HIGHWAY WORK PROPOSAL

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

Proposal Number: 005

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Racine	1320-23-73	N/A	STH 11, Wisconn Valley Way To CTH H; Wisconn Valley Way To CTH H	STH 011
Racine	1320-23-70	N/A	STH 11, EFR to Wisconn Valley Way; EFR to Wisconn Valley Way	STH 011

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: $360,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: July 9, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code SAMPLE NOT FOR BIDDING PURPOSES
Contract Completion Time August 31, 2020	
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

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

Notary Seal

Type of Work: For Department Use Only

Excavation, Base, Concrete Pavement, Curb and Gutter, Sidewalk, Storm Sewer, Pavement Marking, Signs, Traffic Signals, Street Lighting

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.

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1320-23-70,STH 11, EFR to Wisconn Valley Way, EFR to Wisconn Valley Way, STH 11, and Project 1320-23-73 STH 11, Wisconn Valley Way to CTH H, Wisconn Valley Way to CTH H, STH 11 located in Racine 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 removals, grading, base aggregate, concrete pavement, storm sewer, erosion control, permanent signing, traffic signals, traffic control, pavement markings, restoration and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Non-mandatory Pre-Bid Meeting

Prospective bidders are invited to attend a non-mandatory pre-bid meeting on June 27, 2019 at 9:00 AM at the Mt Pleasant Village Hall, 8811 Campus Drive, Mount Pleasant, WI 53406.

No meeting minutes will be prepared. Issues discovered at the meeting will be handled by addendum.

4. Wisconsin Inclusion Plan.

Utilization Plan and Other Inclusion Efforts

WisDOT recognizes the intentions of the Local Development Agreement to encourage inclusion for targeted businesses and workforce participants. Bidders are encouraged to make good-faith efforts to achieve these intentions within these contract provisions.

Requirement at the Time of Bid

All Bidders should submit a Wisconsin Utilization Plan at the time of bid demonstrating how s/he will achieve the inclusion objectives for targeted businesses and workforce participants. The submission should comply with the Wisconsin Utilization Plan.

The Wisconsin Utilization Plan should be submitted to the Wisconsin Department of Transportation: Attn: Beth Cannestra at dotdtsdbpd@dot.wi.gov. For questions regarding this provision please contact Michele Carter at Michele.Carter@dot.wi.gov.

A Public Infrastructure Construction Workforce Engagement Advisory Committee has been created to review trends in all bidders' Wisconsin Inclusion Plan submittals for communication and engagement purposes in the local community.

Business Inclusion Goals, Registration and Certification Requirements

WisDOT recognizes that the Local Development Agreement includes language to encourage local and disadvantaged business inclusion. As a result, the following workforce goals and resources have been established that are consistent with Foxconn's inclusion goals for their project:

Wisconsin based Business	60%
Racine County based Businesses	10%
Minority-Owned (MBE) Business Enterprises	10% Combined
Women-Owned (WBE) Enterprises	
Veteran-Owned Business Enterprises	
Directory of Wisconsin based Businesses Directory of Racine County based Businesses	Wisconsin Department of Revenue

The Wisconsin Utilization Plan is to demonstrate the Bidder's efforts to maximize inclusion of targeted businesses and/or intermediaries which are certified and recognized, to include:

Business Category/Certification	Registration Certification Type
Minority Business Enterprise (MBE)	MBE
North Central Minority Supplier Development Council	MSDC
Women-owned Business Enterprise (WBE)	WBENC
Women's Business Enterprise National Council	
Wisconsin Unified Certification DBE Program	City of Madison DOT, Dane County, Milwaukee County Links
Emerging Business Enterprise (EBE)	EBE
Small Business Enterprise (SBE)	SBE
Service Disabled Veteran and or Veteran-owned business (SDV/SVB)	SDV/SVB
Wisconsin Economic Development Corporation	WEDC

Approved List of Targeted Businesses Intermediaries	
African American Chamber of Commerce of Wisconsin	Pan-African Community Association
American Indian Chamber of Commerce of Wisconsin	The Business Council, Inc.
Greater Milwaukee Chamber of Commerce	Wisconsin Black Chamber of Commerce, Inc.
Hmong Wisconsin Chamber of Commerce	Wisconsin Chinese Chamber of Commerce
Latino Entrepreneurial Network	Wisconsin LGBT Chamber of Commerce
Milwaukee Inner-City Congregations Allied for Home (MICAH)	Wisconsin Veterans Chamber of Commerce
National Association of Minority Contractors (NAMC-WI)	
Approved List of Targeted Businesses Directories	
City of Milwaukee Small Business Enterprises (SBE) Business Directory	
Wisconsin Supply Chain Market Directory	
Wisconsin Unified Certification Program (WIUCP) DBE Directory	

Workforce Inclusion and Diversity Goals

WisDOT recognizes that the Local Development Agreement includes language to encourage local and disadvantaged business inclusion. As a result, the following workforce goals have been established that are consistent with Foxconn's inclusion goals for their project:

Wisconsin Resident Work Hours with an emphasis on Racine County Residents	70%
Minorities or People of Color* *Minorities or People of Color as defined: American Indian or Alaska Native – Asian – Black or African American – Hispanic or Latino – Native Hawaiian or Other Pacific Islander. *Federal Register/Vol. 62, No. 210*	10% Combined
Women	
Veterans	

The bidder should make every feasible effort to provide economic opportunities to workforce candidates. The submission of a Wisconsin Utilization Plan affirms the Bidder will have implemented inclusionary measures to engage workforce intermediaries which include the following:

Approved List of Workforce Intermediaries
Human Asset Development Corporation (HADC) First Choice Pre-Apprenticeship Training
Wisconsin Regional Training Partnership WRTP/BIG STEP
Racine Campus of Gateway Technical College

Post-Award

The following two actions will be requested of the awarded contractor:

- **Affirmation of business inclusion plan:**

Within five calendar days of contract award, affirm the participation of the targeted businesses who have been identified in the Wisconsin Utilization Plan. Submit separate Wisconsin Inclusion Agreement(s) for each individual business or organization being utilized. Submit to the Wisconsin Department of Transportation: Attn: Beth Cannestra at dotdtsdbpd@dot.wi.gov

- **Monitoring of workforce inclusion plan:**

The awarded contractor is required to submit weekly certified payrolls by utilizing WisDOT's Civil Rights Compliance System (CRCS) for workforce analysis purposes only.

5. 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, including interim completion dates, is based on an expedited work schedule and may require extraordinary forces and equipment due to enhanced coordination efforts with adjacent site developments and utility installation.

Be advised that there may be multiple mobilizations and/or remobilizations to complete construction operations, for example such items as: grading, concrete pavement repair/replacement, paving, traffic control, signing, temporary and permanent pavement marking, finishing items and other incidental items. No additional payment will be made, by the department, for additional mobilizations.

Complete all grading, paving, pavement marking, and signing required to open traffic lanes shown in Stage 4B by November 30, 2019. Complete restoration of project 1320-23-70 and install all necessary erosion control prior to Winter Shutdown 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 10 days of the approved start date.

Interim and Final Completion of Work

Supplement standard spec 108.10 with the following:

The department will not grant time extensions for the following:

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

sef-108-015 (20171004)

Winter weather work, grading, excavation of frozen ground, high ground water, dewatering and mitigation efforts for high water table elevations shall not be considered adverse weather delays to construction. Cost for dewatering is considered incidental to construction.

