-15-12), Item SPV.0165.02. 43
62. Crosswalk Apron Pavers, SPV.0165.03. 53

1. General.

Perform the work under this construction contract for Project 4140-19-73, STH 42, Gibraltar to Sister Bay, Bluff Lane to Gibraltar Road, STH 42, Door 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, 2019 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 (20181119)

2. Scope of Work.

The work under this contract shall consist of milling asphaltic pavement, excavation common asphaltic pavement, storm sewer, sidewalk, driveways, lighting, signing, pavement marking 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.

The contract time for completion is based on an expedited schedule and may require extraordinary forces and equipment.

Do not begin work prior to October 15, 2019.

Take care in protecting all building faces and adjacent privately-owned structures from damage, dirt, undermining, and wet concrete. When doing the work near these items, put a shield (plywood, sheeting, etc.) up against the building to protect it. Take caution when excavating, boring, or drilling adjacent to privately owned structures to ensure undermining does not occur. The costs for this work is incidental to the contract. The contractor is responsible for returning any privately-owned structures and building faces to its original condition if any damage/undermining occurs, or any dirt or concrete is adhered to the structure face.

Winter and spring weather work, excavation of frozen ground, high ground water, dewatering during winter/spring months, and mitigation efforts for high water table elevations shall not be considered adverse weather delays to construction. Costs for dewatering is considered incidental to construction.

Anticipate cold weather, late fall and early spring HMA paving, installing ancillary concrete, retaining wall construction, and storm sewer work. Plan to heat aggregates and water for concrete mixes and that the heating of the aggregate and water are incidental to those concrete items. There will be no adverse weather delay for cold weather construction.

The department will not grant time extensions to the interim or completion dates for the following:

1. Severe weather as specified in standard spec 108.10.2.2.
2. Labor disputes that are not industry wide.
3. Delays in material deliveries.

Staging

Perform work as outlined in the following stages:

Stage 1 – October 15, 2019 to Winter Shutdown

Stage 1A - October 15, 2019 through October 20, 2019.

- Begin construction on Shore Road (Station 10+00-15+56 Shore Road) and Evergreen Rd. Construction activities include but are not limited to: removals, common excavation, storm sewer (EW 27 to MH 25), and lighting.
- Begin construction on R-15-11 and R-15-12.

Stage 1B - October 21, 2019 to noon October 25, 2019.

- Continue construction on Shore Road (Station 10+00-15+56 Shore Road) and Evergreen Rd. Construction activities include, but are not limited to: removals, common excavation, curb and gutter, and lighting.
- Continue construction of R-15-11 and R-15-12.
- Begin construction on STH 42 between Shore Road and CTH F (125+00 – 144+00 STH 42). Construction activities include but are not limited to: storm sewer (MH 25 – MH 22), curb and gutter, sidewalk, R-15-11, R-15-12, and lighting.
- Install asphalt base and surface for disturbed roadway trenches.

Provision 1-1:

- Complete all work necessary to comply with Traffic Staging article “Fish Creek’s Jack O’ Lantern Day & Fall 50 Race from noon October 25, 2019 to October 27, 2019”.

Stage 1C - October 28, 2019 to Winter Shutdown

- Complete the following items on Shore Road (Station 10+00-15+56 Shore Road): Removals, milling, HMA pavement, storm sewer, curb and gutter, lighting, pavement marking, and signing.
- Complete construction of R-15-11 and R-15-12.
- Install storm sewer trunk and laterals on STH 42 from EW27- MH 16. Replace disturbed curb, gutter, and sidewalk.
- Begin storm sewer spot repairs/installations on STH 42 from Main Street to Fish creek Box Culvert (Station 99+99-124+00 STH 42). Replace disturbed curb and gutter.
- Begin curb ramp construction on STH 42 from Bluff Lane to Windmill Lane (Station 96+50-134+35 STH 42).
- Begin lighting construction on STH 42 from Bluff Lane to Windmill Lane (Station 96+50 to 134+35 STH 42).
- Install asphalt base and surface for disturbed roadway trenches and patches.

Pre-Winter Shutdown Requirements

- Continuously light STH 42 to match the existing street lighting limits. Lighting can consist of existing, proposed, or a combination of existing and proposed lighting.
- Pave all disturbed existing roadway surfaces with temporary or permanent asphaltic surface.
- Replace all disturbed curb, gutter, and sidewalk.
- Grade areas along the roadway to a minimum 4:1.

- Remove all construction equipment from along STH 42.
- Hold erosion control winter shutdown meeting 2 weeks prior to suspending work. Complete erosion control inspections and orders.

Winter shutdown will commence with the Completion of Stage 1C and Pre-Winter Shutdown Requirements in the fall of 2019. Do not resume work until March 2, 2020 unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned start of construction in 2020. Upon approval the engineer will issue the notice to proceed within 7 days of the approved start date.

Stage 2 – March 2, 2020 to noon May 22, 2020.

- Complete all proposed construction within the following locations:
  i) STH 42 from Bluff Lane to Windmill Lane (Station 96+50 – 134+35 STH 42)
  ii) Shore Road (10+00-15+56 Shore Road)
  iii) Evergreen Rd
- Complete the following items on STH 42 from Windmill Lane through CTH F (134+35-145+00 STH 42): common excavation, HMA pavement, storm sewer, curb and gutter, southbound sidewalk (LT), lighting, pavement marking, and signing.
- Begin construction on STH 42 from CTH F to the end of project (Station 145+00-159+00). Construction activities include but are not limited to the following: common excavation, HMA pavement, storm sewer, curb and gutter, sidewalk, lighting, pavement marking, and signing.

Provision 2-1:

Pave travel lane trenches and open STH 42 and Shore Road to traffic in compliance with "Stage 2, Noon May 1, 2020 to noon May 22, 2020" as provided under the article Traffic.

Provision 2-2:

Complete construction on STH 42 from Bluff Lane to Windmill Lane (Station 96+50-134+35 STH 42) and Shore Road (Station 10+00-15+56 Shore Rd) and open these roadways in compliance with "Stage 3, Post Stage 2 but no later than Noon May 22, 2020 to noon June 26, 2020" as provided under the article Traffic.

Stage 3 –Noon May 22, 2020 to noon June 26, 2020.

- Complete all proposed construction on STH 42 from Windmill Lane to the end of project (Station 134+35-159+00 STH 42).
- Remove and restore temporary driveways at Fish Creek Grill and Old Gibraltar Road.

Liquidated Damages

Provision 1-1

Complete all work as specified in Provision 1-1 prior to noon October 25, 2019.

If the contractor fails to complete the work listed in Provision 1-1, prior to 11:59 AM October 25, 2019, the department will assess the contractor $815 in interim liquidated damages. If the work remains incomplete at 12:01 AM October 26, 2019 the department will assess the contractor $815 in interim liquidated damages for each calendar day that Provision 1-1 requirements are not met after 12:01 AM, 26, 2019. An entire calendar day will be charged for any period of time within a calendar day that the requirements are not met beyond 12:01 AM. Interim liquidated damages will be assessed under administrative item Failing to Open Road to Traffic.

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

Provision 2-1

Complete all work as specified in Provision 2-1 prior to noon May 1, 2020.

If the contractor fails to complete the work listed in Provision 2-1 prior to 11:59 AM May 1, 2020 the department will assess the contractor $2,750 in interim liquidated damages. If the work remains incomplete at 12:01 AM May 2, 2020 the department will assess the contractor $2,750 in interim liquidated damages for each calendar day that Provision 2-1 requirements are not met after 12:01 AM, May 2, 2020. An entire calendar day will be charged for any period of time within a calendar day that the requirements are not met beyond 12:01 AM. Interim liquidated damages will be assessed under administrative item Failing to Open Road to Traffic.

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

Provision 2-2

Complete all work as specified in Provision 2-2 prior to noon May 22, 2020.

If the contractor fails to complete the work listed in Provision 2-2 prior to 11:59 AM May 22, 2020, the department will assess the contractor $10,000 in interim liquidated damages. If the work remains incomplete at 12:01 AM May 23, 2020, the department will assess the contractor $10,000 in interim liquidated damages for each calendar day that Provision 2-2 requirements are not met after 12:01 AM May 23, 2019. An entire calendar day will be charged for any period of time within a calendar day that the requirements are not met beyond 12:01 AM. Interim liquidated damages will be assessed under administrative item Failing to Open Road to Traffic.

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

4. Traffic.

General

A milled surface open to through traffic shall not remain in place for longer than 72 hours.

Provide an even cross-sectional profile of the roadway at the end of each day's milling operations on roadways open to through traffic. Uneven lanes on roadways open to through traffic will not be allowed except during that days milling operations.

For paved surfaces open to through traffic, provide an even cross-sectional profile of the roadway within 72 hours of paving the adjacent lane.

All excavated storm sewer trenches located within the STH 42 travel lanes between October 28, 2019 and Winter Shutdown may be gravel or other engineer approved temporary surface.

All excavated storm sewer trenches located within the STH 42 travel lanes between resuming work post Winter Shutdown to noon May 1, 2020 may be gravel or other engineer approved temporary surface.

All excavated storm sewer trenches located within the STH 42 travel lanes between May 4, 2020 and noon May 22, 2020 may be gravel or other engineer approved temporary surface, and must be paved by noon on the Friday following excavation.

STH 42 travel lanes open to traffic must be paved after noon May 22, 2020.

Monitor and maintain any aggregate surface and immediately repair those surfaces at the direction of the engineer. Signing used to delineate variations in the surface material shall be incidental to the base aggregate bid item.

Closely monitor the forecasted weather to ensure that all existing roadway surfaces are paved prior to accumulating snowfall that will require plowing.

Maintain access to all properties throughout the duration of the project. Driveways and/or sidewalks within the project may be closed for the minimum amount of time necessary to construct the new access. Provide the affected property owners a 48-hour minimum written notice of the impending work/closure. Allow emergency vehicles access through the construction zone at all times.

Close sidewalk/curb ramps in sequential order, or provide temporary ramps to provide adequate pedestrian access to properties and businesses. Maintain a hard surface path for pedestrians along open sections of STH 42. Base aggregate dense or asphalt pavement millings are not considered a hard surface and will not fulfill this requirement. Utilize temporary pedestrian surface bid item.

Do not simultaneously close STH 42 northbound and southbound parking lanes. From Station 96+50-134+00 an exception will be allowed during HMA milling and overlaying operations up to five calendar days, or as the engineer allows.

Staging

Stage 1A, October 15, 2019 through October 20, 2019.

- Do not close, alter, or conduct flagging operations on existing STH 42 traffic lanes, parking lanes, shoulders, and sidewalks from Bluff Lane to the end of project (Station 96+50 to 159+00 STH 42) with the following exceptions:
    i) Station 125+00-126+50 STH 42 Left. Left Parking lane closure, sidewalk closure, and sidewalk detour are allowed.
    ii) Station 134+75-138+00 STH 42. The existing left and right shoulders are allowed to be closed. Two 12-FT travel lanes must remain open at all times.
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Stage 1B, October 21, 2019 to noon October 25, 2019.

- Do not close, alter, or conduct flagging operations on existing STH 42 traffic lanes, parking lanes, shoulders, and sidewalks from Bluff Lane to Shore Road (Station 96+50 to 125+00 STH 42) and CTH F to the end of project (Station 144+00 to 159+00 STH 42).
- Maintain one 12-FT northbound travel lane on STH 42 from Shore Road to CTH F (Station 127+00-144+00 STH 42).
- Do not close STH 42 southbound travel lane from CTH F to Shore Road (Station 144+00 – 127+00 STH 42) until the detour is in place.
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Fish Creek's Jack O' Lantern Day & Fall 50 Race, noon October 25, 2019 to October 27, 2019:

- Open Shore Road (10+00-15+56 Shore Road) to bi-directional traffic at all times. Shore Road will consist of two 12-FT travel lanes comprised of asphaltic surface, millings or base aggregate dense.
- Open STH 42 (Station 96+50-159+00 STH 42) to bi-directional traffic at all times. Pave excavated storm sewer trenches located within 12-FT of STH 42 reference line to create a level roadway. STH 42 travel lanes will consist of two 12-FT paved lanes centered on the STH 42 reference line.
- Open STH 42 (Station 96+50-159+00 STH 42) parking lanes to traffic at all times. Place and grade disturbed parking lanes with base aggregate dense or other engineer approved material to create an even surface with the STH 42 travel lanes.
- Open STH 42 (96+50-159+00 STH 42) sidewalks to pedestrians and maintain access to all business/properties. Install temporary pedestrian surface asphalt and plates or clearly sign pedestrian detour routes to maintain access.

Stage 1C, October 28, 2019 through November 22, 2019.

- Maintain bi-directional traffic on STH 42 from Bluff Lane to Shore Road (Station 96+50-127+00). Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.
- Maintain one 12-FT northbound travel lane on STH 42 from Shore Road to CTH F (Station 127+00-144+00 STH 42).
- Close STH 42 southbound lane from CTH F to Shore Road (Station 144+00-127+00 STH 42). Do not close STH 42 until the detour is operational.
- Do not close, alter, or conduct flagging operations on existing STH 42 traffic lanes, parking lanes, shoulders, and sidewalks from CTH F to the end of project (Station 144+00 to 159+00 STH 42).
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Stage 1C, November 22, 2019 to Winter Shutdown.

- Maintain bi-directional traffic on STH 42 from Bluff Lane to CTH F (Station 96+50-144+00). Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.
- Do not close, alter, or conduct flagging operations on existing STH 42 traffic lanes, parking lanes, shoulders, and sidewalks from CTH F to the end of project (Station 144+00 to 159+00 STH 42).
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Winter Shutdown Period

- Remove all construction equipment and traffic control devices from the project.
- Restore all drive and parking lanes through the project limits.
- Pave all excavated roadways and sidewalks. No open excavations or gravel surfaces are allowed.
- Maintain drainage through winter.

Stage 2, March 2, 2020 to noon May 1, 2020

- Maintain bi-directional traffic on STH 42 from Bluff Lane to Windmill Lane (Station 96+50-134+35). Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.
- Close STH 42 to through traffic from Windmill Lane through CTH F (Station 134+35-145+00 STH 42). Maintain access for local traffic. Do not close STH 42 until the detour is operational.
- Close STH 42 to all traffic from CTH F to the end of project (Station 145+00-159+00 STH 42). Do not close STH 42 until the detour, Fish Creek Grill Temporary Driveway, and Old Gibraltar Road Temporary Connection is operational.
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Stage 2, noon May 1, 2020 to noon May 22, 2020

- Maintain bi-directional traffic on STH 42 from Bluff Lane to Windmill Lane (Station 96+50-134+35). Bi-directional traffic shall consist of two 12-FT asphalt paved travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.
- Close STH 42 to through traffic from Windmill Lane through CTH F (Station 134+35-145+00 STH 42). Maintain access for local traffic. Utilize daytime flagging operations if local access roadway is reduced to one lane. Do not close STH 42 until the detour is operational.
- Close STH 42 to all traffic from CTH F to the end of project (Station 145+00-159+00 STH 42). Do not close STH 42 until the detour, Fish Creek Grill Temporary Driveway, and Old Gibraltar Road Temporary Connection is operational.
- Maintain bi-directional traffic on Shore Road and Evergreen Road. Bi-directional traffic shall consist of two 12-FT asphalt paved travel lanes. A single lane closure with daytime flagging operations are allowed but the roadway must be restored to two travel lanes at the end of the day's work operations.

Stage 3, Post Stage 2 but no later than noon May 22, 2020 to noon June 26, 2020

- Remove equipment and traffic control devices from STH 42 from Bluff Lane to Windmill Lane (Station 96+50 – 134+35 STH 42). No impacts to traffic, parking lanes, or pedestrians.
- Remove equipment and traffic control devices from Shore Road and Evergreen Road (Station 10+00-15+56 Shore Rd). No impacts to traffic, parking lanes, shoulders, or pedestrians.
- Open STH 42 to bi-directional traffic from Windmill Lane through CTH F (Station 134+35-145+00 STH 42). Bi-directional traffic shall consist of two 12-FT asphalt paved travel lanes. A single lane closure with daytime flagging operations are allowed during non-peak hours but the roadway must be restored to two travel lanes at the end of the day's work operations.
- Close STH 42 to all traffic from CTH F to the end of project (Station 145+00-159+00 STH 42). Do not close STH 42 until the detour, Fish Creek Grill Temporary Driveway, and Old Gibraltar Road Temporary Connection is operational.

Peak Hours

Maintain simultaneous two-way traffic on all roadways open to through traffic during peak hours. Maintain two-way traffic along STH 42 and local roads where the roadway is open to through traffic and/or local access. The contractor may reduce traffic to one lane during daylight non-peak hours by using flagging operations. Maintain traffic with a minimum of 12-foot travel lanes. Lane rental will be assessed according to the Lane Rental Fee Assessment article for each lane closure outside of non-peak hours.

Peak hours as defined as follows:

- From May 26 through October 31
    - Fridays at noon to Sunday 9:00 PM

Non-Peak hours are defined as all times that are not peak hours.

Peninsula State Park Access

Maintain access to Peninsula State Park via Shore Road West at all times. Maintain two-way traffic along Shore Road West. Traffic may be reduced to one lane during daylight hours prior to noon May 22, 2020 by using flagging operations. Maintain traffic with a minimum of 12-foot travel lanes.

Boat Transport Access

Fish Creek Marine and Supply, located at 3859 STH 42, transports boats to Fish Creek Marina/Boat Launch and will require access through the work zone and closed sections of STH 42. Approximately 10 boat transfers will occur in April and early May of 2020. Contact owner Leigh Zielke at (920) 868-3909 to coordinate transport times.

School Bus Access

Maintain a minimum 15-FT wide gravel roadway from the existing Gibraltar School south driveway to CTH F to be used by school buses only. The gravel roadway can utilize existing school driveway areas, STH 42, or a combination of these areas to fulfill this requirement. Maintain school bus access for the duration of Stage 2 and as long as feasibly possible into Stage 3. Coordinate with Rob Rericha at (920) 868-3284 Ext. 279 of the Gibraltar School district to discuss a schedule of when the buses will need to use the driveway.

Pedestrian Crossing at 144+90 – Stage 2 and Stage 3

For the duration of Stage 2 and Stage 3, or as directed by the engineer, maintain a temporary path connecting the north side of CTH F and the school auditorium driveway. Continue the path to the north along the school auditorium driveway until it connects to the south school driveway. Install temporary pedestrian safety fence to delineate the path and keep it separate from the work zone.

Gibraltar School North Driveway Access

Refrain from construction activities that negatively impact the use of temporary and existing roadway surfaces to convey traffic via the Gibraltar School North Driveway. Receive approval from the engineer prior to disturbing pavement from 151+00 to 151+75.

Installation of Flashing Beacon at STH 42 and Main St.

Prior to the erection of Type 2 pole and trombone arm, the electrical contractor shall arrange and conduct a meeting between the prime contractor, the department, and on-site engineer to coordinate traffic control requirements and restrictions for the installation of poles and trombone arms over live traffic lanes. Installation of poles, monotube arms and traffic signal modifications shall occur only during non-peak periods unless approved by the engineer.

Detours

Stage 1 detour to be implemented from October 21, 2019 through November 22, 2019 excluding the timeframe from noon October 25, 2019 through October 27, 2019.

Stage 2 detour to be implemented from March 2, 2020 to noon May 22, 2020.

Stage 3 detour to be implemented post completion of Stage 2, but no later than noon, May 22, 2020.

Stage 3 detour to be removed prior to noon June 26, 2020.

Access to Gibraltar School traffic to utilize detour route, Gibraltar Road, and Old Gibraltar Road temporary connection during the detours for Stage 2 and Stage 3. Maintain access to the school at all times during roadway closure unless otherwise agreed upon with the school district. If necessary, flag traffic around construction activities.

Access to Fish Creek Grill to use detour route, CTH F, and temporary driveway connection during the detours for Stage 2 and Stage 3. Maintain access to the restaurant at all times unless otherwise agreed upon with owner. Construct temporary access driveway prior to closing STH 42 from CTH F to the existing driveway.

Stage 1 Detour

Route STH 42 southbound traffic onto CTH F from the intersection of CTH F/STH 42 in the Town of Gibraltar to CTH A to CTH E to the intersection of CTH E/STH 42 in the Village of Egg Harbor.

Stage 2 Detour

Route STH 42 traffic onto CTH E from the intersection of CTH E/STH 42 in the Village of Egg Harbor to CTH A to the intersection of CTH A/STH 42 south of the Village of Ephraim.

Stage 3 Detour

Route STH 42 traffic onto CTH F from the intersection of CTH F/STH 42 in the Town of Gibraltar to CTH A to the intersection of CTH A/STH 42 south of the Village of Ephraim.

Portable Changeable Message Sign – Message Prior Approval

After coordinating with department construction field staff, notify the Northeast Region Traffic Section at (920) 266-8033 (secondary contact number is (920) 360-3107) three business days prior to deploying or changing a message on a PCMS to obtain approval of the proposed message. The Northeast Region Traffic Unit will review the proposed message and either approve the message or make necessary changes.

Wisconsin Lane Closure System Advanced Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

Clear Zone Working Restrictions

Do not store materials or equipment within the clear zone of traffic lanes. Remove materials from the clear zone prior to opening lane closures. Do not leave any slopes steeper than 3:1 or any drop offs at the edge of the traveled way greater than 2 inches within the clear zone prior to opening lane closures.

Park equipment and store materials, including stockpiles, a minimum of 18-feet from the edge of the traveled way unless protected by concrete barrier temporary precast.

If the contractor is unsure whether an individual work operation will meet the safety requirements for working within the clear zone, review the proposed work operation with the engineer before proceeding with the work.

(NER17-1018)

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 42 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, October 4, 2019 to 6:00 AM Monday, October 7, 2019 for Egg Harbor Pumpkin Patch Days;
- From noon Friday, October 11, 2019 to 6:00 AM Tuesday, October 15; 2019 for Columbus Day;
- From noon Friday, October 18, 2019 to 6:00 AM Monday, October 21; 2019 for Sister Bay's Fall Fest;
- From noon Friday, October 25, 2019 to 6:00 AM Monday, October 28, 2019, for Fish Creek's Jack O' Lantern Days;
- From noon Wednesday, November 27, 2019 to 6:00 AM Monday, December 1, 2019 for Thanksgiving Day;
- From noon Monday December 23, 2019 to 6:00 AM Thursday, December 26, 2019 for Christmas Day;
- From noon Monday December 30, 2019 to 6:00 AM Thursday, January 2, 2020 for New Year's Day;
- From noon Friday May 1, 2020 to 6:00 AM Monday May 4, 2019 for the Door County Half Marathon;
- From noon Friday May 22, 2020 to 6:00 AM Tuesday May 26, 2020 for Memorial Day;
- From noon Friday, June 12, 2020 to 6:00 AM Monday, June 15, 2020 for Village of Ephraim's Fyr Bal Festival;
- From noon Friday, July 3, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day.

stp-107-005 (20050502)

6. Utilities.

This contract comes under the provisions of Wisconsin Administrative Code Ch. Trans 220.

107-065 (20080501)

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

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

Charter Communications – Communication maintains overhead and underground facilities within the project limits.

Overhead facilities are located jointly on poles maintained by Wisconsin Public Services. Charter Communications will coordinate with Wisconsin Public Service to transfer communications facilities and maintain proper clearance to overhead lighting, prior to construction.

Underground facilities cross STH 42 near Station 127+00.

Notify Charter Communications at least 7 days prior to excavation at Station 127+00 to provide inspection during construction of storm sewer.

The field contact is Bruce Henry, 1623 Broadway Avenue, Sheboygan, WI 53081, Telephone: (920) 263-0074, Email: bruce.henry@charter.com

Fish Creek Sanitary District #1 – Sewer maintains underground facilities throughout the project limits, to be adjusted during construction.

Fish Creek Sanitary District #1 will lower the sanitary lateral at Station 135+76 LT and adjust the sanitary manholes at Station 97+45 RT, Station 140+15 LT, Station 144+00 RT, Station 145+90 RT, Station 147+75 RT, Station 144+00 LT, Station 143+95 LT, Station 143+90 LT, Station 142+40 LT, Station

137+10 LT, Station 136+00 LT, Station 10+90 RT, and Station 142+25 RT, to match final pavement grade.

Fish Creek Sanitary District #1 will rotate the sanitary manhole cover at Station 137+10, to minimize construction impact to the proposed curb and gutter.

Notify Fish Creek Sanitary District #1 at least 7 days prior to the construction of the proposed retaining wall and storm sewer excavation at Station 108+85, Station 127+00, Station 131+50, Station 142+30, Station 144+00, and Station 144+75 to protect existing facilities.

Fish Creek Sanitary District #1 will require 10 days to complete the necessary sanitary sewer adjustments during construction.

The field contact is Joe Burress, P.O. Box 55, Fish Creek, WI 54212, Telephone: (920) 868-3372.

Frontier Communications – Communications maintains overhead and underground facilities within the project limits in conflict with the proposed improvement and will be relocated prior to construction.

Frontier Communication will transfer facilities to the new pole installed by Wisconsin Public Service at Station 100+00 LT at northwest corner of Spruce Street and Main Street.

Frontier Communications will relocate poles at Station 125+25, Station 126+25, Station 127+00, Station 127+60, Station 128+30 (guy), Station 131+50, Station 134+75, Station 136+30 (remove), Station 146+25, Station 147+10, Station 148+75, and Station 11+20 (CTH F).

Frontier Communication will install poles near the end of the proposed retaining wall at Station 135+55 and Station 137+60.

Frontier Communications will require 30 days to complete the necessary work prior to construction.

Notify Frontier Communications at least 7 days prior to excavation at Station 118+50 and Station 130+00 for Frontier Communications to hold the existing poles at these locations.

The field contact is Cal Klade,521 4th Street, Wausau, WI 54403, Telephone: (715) 573-2110, Email: calvin.klade@ftr.com.

Net Lec LLC – Communication maintains overhead and underground facilities within the project limits.

Net Lec LLC maintains overhead facilities on Wisconsin Public Service poles from Station 140+85 to Station 142+90 and will coordinate transfer with Wisconsin Public Service prior to construction.

Net Lec LLC will adjust existing pedestal at Station 154+70 LT prior to construction.

Notify Net Lec LLC at least 7 days prior to storm sewer excavation at Station 142+25, Station 143+00, Station 144+17, Station 146+13, Station 148+90, Station 150+00, Station 152+48, for Net Lec to set up a fiber watch at these locations.

The field contact is Dennis LaFave, 1700 Industrial Drive, Green Bay, WI 54302, Telephone: (920) 619-9774, Email: dlafave@mi-tech.us.

Wisconsin Public Service Corporation – Electricity has overhead and underground facilities throughout the project limits on the left and right sides of STH 42. Identified utility conflicts are anticipated to be relocated prior to construction.

As part of the utility owner's general facility upgrade, Wisconsin Public Services will replace electric distribution poles along STH 42 from Station 49'M'+75 to Station 157+00, including facilities not in conflict with the proposed improvement.

Wisconsin Public Service will remove and replace the existing pole at Station 99+35 RT, to accommodate the proposed traffic control beacon.

Wisconsin Public Service will remove the existing pole and install a new pole at Station 49'M'+75 LT, located in the proposed terrace at the northwest corner of Main Street and Spruce Street.

Wisconsin Public Service will replace existing poles at Station 109+50 LT and Station 117+00 LT directly behind the proposed curb and gutter within the lateral clearance.

Wisconsin Public Service will remove the existing poles and install new poles near the existing right-of-way at Station 134+70 LT, Station 136+80 LT (removed), Station 137+35 LT (installed), Station 140+90 LT, Station 141+60 LT, Station 142+05 LT, Station 142+80 LT (removed), Station 142+90 LT, Station 146+65 LT, Station 147+60 LT, Station 150+05 RT (removed), Station 150+60 RT, Station 152+25 LT (anchor), Station 154+70 LT, Station 156+70 LT, Station 10CF+65 (removed) and 11CF+00 (installed).

Notify Wisconsin Public Service at least 7 days prior to excavation at Station 1+38 LT, Station 129+75 RT, and Station 12+25 LT (Old Gibraltar Road temporary connection) to hold existing pole during construction.

Notify Wisconsin Public Service at least 7 days prior to excavation at Station 119+95, Station 127+65, Station 371+60, and Station 13+40 (Shore Road) to provide stand-by service during the excavation of storm sewer near the existing single phase electric line.

Notify Wisconsin Public Service at least 48 hours prior to rock blasting, for Wisconsin Public Service to provide stand-by service and hold adjacent poles.

The field contact is Scott Gauger, 2850 Ashland Avenue, Green Bay, WI 54307, Telephone: (920) 617-5151, Mobile: (920) 660-0430, Email: scott.gauger@wisconsinpublicservice.com.

7. Work by Others.

Flashing Beacon STH 42 and Main St (STH 42 Station 99+52 RT)

The Wisconsin Department of Transportation Northeast Region Electrical Unit will perform the following work at the intersection STH 42 and Main Street:

- Salvage the existing Flasher Control Unit
- Provide and install the Flashing Beacon Control Cabinet
- Provide and install the Signal Cable from the Control Cabinet (CB1) to the Flashing Beacon Concrete Base (FB1)

Contact the NE Region Traffic Unit at (920) 360-3107 or (920) 492-5654 at least three days prior to when the above work will need to take place.

Town of Gibraltar Rapid Flashing Beacon (RFB) (STH 42 Station 147+69 & 156+67)

The Town of Gibraltar will be installing Rapid Flashing Beacons at the pedestrian refuge islands located at Stations 147+69 and 156+67. Contact the town of Gibraltar at (920) 868-1714 at least 30 days prior to grading operations to coordinate this work.

Restoration of Peninsula School of Art (STH 42 Station 147+32 – 150+72 RT)

The Door County Land Trust will be completing some restoration work for the conservation easement behind the sidewalk on the Peninsula School of Art Property (Station 147+32 RT to 150+72 RT). Contact Drew Reinke, Door County Land Trust, at (920) 746-1359 at least 14 days prior to final landscaping to coordinate this work.

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit. A certificate of permit coverage is available from the regional office by contacting Jeremy Ashauer at (920) 412-6381. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

9. 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 Jeremy Ashauer at (920) 412-6381.

stp-107-054 (20080901)

10. Environmental Protection, Dewatering.

Supplement standard spec 107.18 as follows:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. The means and methods proposed to be used during construction shall be submitted for approval as part of the Erosion Control Implementation Plan for dewatering at each location it is required. The submittal shall also include the details of how the intake will be managed to not cause an increase in the background level turbidity prior to treatment and any additional erosion controls necessary to prevent sediments from reaching the project limits or wetlands and waterways. Guidance on dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code #1061, “Dewatering”. This document can be found at the WisDNR website: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

The cost of all work and materials associated with water treatment and/or dewatering is incidental to the bid items the work is associated.

(NER12-1010)

11. Environmental Protection, By-Pass Pumping

Add to standard spec 107.18:

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

(NER 11-0711)

12. Erosion Control.

Perform the work according to the requirements of standard spec 107.20 and supplemented as follows:

A winter ECIP meeting will be required for this project. At this meeting, the contractor will discuss the plan to do finishing, landscaping, interim erosion control measures, and other items to address the construction site and disturbed ground areas prior to winter shutdown. The contractor shall submit for approval an amendment to the contractor’s Erosion Control Implementation Plan (ECIP) within one week following this meeting. Update the ECIP as necessary prior to winter shutdown to address site conditions at the time of winter shutdown. Hold meeting at least 2 weeks prior to suspending work operations.

In the spring of 2020, if sod is not available due to the construction schedule, protect open grades from erosion by use of soil stabilizer. Install sod as soon as it becomes available. Prior to placing sod prep the grade according to standard spec 631.3.1 making sure to loosen soil at least one inch deep and removing any weeds or temporary seeding that has vegetated.

13. Coordination with Businesses and Residents.

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

stp-108-060 (20141107)

14. Notice to Contractor – Heavy Equipment Storage during Winter Shutdown.

During the winter shutdown period, the contractor shall remove all heavy equipment off of STH 42 and store the equipment in an approved staging area or removed from the project site.

15. Notice to Contractor - Snow Removal.

The Door County Highway Department or Town of Gibraltar may place snow into the work site area via plow operations and sidewalk snow removal. The contractor shall be responsible for removing snow placed within the work site area. The snow shall not be placed on the sidewalks that are open to pedestrians or the travel lane open to traffic. The removal of the snow shall be incidental to the contract. Coordinate plowing operations with the local maintaining authority as necessary.

16. Notice to Contractor – Soil Conditions.

Soil borings completed during the design of the project are shown in the plans. Soil conservation service maps for Door County show a high percentage of udorthents, or cobble material, and rock, within the project limits. The presence of these soils are expected for storm sewer, lighting base drilling, sign base drilling and other operations requiring subsurface installation. Extraordinary efforts may be required during construction and shall be considered incidental to the contract bid items.

17. Notice to Contractor – High Ground Water.

Anticipate high ground water elevations within the project limits. Dewatering for subsurface operations is anticipated and incidental to the contract.

18. Notice to Contractor – Work Adjacent to Historical Property – 4148 Main St Fish Creek.

Work is scheduled to take place adjacent to a historical property located at 4148 Main St within Fish Creek (Station 103+25 LT). The proposed work includes replacing sidewalk and installing a light fixture/base adjacent to a stone retaining wall and pillar that were identified as being historically significant. Take all precautions necessary to avoid impacting or altering the appearance or structural stability of the wall and pedestal. If the wall or pedestal are impacted during construction the contractor must salvage as much of the original material as possible. The contractor will be required to restore or replace the wall and pillar in kind using the original, salvaged materials or similar materials at no cost to the department.

19. Notice to Contractor – Work Adjacent to Property 3976 Main Street, Fish Creek.

Do not trespass or disturb private property while installing retaining wall and driveway at 3976 Main Street, Fish Creek. Do not disturb any trees or shrubs that are located partially or entirely on private property. Stake property pins in the field (or from department supplied right-of-way plat 4140-21-00 – 4.19) and place safety fence 6-Inches offset from property line (staking property shall be incidental to the contract). If access to property is to be restricted, follow department standards of notifying property owner in advance or constructing driveway/sidewalk in stages.

20. Notice to Contractor – Driveways.

There are several driveways located within the construction limits that are constructed of alternative materials, including but limited to brick pavers and field stone. Take necessary precautions to avoid damage to driveways. Repairs to damaged driveways will be considered incidental to the contract.

21. Notice to Contractor – Karst Features.

Karst features are formed from the dissolution of soluble rocks such as limestone, dolomite, and gypsum. Karst features act as natural underground drainageways and can vary in size from minor fissures to caves or caverns. Existing Karst features may be present within the project limits. Protect exposed karst features as the plans show or as the engineer directs. Do not excavate, cover, or fill known karst locations. If karst features are exposed during excavation suspend work operations in the immediate area and inform the construction engineer. The construction engineer will notify NE Region DNR liaison Matt Schaeve at (920) 366-1544 of the feature and discuss further actions or precautions.

22. Notice to Contractor – Proposed Items within MSE Wall Reinforcing Zone Backfill.

Coordinate retaining wall construction operations with proposed storm sewer, light bases, conduit, and any other bid items located within the MSE reinforcing zone backfill. Items may need to be formed or placed prior to beginning MSE wall backfill operations. Design retaining wall reinforcement so that they are not in conflict with proposed items.

23. Survey Monument Coordination.

The contractor is to notify the Northeast Regional Survey Coordinator, Cormac McInnis, (920) 492-5638, at least 30 days before the beginning of construction activities. The Regional Survey Coordinator will then make the arrangements to have the Public Land Survey Monument and Landmark Reference Monuments tied out.

After the majority of construction is complete (before restoration) the contractor is again to notify the Survey Coordinator that the site is ready for the replacement of the monuments. The Survey Coordinator will then make arrangements to have the Public Land Survey Monument and Landmark Reference Monuments reset.

ner-621-010 (20171213)

24. Removing Concrete Sidewalk.

Supplement standard spec 204 with the following:

Removal of the concrete sidewalk where buildings abut the right-of-way shall include performing a full depth saw cut approximately one foot from buildings, or as close as possible. Remove the remaining pieces of sidewalk adjacent to the buildings using methods approved by the engineer. Payment of the full depth saw cut will be paid for under the bid item Sawing Concrete. During the saw cutting and sidewalk removal, take extreme care to not damage the buildings. The contractor will be responsible for any damage to the buildings. Salvage rebar that extend into sidewalk from the buildings and incorporate into the new sidewalk.

25. Removing Advance Flasher Assemblies Type 1, Item 204.9001.S; Removing Advance Flasher Assemblies Type 2, Item 204.9002.S; Removing Flashing Beacon (STH 42 & Main St), Item SPV.0105.01.

A Description

This special provision describes removing advance flasher/beacon assemblies from the locations the plans show. Rewire and disconnect wiring in the control cabinet as necessary and properly dispose of materials conforming to standard spec 204.3.1.3.

B Materials

Dispose of all materials resulting from removing the Advance Flasher Assemblies or Beacons including but not limited to poles, break-a-way bases, signal assemblies, bulbs, and wire off the job site.

C Construction

Do not remove existing advance flasher/beacon assemblies until proper disconnects and wiring changes in the controller cabinet have been made.

Contact Patrick Strantz at (920) 421-2139 one week in advance to disconnect power to the advanced flasher assemblies type 2.

Contact Joe Korn at (920) 421-0920 one week in advance to disconnect power to the advanced flasher assemblies type 1.

Contact Wisconsin Public Service one week in advance to disconnect power to the Flashing Beacon at STH 42 and Main St.

Where an existing advance flasher/beacon assembly is mounted to a light pole, remove all signal hardware including wire, conduit, signal assemblies and mounts. Where existing conduit has been installed under concrete sidewalk or roadway, do not remove buried conduit unless directed otherwise by the engineer or unless it is not possible to install new wire through the existing conduit.

D Measurement

The department will measure Removing Advance Flasher Assemblies by each unit, acceptably removed. The department will measure Remove Flashing Beacon as a single individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9001.S	Removing Advance Flasher Assemblies, Type 1	EACH
204.9002.S	Removing Advance Flasher Assemblies, Type 2	EACH
SPV.0105.01	Remove Flashing Beacon (STH 42 & Main St)	LS

Payment is full compensation for removing advanced flasher/beacon assemblies; for rewiring, as necessary; for disconnecting wiring as necessary in the controller cabinet; and for properly disposing of all materials.

Removal of concrete bases and signs associated with this item will be measured and paid for separately.

stp-204-060 (20170615)

26. Removing Cables or Conduit, Item 204.9090.S.01.

A Description

This special provision describes removal of groups of existing lighting cables and conduit from the project.

B (Vacant)

C Construction

Existing lighting cables within conduit or direct buried will be removed from the project as a result of sub-cutting associated with roadway and sidewalk construction. Existing conduit in areas where permanent surfaces are not scheduled for removal shall be cut, capped, and abandoned. Existing lighting cables not planned for reuse shall be disconnected from existing lighting units, service cabinets and panels prior to removal. Existing conduit not planned for reuse shall be cleanly disconnected from remaining existing conduit, lighting units, and service cabinets prior to removal. The removal of existing conduit not planned for reuse shall be incidental to the removal of cables. Removed lighting cables and conduit shall become the property of the contractor.

D Measurement

The department will measure Removing Cables or Conduit by the linear feet of a complete branch circuit (comprised of multiple conductors), acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Cables or Conduit	LF

Payment is full compensation for removing and disposing of cables and conduit.

27. General Requirements for Blasting Rock.

Add the following to standard spec 205.3.7:

Perform all blasting in compliance with the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43.

Blasting Plan Submittal

Not less than two weeks before commencing blasting operations, or at any time when changes to the drilling and blasting methods are proposed, submit a Blasting Plan to the engineer for review. The blasting plan shall contain full details of the drilling and blasting patterns and controls proposed for both the controlled and production blasting. Include the following minimum information in the blasting plan:

1. Station limits of proposed shot.
2. Plan and section views of proposed drill pattern including free face, burden, blasthole spacing, blasthole diameters, blasthole angles, lift height, and subdrill depth.
3. Loading diagram showing type and amount of explosives, primers, initiators, and location and depth of stemming.
4. Initiation sequence of blastholes including delay times and delay system.
5. Manufacturer’s data sheets for all explosives, primers, and initiators to be employed.

The blasting plan submittal is for quality control and record keeping purposes. Review of the blasting plan by the engineer does not relieve the contractor of responsibility for the accuracy and adequacy of the plan when implemented in the field.

Safety

Immediately notify the engineer of any incidents of fly rock, damage to any personal property, or existing roadway that is open to traffic, and any violations of the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43. Failure to do so shall be considered a safety violation under standard spec 107 and all work on the project may be stopped under standard spec 105.1(1).

Notify the engineer of the station, location, and ‘size’ of all blasts at least one hour before the blast.

Observe the entire blast area for a minimum of five minutes following a blast to guard against rock or debris fall before commencing work in the area.

The engineer has the authority to prohibit or halt the contractor’s blasting operations if it is apparent that through the methods being employed, the required slopes are not being obtained in a stable condition, the safety and convenience of the traveling public is being jeopardized, or vibration levels above the allowable levels occur.

Condition Surveys

Conduct and document pre-blast and post-blast surveys of any nearby buildings or structures as required by the scaled-distance equation specified in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43. Make right of entry arrangements with the property owners for these condition surveys. Before any blasting, make the pre-blast survey records available to the engineer for review. After completion of blasting operations, perform a post-blast survey and make these records available to the engineer for review. The contractor shall be responsible for any damage resulting from blasting.

These condition surveys shall consist of visually inspecting and recording all existing defects in the structures before and after blasting operations. Photographs and/or videotape may be used to assist in documentation. Submit a written report to the department detailing the visual and photographic investigation of potentially affected structures. This report will include copies of the pre-blast and post-blast surveys and discuss any discrepancies and findings of these surveys.

If at any time during the progress of the work, the methods of drilling and blasting do not produce the desired result of a uniform slope and shear face, within the tolerances specified, drill, blast, and excavate in short sections, not exceeding 100 feet in length, until a technique is arrived at that will produce the desired results. Extra cost resulting from this requirement shall be borne by the contractor.

Vibration Control and Monitoring

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

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

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

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

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

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

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

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

All costs associated with the work described herein shall be considered included in the bid item Excavation Rock.

stp-205-050 (20141107)

28. Select Crushed Material, Item 312.0110.

Replace standard spec 312.2(1) with the following:

(1) Furnish crushed stone substantially free of unconsolidated overburden materials, topsoil, organic materials, steel, and other deleterious materials. A department approved source, sound and ware tests, and field acceptance testing are not required for this item. Item to be visually inspected and approved by engineer prior to placement.

Replace standard spec 312.3(2) with the following:

(2) Spread select crushed material in a manner that interlocks aggregate pieces and matches adjacent grades.

29. Asphaltic Base, Item 315.0100.

Replace standard spec 315.2 with the following:

(1) Furnish asphaltic mixture meeting the requirements specified for either type LT mix under standard spec 460.2; except the engineer will not require the contractor to conform to the quality management program specified under standard spec 460.2.8.

Submit a mix design for the Asphaltic Base bid item. Furnish asphaltic mixture meeting 3 LT gradation as specified in standard spec 460.2; except the engineer will not require the contractor to conform to the quality management program specified under standard spec 460.2.8.

Replace standard spec 315.3.1 with the following:

(1) Conform to the general requirements for asphaltic pavements specified in standard spec 450, except as modified here in standard spec 315.3. Place the mixture in 2.25-inch compacted layers unless the engineer directs otherwise.

30. Coloring Concrete Custom, Item 405.0200.

Add the following to standard spec 405.2.1:

Integrally colored concrete shall be Butterfield Color “Uni-mix” color: U31 – weathered Terra Cotta; Solomon Colors “Dry Integral Color”: Color 775 Cedar; or Scofield “Chromix” color 5238 Sunbaked Clay.

Replace standard spec 405.2.1.1(3) with the following:

(3) The department will accept the color based on comparison to color samples available for viewing at an agreed upon location with the Town of Gibraltar. Contact Beth Hagen at (920) 868-1714.

31. Protection of Concrete.

Add to standard spec 415.3.14:

The contractor shall provide for a minimum of one concrete finisher to remain on the project site after final finishing of all concrete surfaces until the concrete has hardened sufficiently to resist surface scarring caused by footprints, handprints, or any other type of imprint, malicious or otherwise. The finisher shall actively and continuously patrol on foot the newly placed concrete and repair any damage to the surface that might be sustained as described above.

The cost for providing the finisher(s), the necessary equipment, and materials is incidental to the contract.

ner-415-015 (20180326)

32. QMP HMA Pavement Nuclear Density.

A Description

Replace standard spec 460.3.3.2 (1) and standard spec 460.3.3.2 (4) with the following:

(1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 except as modified in this special provision.

(2) Provide and maintain a quality control program defined as all activities and documentation of the following:

1. Selection of test sites.
2. Testing.
3. Necessary adjustments in the process.
4. Process control inspection.

(3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures.

https://wisconsindot.gov/rdwy/cmm/cm-08-00toc.pdf

(4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

http://www.atwoodsystems.com/

B Materials

B.1 Personnel

(1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to standard spec 460.3.3 and CMM 8-15.

B.2 Testing

(1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Conform to CMM 8-15.10.4 for test duration and gauge placement.

B.3 Equipment

B.3.1 General

(1) Furnish nuclear gauges according to CMM 8-15.2.

(2) Furnish nuclear gauges from the department's approved product list at

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

(1) Compare QC and QV nuclear gauges according to CMM 8-15.7.

B.3.2.2 Comparison Monitoring

(1) Conduct reference site monitoring for both QC and QV gauges according to CMM 8-15.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.1.

(3) Determine random testing locations according to CMM 8-15.10.3.

B.4.1.2 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.2.

(3) Determine random testing locations according to CMM 8-15.10.3.

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

(1) Calculate the average sublot densities using the individual test results in each sublot.

(2) If all sublot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.

(3) If any sublot average is more than one percent below the target density, do not include the individual test results from that sublot when computing the lot average density and remove that sublot's tonnage from the daily quantity for incentive. The tonnage from any such sublot is subject to disincentive pay as specified in standard spec 460.5.2.2.

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.2.2 Width of 5 Feet or Less

(1) If all sublot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.

(2) If a sublot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

B.4.2.3 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.4 Documentation

(1) Document QC density test data as specified in CMM 8.15. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

(1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.

(2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted sublot. Testing in a previously accepted sublot will not be used to recalculate a new lot density.

(3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full sublot width within the traffic lanes or shoulders.

(4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.

(5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the sublot and lot densities.

(6) If two consecutive sublot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

(1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the

sublots and a minimum of one sublot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.

(2) The QV tester will test each selected sublot using the same testing requirements and frequencies as the QC tester.

(3) If the verification sublot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.

(4) If the verification sublot average is more than one percent below the specified target density, compare the QC and QV sublot averages. If the QV sublot average is within 1.0 lb/ft^3 of the QC sublot average, use the QC tests for acceptance.

(5) If the first QV/QC sublot average comparison shows a difference of more than 1.0 lb/ft^3 each tester will perform an additional set of tests within that sublot. Combine the additional tests with the original set of tests to compute a new sublot average for each tester. If the new QV and QC sublot averages compare to within 1.0 lb/ft^3, use the original QC tests for acceptance.

(6) If the QV and QC sublot averages differ by more than 1.0 lb/ft^3 after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

(1) Independent assurance is unbiased testing the department performs to evaluate the department's verification and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform the independent assurance review according to the department's independent assurance program.

B.6 Dispute Resolution

(1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.

(2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.

(3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV sublot density test results or retesting of the sublot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.

(4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

B.7 Acceptance

(1) The department will not accept QMP HMA Pavement Nuclear Density if a non-compared gauge is used for contractor QC tests.

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the Non-performance of QMP administrative item.

E.2 Disincentive for HMA Pavement Density

(1) The department will administer density disincentives as specified in standard spec 460.5.2.2.

E.3 Incentive for HMA Pavement Density

(1) The department will administer density incentives as specified in standard spec 460.5.2.3.

stp-460-020 (20181119)

33. Storm Sewer

Replace standard spec 608.2.2.2(1) and (2) with the following:

(1) Furnish foundation backfill material that conforms with standard spec 305.2 for 1 ¼-Inch Base Aggregate Dense.

Replace standard spec 608.2.2.3(1) with the following:

(1) Furnish trench backfill material that conforms with standard spec 305.2 for 1 ¼-Inch Base Aggregate Dense.

Revise standard spec 608.5(2) as follows:

Payment for the Storm Sewer Pipe bid items is full compensation for providing storm sewer; for excavating, except for rock excavation; for forming foundation; for providing and removing sheeting and shoring; for laying pipe; for sealing joints and making connections to new or existing fixtures; for backfilling; providing base aggregate dense 1 1/4–inch base aggregate dense granular backfill material, including bedding material; for cleaning out; and absent the pertinent contract bid items, for restoring the work site.

34. Adjusting Manhole Covers.

This special provision describes adjusting manhole covers conforming to standard spec 611 as modified in this special provision.

Adjust manhole covers located in pavement areas in two separate operations. Initially, remove designated manhole covers along with sufficient pavement to permit installation of temporary cover plate over the opening. Fill the excavated area with asphaltic pavement mixture, which shall remain in place until contract milling and paving operations permit setting the manhole frames to grade. During the second phase, remove the asphaltic pavement mixture surrounding the manhole plus the temporary cover plate, and set the manhole cover to final grade. The department will measure and pay for the items of asphaltic pavement mixture, temporary cover plate, milling, and paving separately.

Revise standard spec 611.3.7 by deleting the last paragraph.

Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9. At the completion of the paving, a 6-foot straightedge shall be placed over the centerline of each manhole frame parallel to the direction of traffic. A measurement shall be made at each side of the frame. The two measurements shall be averaged. If this average is greater than 5/8 inches, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inches or less but greater than 3/8 inches, the manhole frame shall be allowed to remain in place but shall be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, the two measurements shall be made at each end of the straightedge. These two measurements shall be averaged. The same criteria for acceptance and payment as above, shall apply.

stp-611-005 (20030820)

35. Cover Plates Temporary, Item 611.8120.S.

A Description

This special provision describes providing and removing steel plates to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

B Materials

Provide a 0.25 inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C (Vacant)

D Measurement

The department will measure Cover Plates Temporary as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.

stp-611-006 (20151210)

36. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.01.

A Description

This special provision describes furnishing and placing polystyrene insulation board as the plans show.

B Materials

Provide polystyrene insulation board 2-Inch x 4-ft x 8-ft dimensions that is suitable for underground use. The insulation board shall have a minimum strength of 40 PSI, R-Value of 5, and a max water absorption of 0.17% by volume.

Delete flammability requirement.

B.1 Certification

Before installation, obtain from the manufacturer a certification indicating compliance and furnish it to the engineer.

Place the insulation board at the bottom of the storm sewer granular backfill bedding material.

Place insulation board at locations where the proposed bottom of storm sewer pipe is within 1.5-FT depth of existing sanitary pipes where plans show or as the engineer directs.

C (Vacant)

D Measurement

The department will measure Insulation Board Polystyrene (size) by area in square yards of work, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
612.0902.S.01	Insulation Board Polystyrene 2-Inch	SY

Payment is full compensation for all excavation; and for furnishing and placing the insulation board.

stp-612-005 (20030820)

37. Fence Safety, Item 616.0700.S.

A Description

This special provision describes providing plastic fence at locations the plans show.

B Materials

Furnish notched conventional metal "T" or "U" shaped fence posts.