Anticipate cold weather and early spring concrete masonry, concrete paving and ancillary concrete work (curb, median barrier, etc.). Plan to heat aggregates and water for mixes, and that the heating of the aggregate and water is considered incidental to those concrete items. There will be no adverse weather delay for cold weather construction.

A Schedule of Operations

The department anticipates that the schedule for each stage shall be as follows below, unless modifications are approved in writing by the engineer.

Coordinate traffic control and work operations with other projects listed under the article Other Contracts.

STH 11 will remain open to traffic at all times except for setting up traffic shifts. For setting up traffic shifts STH 11 may be closed from 9:00 PM to 5:30 AM. Coordinate with the Engineer prior to closing STH 11 for setting up traffic shifts.

Stage 1A

1320-23-70

Provide for access to all residents on STH 11 at all times. STH 11 interchange project 1030-24-71 WB has lanes under construction. Coordinate traffic at west project limits with Project 1030-24-71. Stage 1A activities include:

- Repair asphaltic pavement as directed by the engineer.

1320-23-73

Provide for access to all residents on STH 11 at all times. Stage 1A activities include:

- Repair asphaltic pavement as directed by the engineer.
- Reconstruction outside EB shoulder at International Drive intersection

Stage 1B

1320-23-70

Provide for access to all residents on STH 11 at all times. STH 11 interchange project 1030-24-71 has WB lanes under construction. Coordinate traffic at west project limits with Project 1030-24-71. Stage 1A activities include:

- Repair asphaltic pavement as directed by the engineer.

1320-23-73

Provide for access to all residents on STH 11 at all times. Stage 1A activities include:

- Repair asphaltic pavement as directed by the engineer.
- Construct median crossovers.

Stage 2

1320-23-70

All eastbound traffic will be shifted to existing westbound lanes of STH 11. Provide for access to all residents on STH 11 at all times. Stage 2 activities include:

- Construct STH 11 eastbound lanes.
- Construct south half of Wisconn Valley Way intersection.
- Grade temporary median ditch to drain existing storm sewer into proposed storm sewer system.
- Construct temporary crossovers.
- Coordinate traffic at west project limits with Project 1030-24-71.

1320-23-73

All traffic is shifted to existing STH 11 westbound lanes from west project limits to Station 199+00, then crossing to existing STH 11 eastbound lanes until Station 220+00, then shifting back to its respective side. Provide for access to all residents on STH 11 at all times. Stage 2 activities include:

- Construct north half of International Drive intersection.
- Construct temporary crossover and connections.
- Begin construction of STH 11 eastbound lanes.

Stage 3

1320-23-70

All traffic is shifted to the newly constructed eastbound STH 11 lanes. Construct the westbound lanes of STH 11. Provide for access to all residents on STH 11 at all times. Stage 3 activities include:

- Construct STH 11 westbound lanes.

1320-23-73

All traffic is shifted to existing STH 11 westbound lanes from west project limit to Station 220+00, then shifting back to its respective side. Provide for access to all residents on STH 11 at all times. Stage 3 activities include:

- Continue construction of STH 11 eastbound lanes.
- Grade temporary median ditch to drain existing storm sewer into proposed storm sewer system.

Stage 4A

1320-23-70

All traffic is shifted to its respective side of STH 11. Stage 4A activities include:

- Complete median at west project limits.

1320-23-73

All traffic is shifted to existing STH 11 westbound lanes from west project limit to Station 220+00, then shifting back to its respective side. Provide for access to all residents on STH 11 at all times.
No work on STH 11

Stage 4B

1320-23-70

All traffic is shifted to its respective side of STH 11.
No work on STH 11 during winter shutdown.

1320-23-73

All traffic is shifted to existing STH 11 westbound lanes from west project limit to Station 220+00, then shifting back to its respective side. Provide for access to all residents on STH 11 at all times.
No work on STH 11 during winter shutdown.

Stage 5

1320-23-70

All traffic is shifted to its respective side of STH 11. Stage 5 activities include:

- Complete finishing items.

1320-23-73

All traffic is shifted to STH 11 westbound lanes. STH 11 is closed to through traffic east of International Drive. Provide for access to all residents on STH 11 at all times. Stage 5 activities include:

- Construct STH 11 eastbound lanes.
- Grade temporary median ditch to drain existing storm sewer into proposed storm sewer system.

Stage 6

1320-23-70

No work on STH 11

1320-23-73

All traffic is shifted to newly constructed STH 11 east bound lanes. STH 11 is closed to through traffic east of International Drive. Provide for access to all residents on STH 11 at all times. Stage 6 activities include:

- Construct STH 11 westbound lanes.

Stage 7

1320-23-70

All traffic is shifted to its respective side of STH 11. Stage 7 activities include:

- Finish median at east project limits.

1320-23-73

All traffic is shifted to its respective side of STH 11. Stage 7 activities include:

- Remove temporary cross over and finish median.

Winter Operations 2019/2020 – Restore through traffic operations along STH 11 for all traffic. Contractor to coordinate winter maintenance operations per subsection C “Winter Maintenance” with local municipalities.

B Work Restrictions

Right-of-way

Do not commence work in areas that are not under department or Village of Mount Pleasant ownership as outlined in the plans. It is anticipated that real estate for the project will be fully clear by June 1, 2019. All associated site preparation and demolition work shall be complete by February 1, 2019 for those parcels with homes remaining. Contact Steve Hoff (262) 548-6718 for detailed map of individual parcel clearance status prior to bidding.

Wetlands

The department has obtained the Section 404 permit.

Work Zone Ingress/Egress.

Provide engineer approved signage and for access into and out of the work zones at locations approved by the engineer.

At the weekly traffic meetings, provide an Emergency Work Zone Access Plan and required updates, as approved by the engineer, to direct emergency responders accessing a mainline median barrier restricted work zone.

Locations of work zone egress or ingress for construction vehicles, other than as the plans show, is subject to approval from the engineer. All construction vehicles shall yield to all through traffic at all locations.

Migratory Birds

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

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

Northern Long-eared Bat *(Myotis septentrionalis)*

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. Roosts have been identified within 150 feet of the project limits. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

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

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

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

Rusty Patched Bumble Bee (*Bombus affinis*)

The rusty patched bumble bee (Bombus affinis) was listed as endangered by the U.S. Fish and Wildlife Service (USFWS) under the Endangered Species Act, effective March 21, 2017. Construction activities such as grading outside the mowed shoulder area have the potential to impact ground nests and wildflowers that may serve as a food source for the bee. If an active rusty-patched bumblebee nest is encountered in construction areas, contact the WisDOT Regional Environmental Coordinator, who will coordinate with USFWS.

C Winter Maintenance.

Racine County will perform will perform snow removal operations for STH 11. Provide for snow removal in those areas closed to traffic as required to facilitate safe construction operations and as required to eliminate snow melt run-off from crossing active roadways. Provide Racine County Highway Maintenance and Racine County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

sef-999-060 (20120330)

D Enhanced Coordination

The project limits include numerous utilities that are large in size that parallel the entire length of the project limits. South of STH 11 will be under construction with expansive site development which will be adding trucking to the project limits. Time extensions shall not be granted for delays incurred due to utility installation or due to providing access for site development traffic.

Coordinate traffic staging and shifts with the ongoing Wisconn Valley Way Project, WisDOT 2704-00-76, STH 11 Interchange Projects 1030-24-71, 1030-24-72, International Drive 2704-00-75, and CTH H Project 3760-00-70 and 3760-00-71. Additional coordination with STH 11 Interchange contractor, CTH H contractor and Wisconn Valley Way contractor, is anticipated and all traffic shifts and stage changes in this project that impact both STH 11 Interchange and Wisconn Valley Way will need to be approved by the engineer.