Furnish fence fabric meeting the following requirements.

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

C Construction

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

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

D Measurement

The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

Payment is full compensation for furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition; and for removing and disposing of fence and posts at project completion.

stp-616-030 (20160607)

38. Traffic Control.

Perform this work according to the requirements of standard spec 643, and as shown on the plans or as approved by the engineer, except as hereinafter modified.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten days prior to the preconstruction conference.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore lights, signs, or other traffic control devices that are damaged or disturbed. The cost to maintain and restore the above items shall be considered incidental to the item as bid and no additional payment will be made therefore.

Supply the name and telephone number of a local contact person for traffic control repair before starting work.

Have available at all times sufficient experienced personnel to promptly install, remove and reinstall the required traffic control devices to route traffic during the construction operations.

The turning of traffic control devices when not in use to obscure the message will not be allowed under this contract.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

Cover existing signs which conflict with traffic control as directed by the engineer.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes the following:

a. Do not park or store any vehicle, piece of equipment, or construction materials on the right-of-way, unless otherwise specified in the traffic control article or without approval of the engineer.
b. All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.
c. Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1000 feet. Activate the beam when merging into or exiting a live traffic lane.
   Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.
   The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

(NER17-1018)

39. Temporary Portable Rumble Strips, Item 643.0310.S.

A Description

This special provision describes providing, relocating, maintaining, and removing temporary portable rumble strips.

B Materials

Furnish RoadQuake2 or Roadquake2F temporary portable rumble strips, by Plastic Safety Systems. Do not use alternate products or methods without preapproval by the Bureau of Traffic Operations.

C Construction

C.1 Placement

Provide rumble strips where the plans show or the engineer directs as follows:

1. Before placing rumble strips, clean the roadway of sand and other materials that may cause slippage.
2. Place one end of the rumble strips 6 inches from the roadway centerline. Extend the strips perpendicular to the direction of travel. Ensure strips lay flat on the roadway surface.
3. Only one series of rumble strips, placed before the first work zone, is required per direction of travel for multiple work zones spaced 1 mile or less apart. Work zones spaced greater than 1 mile apart require a separate series of rumble strips.

C.2 Maintenance

Maintain rumble strips as follows:

1. If rumble strips slide, become out of alignment, or are no longer in the wheel path of approaching vehicles during the work period, thoroughly clean both sides of the rumble strips and reset on a clean roadway.
2. Repair or replace damaged rumble strips immediately.

D Measurement

The department will measure temporary portable rumble strips as a single 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
643.0310.S	Temporary Portable Rumble Strips	LS

Payment is full compensation for providing, relocating, maintaining or replacing, and removing temporary portable rumble strips.

stp-643-020 (20161130)

40. Temporary Pedestrian Asphalt, Item 644.1410; Temporary Pedestrian Surface Plate, Item 644.1430.S.

A Description

This special provision describes providing, maintaining, and removing temporary pedestrian surface.

B Materials

Furnish 1 1/4-inch dense graded aggregate conforming to standard spec 305.2. Furnish:

- Asphaltic surface conforming to standard spec 465.2.
- Pressure treated 2x4 framing lumber, pressure treated 3/4 inch plywood with skid resistant surface coating, and weather resistant deck screws 3 1/2 inch minimum for framing and 1 5/8 inch minimum for plywood.
- 1/4 inch minimum steel plate or commercially available prefabricated plates with skid resistant surface coating conforming to Americans with Disabilities Act Accessibility Guidelines. If placed in the roadway, must be able to handle a vehicle weight of 88,000 lbs.

C Construction

Place, compact, and level a dense graded aggregate foundation before placing the surface.

Provide a firm, stable, and slip-resistant surface layer with vertical joints no higher than 1/4 inch and horizontal joints no wider than 1/2 inch. Sheet materials up to 1 inch thick may be lapped if the edge is beveled at 45 degrees or flatter. Asphalt may also be used to ramp up to materials up to 1 inch thick. Construct conforming to the following:

- Asphalt surface a minimum of 2 inches thick compacted with compactors, tampers, or rollers.
- Framed plywood panels 4 feet wide with a skid resistant surface coating.
- Steel or prefabricated plate with a skid resistant surface coating.

Align parallel to the existing roadway grade or, if outside of a street or highway right-of-way, do not exceed 5 percent longitudinal slope. Provide cross slope of 1 to 2 percent unless the engineer approves a steeper cross slope in writing.

Maintain the surface with a 4 foot minimum clear width and the specified joint and slope requirements. Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 203.3.4 when no longer required.

D Measurement

The department will measure temporary pedestrian surface by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
644.1410.S	Temporary Pedestrian Asphalt	SF
644.1430.S	Temporary Pedestrian Surface Plate	SF

Payment is full compensation for providing, maintaining, and removing temporary pedestrian surface.

stp-644-010 (20150630)

41. Temporary Curb Ramp, Item 644.1601.S.

A Description

This special provision describes providing, maintaining, and removing temporary curb ramps.

B Materials

Furnish materials as follows:

- Asphaltic surface conforming to standard spec 465.2.
- Engineer-approved ready mixed concrete or ancillary concrete conforming to standard spec 602.2 except no QMP is required.
- Commercially available prefabricated curb ramps conforming to Americans with Disabilities Act Accessibility Guidelines.

Furnish yellow detectable warning fields conforming to Americans with Disabilities Act Accessibility Guidelines. Use either an engineer-approved surface-applied type or cast iron from the department's approved products list.

C Construction

Provide and maintain temporary curb ramps, including detectable warning fields, throughout the project duration. Place and compact a dense graded aggregate foundation before placing the curb ramp, unless the curb ramp is to be placed on existing roadway surface.

Remove and dispose temporary curb ramps and associated detectable warning fields when no longer required.

D Measurement

The department will measure temporary curb ramps by each individual ramp, 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
644.1601.S	Temporary Curb Ramp	EACH

Payment is full compensation for providing, maintaining, and removing temporary curb ramps.

stp-644-020 (20150630)

42. Temporary Pedestrian Safety Fence, Item 644.1616.S.

A Description

This special provision describes providing, maintaining, and removing the temporary pedestrian safety fence.

B Materials

Furnish notched metal "T" or "U" shaped fence posts weighing 1 1/3 pounds per foot or more.

Furnish select 2x4 dimensional lumber.

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Tensile Yield:	Avg. 2000 lb per 4-ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4-ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)

Chemical Resistance: Inert to most chemicals and acids

The engineer may allow prefabricated fencing systems conforming to Americans with Disabilities Act Accessibility Guidelines.

C Construction

Provide a continuous safety fence with the top edge free of sharp or rough edges.

Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 204.3 when no longer required.

D Measurement

The department will measure Temporary Pedestrian Safety Fence by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
644.1616.S	Temporary Pedestrian Safety Fence	LF

Payment is full compensation for providing, maintaining, and removing the temporary pedestrian safety fence.

stp-644-025 (20150630)

43. Electrical Service for Meter Breaker Pedestal STH 42 & Main St, Item 656.0200.01.

Add the following to standard spec 656:

A Description

Work under this item shall be according to standard spec 656 and as hereinafter provided.

B (Vacant)

C Construction

The contractor shall be responsible for making early application for the electric service lateral.

Contact Wisconsin Public Service at (877) 444-0888 or email at businesscenter@wisconsinpublicservice.com to make application and request a time of use meter, Option 1. The future monthly invoices can go to the following address:

Wisconsin Dept of Transportation
Expenditure Acct (F15-0198)
P.O. Box 7366
Madison, WI 53707-7366

D (Vacant)

E Payment

The contractor shall pay the utility company promptly for the electric service lateral installation cost.

44. Crack and Damage Survey, Item 999.1500.S.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located at Station 96+50 to Station 154+00.

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

B (Vacant)

C Construction

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

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

ID: _____
Building Location: _____
View looking: _____
Date: _____
Photographer: _____

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

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

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

D Measurement

The department will measure Crack and Damage Survey as single 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
999.1500.S	Crack and Damage Survey	LS

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

stp-999-010 (20170615)

45. Salvage Lighting Unit, Item SPV.0060.01.

A Description

This special provision describes salvaging lighting units from the project, as shown on the plans and as hereinafter described.

B (Vacant)

C Construction

Under the bid item Salvage Lighting Unit, disconnect and salvage the complete lighting unit (pole, luminaire, and lamp) as shown in the plan or as designated by the engineer.

Pole wiring and fusing within the salvaged lighting units shall be discarded. Disconnect from existing branch circuits prior to salvaging.

Salvaged materials shall be disassembled as direct by the engineer and shall be delivered to 3626 Gibraltar Road, Fish Creek, WI 54212. Coordinate delivery with Maintenance Supervisor Patrick Strantz at (920) 421-2139. Any damage to the salvaged materials resulting from the hauling and storage operation shall be repaired or replaced in-kind at the contractor's expense.

D Measurement

The department will measure Salvage Lighting Unit as each individual lighting unit, acceptably salvaged and delivered.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Salvage Lighting Unit	EACH

Payment is full compensation for salvaging and storage of all existing lighting unit components including poles, luminaires, lamps, seasonal display receptacle, transformer bases, internal pole wiring and fusing, and all pole accessories, and hardware and fittings.

46. Reconnecting Existing Storm Sewer Laterals, Item SPV.0060.02.

A Description

This special provision describes reconnecting existing storm sewer laterals to new structures or existing pipe.

B Materials

Provide culvert pipe concrete collars according to standard spec 520.2.4.

Provide couplings that meet standard spec 608.2.

C Construction

Identify all private laterals in existing structures prior to that structure's removal. Remove existing lateral pipes to the next good joint and replace in-kind. Verify that positive drainage is achieved when connecting to the new inlet or curb outlet structure. The contractor will be allowed to salvage any structurally sound pipe that was removed with prior approval by the engineer. Connect the existing pipes to the new pipes with the appropriate coupling, concrete collar or by means approved by the engineer. Any additional pipe or materials required to reconnect the storm sewer laterals are considered incidental to this bid item.

D Measurement

The department will measure Reconnect Existing Storm Sewer Laterals by each lateral, acceptably connected and approved in the field.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Reconnect Existing Storm Sewer Lateral	EACH

Payment is full compensation for removal of existing pipes, furnishing and installing all materials, couplings, concrete collars, and pipe.

(NER13-0813)

47. Remove Lighting Unit, Item SPV.0060.03.

A Description

This special provision describes removing lighting units from the project as shown in the plans and hereinafter provided.

B (Vacant)

C Construction

Under the bid item Remove Lighting Unit, disconnect and remove the complete lighting unit (pole, luminaire, and lamp) from the locations shown in the Plan and/or as designated by the engineer.

Pole wiring and fusing within the removed lighting units shall be discarded. Disconnect from existing branch circuits prior to removing.

Removed materials shall become the property of the contractor and disposed of properly.

D Measurement

The department will measure Remove Lighting Unit as each individual lighting unit, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Remove Lighting Unit	EACH

Payment is full compensation for removing lighting unit components including poles, luminaires, lamps, seasonal display receptacle, transformer bases, internal pole wiring and fusing, and all pole accessories, hardware and fittings.

48. Install Lighting Unit Type Special, Item SPV.0060.04.

A Description

This special provision describes installing a Town of Gibraltar furnished lighting unit complete with LED acorn luminaire, pole, and accessories as shown in the plans and hereinafter provided.

B Materials

A decorative lighting unit complete with pole, luminaire and wireless control node will be furnished to the contractor by the Town. A detail of Lighting Unit Type Special is shown in the plans. Lighting units will be available at the start of the construction project and will be located at the Town maintenance facility – 3626 Gibraltar Road, Fish Creek, WI 54212. Coordinate access to maintenance facility with Maintenance Supervisor Patrick Strantz at (920) 421-2139.

C Construction

Under the bid item Install Lighting Unit, furnish and install all necessary miscellaneous accessories and hardware to complete the installation of the lighting units. Lighting Unit Type Special shall be installed at locations indicated in the Plans.

Three 1/c No. 12 stranded, type XHHW-2, wires shall be used to connect the luminaires and receptacles to their respective branch conductors in the pole base. Each luminaire shall be protected by two 6-amp fuses. Each GFCI receptacle shall be protected by one 10-amp fuse.

All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube or approved equal) by the contractor prior to assembly.

After completing pole erection using normal pole shaft raking techniques, ensure the centerline of the shaft is plumb.

The contractor shall follow manufacturer’s instructions regarding luminaire and pole installation.

D Measurement

The department will measure Install Lighting Unit Type Special as each individual lighting unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Install Lighting Unit Type Special	EACH

Payment is full compensation for installing all Town furnished materials, including luminaire, pole, wireless node, and all pole accessories, and furnishing all hardware and fittings necessary to install the lighting unit in a workable first class condition.

49. Lighting Control Cabinet Base Type Special, Item SPV.0060.05.

A Description

This special provision describes furnishing and installing a concrete lighting control cabinet foundation as shown on the plans and as hereinafter provided.

B Materials

Supply materials that comply with standard spec 654.2.

C Construction

The Lighting Control Cabinet Base Type Special shall have an anchor bolt pattern, size, exposure and orientation that will accommodate the lighting control cabinet identified in the details in the plan.

D Measurement

The department will measure Lighting Control Cabinet Base Type Special, acceptably completed according to the contract, and accepted as each individual unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Lighting Control Cabinet Base Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including anchor bolts, conduit, ground rods, hardware and fittings.

50. Concrete Bases Type Special, Item SPV.0060.06.

A Description

This special provision describes furnishing and installing lighting a concrete light foundation as shown on the plans and as hereinafter provided.

B Materials

Supply materials that comply with standard spec 654.2.

C Construction

The Concrete Bases Type Special shall be modified to have an anchor bolt circle, orientation, and anchor bolt size that will accommodate the pole manufacturer's requirements. Anchor bolt exposure shall accommodate the specified pole base requirements. Bar steel reinforcement shall be modified as necessary to accommodate new anchor bolt placement. In locations where lighting units are installed near retaining walls, the rigid concrete forms shall be placed prior to backfilling straps for the retaining wall. Coordinate schedule with general contractor and engineer.

D Measurement

The department will measure Concrete Bases Type Special, acceptably completed according to the contract and accepted, as each individual unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Concrete Bases Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including anchor bolts, conduit, hardware and fittings.

51. Trimming Trees, Item SPV.0060.07.

A Description

This special provision describes trimming and disposing of tree limbs as shown on the plans and as hereinafter provided.

B (Vacant)

C Construction

Trim tree limbs up to a height of 3-FT from the ground, measured at the trunk of the tree, that are located within the slope intercept and hinder construction activities.

Dispose of the tree limbs as specified in standard spec 201.3.

D Measurement

The department will measure Trimming Trees by each tree trunk where limbs were acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Trimming Trees	EACH

Payment is full compensation for handling, hauling, piling, burning, burying, trimming, chipping, wound treatment, rehandling, and disposing of waste debris.

52. Pipe Inlet Structure, Item SPV.0060.08.

A Description

This special provision describes installing pipe inlet drainage structure as shown in the plans and as hereinafter provided.

B Materials

Furnish reinforced concrete pipe 12-Inch C-III conforming to the material requirements of standard spec 608.2.1.

Furnish pipe inlet grate covers meeting ASTM A-48 Class 35B, cast gray iron, meeting plan dimensions.

Furnish concrete collars and concrete structure base according to standard spec 520.2.4.

For granular backfill use a maximum size of any gravel or stone that meets gradation for 1 ¼-Inch base listed under standard spec 305.2.2.1.

Furnish Brick conforming to standard spec 519.

Furnish base aggregate dense that conform to 1 ¼-Inch Base aggregate dense material specified in standard spec 305 manual. QMP testing for base aggregate dense is waived for this item.

C Construction

Provide culvert pipe inlet structures with pipe inlet grate. Excavate, place granular backfill, and backfill as the plans show. Dispose of surplus or unsuitable material as specified under standard spec 205.3.12.

Construct concrete collars and concrete structure base using concrete conforming to standard spec 520.2.4 where and as the plans show.

D Measurement

The department will measure Pipe Inlet Structure as each individual pipe inlet structure, acceptably completed.

E Payment

The department will pay for measured quanttieis at the contract unit price under the follow bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Pipe Inlet Structure	EACH

Payment for Pipe Inlet Structure is full compensation for providing reinforced concrete pipe, pipe grate inlet (iron casting), granular backfill, concrete collars, concrete structure base, excavating, backfilling, and disposing of surplus material.

53. Manhole Special 8-FT, Item SPV.0060.09.

A Description

This special provision describes installation of Manholes 8-FT Special as shown in the plans and as hereinafter provided.

B Materials

Furnish materials according to standard spec 611.2.

C Construction

Construct according to standard spec 611.3.

Structure lid shall have a 2-FTx3FT opening to accommodate Type H-S casting.

Structure shall have a 2-FT sump below lowest connecting pipes invert elevation.

See construction details.

D Measurement

The department will measure Manholes 8-FT Special as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Manhole Special 8-FT	EACH

Payment for Manhole Special 8-FT will meet requirements for manholes shown in standard spec 611.5.

54. Removing Landscape Rocks, Item SPV.0060.10.

A Description

This special provision describes removing and disposing the existing landscape rocks as shown in the plans and according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Remove landscaping rocks within the project limits as shown on the plans or as directed by the engineer. Rocks shall be removed from the grading limits of the project and disposed of as specified for disposing of materials under standard spec 203.3.4.

D Measurement

The department will measure Remove Landscape Rocks as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Remove Landscape Rocks	EACH

Payment is full compensation for removing landscape rocks from the grading limits, and for disposal of the land scape rock.

55. Lighting Control Cabinet Type Special, Item SPV.0060.11.

A Description

This special provision describes furnishing and installing a lighting control cabinet complete with a meter socket as shown on the plans and as hereinafter provided. Work under this item shall be according to standard spec 656 with the following additions.

B Materials

The cabinet type shall be detailed in the plans. A rigid steel or Schedule 80 PVC conduit shall be stubbed out of the control cabinet base to accommodate the energy provider's service conduit and conductors.

C Construction

The contractor is responsible for making early application for the electric service lateral. Contact Wisconsin Public Service at (877) 444-0888 or email at businesscenter@wisconsinpublicservice.com to make application and request a time of use meter, Option 1. The future monthly invoices can go to the following address:

Town of Gibraltar
PO Box 850
Fish Creek, WI 54212-0850

D Measurement

The department will measure Lighting Control Cabinet Type Special, acceptably completed, according to the contract and accepted as each unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.11	Lighting Control Cabinet Type Special	EACH

Payment is full compensation for furnishing and installing all materials, including lighting control cabinets, meter socket, hardware and fittings; and for coordination with and/or any payments to energy provider necessary to complete the contract work.

56. Concrete Base Spread Footing, Item SPV.0060.12.

A Description

This special provision describes furnishing and installing a concrete spread footing light foundation as shown on the plans and as hereinafter provided.

B Materials

The footing shall be constructed with materials and methods as specified in the details in the plan.

C Construction

The Concrete Base Spread Footing shall be constructed to have an anchor bolt circle, orientation, and anchor bolt size that will accommodate the pole manufacturer's requirements. Anchor bolt exposure shall accommodate the specified pole base requirements. Bar steel reinforcement shall be modified as necessary to accommodate anchor bolt placement. In locations where lighting units are installed near retaining walls, the rigid concrete forms shall be placed prior to backfilling straps for the retaining wall. Coordinate schedule with general contractor and engineer.

D Measurement

The department will measure Concrete Base Spread Footing, acceptably completed according to the contract and accepted, as each unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Concrete Base Spread Footing	EACH

Payment is full compensation for furnishing and installing all materials, including anchor bolts, conduit, ground rod, hardware and fittings.

57. Street Sweeping, Item SPV.0075.01.

A Description

Remove small dirt and dust particles from the roadway using a street sweeper periodically during the project as directed by the engineer.

B (Vacant)

C Construction

Provide a self-contained mechanical or air conveyance street sweeper and dispose of the material collected.

D Measurement

The department will measure Street Sweeping by the hour that the street sweeper is on the project picking up and removing debris from the roadway, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0075.01	Street Sweeping	HRS

Payment is full compensation for furnishing street sweeper; sweeping roadway; and disposing of the material collected.

(NER15-0430)

58. Fence Chain Link Polymer Coated 4-Ft., Item SPV.0090.01.

A Description

This special provision describes furnishing and installing a new polymer-coated fence system on structures according to the pertinent plan details, as directed by the engineer and as hereinafter provided. The color of all components in this fence system shall be the same and shall be as specified on the plans.

B Materials

All materials for this fence system shall be new stock, free from defects impairing strength, durability, and appearance. Fabric shall be produced by methods recognized as good commercial practice. Wire used in the manufacture of the fabric shall be capable of being woven into fabric without the polymer-coating cracking or peeling. Pipes used in framework shall be straight, true to section and free of defects. All burrs at the ends of pipes shall be removed before galvanizing. The polymer-coating shall be a dense impervious covering, applied without voids, tears or cuts that reveal the substrate. Excessive roughness, bubbles, blisters and flaking in the polymer-coating will be a basis for rejection.

B.1 Fabric

Provide steel chain link fence fabric that conforms to the requirements of ASTM F668, Class 2b, a polymer-coating fused and adhered to wire that is zinc-coated. Provide fabric woven from 9-gage wire using plan specified mesh size, diamond pattern, with both the top and bottom selvages knuckled. The minimum breaking strength of the wire shall be 1290 lbs. The color of polymer-coating shall conform to the requirements of ASTM F934.

B.2 Framework

Provide steel rails, posts and post sleeves conforming to the requirements of ASTM F1083, Standard Weight Pipe (Schedule 40) of the size (O.D.) and weight as shown on the plans. The minimum yield strength shall be 30,000 psi and the minimum tensile strength shall be 48,000 psi. These components shall be zinc-coated inside and outside by the hot-dip process as stated in ASTM F1083. Provide polymer-coating over zinc-coating that conforms to ASTM F1043. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components. Weld base plate to posts or post sleeves and complete any additional welding of components before galvanizing.

B.3 Fittings

Provide end post caps, line post caps, top rail sleeves, rail ends, line rail clamps, brace bands, tension bands, tension bars, and tie wires that are steel and conform to the requirements of ASTM F626. Tie wires shall be round and 9-gage wire. These components (excluding tie wires) shall be zinc-coated by the hot-dip process as stated in ASTM F626. Provide polymer-coating over zinc-coating on components (excluding tie wires) that conforms to the requirements of ASTM F626. For tie wires, provide polymer-coating on wire that is zinc-coated using the same procedure as used for the wires in the fence fabric. End post caps and line post caps shall fit tightly over posts to prevent moisture intrusion. Supply dome style caps for end posts and loop type caps for line posts. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components.

B.4 Bolts

All bolts are to be supplied with lock washers and nuts. Use galvanized steel bolts, nuts and washers per plan details.

B.5 Tests

B.5.1 Fabric and Tie Wire

Breaking Strength: ASTM A370

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM F668

Adhesion: ASTM F668

Accelerated Aging Test: ASTM F668, D1499

Mandrel Bend Test: ASTM F668

B.5.2 Framework

Tensile and Yield Strength: ASTM E8

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM E376

Adhesion: ASTM F1043

Accelerated Aging Test: ASTM F1043, D1499

B.5.3 Fittings

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM F626

Adhesion: ASTM F1043 (same test as for framework)

Accelerated Aging Test: ASTM F1043, D1499 (same test as for framework)

B.6 Submittals

In addition to the engineer, send submittals listed in this section to the name below for informational purposes:

David Nelson
WisDOT (Bureau of Structures)
4802 Sheboygan Ave. (Room 601)
PO Box 7916
Madison, WI 53707

B.6.1 Shop Drawings

Submit shop drawings showing the details of fence construction. Show the fence height, post spacing, rail location, and all dimensions necessary for the construction of the chain link fence. Label the end posts, line posts, rails, post sleeves, top rail sleeves, bolts and fittings. State the polymer-coating type used on the fabric, framework and fittings and the Class of coating used on the fabric. State the color of polymer-coating to be used on the fence components. For the fabric, state the wire gage, mesh size, and type of selvages used. For the framework, state the size (O.D.) and unit weight for the posts and rails. For the fittings, state the size for top rail sleeves, brace bands, tension bands, tension bars, line rail clamps, size and type of bolts, and the tie wire gage. State the material type used for fabric, framework, and fittings. Also give the breaking strength for the fabric wire and the tensile and yield strength properties for the framework.

B.6.2 Specification Compliance

Submit certification of compliance with material specifications. Provide material certification and test documentation for fabric, framework, fittings and hardware that shows that all materials meet or exceed the specifications of this contract and the tests in B.5. This document shall provide the name, address and phone number of the manufacturer, and the name of a contact person.

C Construction

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and condition of materials is in conformance with these specifications. If polymer-coating is damaged, contractor shall repair or replace components as necessary to the approval of the engineer at no additional cost to the owner. Carefully store material off the ground to ensure proper ventilation and drainage and to provide protection against damage caused by ground moisture. Handle all polymer-coated material with care.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to polymer-coated surfaces, touch-up the finish in conformance with the manufacturer's recommendations. Provide touch-up coating such that repairs are not visible from a distance of 6-feet. If damage is beyond repair, the fencing component shall be replaced at no additional cost to the owner. The contractor shall provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

C.3 General

Install the chain link fence according to ASTM F567 and the manufacturer's instructions. The contractor shall provide staff that is thoroughly familiar with the type of construction involved and materials and techniques specified. Chain link fabric shall be installed on the side of the posts indicated on the plans. Fabric shall be attached to the end posts with tension bars and tension bands. It shall be attached to rails, and posts without tension bands, with tie wires. The fabric shall be installed and pulled taut to provide a smooth and uniform appearance free from sag, without permanently distorting the fabric diamond or reducing the fabric height. Install top rail to pass through line post caps and form a continuous brace between end posts. Minimum length of top rail between splices shall be 20-feet. Splice top rail at joints with sleeves for a rigid connection. Locate splices near ¼ point of post spacing. Heads of bolts shall be on the side of the fence adjacent to pedestrian traffic.