FoxConn site and utility construction activities will be underway adjacent to STH 11. Increased trucking and traffic volumes are expected within the project limits. Coordinate construction activities and access to the FoxConn site with the developer. Wisconn Valley Access Map link (https://projects.511wi.gov/fdr/trucking/)

Ensure all elements of coordination with various contractors are accounted for when determining the construction schedule.

Interim Completion: (November 30, 2019)

If the contractor fails to open International Drive, prior to 12:01 AM October 15, 2019, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day contract work remains incomplete beyond 12:01 AM October 15, 2019. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

If the contractor fails to fully open STH 11 and STH 11/Wisconn Valley Way Intersection as stated in Stage 4 A under the article Traffic, prior to 12:01 AM December 1, 2019, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day contract work remains incomplete beyond 12:01 AM December 1, 2019. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

E Control of Water

The design, furnishing of all labor and material needed to control, handle, dispose and treat groundwater and surface water that may be encountered in all excavations is considered incidental to construction.

6. Referenced Construction Specifications.

Construct the work enumerated below conforming to the the Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition and amendments (SSSW), and as hereinafter provided.

If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

Furnish Sanitary Manhole Cover, Item SPV.0060.601

Reconstruct Sanitary Manhole, Item SPV.0060.602

Adjusting Sanitary Manhole, Item SPV.0060.603

stp-105-002 (20130615)

7. Traffic.

General

The construction sequence, including the associated traffic control, shall be substantially accomplished as detailed in the Traffic Control Plans, and as described herein.

Maintain access at all times to all driveways located along within the project limits unless otherwise noted in the plans. Notify the property occupant five days in advance of the driveway reconstruction to verify closure or staged driveway construction methods.

Coordinate traffic requirements under this contract with other adjacent and concurrent department or local municipality projects. Implement and coordinate with other contractors all traffic control as shown on the plans. Modifications to the traffic control plan may be required by the engineer to be safe and consistent with adjacent work by others.

Unless detailed in the plans, do not begin or continue any work that closes traffic lanes outside the allowed time periods specified in this article.

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

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	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.

stp-108-057 (20161130)

Notify the engineer and Construction Program Work Zone and Traffic Engineer if there are any changes in the schedule, early completions, or cancellations of scheduled work.

Staging

Perform construction operations on STH 11 in stages as shown in the traffic control/construction staging plan. The construction stages are:

STH 11

Stage 1A

1320-23-70

STH 11 will be open to two lanes of traffic in each direction on the existing roadway except as needed for asphaltic pavement repair. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be under construction and closed to traffic.

1320-23-73

STH 11 will be open to one lane of traffic in the eastbound direction. STH 11 will be open to two lanes of traffic in the westbound direction on the existing roadway except as needed for asphaltic pavement repair. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be under construction and closed to traffic.

Stage 1B

1320-23-70

STH 11 will be open to two lanes of traffic in each direction on the existing roadway except as needed for asphaltic pavement repair. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be under construction and closed to traffic.

1320-23-73

STH 11 will be open to one lane of traffic in each direction on the existing roadway. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be under construction and closed to traffic.

Stage 2

1320-23-70:

STH 11 will remain open to one lane of traffic in each direction on the existing westbound roadway. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be under construction and closed to traffic.

1320-23-73:

STH 11 will remain open to one lane of traffic in each direction on the existing roadway. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be under construction and closed to traffic.

Stage 3

1320-23-70:

STH 11 traffic will be shifted to the newly constructed STH 11 eastbound lanes with one lane of traffic in each direction. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be under construction and closed to traffic.

1320-23-73:

STH 11 traffic will be shifted to the existing STH 11 westbound lanes with one lane of traffic in each direction. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be open to traffic.

Stage 4A

1320-23-70:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Eastbound traffic will be open to three lanes, reducing to one lane. Westbound traffic will be open to one lane. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be open to traffic.

1320-23-73:

STH 11 traffic will be shifted to the existing STH 11 westbound lanes with one lane of traffic in each direction. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be open to traffic.

Stage 4B

1320-23-70:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Both directions of traffic will be open to three lanes, reducing to one lane. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be open to traffic.

1320-23-73:

STH 11 traffic will be shifted to the existing STH 11 westbound lanes with one lane of traffic in each direction. Access to all residents will be maintained at all times. CTH H will remain open to traffic. International Drive (new road) will be open to traffic.

Stage 5

1320-23-70:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Both directions of traffic will be open to three lanes, reducing to one lane. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be open to traffic

1320-23-73:

STH 11 will be shifted to the existing STH 11 westbound lanes with one lane of traffic in each direction west of International Drive. STH 11 east of International Drive will closed to through traffic. International Drive (new road) will be open to traffic. CTH H will be under construction. Access to all residents will be maintained at all times.

Stage 6

1320-23-70:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Both directions of traffic will be open to three lanes, reducing to one lane. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be open to traffic.

1320-23-73:

STH 11 will be shifted to the newly constructed eastbound lanes with one lane of traffic in each direction west of International Drive. STH 11 east of International Drive will be closed to through traffic. International Drive (new road) will be open to traffic. CTH H will be under construction. Access to all residents will be maintained at all times.

Stage 7

1320-23-70:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Both directions of traffic will be open to three lanes, reducing to one lane. The East Frontage Road will remain open to traffic. Wisconn Valley Way (new road) will be open to traffic.

1320-23-73:

STH 11 traffic will be on the respective sides of the newly constructed roadway. Eastbound traffic will be open to two lanes, reducing to one lane west of International Drive. Westbound traffic will be open to two lanes west of International Drive. STH 11 will be closed to through traffic east of International Drive. International Drive (new road) will be open to traffic. CTH H will be under construction. Access to all residents will be maintained at all times.

Railroad

Work zone traffic control devices and signs shall not be placed over or within 50 feet of the railroad right-of-way located approximately 2000 feet east of CTH H.

8. Traffic Meetings and Traffic Control Scheduling.

Every Thursday by 9:00 AM, submit a detailed proposed 2-week look-ahead traffic closure schedule to the engineer. Type the detailed proposed 2-week look-ahead closure schedule into an excel spreadsheet provided by the engineer. Enter information such as closure dates, duration, work causing the closure and detours to be used. Also enter information such as ongoing long-term closures, emergency contacts and general 2-month look-ahead closure information into the excel spreadsheet.

Meet with the engineer at 10:00 AM on Thursdays at the project field office to discuss and answer questions on the proposed schedule. Edit, delete and add closures to the detailed proposed 2-week look-ahead schedule, as directed by the engineer, so that proposed closures meet specification requirements. Other edits, deletions or additions unrelated to meeting specification requirements may also be agreed upon with the engineer during the 10:00 AM meeting.

Every Thursday at 2:00 PM, or as scheduled by the engineer, attend a weekly traffic meeting. The meeting will bring local agencies, project stakeholders, owner managers, owner engineers, contractors, document control and construction engineering personnel together to discuss traffic staging, closures and general impacts. Upon obtaining feedback from the meeting attendees, edit, delete and add information to the detailed 2-week look-ahead closure schedule, as needed. Submit the revised 2-week look-ahead to the engineer.

Obtain approval from the engineer for any mid-week changes to the closure schedule. Revise the 2-week look-ahead as required and obtain engineer approval.