D Measurement

The department will measure Fence Chain Link Polymer-Coated 4-Ft. by the linear foot, satisfactorily furnished and installed.

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	Fence Chain Link Polymer Coated 4-Ft.	LF

Payment is full compensation for fabricating, galvanizing and polymer-coating all fence components, and transporting to jobsite; for erecting components to create a polymer-coated fence system, including any touch-up and repairs.

59. Concrete Cold Weather Covering Curb and Gutter, Plastic 1 Layer, Item SPV.0090.02; Concrete Cold Weather Covering Curb and Gutter, Plastic 2 Layers, Item SPV.0090.03; Concrete Cold Weather Covering Curb and Gutter, Plastic/Hay/Plastic, Item SPV.0090.04; Concrete Cold Weather Covering Sidewalk, Plastic 1 Layer, Item SPV.0165.04; Concrete Cold Weather Covering Sidewalk, Plastic 2 Layers, Item SPV.0165.05; Concrete Cold Weather Covering Sidewalk, Plastic/Hay/Plastic, Item SPV.0165.06.

A Description

Place protective covering according to standard spec 415.3.13, the plans, standard detail drawings, and as hereinafter provided.

B Materials

Furnish materials that meet the requirements specified in standard spec 415.3.13.2.

C (Vacant)

D Measurement

The department will measure Concrete Cold Weather Covering, Curb and Gutter in length by the linear foot, acceptably completed.

The department will measure Concrete Cold Weather Covering, Sidewalk in area by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Concrete Cold Weather Covering, Curb and Gutter, Plastic 1 Layer	LF
SPV.0090.03	Concrete Cold Weather Covering, Curb and Gutter, Plastic 2 Layers	LF
SPV.0090.04	Concrete Cold Weather Covering, Curb and Gutter, Plastic/Hay/Plastic	LF
SPV.0165.04	Concrete Cold Weather Covering, Sidewalk, Plastic 1 Layer	SF
SPV.0165.05	Concrete Cold Weather Covering, Sidewalk, Plastic 2 Layers	SF
SPV.0165.06	Concrete Cold Weather Covering, Sidewalk, Plastic/Hay/Plastic	SF

Payment is full compensation for supplying the plastic, hay, and material sufficient to weight down the insulating materials to withstand wind; and for furnishing all labor, tools, equipment, and incidentals required to place, remove, replace, and dispose of all covering materials as required during normal concreting operations. Heating of water or aggregates, or both, if deemed necessary by the contractor to maintain placement temperature, is incidental to this item.

(NER11-0214)

60. Joint Ties, Item SPV.0090.05.

A Description

This special provision describes providing joint ties for reinforced concrete storm sewer pipe at locations designated in the plans or as directed by the engineer.

B Materials

Furnish joint ties that are hot-dip galvanized per ASTM A153.

C Construction

Tie all segments of concrete pipe together between structures as the plans show. Tie the joints in accordance with standard detail drawings for reinforced concrete pipe. Joint ties are not required for storm sewer pipe material other than concrete pipe.

D Measurement

The department will measure Joint Ties by the linear foot of pipe, acceptably completed.

Joint ties on concrete infall and outfall pipes, as required in the standard specifications, will remain incidental to the associated bid item.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.05	Joint Ties	LF

Payment is full compensation for installing joint ties for reinforced concrete storm sewer pipe.

61. Wall Modular Block Mechanically Stabilized Earth (R-15-11), Item SPV.0165.01; Wall Modular Block Mechanically Stabilized Earth (R-15-12), Item SPV.0165.02.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according 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.

This special provision describes the quality management program (QMP) for Mechanically Stabilized Earth (MSE) walls. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of the MSE wall, which meets all the requirements of this provision.

This special provision describes contractor quality control (QC) sampling and testing for backfill density testing, documenting those results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Mechanically Stabilized Earth 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 according 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 electronically to the engineer and Bureau of Structures for review and acceptance. 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 according to Table 11.5.7-1 in AASHTO LRFD.

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

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as stated 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 according to AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and wall facing-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. 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 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 according to AASHTO LRFD 11.10.2.3.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 6.0 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be two times the block depth (front face to back face) or 32 inches, whichever is less. The first (bottom) layer of reinforcement shall be placed no further than 12 inches above the top of the leveling pad or the height of the block, but at least one block height above the leveling pad. The last (top) layer of soil reinforcement shall be no further than 21 inches below the top of the uppermost block.

All soil reinforcement required for the reinforced soil zone shall be connected to the wall facing.

Soil reinforcement shall be fabricated or designed to avoid piling, drainage structures or other obstacles in the fill without field modifications. Unless approved by the Bureau of Structures cutting or altering of the basic structural section of either the strip or grid at the site is prohibited, a minimum clearance of 3" shall be maintained between any obstruction and reinforcement, and splicing reinforcement is not allowed.

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 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 concrete leveling pad. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads 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.

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, standard spec 501.2.7 for slag, or standard spec 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 according to 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 type and 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 depth (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.

For concrete 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.

B.3.2 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.3.3 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 No. 1 as given in standard spec 501.2.5.4.4. 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.

Wall Backfill, Type B, shall be placed in a zone extending horizontally from 1 foot behind the back face of the wall to 1 foot beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

Use natural sand or a mixture of sand with gravel, crushed gravel or crushed stone. Do not use foundry sand, bottom ash, blast furnace slag, crushed/recycled concrete, crushed/milled asphaltic concrete or other potentially corrosive material.

Provide material conforming to the following gradation requirements as per AASHTO T27.

Sieve Size	% by Weight Passing
1 inch	100
No. 40	0 - 60
No. 200	0 - 15

The material shall have a liquid limit not greater than 25, as per AASHTO T89, and a plasticity index not greater than 6, as per AASHTO T90. Provide the percent by weight, passing the #4 sieve.

In addition, backfill material Type A and Type B shall meet the following requirements.

Test	Method	Value
pH	AASHTO T-289	4.5-9.0
Sulfate content [1]	AASHTO T-290	200 ppm max.
Chloride content [1]	AASHTO T-291	100 ppm max.
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.
Organic Content [1]	AASHTO T-267	1.0% max.
Angle of Internal Friction	AASHTO T-236[2]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2)

[1] Requirement does not apply to walls with non-metallic reinforcement.

[2] If the amount of P-4 material is greater than 60%, use AASHTO 236 with a standard-size shear box. Test results of this method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

If the amount of P-4 material is less than or equal to 60%, two options are available to determine the angle of internal friction. The first method is to perform a fractured faces count, per ASTM D5821, on the R-4 material. If more than 90% of the material is fractured on one face and more than 50% is fractured on two faces, the material meets the specifications and the angle of internal friction can be assumed to be 30 degrees. The second method allows testing all P-1” material, as per AASHTO T-236, with a large shear box. Test results of this second method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

Prior to placement of the backfill, obtain and furnish to the engineer a certified report of test results that the backfill material complies with the requirements of this specification. Specify the method used to determine the angle of internal friction. This certified report of test shall be less than 6 months old. Tests will be performed by a certified independent laboratory. In addition, when backfill characteristics and/or sources change, provide a certified report of tests for the new backfill material. Additional certified report of tests are also required. These additional backfill tests may be completed at the time of material production or material placement, with concurrence of the engineer. If this additional testing is completed at the time of material production, complete testing for every 2000 cubic yards of backfill or portion thereof. If this additional testing is completed at the time of material placement, complete testing for every 2000 cubic yards of backfill, or portion thereof, used per wall. For the additional required testing for every 2000 cubic yards of backfill placement, if the characteristic of the backfill and/or the source has not changed then Angle of Internal Friction tests are not included in the additional required testing. All

certified reports of test results shall be less than 6 months old and performed by a certified independent laboratory.

B.3.4 Soil Reinforcement

B.3.4.1 Geogrids

Geogrid supplied as reinforcing members shall be manufactured from long chain polymers limited to polypropylene, high-density polyethylene, polyaramid, and polyester. Geogrids shall form a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The minimum grid aperture shall be 0.5 inch. The geogrid shall maintain dimension stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. The geogrid shall be furnished in a protective wrapping that shall prevent exposure to ultraviolet radiation and damage from shipping or handling. The geogrid shall be kept dry until installed. Each roll shall be clearly marked to identify the material contained.

The wall supplier shall provide the nominal long-term design strength (T_{al}) and nominal long-term connection strength, Talc as discussed below.

Nominal Long-Term Design Strength (T_{al})

The wall supplier shall supply the nominal long-term design strength (T_{al}) used in the design for each reinforcement layer and shall be determined by dividing the Ultimate Tensile Strength (T_{ult}) by the factors RF_{ID}, RF_{CR}, RF_{D}.

Hence,

$$T_{al} = \frac{T_{ult}}{RF_{ID} \, x RF_{CR} \, x RF_{D}}$$

where:

T_{ult} = Ultimate tensile strength of the reinforcement determined from wide width tensile tests (ASTM D6637) for geogrids based on the minimum average roll value (MARV) for the product.

RF_{ID} = Strength reduction factor to account for installation damage to the reinforcement. In no case shall RF_{ID} be less than 1.1.

RF_{CR} = Strength reduction factor to prevent long-term creep rupture of the reinforcement. In no case shall RF_{CR} be less than 1.2.

RF_{D} = Strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation. In no case shall RF_{D} be less than 1.1.

Values for RF_{ID}, RF_{CR}, and RF_{D} shall be determined from product specific test results. Guidelines for determining RF_{ID}, RF_{CR}, and RF_{D} from product specific data are provided in FHWA Publication No. FHWA-NHI-10-024 and FHWA–NHI-10-025 “Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes”.

Nominal Long-term Connection Strength T_{ac}

The nominal long term connection strength, T_{ac}, shall be based on laboratory geogrid connection tests between wall facing and geogrids. T_{ac} shall be as given below

$$T_{ac} = \frac{T_{ult} * CR_{cr}}{RF_{D}}$$

where:

T_{ac} = Nominal long-term reinforcement facing connection strength per unit reinforcement width at a specified confining pressure.

T_{ult} = Ultimate tensile strength of the reinforcement for geogrids defined as the minimum average roll value (MARV) for the product.

CR_{cr} = Long term connection strength reduction factor to account for reduced ultimate strength resulting from connection.

RF_D = Strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation.

T_{ac} shall be developed from the tests conducted by an independent laboratory on the same facing blocks and geogrids as proposed for the wall and shall cover a range of overburden pressures comparable to those anticipated in the proposed wall. The connection strength reduction factor CR_{cr} shall be determined according to long-term connection test as described in Appendix B of FHWA Publication No. FHWA-NHI 10-025 “Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes”. CR_{cr} may also be obtained from the short term connection test meeting the requirements of NCMA test method SRWU-1 in Simac et al 1993 or ASTM D4884.

The contractor shall provide a manufacturer’s certificate that the Tult (MARV) of the supplied geogrid has been determined according to ASTM D4595 or ASTM D6637 as appropriate. Contractor shall also provide block to block and block to reinforcement connection test reports prepared and certified by an independent laboratory. Also provide calculations according to AASHTO LRFD, and using the results of laboratory tests, that the block-geogrid connections shall be capable of resisting 100% of the maximum tension load in the soil reinforcements at any level within the wall, for the design life of the wall system.

B.3.4.2 Galvanized Metal Reinforcement

In lieu of polymeric geogrid earth reinforcement, galvanized metal reinforcement may be used. Design and materials shall be according to AASHTO LRFD 11.10.6.4.2. The design life of steel soil reinforcements shall also comply with AASHTO LRFD. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be according to standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. 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, soil reinforcement, 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.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. Place and compact material beyond the reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

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.

Compact all backfill Type B as specified in standard spec 207.3.6. Compact the backfill Type B to 95.0% of maximum dry density as determined by AASHTO T-99 (modified to compute densities to the nearest 0.1 pcf).

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. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 6 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

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 according to the manufacturer's directions.

The MSE reinforcement shall lay horizontally on the top of the most recently placed and compacted layer of MSE backfill. Bending of MSE reinforcement that result in a kink in the reinforcement shall not be allowed. If skewing of the reinforcement is required due to obstructions in the reinforced fill, the maximum skew angle shall not exceed 15 degrees from the normal position unless a greater angle is shown on the plans. The adequacy of the skewed reinforcement in such a case shall be addressed by supporting calculations.

C.3.2 Soil Reinforcement

C.3.2.1 Geogrid Layers

Place soil reinforcement at the positions and to the lengths as indicated on the accepted shop drawings. Take care that backfill placement over the positioned soil reinforcement elements does not cause damage or misalignment of these elements. Correct any such damage or misalignment as directed by the engineer. Do not operate wheeled or tracked equipment directly on the soil reinforcement. A minimum cover of 6 inches is required before such operation is allowed.

Place and anchor geogrid material between wall unit layers in the same manner as used to determine the Geogrid Block-to-Connection Strength. Place the grid material so that the machine direction of the grid is perpendicular to the wall face. Each grid layer shall be continuous throughout the lengths indicated on the plans. Join grid strips with straps, rings, hooks or other mechanical devices to prevent movement during backfilling operations. Prior to placing backfill on the grid, pull the grid taunt and hold in position with pins, stakes or other methods approved by the engineer.

C.3.2.2 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C.4 Quality Management Program

C.4.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform MSE wall construction work before the engineer reviews and accepts the plan. Construct the project as the plan provides.

Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
3. A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
4. Descriptions of stockpiling and hauling methods.
5. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
6. Location of the QC laboratory, retained sample storage, and other documentation.
7. A summary of the locations and calculated quantities to be tested under this provision.
8. A proposed sequencing plan of wall construction operations and random test locations.

C.4.2 Quality Control Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at each grading site during all wall backfill placement, compaction, and nuclear testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician Ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at http://www.atwoodsystems.com/. Ensure that the gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to ASTM D6938 and CMM 8-15 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Perform each test for 4 minutes of nuclear gauge count time.

Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department.

C.4.4 Documentation

(1) Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.

(2) Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.

(3) Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

Perform compaction testing on the backfill. Conform to CMM 8-15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 150 cubic yards of backfill, or major portion thereof in each lift. A minimum of one test for every lift is required. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Perform 1 gradation test every 750 cubic yards of fill and one 5-point Proctor test (or as modified in C.2) every 2,250 cubic yards of fill. Provide the region split samples of both within 72 hours of sampling, at the region laboratory. Test sites shall be selected using ASTM Method D3665. Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours of sampling.

C.4.6 Department Testing

C.4.6.1 General

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.4.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

(2) The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

(3) The department will locate density tests and gradation samples randomly, at locations independent of the contractor's QC work. The department will split each Proctor and gradation QV sample, testing half for QV, and retaining the remaining half for 10 business days.

(4) The department will conduct QV Proctor and gradation tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

(5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If density QV test results are nonconforming, the area shall be reworked until the density requirements of this special provision are met. If the gradation test results are nonconforming, standard spec 106.5 will apply. Differing QC and QV nuclear density values of more than 1.5 pcf will be investigated and resolved. QV density tests will be based on the appropriate QC Proctor test results, unless the QV and QC Proctor result difference is greater than 3.0 pcf. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.4.6.3 Independent Assurance (IA)

(1) Independent assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Reviewing required worksheets and control charts.
6. Requesting that testing personnel perform additional sampling and testing.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E178 to evaluate potential statistically outlying data.

(2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Modular Block Mechanically Stabilized Earth by the square foot acceptably completed, measured at the front face of wall as defined by the pay limits the contract plans show. Unless the engineer directs in writing, a change to the limits indicated on the contract plan, wall area constructed above or below these limits will not be measured for payment.

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 Mechanically Stabilized Earth (R-15-11)	SF
SPV.0165.02	Wall Modular Block Mechanically Stabilized Earth (R-15-12)	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 and leveling pad; constructing the retaining system including drainage system; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

Payment limit for all walls is the line of minimum embedment per section B.2. No payment will be made for additional embedment detailed for construction purposes. Parapets, railings, and other items above the wall cap or coping will be paid for separately. Vehicle barrier and its support will be paid separately.

Any required topsoil, fertilizer, seeding or sodding and mulch will be paid for at the contract unit price for those items.

SPV.0165.01&02 (20170629)

62. Crosswalk Apron Pavers, SPV.0165.03.

A Description

This special provision describes furnishing and installing crosswalk apron pavers according to the pertinent plan details, as directed by the engineer and as hereinafter provided.

B Materials

All materials for this concrete paver system shall be new stock, free from defects impairing strength, durability, and appearance.

B.1 Concrete Pavers

Concrete Paver: Unilock Hollandstone 4x8-Inch 6CM smooth finish color – Sandstone, Belgard Holland Stone Paver 4x8-Inch 6CM smooth finish color-linen, Rochester Holland 4.25-8.5-Inch 6 CM smooth finish color-buff or approved equal.

B.2 Joint Sand

Provide washed, clean, non-plastic material, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock. Do not use limestone screenings, stone dust, or sand that does not conform to the grading requirements of ASTM C 33.

B.3 Setting Bed Sand

Provide washed, clean, non-plastic material, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock. Do not use limestone screenings, stone dust, or sand material that does not conform to the grading requirements of ASTM C33. Do not use mason sand or sand conforming to ASTM C 144.

B.4 Sub-Base Aggregate

Provide Base Aggregate materials conforming to ASTM D 2940 and gradation requirements as presented in table below.

ASTM D 2940	
Sieve Size	**Percent Passing**
2 in (50mm)	100
1-1/2in (37.5mm)	95 to 100
¾ in (19mm)	70 to 92
3/8in (9.5 mm)	50 to 70
No. 4 (4.75mm)	35 to 55
No. 30 (600 um)	12 to 25
No. 200 (75 um)	0 to 8

B.5 Edge Restraints

Plastic and metal edge restraints: Permaloc “StructurEdge” – 3/16” x 2-1/4” heavy duty paver restraint, Pave Tech “Pave Edge Rigid”, or SEK-Surebond “Snap Edge Paver Restraint”, or approved equal.

C Construction

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and condition of materials is in conformance with these specifications. Stockpile Setting Bed Sand, Joint Sand, and Base such that they are free from standing water, uniformly graded, free of any organic material or sediment, debris, and ready for placement. Excavate soil to a depth of 9 ½ inches. Keep area where pavers are to be constructed free from sediment during entire job. Should materials become contaminated with sediment, remove and replace with clean materials.

Compact soil subgrade uniformly to at least 95 percent of Standard Proctor Density per ASTM 698. Provide 6 inches Subbase, compact to 95 percent Standard Proctor Density as per ASTM D 698 to prevent infiltration of the bedding sand into the base both during construction.

Provide concrete edge restraints between pavers and landscape areas, on a minimum of 6” of Base Aggregate. Follow manufacturer’s recommendation for installation.

Provide and spread Setting Sand Bed evenly over the Base Aggregate course and screed to a nominal thickness of 1 inch.

Provide Concrete Pavers using running bond pattern, laid parallel with road centerline. Cut Concrete Pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges where less than a full paver is required. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable. Vibrate Concrete Pavers into leveling course with a low-amplitude plate vibrator. Conduct at least three passes. Remove any cracked or structurally damaged Concrete Pavers and replace with new units prior to installing Joint Sand material.

Provide, spread, and sweep dry Joint Sand into joints immediately after vibrating pavers into Setting Bed Sand Course until full. Vibrate pavers and add Joint Sand material until joints are filled to surface of paver, then remove excess material. This will require at least 4 passes with a plate compactor. Remove excess Joint Sand broom clean from surface when installation is complete.

Verify that final elevations match curb line and adjacent concrete pavement elevations.

D Measurement

The department will measure Crosswalk Apron Pavers by the square foot, satisfactorily furnished and installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.03	Crosswalk Apron Pavers	SF

Payment is full compensation for all excavation, grading, shaping and compacting: and for furnishing and installing concrete pavers, base, setting sand bed, and joint sand necessary to create a crosswalk apron paver system, including any touch-up and repairs.

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:

107.17.1 General

Replace paragraph seven with the following effective with the December 2018 letting:

(7) Have a professional engineer registered in the state of Wisconsin sign and seal the shop drawings. At least 30 calendar days before starting falsework, form, or shoring construction; submit a PDF file of shop drawings to the railroad's chief engineering officer and to the engineer. The engineer and the railroad may review the shop drawings. If the engineer or the railroad finds the shop drawings unsatisfactory, the contractor shall make the required changes. A satisfactory shop drawing review does not relieve the contractor of responsibility and liability for the structural integrity and proper functioning of the falsework, forms, or shoring.

109.1.1 General

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

(1) The engineer will use the US standard system to measure all work completed under the contract. The engineer will determine quantities of materials the contractor furnishes and work the contractor performs using measurement methods and computations conforming to standard engineering practice, modified to meet department requirements. The engineer will document these measurements using department procedures.

(2) The engineer will measure the work as the contract measurement subsection for individual items specifies. The department will measure the actual quantities of work the contractor acceptably completes and make final payment based on those actual measured quantities except as follows:

1. If the measurement subsection for a bid item specifically restricts the quantity measured for payment or allows for use of conversion factors.
2. If the engineer executes a contract change order modifying the method of measurement for specific bid items, the engineer will measure the quantities of applicable bid items for payment using the change order methods.
3. If the engineer, under 105.3.1(2), approves a contractor-requested plan dimension change between US standard and SI metric dimensions, the engineer will measure whichever of the following is less:
    - Actual quantities constructed.
    - Quantities derived from the original plan dimensions.
4. For substitutions made under 106.2.3 between US standard and SI metric products, the engineer will measure the actual quantities of the substitute products using the original contract measuring system.

205.5.2 Excavation

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

205.5.2.1 General

(1) Payment for the Excavation bid items under this section is full compensation for work specified for those excavation classes under 205 with no separate contract bid items; for hauling; and for constructing and removing temporary drainage installations as specified under 205.3.3.

(2) Payment also includes removing walls, foundations, etc. with no separate contract bid items; for disposal of resulting material; and for backfilling basements or openings resulting from removing walls, foundations, etc.

205.5.2.2 Associated Work

(1) The department will pay separately for removing concrete structures under the 203 and 204 bid items.

(2) The department will pay separately for granular backfill the contract or engineer requires under the Backfill Granular bid items.

(3) The department will pay separately for erosion control, fertilizing, and seeding of material disposal sites as specified for material disposal sites in 628.5.1.

(4) If the contract does not include the Excavation Rock bid item, the department will pay 5 times the contract bid price of the Excavation Common bid item to remove boulders having volumes of one cubic yard or more. The department will pay for these boulder removals under the Removing Large Boulders administrative item.

205.5.2.3 Excavation Below Subgrade

205.5.2.3.1 General

(1) The department will only pay for engineer-approved EBS to correct problems beyond the contractor's control.

205.5.2.3.2 Quantity Overruns

(1) The department will provide additional compensation for EBS quantity overruns if the following conditions are met:

- The quantity of engineer-approved EBS, calculated exclusive of work covered under 205.5.2.3.3 or 301.5, exceeds the total contract EBS quantity the earthwork summary sheet shows by more than 25 percent.
- The material exceeding that 25 percent threshold cannot be disposed of within the project right-of-way.

(2) The department will pay 2 times the contract unit price, up to $25,000, for the quantity of EBS meeting the above conditions. After exceeding $25,000 per contract, the department will pay for additional EBS as determined under 109.4.

205.5.2.3.3 Subgrade Correction

(1) Work performed under 105.3 to correct unacceptable work is the contractor's responsibility. For EBS work performed where the engineer did not approve the subgrade for subsequent operations, the department will pay for EBS at the contract price under the pertinent excavation and backfill bid items, or absent those bid items as extra work. For EBS work performed where the engineer approved the underlying layers for subsequent operations, the department will pay for EBS as follows:

1. Up to a maximum of $25,000 per contract, the department will pay as follows:
   1.1 For excavation: 3 times the contract unit price for the Excavation Common bid item under the EBS Post Grading administrative item.
   1.2 For backfill with the materials the engineer directs: at the contract unit price for the bid items of each material used to fill the excavation.
   1.3 For excavation or backfill without contract bid items: as extra work.
2. After exceeding $25,000 per contract, the department will pay for additional EBS in engineer-approved areas as determined under 109.4.

305.2.1 General

Replace paragraph two with the following effective with the December 2018 letting:

(2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing. The department will allow virgin aggregate above reclaimed asphalt, reprocessed material, or blended materials in shoulder areas adjacent to concrete pavement.

420.3.2.1 General

Replace paragraph one with the following effective with the December 2018 letting:

(1) Use self-propelled grinding machines with depth, grade, and slope controls designed for grinding and texturing concrete. Equip grinding machines with diamond blades and a vacuuming system capable of removing liquid and solid residue from the ground surface. Shroud the machine to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide the specified effective wheelbase, defined as the center of the front to center of the rear main support wheels.

420.3.2.2 Continuous Grinding

Replace paragraph one with the following effective with the December 2018 letting:

(1) Under the Continuous Diamond Grinding Concrete Pavement bid item, ensure that the grinding machine, including the grinding head, weighs 35,000 pounds or more, will grind a strip at least 4 feet wide, and has an effective wheel base of 25 feet or more. For pavements with a design speed less than 40 miles per hour and areas difficult to access, the contractor may use equipment with an effective wheel base of 12 feet or more.

450.3.2.8 Jointing

Replace paragraphs three through five with the following effective with the December 2018 letting:

(3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Construct the wedge using a slope no steeper than 3:1. Extend the wedge 12 inches beyond the normal lane width, or as the engineer directs. Ensure that the wedge for all layers directly overlaps and slopes in the same direction.

(4) Locate the joint at the pavement centerline for 2-lane roadways, or at lane lines if the roadway has more than 2 lanes. Construct a vertical notch 1/2-inch to 3/4-inch high on the centerline or lane line at the top of each wedge. Place a 1/2-inch to 3/4-inch notch at the outside bottom edge of the wedge after compacting each layer. Align the finished longitudinal joint line of the upper layer with the centerline or lane line.