9. Lane Rental Fee Assessment.

A General

The contract designates some lane closures to perform the work. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Prosecution and Progress article.

Submit the dates of the proposed lane or driveway access restrictions to the engineer as part of the progress schedule.

Coordinate lane or driveway access restrictions with any concurrent operations on adjacent roadways within 3 miles of the project. If other projects are in the vicinity of this project, coordinate lane closures to run concurrent with lane closures on adjacent projects when possible. When lane closures on adjacent projects extend into the limits of this project, Lane Rental Fee Assessments will only occur if the closure facilitates work under this contract.

B Lane Rental Fee Assessment
The Lane Rental Fee Assessment incurred for each lane closure, each access closure, and each full closure of a roadway, is as follows:

- STH 11 and Wisconn Valley Way lanes to 1 lane: $5,000 per hour broken into 15-minute increments.
- STH 11, Wisconn Valley Way, and International Drive lanes to Full Closure: $10,000 per hour broken into 15-minute increments.

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane closure event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires prior to the completion of specified work in the contract, additional liquidated damages will be assessed according to standard spec 108.11 or as specified within this contract.
stp-108-070 (20161130)

10. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying CTH KR and STH 11 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, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019 for Labor Day;
- From noon Wednesday, November 27, 2019 to 6:00 AM Monday, December 2, 2019 for Thanksgiving;
- From noon Tuesday, December 24, 2019 to 6:00 AM Thursday, January 2, 2020 for Christmas and New Year's Day;
- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Friday, July 3, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day.

stp-107-005 (20050502)

Holiday work restrictions do not apply to roadways or ramps already closed long term during construction as shown on the plans. New long-term closures of ramps and roadways must be coordinated with the holiday work restrictions.

11. Work Restrictions.

Comply with all local ordinances that apply to local street work operations, including those pertaining to working from 9:00 PM to 7:00 AM. If required to work outside of the allowable timeframes, furnish any ordinance variance or required permits to the engineer in writing 3 days before performing this work. Do not perform any work that violates local ordinance prior to obtaining written approval from the engineer.

12. Utilities.

This contract comes under the provisions of Administrative Rule TRANS 220.

Additional information regarding recently relocated utility facilities may be available on permits issued to the utility companies. These permits can be viewed at the Region Office during normal working hours. Contact WisDOT SE Freeways Utility Coordinator Greg Berry at (414) 750-7828 for further information.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are required for this construction project as noted below. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per state statute. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Some utility work, as described below, is dependent on prior work being performed by the contractor at a specific site. Provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Notice shall be given 14 to 16 calendar days in advance of when the site will be available to the utility. Follow up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

Contact utility companies listed in the plans prior to preparing bids to obtain current information on existing utility locations and the status of any new utility relocation work.

Utility companies will be performing utility work and adjustments within the limits during the life of the project. The contractor shall cooperate and coordinate construction activities with these companies.

There may be discontinued utility facilities within the project limits. If a conflict with a discontinued utility facility is encountered, contact the appropriate utility owner/representative to coordinate construction activities and proper removal and disposal of said facility as necessary.

Utility working days shown herein are as defined in Wisconsin Administrative Code Chapter Trans 220.

Known utilities in the project area are as follows:

Project 1320-23-70

AT&T Wisconsin has existing overhead and underground communications facilities within the project limits in the following locations:

- An existing underground communications line beginning beyond the westerly project limits and running easterly along a line 13’ northerly of and parallel to the proposed southerly STH 11 right-of-way to Station 153+42, 106’RT where it turns and runs southeasterly and ends at a communications hut at Station 153+137, 89’RT. This line will remain in place without adjustment.
- An existing overhead communication line beginning at a pole at Station 159+84, 95’RT and running southerly to beyond the project limits. AT&T Wisconsin will remove the overhead line prior to construction.

AT&T Wisconsin also has discontinued underground communications facilities within the project limits in the following locations:

- A discontinued underground communications line beginning beyond the westerly project limits and running easterly along the northerly STH 11 right-of-way to beyond the project limits.
- A discontinued underground communication line beginning beyond the westerly project limits and running easterly along a line approximately 14’ north of and parallel to the existing southerly STH 11 right-of-way to a discontinued manhole at Station 153+94, 69’RT where it turns and runs southerly and ends at the communications hut at Station 153+137, 89’RT.

Contact Jeff Oldenburg, (262) 896-7522, of AT&T Wisconsin 7 days in advance to coordinate locations and any excavation near their facilities.

Racine Water Works Commission (RWWC) has no existing underground water facilities within the project limits.

Prior to and during construction, RWWC will construct new water main in the following locations:

- A new water main beginning beyond the westerly project limits and running easterly along a line 31' north of and parallel to the proposed southerly STH 11 right-of-way to Station 150+54, 120'RT and then continuing northeasterly to Station 151+70, 99'RT. From there the main will continue easterly to Station 156+66, 97'RT where it will turn and run southeasterly to Station 157+26, 154'RT. From there it will run southerly to a tee at Station 157+26, 164'RT and then continue southerly along a line 14.5' east of and parallel to the proposed westerly right-of-way of Wisconn Valley Way to beyond the project limits. RWWC will construct this water main between May 1 and August 31, 2019.
- A new water main beginning at a tee at Station 157+26, 164'RT and running easterly, crossing Wisconn Valley Way at Station 605+15 and continuing easterly to Station 158+97, 164'RT. From there it will run northeasterly to Station 159+70, 97'RT where it will turn and run easterly along a line 16' north of and parallel to the proposed southerly right-of-way to beyond the project limits. RWWC will construct this water main between June 1 and September 1, 2019.

During construction, RWWC will install hydrants and valve boxes upon completion of final grading above the main. Four hydrants and four valve boxes will be installed throughout the project limits. Allow 30 days for installation of hydrants and valve boxes along STH 11.

Contact Brennen Fischer, (262) 953-3054 office / (262) 347-6753 cell, of Ruekert-Mielke 7 days in advance to coordinate locations and any excavation near their facilities and 21 days in advance to coordinate installation of hydrants and valves.

We Energies – Gas has an existing underground gas line within the project limits beginning beyond the westerly project limits and running easterly along a line 8' north of and parallel to the proposed southerly STH 11 right-of-way to Station 150+00, 143'RT where it turns and runs northeasterly to Station 151+65, 113'RT. From there the line continues easterly along a line 8' north of and parallel to the proposed southerly STH 11 right-of-way, crossing Wisconn Valley Way at Station 605+74, and continuing easterly to Station 159+01, 104'RT where it turns and runs northerly to Station 159+01, 73'RT. From there the line runs easterly along a line 5' feet northerly of and parallel to the existing southerly STH 11 right-of-way to beyond the project limits. Prior to construction, We Energies will relocate and discontinue in place portions of this line east of Station 159+01 as noted below.

Prior to and during construction, We Energies will construct new gas facilities in the following locations:

- A new underground gas line beginning at Station 159+01, 104'RT and running easterly along a line 8' feet northerly of and parallel to the proposed southerly STH 11 right-of-way to beyond the project limits. We Energies will construct this gas line between May 1st and August 31st, 2019.
- A new underground gas line beginning at Station 157+20, 104'RT and running southerly along a line 8' feet easterly of and parallel to the proposed westerly Wisconn Valley Way right-of-way to beyond the project limits. We Energies will construct this gas line between May 1 and August 31, 2019.