(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 the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.

455.2.4.3 Emulsified Asphalts

Replace paragraph two with the following effective with the December 2018 letting:

(2) The bill of lading for emulsified asphalts shall indicate the asphalt content of the original emulsion and dilution rate of the additional water added to the original emulsion. If undiluted samples are not available, test the diluted material and modify AASHTO M140, M208, or M316 to reflect properties resulting from dilution of the asphalt.

460.2.8.3.1.4 Department Verification Testing Requirements

Replace paragraph three with the following effective with the December 2018 letting:

(3) The department will perform testing conforming to the following standards:

Bulk specific gravity (G_{mb}) of the compacted mixture according to AASHTO T166.

Maximum specific gravity (G_{mm}) according to AASHTO T209.

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

VMA by calculation according to AASHTO R35.

Asphalt content by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164, or Asphalt Analyzer™ according to manufacturer recommendations.

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2018 letting:

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 2.0 to 4.3 percent. For SMA, Va is within a range of 2.7 to 5.3 percent.
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.
- Asphalt content is within minus 0.3 percent of the JMF.

460.2.8.3.1.7 Dispute Resolution

Replace paragraph one with the following effective with the December 2018 letting:

(1) When QV test results do not meet the specified limits for 100 percent pay, the bureau's AASHTO accredited laboratory and certified personnel will referee test the retained portion of the QV sample and the retained portion of the required forward and backward QC retained samples according to CMM 8-36.

460.5.2.1 General

Replace paragraphs five and six with the following effective with the December 2018 letting:

(5) The department will reduce pay for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7, starting from the stop point to the point when the running average of 4 is back inside the warning limits. The engineer will determine the quantity of material subject to pay reduction based on the testing data and an inspection of the completed pavement. The department will reduce pay as follows:

PAYMENT FOR MIXTURE[1] [2] [3]

ITEM	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content[4]	___	___
Air Voids	70%	50%
VMA	90%	75%

[1] For projects or plants where the total production of each mixture design requires less than 4 tests refer to CMM 8-36.

[2] Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay. If the quantity of material subject to pay adjustment based on the running average of 4 is also subject to pay adjustment resulting from dispute resolution in accordance with 460.2.8.3.1.7, the department will apply the single pay adjustment resulting in the lowest percent pay.

[3] In addition to any pay adjustment listed in the table above, the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

[4] The department will not adjust pay based on a running average of 4 asphalt content tests; however, corrective action will be applied to nonconforming material according to 460.2.8.2.1.7.

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

- Va greater than 5.0 or less than 1.5.
- VMA more than 1.0 below the minimum allowed 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.

501.3.8.2.1 General

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

(2) If the concrete temperature at the point of placement exceeds 90 F, do not place concrete under the following structure and concrete barrier bid items:

Concrete Masonry Bridges	Concrete Masonry Retaining Walls
Concrete Masonry Bridges HES	Concrete Masonry Retaining Walls HES
Concrete Masonry Culverts	Concrete Masonry Endwalls
Concrete Masonry Culverts HES	Concrete Masonry Overlay Decks
Concrete Barrier Single-Faced 32-Inch	Concrete Barrier (type)
Concrete Barrier Double-Faced 32-Inch	Concrete Barrier Fixed Object Protection (type)
Concrete Barrier Transition Section 32-Inch	Concrete Barrier Transition (type)

506.3.2 Shop Drawings

Replace paragraph four with the following effective with the December 2018 letting:

(4) Ensure that the fabricator submits a PDF file of shop drawings for railroad structures to the railroad company's chief engineering officer upon contract completion.

603.3.1.1 General

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

(3) Cast permanent barrier and transitions in place. Use construction methods conforming to 502 and conform to the hot weather placement requirements of 501.3.8.2. Use forms or engineer-approved slip form methods for barrier. Use forms for transitions. Construct barrier on horizontal curves as a series of 12-foot or shorter chords.

646.3.1.2 Liquid Marking

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

(5) Apply liquid marking and glass beads across the line at or exceeding the following:

LIQUID MARKING	PAVEMENT TYPE	THICKNESS (mils)	BEAD APPLICATION (pounds per gallon)
Paint	all	16	8
Epoxy	SMA, seal coats, and polymer overlays	25	25
Epoxy	all other	20	22.5
Wet Reflective Epoxy	all	20	18

646.3.2.3.2 Wet Reflective Epoxy

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

(1) Apply wet reflective epoxy binder in a grooved slot. and provide a double drop bead system as follows:

- First: wet reflective/recoverable elements at the application rate specified for the product chosen from the department's APL.
- Second: glass beads at the application rate specified in 646.3.1.2(5).

650.3.1 General

Replace the entire text with the following effective with the December 2018 letting:

(1) Department and contractor responsibilities for construction staking are specified in 105.6. Conform to 105.6 and the additional requirements specified here in 650.3 for the individual contractor-staking bid items the contract includes.

(2) Protect and preserve known property and survey marks and land monuments as specified in 107.11.3. The contract may require related work under the 621 bid items.

(3) Obtain or calculate benchmark data, grades, and alignment from plan information. The engineer will furnish data for the horizontal and vertical control points, control point ties, horizontal alignments, profiles, and elevations. Reestablish, set additional, and maintain the horizontal and vertical control points and control point ties, as needed for bid items.

(4) Check horizontal and vertical information including but not limited to alignments, locations, elevations, and dimensions, that either the plans show or the engineer provides, for compatibility with existing field conditions. Conduct similar compatibility checks and accuracy checks of horizontal and vertical positions either the department or the contractor establishes in the field.

(5) Perform survey work using conventional methods, or AMG methods capable of achieving the lines and grades the plans show for the work in question. Establish additional benchmarks and control points as necessary to support the method of operation.

650.3.1.1 Staking

(1) Furnish, set, reference, and maintain stakes and markings necessary to establish the alignment, location, benchmarks, elevations, and continuous profile-grades for road and structure work as needed for bid items. Supervise and coordinate construction staking.

(2) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours, upon request, as the work progresses.

(3) Furnish surveying equipment, stakes, flags, pins, lath, whiskers, and other materials necessary to perform this work, subject to the engineer’s approval.

650.3.1.2 Automated Machine Guidance

650.3.1.2.1 General

(1) The contractor may substitute AMG for conventional staking on all or part of the work under the individual staking bid items. Coordinate with the engineer throughout the course of construction to ensure that work performed using AMG conforms to the contract tolerances and that the methods employed conform to the contractor's AMG work plan and accepted industry standards. Revert to conventional staking methods for all or part of the work at any point during construction if AMG is producing unacceptable results.

650.3.1.2.2 AMG Work Plan

(1) Submit a comprehensive written AMG work plan for department review at least 5 business days before the preconstruction conference. In that plan discuss how AMG technology will be integrated into other technologies employed on the project. List the staking bid items that will have work performed using AMG and, for each bid item listed, include the following:

1. Designate which portions of the contract will be done using AMG and which portions will be done using conventional staking.
2. Designate a single staff person as the primary contact for AMG technology issues.
3. List and map the primary and secondary control points required under 105.6.2 enveloping the site.
4. Describe the contractor's quality control procedures. Include the frequency and type of checks performed to ensure that the work conforms to the contract plans.

(2) The engineer will review the plan to determine if it conforms to the contract. Do not perform AMG work until the engineer approves the governing portion of the AMG workplan. Perform the work as the contractor's AMG work plan provides. Update the plan as necessary.

650.3.1.2.3 Geometric and Surface Information

650.3.1.2.3.1 Department Responsibilities

(1) At any time after the contract is awarded the contractor may request the contractor data packet. The department will provide the packet within 5 business days of receiving the contractor's request.

650.3.1.2.3.2 Contractor Responsibilities

(1) Develop and maintain a contractor construction model for areas of the project employing AMG. Confirm that the resulting model agrees with the contract plans.

(2) If the engineer requests, provide the construction model to the department in LandXML or other engineer-approved format.

650.3.1.2.4 Managing and Updating Information

(1) Notify the department of any errors or discrepancies in department-provided information. The department will determine what revisions may be required. The department will revise the contract plans, if necessary, to address errors or discrepancies that the contractor identifies. The department will provide the best available information related to those contract plan revisions.

(2) Revise the construction model as required to support construction operations and to reflect any contract plan revisions the department makes. Perform checks to confirm that the revised construction model agrees with the contract plan revisions. If the engineer requests, provide construction model updates to the engineer. The department will pay for costs incurred to incorporate contract plan revisions as extra work.

650.3.1.2.5 Construction Checks

(1) Check the work against the plan elevation at randomly selected points on cross-sections located at stations evenly divisible by 100 at the frequency the engineer approved as a part of the AMG work plan. Submit the results of these random checks to the engineer daily. Notify the engineer immediately if a check exceeds the tolerances specified in 650.3.1.2.6 below.

(2) Check the work at additional points as the engineer directs. The department may conduct periodic independent checks.

650.3.1.2.6 Construction Tolerances

(1) Ensure that the finished work vertically matches existing or other completed features. Ensure that the work conforms to revised plan elevations as follows:

- Subgrade : +/- 0.10 feet.
- Base : within the tolerance specified in 301.3.4.1(2).

650.3.3 Subgrade

Retitle and replace the entire text with the following effective with the December 2018 letting:

650.3.3 Subgrade Staking

(1) Set construction stakes or marks at intervals of 100 feet, or more frequently, for rural sections and at intervals of 50 feet, or more frequently, for urban sections. Include additional stakes at each cross-section as necessary to match the plan cross-section, achieve the required accuracy, and to support construction operations. Also set and maintain stakes as necessary to establish the horizontal and vertical positions of intersecting road radii, auxiliary lanes, horizontal and vertical curves, and curve transitions. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.03 feet vertically.

Errata

520.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on the upstream and downstream ends of circular and horizontal elliptical concrete culvert and concrete cattle pass installations. Tie the next 3 pipe joints or, if using apron endwalls, the endwall joint and the last 2 pipe joints. Ties are not required on culverts with masonry endwalls unless the plans show otherwise.

608.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on concrete storm sewer system infall and outfall pipes. Tie the last 3 pipe joints or, if using apron endwalls, the endwall joint and the next 2 pipe joints. Ties are not required on installations with masonry endwalls unless the plans show otherwise.

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: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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	108.4300 RBC Progress Schedule	1.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	20.000 STA	_____.____	_____.____
0006	201.0205 Grubbing	20.000 STA	_____.____	_____.____
0008	203.0100 Removing Small Pipe Culverts	2.000 EACH	_____.____	_____.____
0010	204.0100 Removing Pavement	68.000 SY	_____.____	_____.____
0012	204.0110 Removing Asphaltic Surface	339.000 SY	_____.____	_____.____
0014	204.0115 Removing Asphaltic Surface Butt Joints	99.000 SY	_____.____	_____.____
0016	204.0120 Removing Asphaltic Surface Milling	23,580.000 SY	_____.____	_____.____
0018	204.0130 Removing Curb	128.000 LF	_____.____	_____.____
0020	204.0150 Removing Curb & Gutter	1,987.000 LF	_____.____	_____.____
0022	204.0155 Removing Concrete Sidewalk	817.000 SY	_____.____	_____.____
0024	204.0170 Removing Fence	591.000 LF	_____.____	_____.____
0026	204.0195 Removing Concrete Bases	37.000 EACH	_____.____	_____.____
0028	204.0210 Removing Manholes	12.000 EACH	_____.____	_____.____
0030	204.0220 Removing Inlets	12.000 EACH	_____.____	_____.____
0032	204.0245 Removing Storm Sewer (size) 01. 12-Inch	1,019.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0034	204.0245 Removing Storm Sewer (size) 02. 15-Inch	894.000 LF	_____.____	_____.____
0036	204.0245 Removing Storm Sewer (size) 03. 18-Inch	112.000 LF	_____.____	_____.____
0038	204.0245 Removing Storm Sewer (size) 04. 24-Inch	558.000 LF	_____.____	_____.____
0040	204.0245 Removing Storm Sewer (size) 05. 30-Inch	246.000 LF	_____.____	_____.____
0042	204.0245 Removing Storm Sewer (size) 06. 36-Inch	67.000 LF	_____.____	_____.____
0044	204.0280 Sealing Pipes	1.000 EACH	_____.____	_____.____
0046	204.9001.S Removing Advance Flasher Assemblies Type 1	2.000 EACH	_____.____	_____.____
0048	204.9002.S Removing Advance Flasher Assemblies Type 2	2.000 EACH	_____.____	_____.____
0050	204.9090.S Removing (item description) 01. Cables or Conduit	5,478.000 LF	_____.____	_____.____
0052	205.0100 Excavation Common	5,847.000 CY	_____.____	_____.____
0054	205.0200 Excavation Rock	161.000 CY	_____.____	_____.____
0056	205.1300 Presplitting Rock	199.000 LF	_____.____	_____.____
0058	211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0060	213.0100 Finishing Roadway (project) 01. 4140-19-73	1.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0062	305.0110 Base Aggregate Dense 3/4-Inch	300.000 TON	_____.____	_____.____
0064	305.0120 Base Aggregate Dense 1 1/4-Inch	11,204.000 TON	_____.____	_____.____
0066	305.0500 Shaping Shoulders	3.000 STA	_____.____	_____.____
0068	312.0110 Select Crushed Material	24.000 TON	_____.____	_____.____
0070	315.0100 Asphaltic Base	1,595.000 TON	_____.____	_____.____
0072	405.0200 Coloring Concrete Custom	8.000 CY	_____.____	_____.____
0074	416.0160 Concrete Driveway 6-Inch	419.000 SY	_____.____	_____.____
0076	450.4000 HMA Cold Weather Paving	1,680.000 TON	_____.____	_____.____
0078	455.0605 Tack Coat	2,845.000 GAL	_____.____	_____.____
0080	460.2000 Incentive Density HMA Pavement	3,330.000 DOL	1.00000	3,330.00
0082	460.5223 HMA Pavement 3 LT 58-28 S	1,705.000 TON	_____.____	_____.____
0084	460.5224 HMA Pavement 4 LT 58-28 S	3,515.000 TON	_____.____	_____.____
0086	465.0105 Asphaltic Surface	2.000 TON	_____.____	_____.____
0088	465.0120 Asphaltic Surface Driveways and Field Entrances	189.000 TON	_____.____	_____.____
0090	465.0125 Asphaltic Surface Temporary	395.000 TON	_____.____	_____.____
0092	465.0310 Asphaltic Curb	5.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0094	465.0315 Asphaltic Flumes	43.000 SY	_____.____	_____.____
0096	511.1200 Temporary Shoring (structure) 01. R-15-11	450.000 SF	_____.____	_____.____
0098	520.1015 Apron Endwalls for Culvert Pipe 15-Inch	2.000 EACH	_____.____	_____.____
0100	520.4115 Culvert Pipe Class IV 15-Inch	64.000 LF	_____.____	_____.____
0102	520.8000 Concrete Collars for Pipe	18.000 EACH	_____.____	_____.____
0104	521.1217 Apron Endwalls for Pipe Arch Steel 17x13-Inch	4.000 EACH	_____.____	_____.____
0106	521.3717 Pipe Arch Corrugated Steel 17x13-Inch	30.000 LF	_____.____	_____.____
0108	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	1.000 EACH	_____.____	_____.____
0110	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	1.000 EACH	_____.____	_____.____
0112	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	1.000 EACH	_____.____	_____.____
0114	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____.____	_____.____
0116	601.0110 Concrete Curb Type D	10.000 LF	_____.____	_____.____
0118	601.0407 Concrete Curb & Gutter 18-Inch Type D	287.000 LF	_____.____	_____.____
0120	601.0411 Concrete Curb & Gutter 30-Inch Type D	6,258.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0122	601.0576 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	54.000 LF	_____.____	_____.____
0124	601.0600 Concrete Curb Pedestrian	485.000 LF	_____.____	_____.____
0126	602.0405 Concrete Sidewalk 4-Inch	32,417.000 SF	_____.____	_____.____
0128	602.0515 Curb Ramp Detectable Warning Field Natural Patina	424.000 SF	_____.____	_____.____
0130	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	31.000 SF	_____.____	_____.____
0132	606.0200 Riprap Medium	2.000 CY	_____.____	_____.____
0134	608.0005 Storm Sewer Rock Excavation	358.000 CY	_____.____	_____.____
0136	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	52.000 LF	_____.____	_____.____
0138	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	319.000 LF	_____.____	_____.____
0140	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	300.000 LF	_____.____	_____.____
0142	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	38.000 LF	_____.____	_____.____
0144	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	228.000 LF	_____.____	_____.____
0146	608.2319 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	91.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0148	608.2329 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	64.000 LF	_____.____	_____.____
0150	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	763.000 LF	_____.____	_____.____
0152	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	154.000 LF	_____.____	_____.____
0154	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	614.000 LF	_____.____	_____.____
0156	608.3012 Storm Sewer Pipe Class III-A 12-Inch	263.000 LF	_____.____	_____.____
0158	608.3015 Storm Sewer Pipe Class III-A 15-Inch	621.000 LF	_____.____	_____.____
0160	608.3018 Storm Sewer Pipe Class III-A 18-Inch	69.000 LF	_____.____	_____.____
0162	608.3024 Storm Sewer Pipe Class III-A 24-Inch	1,453.000 LF	_____.____	_____.____
0164	608.6008 Storm Sewer Pipe Composite 8-Inch	14.000 LF	_____.____	_____.____
0166	611.0535 Manhole Covers Type J-Special	28.000 EACH	_____.____	_____.____
0168	611.0624 Inlet Covers Type H	35.000 EACH	_____.____	_____.____
0170	611.0639 Inlet Covers Type H-S	8.000 EACH	_____.____	_____.____
0172	611.0642 Inlet Covers Type MS	4.000 EACH	_____.____	_____.____
0174	611.0654 Inlet Covers Type V	2.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0176	611.0666 Inlet Covers Type Z	1.000 EACH	_____.____	_____.____
0178	611.1003 Catch Basins 3-FT Diameter	2.000 EACH	_____.____	_____.____
0180	611.1004 Catch Basins 4-FT Diameter	7.000 EACH	_____.____	_____.____
0182	611.1005 Catch Basins 5-FT Diameter	1.000 EACH	_____.____	_____.____
0184	611.1006 Catch Basins 6-FT Diameter	2.000 EACH	_____.____	_____.____
0186	611.1230 Catch Basins 2x3-FT	26.000 EACH	_____.____	_____.____
0188	611.2004 Manholes 4-FT Diameter	6.000 EACH	_____.____	_____.____
0190	611.2005 Manholes 5-FT Diameter	13.000 EACH	_____.____	_____.____
0192	611.2006 Manholes 6-FT Diameter	4.000 EACH	_____.____	_____.____
0194	611.2007 Manholes 7-FT Diameter	4.000 EACH	_____.____	_____.____
0196	611.3004 Inlets 4-FT Diameter	1.000 EACH	_____.____	_____.____
0198	611.3230 Inlets 2x3-FT	7.000 EACH	_____.____	_____.____
0200	611.3901 Inlets Median 1 Grate	4.000 EACH	_____.____	_____.____
0202	611.8110 Adjusting Manhole Covers	2.000 EACH	_____.____	_____.____
0204	611.8115 Adjusting Inlet Covers	3.000 EACH	_____.____	_____.____
0206	611.8120.S Cover Plates Temporary	2.000 EACH	_____.____	_____.____
0208	612.0206 Pipe Underdrain Unperforated 6-Inch	31.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0210	612.0406 Pipe Underdrain Wrapped 6-Inch	386.000 LF	_____.____	_____.____
0212	612.0902.S Insulation Board Polystyrene (inch) 01. 2-INCH	28.000 SY	_____.____	_____.____
0214	616.0205 Fence Chain Link 5-FT	403.000 LF	_____.____	_____.____
0216	616.0700.S Fence Safety	919.000 LF	_____.____	_____.____
0218	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4140-19-73	1.000 EACH	_____.____	_____.____
0220	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0222	620.0300 Concrete Median Sloped Nose	287.000 SF	_____.____	_____.____
0224	624.0100 Water	107.900 MGAL	_____.____	_____.____
0226	625.0100 Topsoil	796.000 SY	_____.____	_____.____
0228	627.0200 Mulching	716.000 SY	_____.____	_____.____
0230	628.1504 Silt Fence	3,619.000 LF	_____.____	_____.____
0232	628.1520 Silt Fence Maintenance	3,619.000 LF	_____.____	_____.____
0234	628.1905 Mobilizations Erosion Control	6.000 EACH	_____.____	_____.____
0236	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH	_____.____	_____.____
0238	628.2004 Erosion Mat Class I Type B	566.000 SY	_____.____	_____.____
0240	628.6510 Soil Stabilizer Type B	0.800 ACRE	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0242	628.7005 Inlet Protection Type A	2.000 EACH	_____.____	_____.____
0244	628.7010 Inlet Protection Type B	20.000 EACH	_____.____	_____.____
0246	628.7015 Inlet Protection Type C	93.000 EACH	_____.____	_____.____
0248	628.7020 Inlet Protection Type D	7.000 EACH	_____.____	_____.____
0250	628.7504 Temporary Ditch Checks	69.000 LF	_____.____	_____.____
0252	628.7555 Culvert Pipe Checks	17.000 EACH	_____.____	_____.____
0254	628.7570 Rock Bags	172.000 EACH	_____.____	_____.____
0256	629.0210 Fertilizer Type B	5.180 CWT	_____.____	_____.____
0258	630.0140 Seeding Mixture No. 40	14.000 LB	_____.____	_____.____
0260	630.0200 Seeding Temporary	22.000 LB	_____.____	_____.____
0262	631.0300 Sod Water	794.000 MGAL	_____.____	_____.____
0264	631.1000 Sod Lawn	7,092.000 SY	_____.____	_____.____
0266	633.5200 Markers Culvert End	10.000 EACH	_____.____	_____.____
0268	634.0614 Posts Wood 4x6-Inch X 14-FT	23.000 EACH	_____.____	_____.____
0270	634.0616 Posts Wood 4x6-Inch X 16-FT	32.000 EACH	_____.____	_____.____
0272	634.0618 Posts Wood 4x6-Inch X 18-FT	7.000 EACH	_____.____	_____.____
0274	637.2210 Signs Type II Reflective H	374.920 SF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0276	637.2220 Signs Type II Reflective SH	6.750 SF	_____.____	_____.____
0278	637.2230 Signs Type II Reflective F	195.170 SF	_____.____	_____.____
0280	638.2102 Moving Signs Type II	2.000 EACH	_____.____	_____.____
0282	638.2602 Removing Signs Type II	68.000 EACH	_____.____	_____.____
0284	638.3000 Removing Small Sign Supports	62.000 EACH	_____.____	_____.____
0286	642.5401 Field Office Type D	1.000 EACH	_____.____	_____.____
0288	643.0300 Traffic Control Drums	9,950.000 DAY	_____.____	_____.____
0290	643.0310.S Temporary Portable Rumble Strips	1.000 LS	_____.____	_____.____
0292	643.0410 Traffic Control Barricades Type II	460.000 DAY	_____.____	_____.____
0294	643.0420 Traffic Control Barricades Type III	12,015.000 DAY	_____.____	_____.____
0296	643.0705 Traffic Control Warning Lights Type A	7,335.000 DAY	_____.____	_____.____
0298	643.0900 Traffic Control Signs	16,440.000 DAY	_____.____	_____.____
0300	643.0920 Traffic Control Covering Signs Type II	1.000 EACH	_____.____	_____.____
0302	643.1000 Traffic Control Signs Fixed Message	114.000 SF	_____.____	_____.____
0304	643.1050 Traffic Control Signs PCMS	21.000 DAY	_____.____	_____.____
0306	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0308	644.1410.S Temporary Pedestrian Surface Asphalt	500.000 SF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0310	644.1430.S Temporary Pedestrian Surface Plate	250.000 SF	_____.____	_____.____
0312	644.1601.S Temporary Curb Ramp	7.000 EACH	_____.____	_____.____
0314	644.1616.S Temporary Pedestrian Safety Fence	950.000 LF	_____.____	_____.____
0316	645.0120 Geotextile Type HR	39.000 SY	_____.____	_____.____
0318	646.1020 Marking Line Epoxy 4-Inch	11,832.000 LF	_____.____	_____.____
0320	646.3020 Marking Line Epoxy 8-Inch	424.000 LF	_____.____	_____.____
0322	646.4520 Marking Line Same Day Epoxy 4-Inch	7,398.000 LF	_____.____	_____.____
0324	646.5020 Marking Arrow Epoxy	6.000 EACH	_____.____	_____.____
0326	646.5120 Marking Word Epoxy	1.000 EACH	_____.____	_____.____
0328	646.6120 Marking Stop Line Epoxy 18-Inch	152.000 LF	_____.____	_____.____
0330	646.7120 Marking Diagonal Epoxy 12-Inch	377.000 LF	_____.____	_____.____
0332	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,510.000 LF	_____.____	_____.____
0334	646.8120 Marking Curb Epoxy	2,383.000 LF	_____.____	_____.____
0336	646.8220 Marking Island Nose Epoxy	6.000 EACH	_____.____	_____.____
0338	646.8320 Marking Parking Stall Epoxy	5,307.000 LF	_____.____	_____.____
0340	646.9000 Marking Removal Line 4-Inch	260.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0342	649.0105 Temporary Marking Line Paint 4-Inch	15,660.000 LF	_____.____	_____.____
0344	650.4000 Construction Staking Storm Sewer	83.000 EACH	_____.____	_____.____
0346	650.4500 Construction Staking Subgrade	6,378.000 LF	_____.____	_____.____
0348	650.5000 Construction Staking Base	6,378.000 LF	_____.____	_____.____
0350	650.5500 Construction Staking Curb Gutter and Curb & Gutter	6,716.000 LF	_____.____	_____.____
0352	650.6000 Construction Staking Pipe Culverts	3.000 EACH	_____.____	_____.____
0354	650.8000 Construction Staking Resurfacing Reference	6,882.000 LF	_____.____	_____.____
0356	650.8500 Construction Staking Electrical Installations (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0358	650.9000 Construction Staking Curb Ramps	39.000 EACH	_____.____	_____.____
0360	650.9910 Construction Staking Supplemental Control (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0362	650.9920 Construction Staking Slope Stakes	4,678.000 LF	_____.____	_____.____
0364	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	5,789.000 LF	_____.____	_____.____
0366	652.0605 Conduit Special 2-Inch	6,330.000 LF	_____.____	_____.____
0368	653.0164 Pull Boxes Non-Conductive 24x42-Inch	2.000 EACH	_____.____	_____.____
0370	654.0102 Concrete Bases Type 2	1.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0372	654.0220 Concrete Control Cabinet Bases Type 10	1.000 EACH	_____.____	_____.____
0374	655.0230 Cable Traffic Signal 5-14 AWG	60.000 LF	_____.____	_____.____
0376	655.0515 Electrical Wire Traffic Signals 10 AWG	30.000 LF	_____.____	_____.____
0378	655.0610 Electrical Wire Lighting 12 AWG	7,770.000 LF	_____.____	_____.____
0380	655.0625 Electrical Wire Lighting 6 AWG	39,891.000 LF	_____.____	_____.____
0382	655.0630 Electrical Wire Lighting 4 AWG	39,891.000 LF	_____.____	_____.____
0384	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. STH 42 & Main St.	LS	LUMP SUM	_____.____
0386	657.0305 Poles Type 2	1.000 EACH	_____.____	_____.____
0388	657.0590 Trombone Arms 20-FT	1.000 EACH	_____.____	_____.____
0390	658.0171 Traffic Signal Face 1S 12-Inch	2.000 EACH	_____.____	_____.____
0392	658.5069 Signal Mounting Hardware (location) 01. STH 42 & Main St.	LS	LUMP SUM	_____.____
0394	690.0150 Sawing Asphalt	10,295.000 LF	_____.____	_____.____
0396	690.0250 Sawing Concrete	753.000 LF	_____.____	_____.____
0398	740.0440 Incentive IRI Ride	2,400.000 DOL	1.00000	2,400.00
0400	999.1500.S Crack and Damage Survey	LS	LUMP SUM	_____.____
0402	SPV.0060 Special 01. Salvage Lighting Unit	7.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0404	SPV.0060 Special 02. Reconnecting Storm Sewer Laterals	5.000 EACH	_____.____	_____.____
0406	SPV.0060 Special 03. Removing Lighting Unit	27.000 EACH	_____.____	_____.____
0408	SPV.0060 Special 04. Install Lighting Unit Type Special	75.000 EACH	_____.____	_____.____
0410	SPV.0060 Special 05. Lighting Control Cabinet Base Type Special	2.000 EACH	_____.____	_____.____
0412	SPV.0060 Special 06. Concrete Bases Type Special	73.000 EACH	_____.____	_____.____
0414	SPV.0060 Special 07. Trimming Trees	2.000 EACH	_____.____	_____.____
0416	SPV.0060 Special 08. Pipe Inlet Structure	1.000 EACH	_____.____	_____.____
0418	SPV.0060 Special 09. Manhole special 8-FT	1.000 EACH	_____.____	_____.____
0420	SPV.0060 Special 10. Removing Landscape Rocks	10.000 EACH	_____.____	_____.____
0422	SPV.0060 Special 11. Lighting Control Cabinets Type Special	2.000 EACH	_____.____	_____.____
0424	SPV.0060 Special 12. Concrete Base Spread Footing	2.000 EACH	_____.____	_____.____
0426	SPV.0075 Special 01. Street Sweeping	48.000 HRS	_____.____	_____.____
0428	SPV.0090 Special 01. Fence Chain Link Polymer Coated 4-FT	384.000 LF	_____.____	_____.____
0430	SPV.0090 Special 02. Concrete Cold Weather Covering Curb and Gutter Plastic 1 Layer	3,000.000 LF	_____.____	_____.____