We Energies also has discontinued underground gas facilities within the project limits in the following locations:

- A discontinued underground gas line beginning beyond the westerly project limits and running northeasterly to Station 152+92, 5'LT where it turns and runs northeasterly along a line approximately 13' north of and parallel to the STH 11 reference line to beyond the project limits.
- A discontinued underground gas line beginning beyond the westerly project limits and running easterly along a line 5' feet northerly of and parallel to the existing southerly STH 11 right-of-way, crossing Wisconn Valley Way at Station 606+05, and continuing easterly and ending at Station 159+01, 73'RT.

Contact Dan Toomey, (414) 944-5695, of We Energies 7 days in advance to coordinate locations and any excavation near their facilities.

WisDOT has no existing lighting facilities within the project limits. Prior to construction, as part of Project 2704-00-76, WisDOT will construct new underground lighting conduit beginning beyond the southerly project limits and running northerly and ending at Station 158+01, 150'RT.

Contact Eric Perea, (414) 750-0935, 7 days in advance to coordinate locations and any excavation near their facilities.

WisDOT has no existing traffic management and communications facilities within the project limits. Prior to construction, as part of Project 2704-00-76, WisDOT will construct new underground communications conduit beginning beyond the southerly project limits and running northerly and ending at Station 158+88, 151'RT.

Contact Jeff Madson, (414) 225-3723, of WisDOT 7 days in advance to coordinate locations and any excavation near their facilities.

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AT&T Wisconsin has existing overhead and underground communications facilities within the project limits in the following locations:

- An existing overhead communications line beginning beyond the westerly project limits and running easterly along the southerly 58th Road right-of-way and ending at a pole at Station 189+43, 108'LT. This line will remain in place without adjustment.
- An existing underground communications line beginning at a pole at Station 189+43, 108'LT and running southerly to Station 189+43, 99'LT where it turns and runs northeasterly along the existing northerly STH 11 right-of-way and ends at a pole at Station 193+16, 124'LT. This line will remain in place without adjustment.
- An existing overhead communications line on We Energies' poles beginning beyond the westerly project limits and running easterly to a pole at Station 193+16, 124'LT and then continuing easterly to a pole at Station 195+34, 109'LT. From there the line continues easterly along a line 18' south of and parallel to the northerly STH 11 right-of-way, crossing International Drive at Station 49SDR+85, and continuing easterly to a pole at Station 211+20, 83'LT. From there the overhead line continues easterly to a pole at Station 212+95, 82'LT and then continues easterly along a line 5' south of and parallel to the northerly STH 11 right-of-way to a pole at Station 221+35, 84'LT. From there the line continues easterly to beyond the project limits. Prior to construction and upon We Energies' relocation of a pole at Station 201+24, 83'LT, AT&T will re-attach this line to the new poles. The remainder of this line will remain in place without adjustment.
- An existing underground communications line beginning at a pole at Station 195+34, 109'LT and running southerly, crossing STH 11 at Station 195+23, and continuing southerly to a pedestal at Station 195+17, 68'RT. From there the line continues southerly and ends at a pole at Station 195+16, 84'RT. Prior to construction and in conjunction with We Energies relocation of the pole at Station 195+16, 84'RT, AT&T Wisconsin will extend this line southerly from the pedestal at Station 195+17, 68'RT to beyond the project limits. The remainder of this line will remain in place without adjustment.
- An existing underground communications line beginning at a pedestal at Station 195+17, 68'RT and running westerly along the existing southerly STH 11 right-of-way to a pedestal at Station 187+50, 72'RT where it turns and runs northerly and ends at a pole at Station 187+52, 39'RT. AT&T Wisconsin will discontinue this line in place prior to construction.
- An existing underground communications line beginning at a pole at Station 211+20, 83'LT and running southerly, crossing STH 11 at Station 211+22, and continuing southerly and ending at a pedestal at Station 211+22, 53'RT. AT&T Wisconsin will discontinue this line in place prior to construction.
- An existing underground communications line beginning at a pole at Station 212+95, 82'LT and running easterly along the northerly STH 11 right-of-way and ending at a pole at Station 229+74, 82'LT. This line will remain in place without adjustment.
- An existing underground communications line beginning at a pole at Station 212+95, 82'LT and running easterly along a line 5' south of and parallel to the northerly STH 11 right-of-way and ending at a pole at Station 229+74, 82'LT. This line will remain in place without adjustment.
- An existing underground communications line beginning at a pole at Station 221+35, 84'LT and running southerly, crossing STH 11 at Station 221+30, and continuing southerly to Station 221+21, 42'RT. From there it continues southerly to beyond the project limits. AT&T Wisconsin will discontinue this line in place prior to construction.

AT&T Wisconsin also has a discontinued underground communications line beginning beyond the westerly project limits and running easterly along the northerly STH 11 right-of-way and ending at Station 189+43, 99'LT.

Contact Jeff Oldenburg, (262) 896-7522, of AT&T Wisconsin 7 days in advance to coordinate locations and any excavation near their facilities.

Charter Communications has existing underground and overhead communications facilities within the project limits in the following locations:

- An existing overhead communications line on We Energies' poles beginning beyond the westerly project limits and running easterly along the northerly 58th Road right-of-way to a pole at Station 195+34, 109'LT. From there the line continues easterly along a line 18' south of and parallel to the northerly STH 11 right-of-way, crossing International Drive at Station 49SDR+85, and continuing easterly to a pole at Station 211+20, 83'LT. From there the overhead line continues easterly and ends at a pole at Station 212+95, 82'LT. Prior to construction and upon We Energies' relocation of a pole at Station 201+24, 83'LT, Charter Communications will re-attach this line to the new poles. The remainder of this line will remain in place without adjustment.
- An existing overhead communications line on We Energies' poles beginning at a pole at Station 195+34, 109'LT and running southerly, crossing STH 11 at Station 195+23, and continuing southerly and ending at a pole at Station 195+16, 84'RT. Prior to construction and in conjunction with We Energies relocation of the pole at Station 195+16, 84'RT, Charter Communications will extend this line southerly to beyond the project limits.
- An existing overhead communications line on We Energies' poles beginning at a pole at Station 211+20, 83'LT and running southerly, crossing STH 11 at Station 211+22, and continuing southerly and ending at a pole at Station 211+24, 52'RT. Charter Communications will remove this overhead line prior to construction.
- An existing underground communication line beginning at a pole at Station 212+95, 82'LT and running easterly along a line 6' north of and parallel to the northerly STH 11 right-of-way and ending at a pole at Station 223+21, 84'LT. This line will remain in place without adjustment.
- An existing underground communication line beginning at a pole at Station 212+95, 82'LT and running easterly along a line 8' south of and parallel to the northerly STH 11 right-of-way and ending at a pole at Station 223+21, 84'LT. This line will remain in place without adjustment.
- An existing overhead communications line on We Energies' poles beginning at a pole at Station 223+21, 84'LT and running easterly along the northerly STH 11 right-of-way to beyond the project limits. This line will remain in place without adjustment.

Contact Pete Kruzela, (414) 908-1339 office / (414) 688-5376 cell, of Charter Communications 7 days in advance to coordinate locations and any excavation near their facilities.

Mount Pleasant, Village of – Sanitary has no existing sanitary sewer facilities within the project limits.

Prior to and during construction, the Village of Mount Pleasant will construct a new sanitary sewer main beginning at a manhole at Station 201+76, 175'RT and running easterly along a line 40' south of and parallel to the proposed southerly STH 11 right-of-way to a manhole at Station 226+24, 175'RT where it turns and runs southerly to beyond the project limits. The Village of Mount Pleasant will construct this sewer between April 1 and December 31, 2019.