Proposal ID: 20190514025 **Project(s):** 4140-19-73

Federal ID(s): 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
0432	SPV.0090 Special 03. Concrete Cold Weather Covering Curb and Gutter Plastic 2 Layers	3,000.000 LF	_____._____	_____._____
0434	SPV.0090 Special 04. Concrete Cold Weather Covering Curb and Gutter Plastic/Hay/Plastic	3,000.000 LF	_____._____	_____._____
0436	SPV.0090 Special 05. Joint Ties	528.000 LF	_____._____	_____._____
0438	SPV.0105 Special 01. Removing Flashing Beacon (STH 42 & Main St.)	LS	LUMP SUM	_____._____
0440	SPV.0165 Special 01. Wall Modular Block Mechanically Stabilized Earth (R-15-11)	1,250.000 SF	_____._____	_____._____
0442	SPV.0165 Special 02. Wall Modular Block Mechanically Stabilized Earth (R-15-12)	1,033.000 SF	_____._____	_____._____
0444	SPV.0165 Special 03. Crosswalk Apron Pavers	160.000 SF	_____._____	_____._____
0446	SPV.0165 Special 04. Concrete Cold Weather Covering Sidewalk Plastic 1 Layer	12,000.000 SF	_____._____	_____._____
0448	SPV.0165 Special 05. Concrete Cold Weather Covering Sidewalk Plastic 2 Layers	12,000.000 SF	_____._____	_____._____
0450	SPV.0165 Special 06. Concrete Cold Weather Covering Sidewalk Plastic/Hay/Plastic	12,000.000 SF	_____._____	_____._____
	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

May 6, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #25: 4140-19-73
Gibraltar – Sister Bay
Bluff Ln – Gibraltar Road
STH 42
Door County

Letting of May 14, 2019.

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

Special Provisions:

Added Special Provisions	
Article No.	Description
63	Fence Chain Link with Top Rail, 5-FT

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0120	Removing Asphaltic Surface Milling	SY	23,580	630	24,210
315.0100	Asphaltic Base	TON	1,595	120	1,715
450.4000	HMA Cold Weather Paving	TON	1,680	205	1,885
455.0605	Tack Coat	GAL	2,845	30	2,875
465.0125	Asphaltic Surface Temporary	TON	395	85	480

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0090.06	Fence Chain Link with Top Rail, 5-FT	LF	0	370	370

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
616.0205	Fence Chain Link, 5-FT	LF	403	-403	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
170	Miscellaneous Quantities - Removing Asphalt quantity table modified.
173	Miscellaneous Quantities - Asphalt Items quantity table modified.
181	Miscellaneous Quantities - Fence Chain Link 5-FT quantity table removed and replaced with Fence Chain Link with Top Rail, 5-FT quantity table.
223, 224, & 225	Plan - Type and Location of proposed fence modified in plan.

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
23A & 23B	Construction Detail - Detail for Fence Chain Link with Top Rail, 5-FT added to project.
Deleted Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
---	None.

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. 01

4140-19-73

May 6, 2019

Special Provisions

63. Fence Chain Link with Top Rail, 5-FT, Item SPV.0090.06.

A Description

This special provision describes providing and installing chain link fence with a top rail. Conform to Standard Spec 616 and as hereinafter described.

B Materials

Furnish materials that conform to 616.2.

Add the following to section 616.2.3.4 Post Tops paragraph 1:

Provide the base of each line post top with an opening for passage and support of the top rail.

Add the following to Standard Spec 616.2:

Use top rail of the type, size and length the plans show and of Group IA round steel pipe with a type A coating. Couple segments of rail by using internal swaged sleeve or a sleeve as the plans show or the engineer allows. Connect top tail to end, corner, intersection or intermediate braced posts using galvanized steel rail end fittings and brace bands that correlate with the dimensions of the top rail.

C Construction

Conform to 616.3.

Add the following to section 616.3.3.1 General:

Erect chain link fencing fabric, of the required height, attached at the top rail and bottom tension wire, on driven unbraced metal line posts.

Add the following to section 616.3.3.2 Setting Posts:

Set the posts, anchor the braces in place, and wait at least 24 hours after pouring concrete before placing the top rail and bottom tension wire.

Add the following to section 616.3.3.3 Erecting Fence Fabric:

Place and secure the top rail prior to erecting the fence fabric. Cut the top rail accordingly to fit between end, corner, intersection and intermediate braced posts. Connect the top rail to end, corner, intersection and intermediate braced posts using approximately sized rail end fittings and brace bands.

Attached the end of the fabric to the post with a tension bar threaded through the end loops of the fabric and secured to the post with clamps and bolt. Stretch the fabric with engineer-approved stretching equipment to remove all slack. Secure the stretched fabric to line posts, braces and tension wires with specified fabric fasteners. Place fabric fasteners on line posts at no greater than 14-inch centers; and on braces, top rail and tension wires at no greater than 18-inch centers. Repeat stretching operations at approximately every 100 feet for each run of fence.

D Measurement

The department will measure Fence Chain Link with Top Rail, 5-FT by the Linear Foot, acceptably completed. Measure from center to center of end posts, along the top rail. The department will deduct for gates and other openings.

E Payment

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

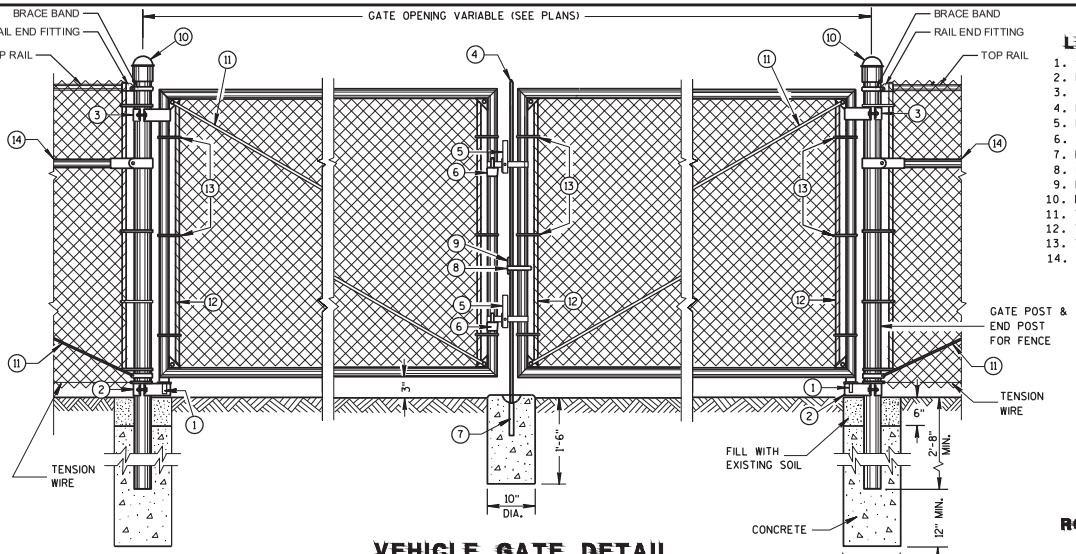
ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.06	Fence Chain Link with Top Rail, 5-FT	LF

Payment is full compensation for installing Fence Chain Link with Top Rail as describe above and as in Standard Spec 616.

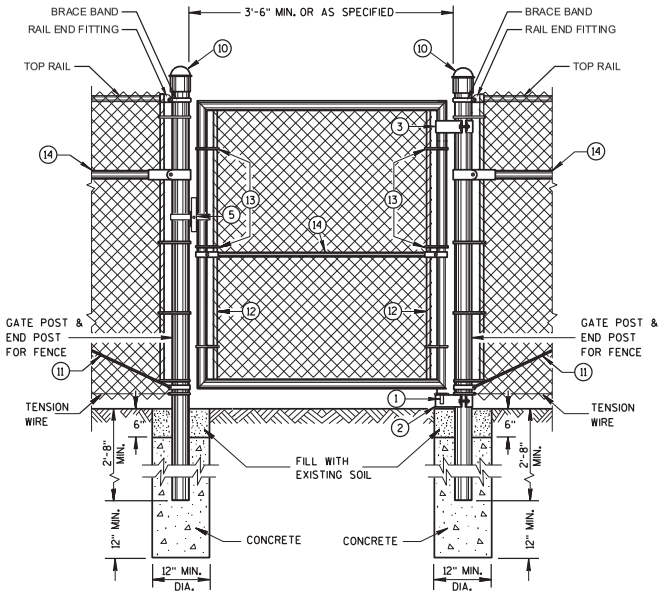
Schedule of Items
Attached, dated May 6, 2019, are the revised Schedule of Items Pages 1 – 15.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 170, 173, 181, and 223-225.
Added: 23A and 23B.

END OF ADDENDUM



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

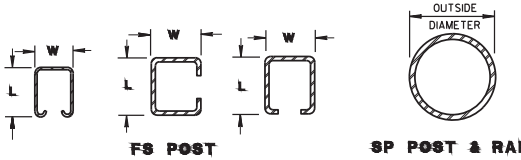
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST — SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

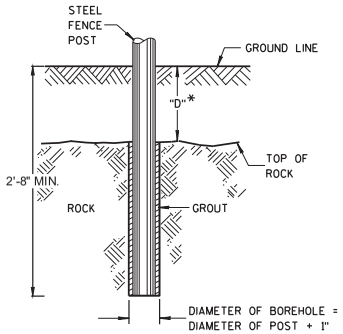
ROUND STEEL TOP RAIL (1.8 OZ./SQ. FT. COATING)

COUPLING	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
INTERNAL SWAGED SLEEVE OR SLEEVE	1.375	0.05625	1.548

Addendum No. 01
ID 4140-19-73
Added Sheet 23A
May 6, 2019

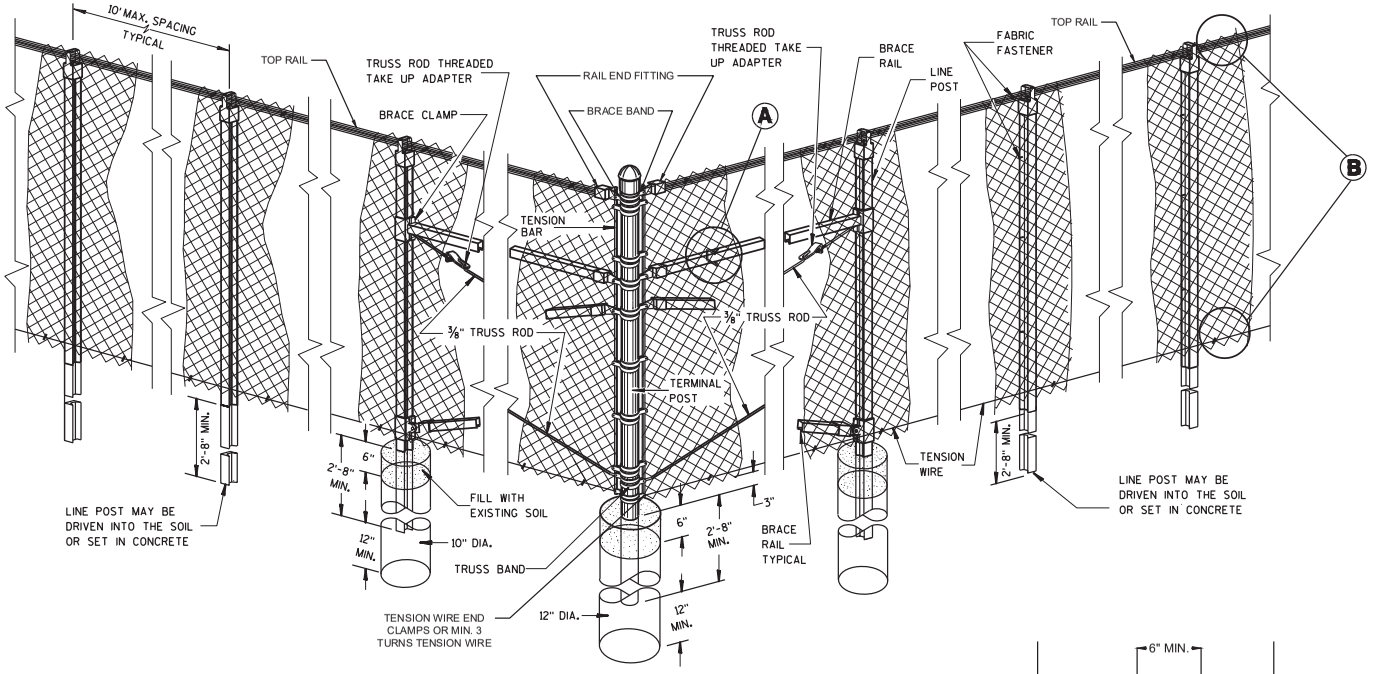
PROJECT NO: 4140-19-73	HWY: STH 42	COUNTY: DOOR	CONSTRUCTION DETAIL - FENCE CHAIN LINK WITH TOP RAIL	SHEET 23A	E

FILE NAME: N:\PDS\C3D\4140190O\DESIGN\FENCE\FENCE CONSTRUCTION DETAIL.DWG
LAYOUT NAME - Plan 1 IN 10 FT
PLOT DATE: 4/17/2019 1:26 PM
PLOT BY: KIRST, DOUGLAS P
PLOT NAME:
PLOT S
WISDOT/CADDS SHEET 42

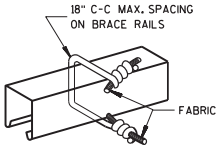


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

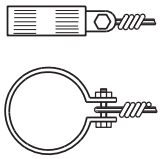


END. CORNER. ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS

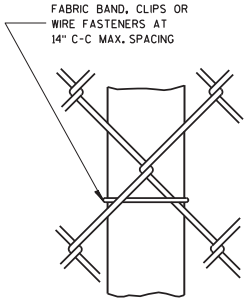


BRACE RAIL FABRIC FASTENER

Ⓐ

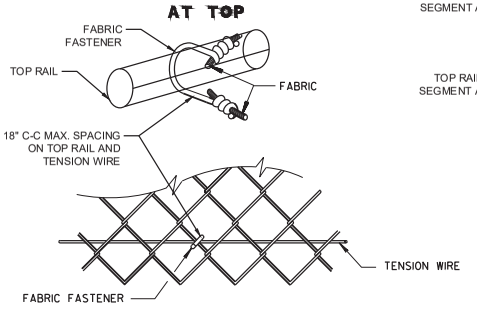


TENSION WIRE END CLAMP



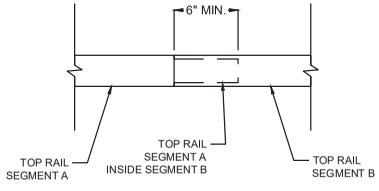
LINE POST FABRIC FASTENER

Addendum No. 01
ID 4140-19-73
Added Sheet 23B
May 6, 2019

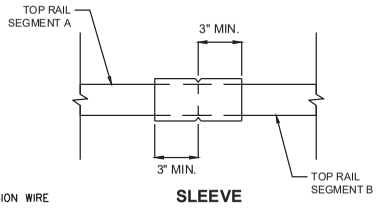


SELVAGES

Ⓑ



INTERNAL SWAGED SLEEVE



SLEEVE

TOP RAIL COUPLING

PROJECT NO: 4140-19-73	HWY: STH 42	COUNTY: DOOR	CONSTRUCTION DETAIL - FENCE CHAIN LINK WITH TOP RAIL	SHEET 23B	E

FILE NAME: N:\PDS\C3D\41401900\DESIGN\FENCE\FENCE CONSTRUCTION DETAIL.DWG
LAYOUT NAME - Plan 1 IN 10 FT (2)
PLOT DATE: 4/17/2019 1:27 PM
PLOT BY: KIRST, DOUGLAS P
PLOT NAME:
PLOT SCALE: 1 IN:1 FT
WISDOT/CADDS SHEET 42

REMOVING ASPHALT

CATG.	STATION		LOCATION	DESCRIPTION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	MILLING DEPTH INCHES	REMARKS
0010	96+50 - 139+00		STH 42	BLUFF LANE TO 139+00	---	18,870	2	SEE NOTE (2)
0010	120+96		STH 42 RT	ASPHALT DWY	8	---	---	
0010	139+00 - 154+24		STH 42	139+00 TO GIBRALTAR RD	---	4,120	2	SEE NOTE (1)
0010	130+56		STH 42 RT	ASPHALT SIDEWALK	2	---	---	
0010	138+41 - 141+85		STH 42	EXISTING ASPHALT DITCHES	317	---	---	
0010	143+27		STH 42 LT	ASPHALT DWY	4	---	---	
0010	149+12		STH 42 LT	ASPHALT DWY	8	---	---	
				SUBTOTAL 0010	339	22,990		
0060	10+42	14+73	SHORE ROAD	STH 42 TO EVERGREEN RD	---	1,220	5	SEE NOTE (1)
				SUBTOTAL 0060	---	1,220		
				TOTAL	339	24,210		

(1) EXCLUDES COMMON EXCAVATION AND STORM SEWER REMOVAL AREAS (SAW CUT AREAS)
(2) EXCLUDES COMMON EXCAVATION AREAS FOR CURB AND GUTTER FROM 134+35-139+00.

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	REMARKS
0010	96+50	STH 42	9	BEGINNING OF PROJECT
0010	97+10	STH 42 RT	7	BLUFF LANE
0010	100+00	STH 42 LT	10	MAIN STREET
0010	100+01	STH 42 LT	10	SPRUCE STREET (GIBRALTAR)
0010	102+90	STH 42 RT	8	HILL STREET
0010	144+34	STH 42 RT	10	CTH F
0010	153+71	STH 42 RT	7	GIBRALTAR ROAD
0010	159+00	STH 42	7	END OF PROJECT
0010	16+62	SHORE RD	7	
		SUBTOTAL 0010	75	
0060	11+00	SHORE RD RT	8	ELM STREET
0060	13+10	SHORE RD RT	4	DWY
0060	14+41	SHORE RD RT	12	EVERGREEN ROAD
		SUBTOTAL 0060	24	
		TOTAL	99	

Addendum No. 01
ID 4140-19-73
Revised Sheet 170
May 6, 2019

PRESPLITTING ROCK

CATEGORY	STATION TO	STATION	LOCATION	205.1300 LF	REMARKS
0010	139+40 -	14139	STH 42 LT	199	ROCK FACE WALL
			SUBTOTAL 0010	199	
			TOTAL	199	

REMOVING CONCRETE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
0010	97+28	-	97+51	STH 42 RT	---	---	35	4	
0010	99+50	-	100+56	STH 42 RT	---	17	48	32	
0010	99+53	-	99+81	STH 42 LT	---	---	22	21	
0010	100+00	-		STH 42 LT	---	68	---	44	NW QUAD STH 42/MAIN ST
0010	100+14	-	100+47	STH 42 LT	---	---	45	32	
0010	102+63	-	102+69	STH 42 RT	---	4	16	6	
0010	103+05	-	103+47	STH 42 RT	---	30	53	40	
0010	103+09	-	103+31	STH 42 LT	6	---	21	14	
0010	106+23	-	106+51	STH 42 LT	---	---	28	18	
0010	107+80	-	108+02	STH 42 LT	---	---	41	24	
0010	107+83	-	107+98	STH 42 RT	---	---	9	11	
0010	108+71	-	109+81	STH 42 LT	---	---	68	24	
0010	109+64	-	109+73	STH 42 RT	---	---	9	3	
0010	112+62	-	112+88	STH 42 RT	---	---	27	16	
0010	117+34	-	117+62	STH 42 RT	---	---	20	14	
0010	117+42	-	117+63	STH 42 LT	---	---	21	10	
0010	118+64	-	118+85	STH 42 RT	---	---	21	10	
0010	120+75	-	122+20	STH 42 RT	8	---	157	66	
0010	122+69	-	123+83	STH 42 RT	---	---	113	59	
0010	122+88	-	123+82	STH 42 LT	---	---	95	55	
0010	125+27	-	126+57	STH 42 LT	---	---	136	67	
0010	126+18	-	126+39	STH 42 RT	---	---	21	11	
0010	126+72	-	127+13	STH 42 RT	---	---	41	21	
0010	126+92	-	127+15	STH 42 LT	---	---	34	8	
0010	129+19	-	129+33	STH 42 LT	---	---	14	7	
0010	129+56	-	130+19	STH 42 RT	---	---	63	30	
0010	130+48	-	130+69	STH 42 RT	---	---	21	12	
0010	130+50	-	130+68	STH 42 LT	---	---	18	10	
0010	131+28	-	131+43	STH 42 RT	---	---	14	7	
0010	131+87	-	132+21	STH 42 LT	---	---	34	16	
0010	132+05	-	132+21	STH 42 RT	---	---	15	7	
0010	133+50	-	133+64	STH 42 RT	---	---	15	8	
0010	133+54	-	133+86	STH 42 LT	---	---	32	16	
0010	134+35	-	138+66	STH 42 LT	8	---	77	31	
0010	134+60	-	137+95	STH 42 RT	24	---	51	9	
0010	148+18	-	152+90	STH 42 LT	---	9	---	---	
0010	151+39			ISLAND LT	22	---	---	---	
0010	13+22	-	13+33	SHORE RD RT	---	---	12	---	
0010	10+38	-	10+88	CTH F RT	---	---	59	---	
0010	10+37	-	10+89	CTH F LT	---	---	45	---	
0010	10+42	-	10+68	GIBR. RD RT	---	---	85	---	
0010	10+36	-	10+49	GIBR. RD LT	---	---	60	---	
				SUBTOTAL 0010	68	128	1,696	763	
0050	102+24	-	102+34	STH 42 RT	---	---	---	5	
0050	102+48	-	102+58	STH 42 LT	---	---	---	8	
0050	104+66	-	104+76	STH 42 RT	---	---	---	5	
0050	108+24	-	108+34	STH 42 RT	---	---	---	5	
0050	114+04	-	114+14	STH 42 RT	---	---	---	5	
0050	116+01	-	116+11	STH 42 LT	---	---	---	5	
0050	120+45	-	120+56	STH 42 LT	---	---	---	6	
0050	122+43	-	122+53	STH 42 RT	---	---	---	5	
0050	124+21	-	124+31	STH 42 LT	---	---	---	5	
0050	127+36	-	127+46	STH 42 LT	---	---	---	5	
				SUBTOTAL 0050	---	---	---	54	
0060	10+40	-	15+10	SHORE ROAD LT	---	---	291	---	
				SUBTOTAL 0060	---	---	291	---	
				TOTAL	68	128	1,987	817	