Contact Anthony Beyer, (414) 459-3554, of Village of Mount Pleasant - Sanitary 7 days in advance to coordinate locations and any excavation near their facilities.

Racine Water Works Commission (RWWC) has an existing water main within the project limits in the following locations:

- An existing water main beginning at Station 226+59, 70'LT and running easterly along a line 15' south of and parallel to the northerly STH 11 right-of-way to beyond the easterly project limits. RWWC will construct new water main as noted below prior to and during construction. The existing main will be discontinued in place.
- An existing water main beginning at the proposed southerly STH 11 right-of-way at Station 200+47, 133'RT and running northerly to a cross at Station 200+47, 100'RT and then continuing northerly, crossing STH 11 at Station 200+48, and continuing northerly along a line 70.5' east of and parallel to the proposed westerly right-of-way of International Drive to beyond the project limits.

Prior to and during construction, RWWC will construct new water facilities in the following locations:

- A new water main beginning beyond the westerly project limits and running easterly along a line 16' north of and parallel to the proposed southerly STH 11 right-of-way to Station 194+11, 87'RT where it will turn and continue easterly to Station 194+89, 98'RT. From there it will continue easterly to Station 198+55, 109'RT where it will turn and run northeasterly to Station 198+91, 98'RT. From there it will run easterly to Station 202+08, 100'RT where it will turn and run northeasterly to Station 202+59, 81'RT and then turn and run easterly along a line 54' north of and parallel to the proposed southerly STH 11 right-of-way to Station 226+10, 80'RT. From there it will turn and run southeasterly to Station 226+60, 89'RT where it will turn and run easterly to Station 229+89, 84'RT and then run southeasterly to Station 230+78, 124'RT. From there it will run easterly along a line 16' feet northerly of and parallel to the proposed southerly STH 11 right-of-way to beyond the project limits. RWWC will construct this water main between June 1 and September 1, 2019.

During construction, RWWC will install hydrants and valve boxes upon completion of final grading above the main. Nine hydrants and seventeen valve boxes will be installed throughout the project limits. Allow 30 days for installation of hydrants and valve boxes along STH 11.

Contact Brennen Fischer, (262) 953-3054 office / (262) 347-6753 cell, of Ruekert-Mielke 7 days in advance to coordinate locations and any excavation near their facilities and 21 days in advance to coordinate installation of hydrants and valves.

Sturtevant, Village of – Sanitary has an existing sanitary sewer line within the project limits beginning at a manhole at Station 213+44, 98'LT and running easterly to a manhole at Station 214+67, 98'LT and then continuing easterly to a manhole at Station 216+28, 106'LT. From there it runs easterly along a line 18' north and parallel to the northerly STH 11 right-of-way to a manhole at Station 226+67, 106'LT where it turns and runs southerly to a manhole at Station 226+67, 25'RT. From there runs easterly along the existing median of STH 11 to beyond the easterly project limits. This line will remain in place without adjustment. Adjust and reconstruct sanitary manholes as shown in the plans.

Contact Jeff Seitz, (414) 459-3554, of Village of Sturtevant - Sanitary 7 days in advance to coordinate locations and any excavation near their facilities.

We Energies – Electric has existing overhead electric facilities within the project limits in the following locations:

- An existing overhead electric line beginning beyond the westerly project limits and running easterly along the northerly 58th Road right-of-way to a pole at Station 187+61, 198'LT and then continuing easterly to a pole at Station 195+34, 109'LT. From there the line continues easterly along a line 18' south of and parallel to the northerly STH 11 right-of-way, crossing International Drive at Station 49SDR+85, and continuing easterly to a pole at Station 211+20, 83'LT. From there the overhead line continues easterly to a pole at Station 221+35, 84'LT and then continues easterly along the northerly STH 11 right-of-way to beyond the project limits. Prior to construction, We Energies will relocate the pole at Station 201+24, 83'LT and construct two new poles at Station 199+51, 87'LT and Station 202+55, 82'LT. The remainder of this line will remain in place without adjustment.
- An existing overhead electric line beginning at a pole at Station 187+61, 198'LT and running southerly, crossing STH 11 at Station 187+53, and continuing southerly to a pole at Station 187+52, 39'RT. From there the line runs southeasterly and ends at a pole at Station 187+59, 137'RT. We Energies will remove this line prior to construction.
- An existing overhead electric line beginning at a pole at Station 195+34, 109'LT and running southerly, crossing STH 11 at Station 195+23, and continuing southerly and ending at a pole at Station 195+16, 84'RT. Prior to construction, We Energies will relocate the pole at Station 195+16, 84'RT and extend this line southerly to beyond the project limits.
- An existing overhead electric line beginning at a pole at Station 211+20, 83'LT and running southerly, crossing STH 11 at Station 211+22, and continuing southerly and ending at a pole at Station 211+24, 52'RT. We Energies will remove this overhead line prior to construction.
- An existing overhead electric line beginning at a pole at Station 221+35, 84'LT and running southwesterly, crossing STH 11 at Station 221+23, and continuing southwesterly to a pole at Station 221+12, 77'RT where it turns and runs southerly to beyond the project limits. We Energies will remove this overhead line prior to construction.

Contact Dan Toomey, (414) 944-5695, of We Energies 7 days in advance to coordinate locations and any excavation near their facilities.

We Energies – Gas has existing gas facilities within the project limits in the following locations:

- An existing underground gas line beginning beyond the westerly project limits and running easterly along a line 5' north of and parallel to the existing southerly STH 11 right-of-way to Station 209+55, 73'RT where it turns and runs northeasterly to Station 209+89, 39'RT. From there the line runs easterly to Station 211+44, 38'RT where it turns and runs southeasterly to Station 211+78, 73'RT. From there the line runs easterly along a line 5' feet northerly of and parallel to the existing southerly STH 11 right-of-way to beyond the project limits. We Energies will relocate this line as noted below. The existing line will be discontinued in place.
- An existing gas line beginning at Station 214+02, 75'LT and running easterly along a line 12' south of and parallel to the northerly STH 11 right-of-way to beyond the easterly project limits. We Energies will relocate this line as noted below. The existing line will remain in place from Station 214+02, 75'LT to 232+00, 67'LT.

Prior to and during construction, We Energies will construct new gas main facilities in the following locations:

- A new underground gas line beginning beyond the westerly project limits and running easterly along a line 8' feet northerly of and parallel to the proposed southerly STH 11 right-of-way to Station 202+49, 127'RT where it will turn and run northeasterly to Station 202+88, 88'RT. From there the line will run easterly along a line 47' north of and parallel to the proposed southerly STH 11 right-of-way to Station 224+27, 88'RT where it jogs east-southeasterly to Station 226+63, 97'RT. From there the line will run easterly along a line 38' north of and parallel to the proposed southerly STH 11 right-of-way to Station 229+90, 99'RT where it will turn and run southeasterly to Station 230+18, 130'RT where it will turn and run easterly along a line 8' feet northerly of and parallel to the proposed southerly STH 11 right-of-way to beyond the project limits. We Energies will construct this gas line between May 1 and August 31, 2019.
- A new underground gas line tying into the existing main and beginning at Station 232+00, 67'LT and running easterly along a line 6' south of and parallel to the northerly STH 11 right-of-way to beyond the project limits. We Energies will construct this gas line between May 1 and August 31, 2019.

We Energies also has a discontinued underground gas line within the project limits beginning beyond the westerly project limits and running easterly along a line approximately 13' north of and parallel to the STH 11 reference line to Station 183+24, 16'LT where it turns and runs northeasterly to Station 186+15, 24'LT. From there it runs easterly along a line approximately 26' north of and parallel to the STH 11 reference line to Station 195+53, 28'LT where it continues easterly along a line approximately 18' north of and parallel to the STH 11 reference line to beyond the project limits.

Contact Dan Toomey, (414) 944-5695, of We Energies 7 days in advance to coordinate locations and any excavation near their facilities.

13. Other Contracts.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with adjacent work by others.

It is expected that routine maintenance by the city and county personnel may be required at certain times concurrently with the work being done under this contract.

The following contracts are anticipated to be under construction within the time period of this contract, unless otherwise indicated:

2018 -2019

IH 94 N-S Freeway Mainline Construction STH 20 to CTH G Contract:

ID 1030-11-72, CTH K Mainline and Ramps

ID 1030-11-79, STH 20 to CTH K Mainline (North)

ID 1030-11-80, STH 20 to CTH K Mainline (South)

ID 1030-25-79, CTH K to CTH G Mainline

ID 1030-23-72, IH 94 N-S Freeway, CTH E Interchange Mainline/Ramps,

ID1030-23-79, IH 94 N-S Freeway, STH 142 to CTH E Mainline,

ID 1030-24-71, IH 94 N-S Freeway, STH 11 Interchange, STH 11 Eastbound and Westbound,

ID 1030-24-72, IH 94 N-S Freeway, STH 11 Interchange, Mainline and Ramps,

ID 1030-24-79, IH 94 N-S Freeway, CTH KR to STH 11, Mainline,

ID 1033-02-79, IH 94 N-S Freeway, STH 11 to STH 20, Mainline,

ID 1035-03-71, IH 94 N-S Freeway, CTH KR Interchange Crossroad,

ID 1035-03-72, IH 94 N-S Freeway, CTH KR Interchange Mainline and Ramps,

ID 1035-03-79, IH 94 N-S Freeway, CTH E to CTH KR Mainline,

2018 - 2020

IH 94 N-S Freeway Mainline construction CTH G to College Ave Contract:

ID 1035-01-79, IH 94 N-S Freeway, CTH G to 7 Mile Road

ID 1035-01-72, IH 94 N-S Freeway, 7 Mile Road Interchange, 7 Mile Road

ID 1035-01-74, IH 94 N-S Freeway, 7 Mile Road Interchange, Mainline and Ramps

ID 1035-01-82, IH 94 N-S Freeway, 7 Mile Road to Milwaukee County Line

ID 1030-20-87, IH 94 N-S Freeway, County Line to Oakwood Rd, Elm Rd Interchange

ID 1030-20-84, IH 94 N-S Freeway, Oakwood Rd to College Ave

2018-2021

Development Roads

ID 1320-23-71, STH 11, CTH H intersection (2019-2020)

ID 1320-23-72, STH 11, 56th Road to WFR (2021)

ID 2704-00-78 Wisconn Valley Way Box Culvert (Sept 2018 Sept -January 2019)

ID 2704-00-77, Wisconn Valley Way/CTH KR intersection (2018-2019)

ID 2704-00-76, Wisconn Valley Way, CTH KR to STH 11 (2018-2019)

ID 2704-00-75, International Drive, STH 11 to STH 20 (2018 - 2019)

ID 2704-09-70, Braun Road, EFR to CTH H (2018 - 2019)

ID 2704-09-71, Braun Road, CTH H to 90th Street (2021)

ID 3763-00-75 CTH KR, Kilbourn Road Box Culvert (Sept 2018 Sept -January 2019)

ID 3763-00-73, CTH KR, EFR to CTH (2018-2019)

ID 3763-00-74, CTH KR, CTH H to Old Green Bay Road (2021-2022)

ID 3760-00-70, CTH H, CTH KR to Braun Road (2019-2020
ID 3760-00-71, CTH H, Braun Road to STH 11 (2019-2020)

ID 2704-00-79, Development Roads Shared Use Paths (2020)

ID 2704-00-80, Development Roads Landscaping (2020)
ID 2704-00-81, Development Roads Continuous Above Ground Lighting (2020)

ID 3760-00-70, CTH H, CTH KR to Braun Road (2019)

14. Railroad Insurance and Coordination - Soo Line Railroad Company (CP).

A Description

Comply with standard spec 107.17 for all work affecting Soo Line Railroad Company (CP) property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Soo Line Railroad Company d/b/a Canadian Pacific.

Notify evidence of the required coverage, and duration to Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail: jim_krieger@cpr.ca.

Also send a copy to the following: Paul Derksen, SE Region Railroad Coordinator; 141 N. W. Barstow Street, Waukesha, WI 53188; Telephone (262) 548-8770; E-mail: paul.derksen@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 1320-23-70 and 1320-23-73
- Project Location: Mount Pleasant WI
- Route Name: International Drive and STH 11, Racine County
- Crossing ID: n/a
- Railroad Subdivision: Waxdale Spur
- Railroad Milepost: 8.6
- Work Performed: New intersection to be constructed.

A.2 Train Operation

No freight trains operate on the CP Right-of-Way.

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

Construction Contact

Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail jim_krieger@cpr.ca for consultation on railroad requirements during construction.

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

Cable Locate Contact

In addition to contacting Diggers Hotline, contact CP Call Before You Dig line at (866) 291-0741, five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Soo Line (CP) will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

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

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Steve Hoff at (262) 548-6718. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

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

The department is obtaining 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 application is available from the regional office by contacting Dobra Payant at (414) 750-2677. Do not being any work activities in affected wetlands prior to 404 permit being obtained. See article *Prosecution and Progress* for anticipated date.

17. Environmental Protection, Aquatic Invasive Species Control.

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels prior to being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection_protocols.pdf for disinfection:

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

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

18. Erosion Control

Add the following to standard spec 107.20:

Erosion control best management practices (BMP's) the plans show are at suggested locations. The actual locations shall be determined by the contractor's ECIP and by the engineer. Include each dewatering (mechanical pumping) operation in the ECIP submittal. The ECIP shall supplement information the plans show and not reproduce it. The ECIP shall identify how to implement the project's erosion control plan. ECIP shall demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-application of top soil to minimize the exposure to possible erosion.

Additional devices may be needed based on sequence of operations and field conditions. A ‘staged’ ECIP may be required for this project, as new areas are disturbed. Each new ‘stage’ of the ECIP needs to be submitted to the project staff and the WDNR liaison for review as an amendment to the ECIP with a standard 14-day review period. Work should not commence in new areas until the project staff and WDNR has reviewed and concurred with the corresponding ECIP amendment.

Provide the ECIP 14 days before the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaisons Kristina Betzold, (414) 263-8517, Kristina.betzold@wisconsin.gov, and Craig Webster, (262) 574-2141, craig.webster@wisconsin.gov. Do not implement the ECIP until department approval, and perform all work conforming to the approved ECIP.

Maintain Erosion Control BMP's until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Install perimeter silt fence protection around stockpiles within a timeframe acceptable to the engineer. If stockpiled materials will be left for more than 14 days, install temporary seed and mulch or other temporary erosion control measures the engineer orders. Show the proposed stockpile locations in the ECIP.

Re-apply topsoil on graded areas, as designated by the engineer, within a timeframe acceptable to the engineer after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 days after placement of topsoil. If graded areas are left not completed and exposed for more than 14 days, seed those areas with temporary seed and mulch.