ASPHALT ITEMS

CATG.	FROM	TO	LOCATION	315.0100 ASPHALTIC BASE TON	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON*	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0010	96+50	125+00	STH 42	205	305	85	---	---	100	STAGE 1
0010	125+00	135+39	STH 42	590	920	230	---	---	330	STAGE 1
0010	96+50	134+35	STH 42	---	---	1,215	---	2,085	---	STAGE 2
0010	134+35	145+00	STH 42	345	---	580	600	515	---	STAGE 2
0010	145+00	159+00	STH 42	475	---	655	810	700	---	STAGE 3
0010	10+42	13+66	SHORE ROAD	---	145	25	85	60	---	STAGE 1
			SUBTOTAL 0010	1,615	1,370	2,790	1,495	3,360	430	
0060	106+67	108+97	STH 42	100	150	20	---	---	50	STAGE 1
0060	10+55	15+20	SHORE ROAD	---	365	65	210	155	---	STAGE 1
			SUBTOTAL 0060	100	515	85	210	155	50	
			TOTAL	2,520	1,885	2,875	1,705	3,515	480	

ASPHALTIC DRIVEWAYS

CATG.	STA.	OFFSET	465.012* APSHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
0010	112+75	RT	1	VILLAGE HALL
0010	120+97	RT	1	PRIVATE
0010	134+75	LT	2	PRIVATE
0010	134+93	RT	4	WINDMILL LN
0010	137+07	LT	5	PRIVATE
0010	137+58	LT	2	PRIVATE
0010	137+87	RT	2	PRIVATE
0010	138+55	LT	4	PRIVATE
0010	142+41	RT	12	PRIVATE
0010	145+08-148+17	LT	19	GIBRALTAR AUDITORIUM DWY
0010	146+22-147+16	RT	29	FISH CREEK GRILL
0010	148+43	LT	37	GIBRALTAR SCHOOL DWY SOUTH
0010	151+39	LT	59	GIBRALTAR SCHOOL DWY NORTH
0010	156+48	LT	6	ATHLETIC FIELD ENTRANCE LT
		SUBTOTAL 0010	183	
0060	13+14	SHORE RT	3	PRIVATE
0060	15+00	SHORE LT	3	SUNSET TRAIL
		SUBTOTAL 0060	6	
		TOTAL	189	

*SEE SDD AND PLAN FOR URBAN DRIVEWAY THICKNESS

MISCELANEOUS ASPHALTIC ITEMS

CATEGORY	STATION	LOCATION	465.0105 ASPHALTIC SURFACE TON	465.0310 ASPHALTIC CURB LF	465.0315 ASPHALTIC FLUMES SY	REMARKS
0010	97+36-97+40	STH 42 RT	---	5	---	BLUFF LN
0010	130+57	STH 42 RT	1	---	---	SIDEWALK
0010	140+34	STH 42 RT	1	---	---	PATH
0010	145+08	STH 42 LT	---	---	4	AUDITORIUM DWY
0010	152+90	STH 42 LT	---	---	14	
0010	156+27	STH 42 LT	---	---	16	ATHLETIC FIELD DWY
0010	10+48	GIBRALTAR RD LT	---	---	9	
		SUBTOTAL 0010	2	5	43	
		TOTAL	2	5	43	

PREPARE FOUNDATION FOR ASLPHALTIC PAVING

CATEGORY	STATION	LOCATION	211.0100.01 LS	REMARKS
0010	96+50 - 159+00	STH 42	1	PROJECT LIMITS
		SUBTOTAL 0010	1	
		TOTAL	1	

Addendum No. 01
ID 4140-19-73
Revised Sheet 173
May 6, 2019

INSULATION BOARD POLYSTYRENE 2-INCH

					612.0902.S	
CATG.	STRC.	STATION	OFFSET*	LOCATION	SY	REMARKS
0060	---	126+90	28' LT	STH 42	4	COVER 2 SANITARY PIPES
0060	---	127+10	12' LT	STH 42	4	COVER 1 SANITARY PIPE
0060	---	131+56	12' LT	STH 42	4	COVER 2 SANITARY PIPES
0060	---	142+53	3' RT	STH 42	4	COVER 1 SANITARY PIPE
0060	---	143+97	5' RT	STH 42	8	COVER 3 SANITARY PIPES
0060	---	144+73	24' RT	STH 42	4	COVER 1 SANITARY PIPE
				SUBTOTAL 0060	28	
					28	

RECONNECTING EXISTING STORM SEWER LATERALS

					SPV.0060.02	
CATEGORY	STRUCTURE	STATION	OFFSET	LOCATION	EACH	REMARKS
0010	24A	126+79	22' RT	STH 42	1	12-INCH CORRUGATED POLYTHYLENE PIPE
0010	23A	12926	22' LT	STH 42	1	8-INCH PVC
0010	21A	131+35	22' RT	STH 42	1	12-INCH CORRUGATED POLYTHYLENE PIPE
0010	20A	132+13	22' LT	STH 42	1	12-INCH PVC
0010	26B	13+25	17' RT	SHORE RD	1	4-INCH PVC
				SUBTOTAL 0010	5	
				TOTAL	5	

ADJUSTING AND RECONSTRUCTING

			611.8110 ADJUSTING MANHOLES COVERS	611.8115 ADJUSTING INLET COVERS	611.8120.S COVER PLATES TEMPORARY	
CATEGORY	STATION	LOCATION	EACH	EACH	EACH	REMARKS
0010	102+69	STH 42 34' RT	---	1	---	STORM SEWER
0010	102+90	STH 42 14' RT	1	---	1	STORM SEWER
0010	103+07	STH 42 45' RT	---	1	---	STORM SEWER
0010	137+19	STH 42 31' LT	---	1	---	DWY INLET
0010	151+51	STH 42 57' RT	1	---	1	SANITARY, OLD GIBRALTAR RD CONN.
		SUBTOTAL 0010	2	3	2	
		TOTAL	2	3	2	

FENCE CHAIN LINK WITH TOP RAIL, 5-FT

			SPV.0090.06	
CATEGORY	STATION	LOCATION	LF	REMARKS
0010	139+06 - 142+89	STH 42 LT	370	LOCATED 3' FROM R/W
		SUBTOTAL 0010	370	
		TOTAL	370	

MARKERS CULVERT END

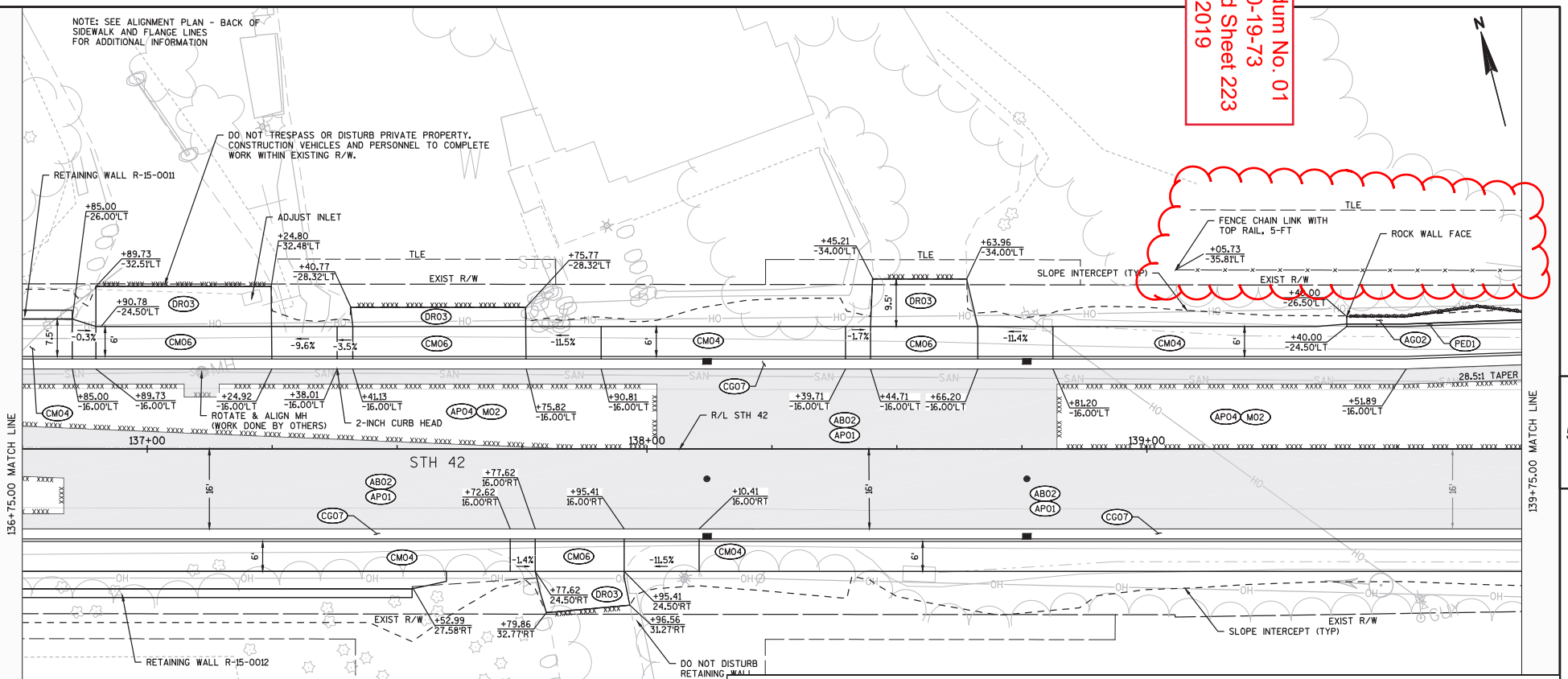
			633.5200	
CATG.	STATION	LOCATION	EACH	REMARKS
0010	129+80	STH 42 RT	1	
0010	144+26	STH 42 RT	1	
0010	151+86	STH 42 RT	1	
0010	152+91	STH 42 LT	2	GIBRL. SCHOOL PATH
0010	156+52	STH 42 LT	2	DWY PIPE
0010	156+66	STH 42 RT	2	YMCA PATH
0010	13+41	SHORE RD LT	1	
		SUBTOTAL 0010	10	
		TOTAL	10	

MOBILIZATIONS EROSION CONTROL

			628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 EMERGENCY EROSION CONTROL	
CATEGORY	DESCRIPTION		EACH	EACH	REMARKS
0010	STAGE 1		2	1	
0010	STAGE 2		2	2	
0010	STAGE 3		2	1	
		SUBTOTAL 0010	6	4	
		TOTAL	6	4	

Addendum No. 01
ID 4140-19-73
Revised Sheet 181
May 6, 2019

Addendum No. 01
ID 4140-19-73
Revised Sheet 223
May 6, 2019



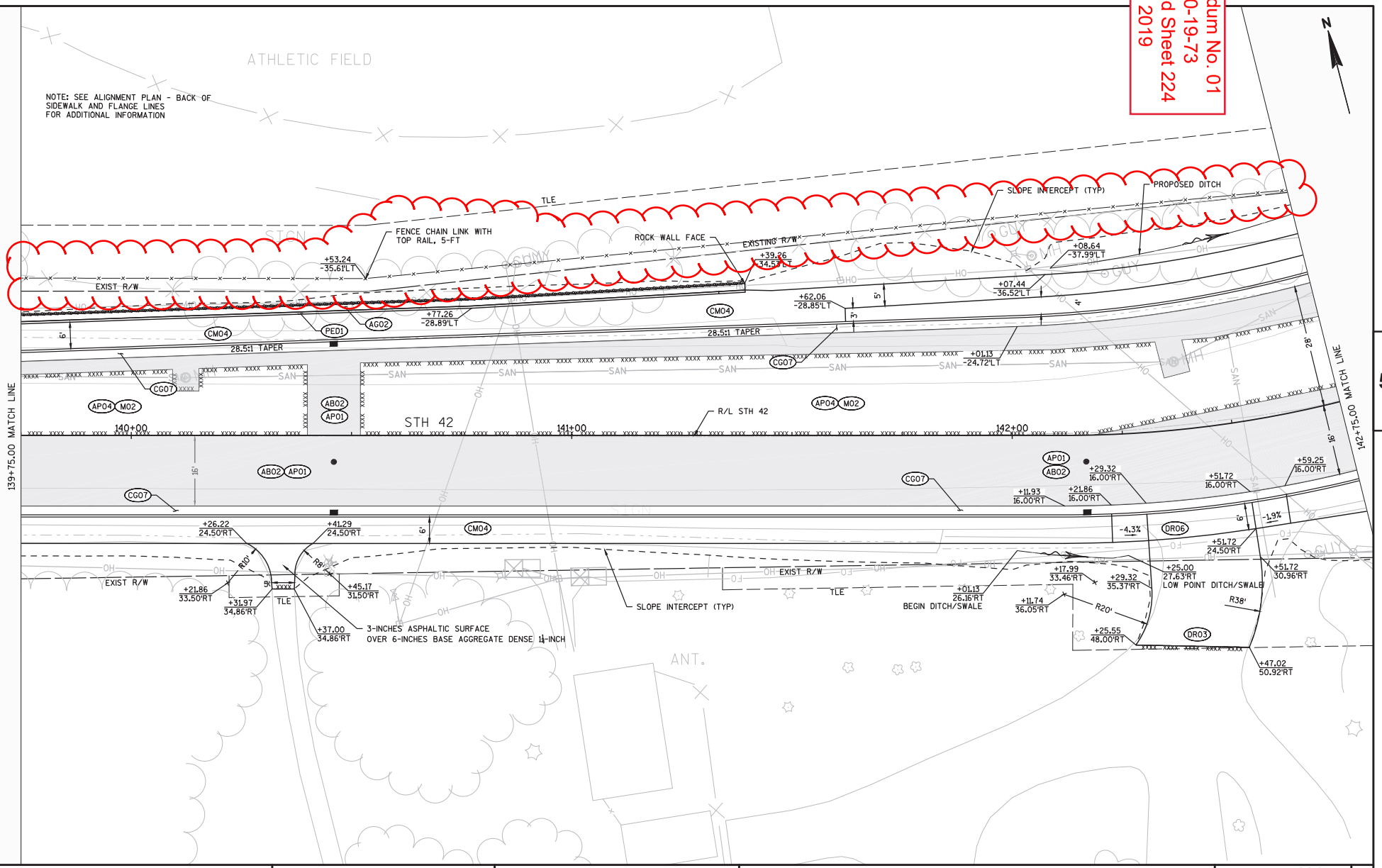
LEGEND

DR03	3-INCHES ASPHALTIC SURFACE DRIVEWAY OVER 6-INCHES BASE AGG. DENSE 1¼-INCH
DR05	5-INCHES ASPHALTIC SURFACE DRIVEWAY OVER 10-INCHES BASE AGG. DENSE 1¼-INCH
AB02	2½-INCHES ASPHALTIC BASE OVER 12-INCHES BASE AGG. DENSE 1¼-INCH
AB04	4½-INCHES ASPHALTIC BASE OVER 12-INCHES BASE AGG. DENSE 1¼-INCH
AG01	BASE AGGREGATE DENSE ¾-INCH, MATCH ASPHALT THICKNESS
AG02	SELECT CRUSHED MATERIAL
AG10	10-INCHES BASE AGGREGATE DENSE 1¼-INCH
AP01	1¾-INCHES HMA PAVEMENT LT 58-28 S
AP02	2-INCHES HMA PAVEMENT LT 58-28 S
AP04	4-INCHES HMA PAVEMENT LT 58-28 S
AP05	5-INCHES HMA PAVEMENT LT 58-28 S
AS03	3-INCHES ASPHALTIC SURFACE
CC02	CONCRETE CURB TYPE D
CG05	CONCRETE CURB AND GUTTER 18-INCH, TYPE D
CG07	CONCRETE CURB AND GUTTER 30-INCH, TYPE D
CG08	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30 INCH, TYPE J
CM04	CONCRETE SIDEWALK 4-INCH OVER 3-INCH BASE AGGREGATE DENSE 1 ¼-INCH
CM06	CONCRETE DRIVEWAY APRON 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1¼-INCH
CMC1	COLORED CONCRETE WEATHERED TERRA COTTA
CR01	CURB RAMP, SEE CONST. DETAILS AND SDD
MO2	REMOVING ASPHALTIC SURFACE MILLING 2-INCH
MO5	REMOVING ASPHALTIC SURFACE MILLING 5-INCH
PAV1	CROSSWALK APRON PAVERS
PED1	PEDESTRIAN CURB
SM01	ADJUSTING MANHOLE COVERS
xxxx	SAW CUT
	FULL DEPTH REPLACEMENT

PROJECT NO: 4140-19-73	HWY: STH 42	COUNTY: DOOR	PLAN SHEETS	SHEET 223	E

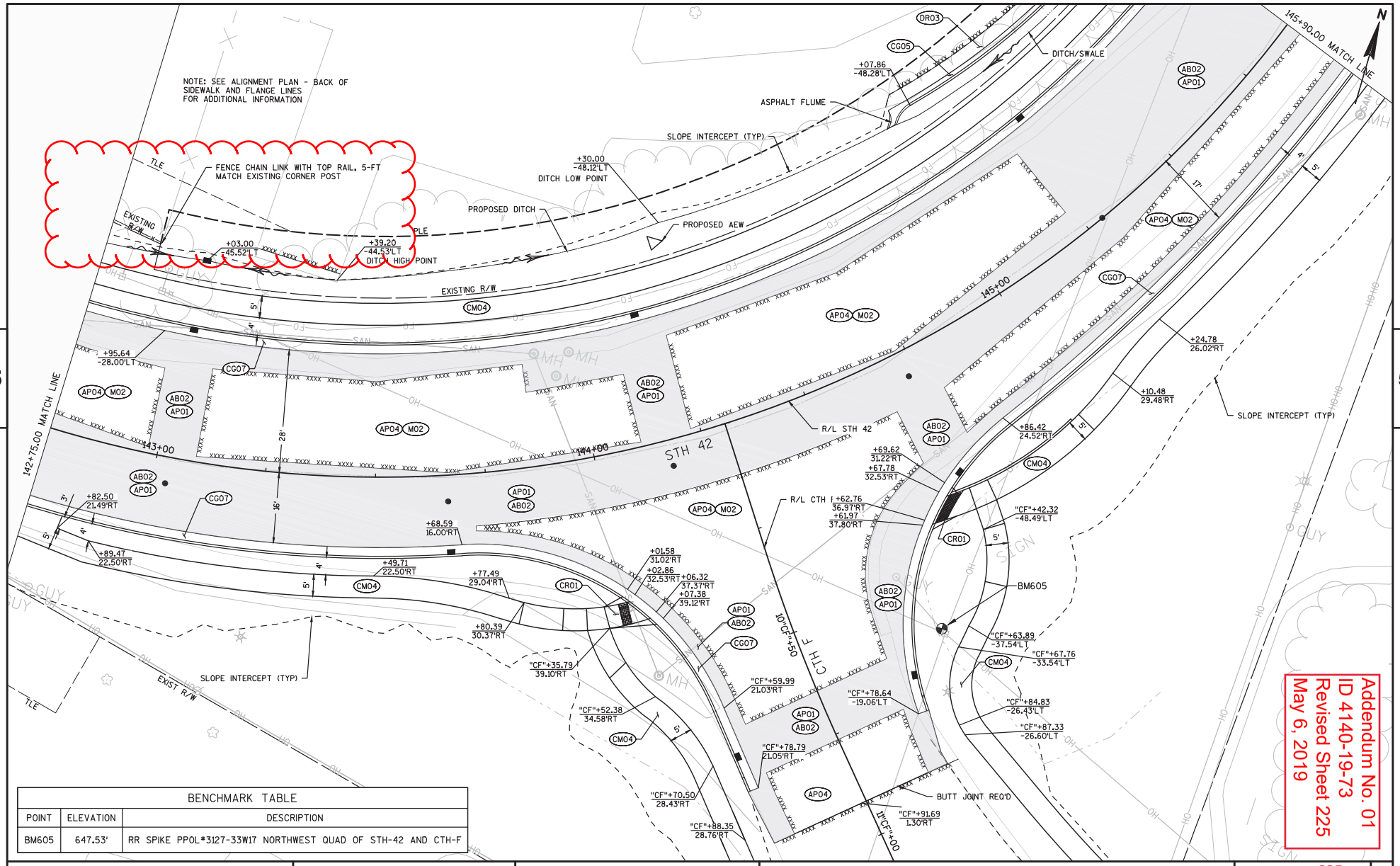
FILE NAME : N:\PDS\C3D\41401900\SHEETSPLAN\050201-PN.NEW.DWG
LAYOUT NAME - 050215-PN
PLOT DATE : 5/1/2019 3:25 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

Addendum No. 01
ID 4140-19-73
Revised Sheet 224
May 6, 2019



PROJECT NO: 4140-19-73	HWY: STH 42	COUNTY: DOOR	PLAN SHEETS	SHEET 224	E

FILE NAME : N:\PDS\C3D\41401900\SHEETSPLAN\050201-PN.NEW.DWG
LAYOUT NAME - 050216-PN
PLOT DATE : 5/1/2019 3:26 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44



BENCHMARK TABLE		
POINT	ELEVATION	DESCRIPTION
BM605	647.53'	RR SPIKE PPOL#3127-33W17 NORTHWEST QUAD OF STH-42 AND CTH-F

PROJECT NO: 4140-19-73	HWY: STH 42	COUNTY: DOOR	PLAN SHEETS	SHEET 225	E

FILE NAME : N:\PDS\C3D\41401900\SHEETSPLAN\050201-PN.NEW.DWG
LAYOUT NAME - 050217-PN

PLOT DATE : 5/1/2019 3:26 PM PLOT BY : KIRST, DOUGLAS P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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	108.4300 RBC Progress Schedule	1.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	20.000 STA	_____.____	_____.____
0006	201.0205 Grubbing	20.000 STA	_____.____	_____.____
0008	203.0100 Removing Small Pipe Culverts	2.000 EACH	_____.____	_____.____
0010	204.0100 Removing Pavement	68.000 SY	_____.____	_____.____
0012	204.0110 Removing Asphaltic Surface	339.000 SY	_____.____	_____.____
0014	204.0115 Removing Asphaltic Surface Butt Joints	99.000 SY	_____.____	_____.____
0016	204.0120 Removing Asphaltic Surface Milling	24,210.000 SY	_____.____	_____.____
0018	204.0130 Removing Curb	128.000 LF	_____.____	_____.____
0020	204.0150 Removing Curb & Gutter	1,987.000 LF	_____.____	_____.____
0022	204.0155 Removing Concrete Sidewalk	817.000 SY	_____.____	_____.____
0024	204.0170 Removing Fence	591.000 LF	_____.____	_____.____
0026	204.0195 Removing Concrete Bases	37.000 EACH	_____.____	_____.____
0028	204.0210 Removing Manholes	12.000 EACH	_____.____	_____.____
0030	204.0220 Removing Inlets	12.000 EACH	_____.____	_____.____
0032	204.0245 Removing Storm Sewer (size) 01. 12-Inch	1,019.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0034	204.0245 Removing Storm Sewer (size) 02. 15-Inch	894.000 LF	_____.____	_____.____
0036	204.0245 Removing Storm Sewer (size) 03. 18-Inch	112.000 LF	_____.____	_____.____
0038	204.0245 Removing Storm Sewer (size) 04. 24-Inch	558.000 LF	_____.____	_____.____
0040	204.0245 Removing Storm Sewer (size) 05. 30-Inch	246.000 LF	_____.____	_____.____
0042	204.0245 Removing Storm Sewer (size) 06. 36-Inch	67.000 LF	_____.____	_____.____
0044	204.0280 Sealing Pipes	1.000 EACH	_____.____	_____.____
0046	204.9001.S Removing Advance Flasher Assemblies Type 1	2.000 EACH	_____.____	_____.____
0048	204.9002.S Removing Advance Flasher Assemblies Type 2	2.000 EACH	_____.____	_____.____
0050	204.9090.S Removing (item description) 01. Cables or Conduit	5,478.000 LF	_____.____	_____.____
0052	205.0100 Excavation Common	5,847.000 CY	_____.____	_____.____
0054	205.0200 Excavation Rock	161.000 CY	_____.____	_____.____
0056	205.1300 Presplitting Rock	199.000 LF	_____.____	_____.____
0058	211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0060	213.0100 Finishing Roadway (project) 01. 4140-19-73	1.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0062	305.0110 Base Aggregate Dense 3/4-Inch	300.000 TON	_____.____	_____.____
0064	305.0120 Base Aggregate Dense 1 1/4-Inch	11,204.000 TON	_____.____	_____.____
0066	305.0500 Shaping Shoulders	3.000 STA	_____.____	_____.____
0068	312.0110 Select Crushed Material	24.000 TON	_____.____	_____.____
0070	315.0100 Asphaltic Base	1,715.000 TON	_____.____	_____.____
0072	405.0200 Coloring Concrete Custom	8.000 CY	_____.____	_____.____
0074	416.0160 Concrete Driveway 6-Inch	419.000 SY	_____.____	_____.____
0076	450.4000 HMA Cold Weather Paving	1,885.000 TON	_____.____	_____.____
0078	455.0605 Tack Coat	2,875.000 GAL	_____.____	_____.____
0080	460.2000 Incentive Density HMA Pavement	3,330.000 DOL	1.00000	3,330.00
0082	460.5223 HMA Pavement 3 LT 58-28 S	1,705.000 TON	_____.____	_____.____
0084	460.5224 HMA Pavement 4 LT 58-28 S	3,515.000 TON	_____.____	_____.____
0086	465.0105 Asphaltic Surface	2.000 TON	_____.____	_____.____
0088	465.0120 Asphaltic Surface Driveways and Field Entrances	189.000 TON	_____.____	_____.____
0090	465.0125 Asphaltic Surface Temporary	480.000 TON	_____.____	_____.____
0092	465.0310 Asphaltic Curb	5.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0094	465.0315 Asphaltic Flumes	43.000 SY	_____.____	_____.____
0096	511.1200 Temporary Shoring (structure) 01. R-15-11	450.000 SF	_____.____	_____.____
0098	520.1015 Apron Endwalls for Culvert Pipe 15-Inch	2.000 EACH	_____.____	_____.____
0100	520.4115 Culvert Pipe Class IV 15-Inch	64.000 LF	_____.____	_____.____
0102	520.8000 Concrete Collars for Pipe	18.000 EACH	_____.____	_____.____
0104	521.1217 Apron Endwalls for Pipe Arch Steel 17x13-Inch	4.000 EACH	_____.____	_____.____
0106	521.3717 Pipe Arch Corrugated Steel 17x13-Inch	30.000 LF	_____.____	_____.____
0108	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	1.000 EACH	_____.____	_____.____
0110	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	1.000 EACH	_____.____	_____.____
0112	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	1.000 EACH	_____.____	_____.____
0114	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____.____	_____.____
0116	601.0110 Concrete Curb Type D	10.000 LF	_____.____	_____.____
0118	601.0407 Concrete Curb & Gutter 18-Inch Type D	287.000 LF	_____.____	_____.____
0120	601.0411 Concrete Curb & Gutter 30-Inch Type D	6,258.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0122	601.0576 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	54.000 LF	_____.____	_____.____
0124	601.0600 Concrete Curb Pedestrian	485.000 LF	_____.____	_____.____
0126	602.0405 Concrete Sidewalk 4-Inch	32,417.000 SF	_____.____	_____.____
0128	602.0515 Curb Ramp Detectable Warning Field Natural Patina	424.000 SF	_____.____	_____.____
0130	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	31.000 SF	_____.____	_____.____
0132	606.0200 Riprap Medium	2.000 CY	_____.____	_____.____
0134	608.0005 Storm Sewer Rock Excavation	358.000 CY	_____.____	_____.____
0136	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	52.000 LF	_____.____	_____.____
0138	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	319.000 LF	_____.____	_____.____
0140	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	300.000 LF	_____.____	_____.____
0142	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	38.000 LF	_____.____	_____.____
0144	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	228.000 LF	_____.____	_____.____
0146	608.2319 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	91.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0148	608.2329 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	64.000 LF	_____.____	_____.____
0150	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	763.000 LF	_____.____	_____.____
0152	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	154.000 LF	_____.____	_____.____
0154	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	614.000 LF	_____.____	_____.____
0156	608.3012 Storm Sewer Pipe Class III-A 12-Inch	263.000 LF	_____.____	_____.____
0158	608.3015 Storm Sewer Pipe Class III-A 15-Inch	621.000 LF	_____.____	_____.____
0160	608.3018 Storm Sewer Pipe Class III-A 18-Inch	69.000 LF	_____.____	_____.____
0162	608.3024 Storm Sewer Pipe Class III-A 24-Inch	1,453.000 LF	_____.____	_____.____
0164	608.6008 Storm Sewer Pipe Composite 8-Inch	14.000 LF	_____.____	_____.____
0166	611.0535 Manhole Covers Type J-Special	28.000 EACH	_____.____	_____.____
0168	611.0624 Inlet Covers Type H	35.000 EACH	_____.____	_____.____
0170	611.0639 Inlet Covers Type H-S	8.000 EACH	_____.____	_____.____
0172	611.0642 Inlet Covers Type MS	4.000 EACH	_____.____	_____.____
0174	611.0654 Inlet Covers Type V	2.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0176	611.0666 Inlet Covers Type Z	1.000 EACH	_____.____	_____.____
0178	611.1003 Catch Basins 3-FT Diameter	2.000 EACH	_____.____	_____.____
0180	611.1004 Catch Basins 4-FT Diameter	7.000 EACH	_____.____	_____.____
0182	611.1005 Catch Basins 5-FT Diameter	1.000 EACH	_____.____	_____.____
0184	611.1006 Catch Basins 6-FT Diameter	2.000 EACH	_____.____	_____.____
0186	611.1230 Catch Basins 2x3-FT	26.000 EACH	_____.____	_____.____
0188	611.2004 Manholes 4-FT Diameter	6.000 EACH	_____.____	_____.____
0190	611.2005 Manholes 5-FT Diameter	13.000 EACH	_____.____	_____.____
0192	611.2006 Manholes 6-FT Diameter	4.000 EACH	_____.____	_____.____
0194	611.2007 Manholes 7-FT Diameter	4.000 EACH	_____.____	_____.____
0196	611.3004 Inlets 4-FT Diameter	1.000 EACH	_____.____	_____.____
0198	611.3230 Inlets 2x3-FT	7.000 EACH	_____.____	_____.____
0200	611.3901 Inlets Median 1 Grate	4.000 EACH	_____.____	_____.____
0202	611.8110 Adjusting Manhole Covers	2.000 EACH	_____.____	_____.____
0204	611.8115 Adjusting Inlet Covers	3.000 EACH	_____.____	_____.____
0206	611.8120.S Cover Plates Temporary	2.000 EACH	_____.____	_____.____
0208	612.0206 Pipe Underdrain Unperforated 6-Inch	31.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0210	612.0406 Pipe Underdrain Wrapped 6-Inch	386.000 LF	_____.____	_____.____
0212	612.0902.S Insulation Board Polystyrene (inch) 01. 2-INCH	28.000 SY	_____.____	_____.____
0216	616.0700.S Fence Safety	919.000 LF	_____.____	_____.____
0218	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4140-19-73	1.000 EACH	_____.____	_____.____
0220	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0222	620.0300 Concrete Median Sloped Nose	287.000 SF	_____.____	_____.____
0224	624.0100 Water	107.900 MGAL	_____.____	_____.____
0226	625.0100 Topsoil	796.000 SY	_____.____	_____.____
0228	627.0200 Mulching	716.000 SY	_____.____	_____.____
0230	628.1504 Silt Fence	3,619.000 LF	_____.____	_____.____
0232	628.1520 Silt Fence Maintenance	3,619.000 LF	_____.____	_____.____
0234	628.1905 Mobilizations Erosion Control	6.000 EACH	_____.____	_____.____
0236	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH	_____.____	_____.____
0238	628.2004 Erosion Mat Class I Type B	566.000 SY	_____.____	_____.____
0240	628.6510 Soil Stabilizer Type B	0.800 ACRE	_____.____	_____.____
0242	628.7005 Inlet Protection Type A	2.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0244	628.7010 Inlet Protection Type B	20.000 EACH	_____.____	_____.____
0246	628.7015 Inlet Protection Type C	93.000 EACH	_____.____	_____.____
0248	628.7020 Inlet Protection Type D	7.000 EACH	_____.____	_____.____
0250	628.7504 Temporary Ditch Checks	69.000 LF	_____.____	_____.____
0252	628.7555 Culvert Pipe Checks	17.000 EACH	_____.____	_____.____
0254	628.7570 Rock Bags	172.000 EACH	_____.____	_____.____
0256	629.0210 Fertilizer Type B	5.180 CWT	_____.____	_____.____
0258	630.0140 Seeding Mixture No. 40	14.000 LB	_____.____	_____.____
0260	630.0200 Seeding Temporary	22.000 LB	_____.____	_____.____
0262	631.0300 Sod Water	794.000 MGAL	_____.____	_____.____
0264	631.1000 Sod Lawn	7,092.000 SY	_____.____	_____.____
0266	633.5200 Markers Culvert End	10.000 EACH	_____.____	_____.____
0268	634.0614 Posts Wood 4x6-Inch X 14-FT	23.000 EACH	_____.____	_____.____
0270	634.0616 Posts Wood 4x6-Inch X 16-FT	32.000 EACH	_____.____	_____.____
0272	634.0618 Posts Wood 4x6-Inch X 18-FT	7.000 EACH	_____.____	_____.____
0274	637.2210 Signs Type II Reflective H	374.920 SF	_____.____	_____.____
0276	637.2220 Signs Type II Reflective SH	6.750 SF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0278	637.2230 Signs Type II Reflective F	195.170 SF	_____.____	_____.____
0280	638.2102 Moving Signs Type II	2.000 EACH	_____.____	_____.____
0282	638.2602 Removing Signs Type II	68.000 EACH	_____.____	_____.____
0284	638.3000 Removing Small Sign Supports	62.000 EACH	_____.____	_____.____
0286	642.5401 Field Office Type D	1.000 EACH	_____.____	_____.____
0288	643.0300 Traffic Control Drums	9,950.000 DAY	_____.____	_____.____
0290	643.0310.S Temporary Portable Rumble Strips	 LS	LUMP SUM	_____.____
0292	643.0410 Traffic Control Barricades Type II	460.000 DAY	_____.____	_____.____
0294	643.0420 Traffic Control Barricades Type III	12,015.000 DAY	_____.____	_____.____
0296	643.0705 Traffic Control Warning Lights Type A	7,335.000 DAY	_____.____	_____.____
0298	643.0900 Traffic Control Signs	16,440.000 DAY	_____.____	_____.____
0300	643.0920 Traffic Control Covering Signs Type II	1.000 EACH	_____.____	_____.____
0302	643.1000 Traffic Control Signs Fixed Message	114.000 SF	_____.____	_____.____
0304	643.1050 Traffic Control Signs PCMS	21.000 DAY	_____.____	_____.____
0306	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0308	644.1410.S Temporary Pedestrian Surface Asphalt	500.000 SF	_____.____	_____.____
0310	644.1430.S Temporary Pedestrian Surface Plate	250.000 SF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0312	644.1601.S Temporary Curb Ramp	7.000 EACH	_____.____	_____.____
0314	644.1616.S Temporary Pedestrian Safety Fence	950.000 LF	_____.____	_____.____
0316	645.0120 Geotextile Type HR	39.000 SY	_____.____	_____.____
0318	646.1020 Marking Line Epoxy 4-Inch	11,832.000 LF	_____.____	_____.____
0320	646.3020 Marking Line Epoxy 8-Inch	424.000 LF	_____.____	_____.____
0322	646.4520 Marking Line Same Day Epoxy 4-Inch	7,398.000 LF	_____.____	_____.____
0324	646.5020 Marking Arrow Epoxy	6.000 EACH	_____.____	_____.____
0326	646.5120 Marking Word Epoxy	1.000 EACH	_____.____	_____.____
0328	646.6120 Marking Stop Line Epoxy 18-Inch	152.000 LF	_____.____	_____.____
0330	646.7120 Marking Diagonal Epoxy 12-Inch	377.000 LF	_____.____	_____.____
0332	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,510.000 LF	_____.____	_____.____
0334	646.8120 Marking Curb Epoxy	2,383.000 LF	_____.____	_____.____
0336	646.8220 Marking Island Nose Epoxy	6.000 EACH	_____.____	_____.____
0338	646.8320 Marking Parking Stall Epoxy	5,307.000 LF	_____.____	_____.____
0340	646.9000 Marking Removal Line 4-Inch	260.000 LF	_____.____	_____.____
0342	649.0105 Temporary Marking Line Paint 4-Inch	15,660.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0344	650.4000 Construction Staking Storm Sewer	83.000 EACH	_____.____	_____.____
0346	650.4500 Construction Staking Subgrade	6,378.000 LF	_____.____	_____.____
0348	650.5000 Construction Staking Base	6,378.000 LF	_____.____	_____.____
0350	650.5500 Construction Staking Curb Gutter and Curb & Gutter	6,716.000 LF	_____.____	_____.____
0352	650.6000 Construction Staking Pipe Culverts	3.000 EACH	_____.____	_____.____
0354	650.8000 Construction Staking Resurfacing Reference	6,882.000 LF	_____.____	_____.____
0356	650.8500 Construction Staking Electrical Installations (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0358	650.9000 Construction Staking Curb Ramps	39.000 EACH	_____.____	_____.____
0360	650.9910 Construction Staking Supplemental Control (project) 01. 4140-19-73	LS	LUMP SUM	_____.____
0362	650.9920 Construction Staking Slope Stakes	4,678.000 LF	_____.____	_____.____
0364	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	5,789.000 LF	_____.____	_____.____
0366	652.0605 Conduit Special 2-Inch	6,330.000 LF	_____.____	_____.____
0368	653.0164 Pull Boxes Non-Conductive 24x42-Inch	2.000 EACH	_____.____	_____.____
0370	654.0102 Concrete Bases Type 2	1.000 EACH	_____.____	_____.____
0372	654.0220 Concrete Control Cabinet Bases Type 10	1.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0374	655.0230 Cable Traffic Signal 5-14 AWG	60.000 LF	_____.____	_____.____
0376	655.0515 Electrical Wire Traffic Signals 10 AWG	30.000 LF	_____.____	_____.____
0378	655.0610 Electrical Wire Lighting 12 AWG	7,770.000 LF	_____.____	_____.____
0380	655.0625 Electrical Wire Lighting 6 AWG	39,891.000 LF	_____.____	_____.____
0382	655.0630 Electrical Wire Lighting 4 AWG	39,891.000 LF	_____.____	_____.____
0384	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. STH 42 & Main St.	LS	LUMP SUM	_____.____
0386	657.0305 Poles Type 2	1.000 EACH	_____.____	_____.____
0388	657.0590 Trombone Arms 20-FT	1.000 EACH	_____.____	_____.____
0390	658.0171 Traffic Signal Face 1S 12-Inch	2.000 EACH	_____.____	_____.____
0392	658.5069 Signal Mounting Hardware (location) 01. STH 42 & Main St.	LS	LUMP SUM	_____.____
0394	690.0150 Sawing Asphalt	10,295.000 LF	_____.____	_____.____
0396	690.0250 Sawing Concrete	753.000 LF	_____.____	_____.____
0398	740.0440 Incentive IRI Ride	2,400.000 DOL	1.00000	2,400.00
0400	999.1500.S Crack and Damage Survey	LS	LUMP SUM	_____.____
0402	SPV.0060 Special 01. Salvage Lighting Unit	7.000 EACH	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0404	SPV.0060 Special 02. Reconnecting Storm Sewer Laterals	5.000 EACH	_____.____	_____.____
0406	SPV.0060 Special 03. Removing Lighting Unit	27.000 EACH	_____.____	_____.____
0408	SPV.0060 Special 04. Install Lighting Unit Type Special	75.000 EACH	_____.____	_____.____
0410	SPV.0060 Special 05. Lighting Control Cabinet Base Type Special	2.000 EACH	_____.____	_____.____
0412	SPV.0060 Special 06. Concrete Bases Type Special	73.000 EACH	_____.____	_____.____
0414	SPV.0060 Special 07. Trimming Trees	2.000 EACH	_____.____	_____.____
0416	SPV.0060 Special 08. Pipe Inlet Structure	1.000 EACH	_____.____	_____.____
0418	SPV.0060 Special 09. Manhole special 8-FT	1.000 EACH	_____.____	_____.____
0420	SPV.0060 Special 10. Removing Landscape Rocks	10.000 EACH	_____.____	_____.____
0422	SPV.0060 Special 11. Lighting Control Cabinets Type Special	2.000 EACH	_____.____	_____.____
0424	SPV.0060 Special 12. Concrete Base Spread Footing	2.000 EACH	_____.____	_____.____
0426	SPV.0075 Special 01. Street Sweeping	48.000 HRS	_____.____	_____.____
0428	SPV.0090 Special 01. Fence Chain Link Polymer Coated 4-FT	384.000 LF	_____.____	_____.____
0430	SPV.0090 Special 02. Concrete Cold Weather Covering Curb and Gutter Plastic 1 Layer	3,000.000 LF	_____.____	_____.____

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0432	SPV.0090 Special 03. Concrete Cold Weather Covering Curb and Gutter Plastic 2 Layers	3,000.000 LF	_____._____	_____._____
0434	SPV.0090 Special 04. Concrete Cold Weather Covering Curb and Gutter Plastic/Hay/Plastic	3,000.000 LF	_____._____	_____._____
0436	SPV.0090 Special 05. Joint Ties	528.000 LF	_____._____	_____._____
0438	SPV.0105 Special 01. Removing Flashing Beacon (STH 42 & Main St.)	LS	LUMP SUM	_____._____
0440	SPV.0165 Special 01. Wall Modular Block Mechanically Stabilized Earth (R-15-11)	1,250.000 SF	_____._____	_____._____
0442	SPV.0165 Special 02. Wall Modular Block Mechanically Stabilized Earth (R-15-12)	1,033.000 SF	_____._____	_____._____
0444	SPV.0165 Special 03. Crosswalk Apron Pavers	160.000 SF	_____._____	_____._____
0446	SPV.0165 Special 04. Concrete Cold Weather Covering Sidewalk Plastic 1 Layer	12,000.000 SF	_____._____	_____._____
0448	SPV.0165 Special 05. Concrete Cold Weather Covering Sidewalk Plastic 2 Layers	12,000.000 SF	_____._____	_____._____
0450	SPV.0165 Special 06. Concrete Cold Weather Covering Sidewalk Plastic/Hay/Plastic	12,000.000 SF	_____._____	_____._____
0452	SPV.0090 Special 06. Fence Chain Link with Top Rail, 5-FT	370.000 LF	_____._____	_____._____
	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

May 13, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #25: 4140-19-73
Gibraltar – Sister Bay
Bluff Ln – Gibraltar Road
STH 42
Door County

Letting of May 14, 2019.

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

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
625.0100	Topsoil	SY	796	6,842	7,638

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
182	Miscellaneous Quantities – Modifications to Restoration Items, Increase topsoil quantity.

Schedule of Items
Attached, dated May 13, 2019, are the revised Schedule of Items Page 8.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 182.

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

RESTORATION ITEMS

CATG.	Sta. TO STA.	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY	REMARKS
0010	97+36 - 97+51	STH 42 RT	16	16	16	---	0.01	1	1	---	---	BLUFF LANE, SEE NOTE (2)
0010	99+44 - 100+57	STH 42 RT	5	---	---	---	0.01	---	1	1	5	NOBLE HOUSE
0010	125+33 - 126+20	STH 42 LT	10	10	10	---	0.01	1	1	---	---	SEE NOTE (2)
0010	129+60 159+95	STH 42 RT	35	35	35	---	0.01	1	1	---	---	SEE NOTE (2)
0010	134+35 - 134+70	STH 42 LT	8	---	---	---	0.01	---	---	1	8	
0010	134+82 - 136+91	STH 42 LT	210	---	---	---	0.13	---	---	24	210	
0010	135+06 - 137+78	STH 42 RT	156	---	---	---	0.10	---	---	17	156	
0010	137+27 - 137+41	STH 42 LT	12	---	---	---	0.01	---	---	1	12	
0010	137+96 - 140+31	STH 42 RT	105	---	---	---	0.07	---	---	12	105	
0010	137+76 - 138+45	STH 42 LT	24	---	---	---	0.02	---	---	3	24	
0010	138+64 - 148+17	STH 42 LT	641	---	---	---	0.40	---	---	72	641	
0010	140+37 - 142+21	STH 42 RT	84	---	---	---	0.05	---	---	9	84	
0010	141+62 - 147+58	STH 42 LT	227	---	---	---	0.14	---	---	25	227	
0010	142+47 - 143+98	STH 42 RT	221	---	---	---	0.14	---	---	25	221	
0010	144+68 - 146+30	STH 42 RT	455	---	---	---	0.29	---	---	51	455	
0010	146+61 - 153+53	STH 42 RT	612	---	---	---	0.39	---	---	69	612	
0010	148+97 - 153+35	STH 42 RT	183	---	---	---	0.12	---	---	20	183	
0010	148+68 - 151+08	STH 42 LT	400	---	---	---	0.25	---	---	45	400	
0010	151+59 - 158+55	STH 42 LT	1,378	---	---	---	0.87	---	---	154	1,378	
0010	153+98 - 158+55	STH 42 RT	759	---	---	---	0.48	---	---	85	759	
0010	11+28	CTH F LT	560	---	---	---	0.35	---	---	63	560	TEMP DWY RESTORATION
0010	11+60	GIBRALTAR RD RT	495	---	---	---	0.31	---	---	55	495	GIBRALTAR RD TEMP CONNECTION RESTORATION
0010	00+00 - 00+00	UNDISTRIBUTED	250	250	100	0.7	0.16	5	7	28	250	SEE NOTE (1) AND (2)
		SUBTOTAL 0010	6,846	311	161	0.7	4.31	8	11	760	6,785	
0060	107+70 - 107+78	STH 42 LT	82	82	82	0.1	0.05	2	3	---	---	SS OUTFALL REMOVAL, SEE NOTE (2)
0060	147+35 - 148+03	STH 42	40	---	---	---	---	---	---	---	---	MEDIAN ISLAND
0060	156+31 - 156+99	STH 42	40	---	---	---	---	---	---	---	---	MEDIAN ISLAND
0060	10+17 - 15+20	SHORE RD	323	323	323	---	0.81	6	8	---	---	SEE NOTE (2)
0060	SRPING ROAD	---	52	---	---	---	---	---	---	6	52	SPRING ROAD SIDEWALK
0060	CTH F	---	255	---	---	---	---	---	---	29	255	CTH F SIDEWALK
		SUBTOTAL 0060	792	405	405	0.1	0.87	6	11	34	307	
		TOTAL	7,638	716	566	0.8	5.18	14	22	794	7,092	

(1) SOIL STABLIZER TYPE B USED TO HOLD EARLY SPRING GRADING IN PLACE UNTIL SOD BECOMES AVAILABLE.

(2) IN FALL OF 2019 TOPSOIL, TEMP SEED, FERT, AND EMAT DISTURBED AREAS. IN SPRING OF 2019 REMOVE EMAT, WORK TOPSOIL, SEED, FERT, AND MULCH DISTURBED AREAS.

EROSION CONTROL

CATG.	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
0010	97+43 - 97+57	STH 42 RT	30	30	---	---	21	BLUFF LANE
0010	107+80 - 108+11	STH 42 LT	30	30	---	---	---	CURB RAMP
0010	122+70 - 124+03	STH 42 RT	122	122	---	---	---	
0010	123+30 - 124+49	STH 42 LT	82	82	---	---	43	
0010	125+10 - 126+20	STH 42 LT	109	109	---	---	---	
0010	129+69 - 129+88	STH 42 RT	19	19	---	3	---	
0010	134+29 - 136+91	STH 42 LT	242	242	---	---	43	
0010	135+06 - 137+77	STH 42 RT	252	252	---	---	43	
0010	141+34 - 142+21	STH 42 RT	99	99	---	---	---	
0010	142+48 - 143+97	STH 42 RT	205	205	---	---	---	
0010	144+30	STH 42 LT	---	---	---	2	---	
0010	144+71 - 145+34	STH 42 RT	111	111	---	---	---	
0010	144+79	STH 42 LT	---	---	9	---	---	
0010	145+54 - 146+20	STH 42 RT	80	80	---	---	---	
0010	147+16 - 151+22	STH 42 RT	396	396	---	---	---	
0010	151+50 - 153+84	STH 42 RT	223	223	---	---	---	GIBRALTAR RD
0010	151+83	STH 42 LT	---	---	---	3	---	
0010	152+49	STH 42 LT	---	---	---	3	---	
0010	152+07 - 155+71	STH 42 LT	396	396	10	---	---	
0010	154+03 - 156+63	STH 42 RT	223	223	20	---	---	
0010	156+82 - 158+75	STH 42 RT	200	200	20	3	---	
0010	156+88	STH 42 LT	---	---	---	3	---	
0010	159+24	STH 42 LT	---	---	10	---	---	
		SUBTOTAL 0010	2,818	2,818	69	17	150	
0010	107+76 - 108+11	STH 42 LT	70	70	---	---	22	OUTFALL REMOVAL
0060	10+17 - 13+36	SHORE RD LT	368	368	---	---	---	
0060	13+45 - 15+25	SHORE RD LT	215	215	---	---	---	
0060	SPRING RD		65	65	---	---	---	SIDEWALK
0060	CTH F		153	153	---	---	---	SIDEWALK
		SUBTOTAL 0060	801	801	---	---	22	
		TOTAL	3,619	3,619	69	17	172	

Addendum No. 02
ID 4140-19-73
Revised Sheet 182
May 13, 2019

Proposal ID: 20190514025 Project(s): 4140-19-73

Federal ID(s): 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
0210	612.0406 Pipe Underdrain Wrapped 6-Inch	386.000 LF	_____.____	_____.____
0212	612.0902.S Insulation Board Polystyrene (inch) 01. 2-INCH	28.000 SY	_____.____	_____.____
0216	616.0700.S Fence Safety	919.000 LF	_____.____	_____.____
0218	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4140-19-73	1.000 EACH	_____.____	_____.____
0220	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0222	620.0300 Concrete Median Sloped Nose	287.000 SF	_____.____	_____.____
0224	624.0100 Water	107.900 MGAL	_____.____	_____.____
0226	625.0100 Topsoil	7,638.000 SY	_____.____	_____.____
0228	627.0200 Mulching	716.000 SY	_____.____	_____.____
0230	628.1504 Silt Fence	3,619.000 LF	_____.____	_____.____
0232	628.1520 Silt Fence Maintenance	3,619.000 LF	_____.____	_____.____
0234	628.1905 Mobilizations Erosion Control	6.000 EACH	_____.____	_____.____
0236	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH	_____.____	_____.____
0238	628.2004 Erosion Mat Class I Type B	566.000 SY	_____.____	_____.____
0240	628.6510 Soil Stabilizer Type B	0.800 ACRE	_____.____	_____.____
0242	628.7005 Inlet Protection Type A	2.000 EACH	_____.____	_____.____