Do not allow excavation for; structures, utilities, grading, maintaining drainage that requires dewatering(mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Before each dewatering operation, submit to the department a separate ECIP amendment describing in words and pictorial format an appropriate BMP for sediment removal, conforming to WisDNR Storm Water Construction Technical Standard, Code 1061, Dewatering. Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection. Do not house any dewatering technique in a wetland or floodplain.

All dewatering, including treatment to remove suspended solids, not covered under bid items is incidental to the contract.

The project team may identify ‘sensitive’ areas in the field that require additional temporary stabilization to protect resources from being contaminated by sediment-laden water discharging from the work site. Any ‘release’ of sediment-laden water from the work site that enters a wetland or waterway should be reported to the WDNR liaison within 24 hours.

The contractor shall restrict the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restoration of disturbed soils should take place as soon as conditions permit. If sufficient vegetative cover will not be achieved because of late season construction, the site must be properly winterized. A plan for ‘over-wintering’ the project or a specific project area should be compiled and submitted to the project staff and WDNR for review in an amendment to the ECIP.

The DOT Select Site process must be adhered to for clean fill or any other material that leaves the work site. The project staff and the WDNR liaison will review all proposed select sites and a site visit may be required. Filling of wetlands, waterways or floodplain is not allowed under the select site process, unless the site owner has proof of required local/state/federal permits. No new impermeable surfaces can be left at a select site (including gravel roads or pads), unless the site owner attains required permits. Contaminated materials leaving the site need to adhere to the Hazardous Material Management Plan.

Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at 1 (800) 943-0003.

Construction of structures over navigable waterways shall be completed as quickly as possible in order to minimize disruption. Construction shall minimize the removal of shoreline vegetation below the ordinary high water mark (OHWM), unless otherwise directed by the WDNR Transportation Liaison. Construction equipment should not operate on the bed of the stream or below the OHWM, except for that which is necessary for the placement of the structure. The contractor must provide a means of separating the live flow channel of the waterway from disturbed areas (cofferdam, turbidity barrier, etc.). Any plan for diverting the flow of a navigable waterway (listed under Fish Spawning provision) needs to be submitted, reviewed and approved by the project staff and the WDNR liaison according to the article Temporary Water Diversion Culvert B-51-160.

If erosion mat is used along stream banks, DNR recommends that biodegradable non-netted mat be used (e.g. Class I Type A Urban, Class I Type B Urban, or Class II Type C). Long-term netted mats may cause animals to become entrapped while moving in and out of the stream. Avoid the use of fine mesh matting that is tied or bonded at the mesh intersection such that the openings in the mesh are fixed in size.

When performing concrete or asphalt sawcutting operations, the slurry shall be squeegeed off to the shoulder gravel or shoveled into the gravel behind curbs and not allowed into storm sewers, ditches, waterways or wetlands.

19. Dust Control Implementation Plan.

A Description

This special provision describes developing, updating, and implementing a detailed Dust Control Implementation Plan (DCIP) for all land-disturbing construction activities and associated impacts both within the project site boundaries and outside the project site boundaries. Incorporate contract bid items that this article specifies into the DCIP.

B (Vacant)

C Construction

C.1 General

Control dust on the project as specified in standard spec 107.18. Minimize dust emissions resulting from land disturbing activities. Do not generate excessive air borne particulate matter (PM) or nuisance dust conditions. Control dust at all times during the contract.

Submit a DCIP to the engineer and WDNR Liaison for review at least 14 calendar days before the preconstruction conference. Coordinate with the department, if requested, to resolve DCIP related issues before the preconstruction conference. The department will either approve the DCIP or request revisions. Do not initiate land-disturbing activities without the department's approval of the DCIP.

C.2 DCIP Contents

Develop a DCIP tailored to the specific needs of the project. Consider potential impacts to businesses and residences adjacent to the job site. Describe in detail all land disturbing, dust generating activities. Identify strategies to prevent, mitigate, and collect excess dust. Establish clear lines of communication with the engineer to ensure that all dust control issues can be dealt with promptly.

Include all of the following:

- A single contact person with overall responsibility for the DCIP development as well as surveillance and remediation of job related dust. Provide:
  - Name, firm, address, and working-hours phone number.
  - Non-working-hours phone number.
  - Email address.

- A site map locating project features, the job site boundaries, all ingress and egress points, air intakes and other dust-sensitive areas, and all public and private paved surfaces within and adjacent to the job site. Show where specific land disturbing, dust generating activities will occur and, to the extent possible, where employing various dust control or prevention strategies.

- A matrix, or plan, for each anticipated land disturbing, dust generating activity, showing the following:
  - Preventive measures that shall be employed.
  - The applicable contact person.
  - The contractor's timetable and surveillance measures used to determine when remediation is required.
  - The specific dust control and remediation measures that shall be employed. Identify the specific contract bid items that shall be used for payment. Indicate costs and practices that are incidental to the contract.
  - Both maintenance and cleanup schedules and procedures.
  - Excess and waste materials disposal strategy.

- A description of monitoring and resolving off-site impacts.

C.3 Updating the DCIP

Update the DCIP during the contract or as the engineer directs. Obtain the engineer's approval for all DCIP alterations. Also obtain the engineer's approval for routine DCIP adjustments for weather, job conditions, or emergencies that will have an impact on payment under the bid items listed in the approved DCIP.

C.4 Dust Control Deficiencies

Coordinate with engineer to determine deadlines for resolving dust control deficiencies. Deficiencies include actions or lack of actions resulting in excessive dust, non-compliance with the contractor's DCIP or associated special provisions, and not properly maintaining equipment.

D Measurement

The department will measure the various bid items associated with dust control as specified in the applicable measurement subsections of either the standard specs or other contract special provisions. The department will not measure work performed under a DCIP alteration unless the engineer specifically approves that alteration.

Measurement under the DCIP includes the contract bid items listed in this special provision:

623.0200	Dust Control Surface Treatment
624.0100	Water
628.7560	Tracking Pads
SPV.0075.001	Pavement Cleanup Project 1320-23-70
SPV.0075.002	Pavement Cleanup Project 1320-23-73

The department will measure work completed under other existing contract bid items if approved as a part of the DCIP. The department will consider new bid items to the contract if proposed under the DCIP. The department will not measure work required under the DCIP that is not included in contract bid items.

E Payment

All costs associated with the development and updating of the DCIP are incidental to the contract. The department will pay separately for the work required to implement the actions approved in the DCIP under the contract bid items approved as a part of the DCIP. All other costs associated with work approved under the DCIP are incidental to the contract.

sef-107-005 (20170323)

20. Project Site Air Quality.

Because fine particulate matter levels for Racine County are typically close to $PM_{2.5}$ limits and the project is in a non-attainment area for the federal 8-hour ozone standard, contributions from construction activities can have a major impact well beyond the project limits. Take practical measures to mitigate the impact of operating construction equipment on the air quality in and around the project site.

Voluntarily establishing the staging zones for trucks waiting to load and unload is encouraged by the department. Locate staging zones where idling of diesel powered equipment will have minimal impact on abutting properties and the general public. The department will make signs available to help identify these zones. Have truckers queue up in these zones whenever it is practical. The department further encourages drivers to shut down diesel trucks as soon as it appears likely that they will be queued up for more than 10 minutes. Notify employees and sub-contractors about fueling and engine idling.

Portable Concrete Crusher Plants

Portable concrete crusher plants need a NR 440 Concrete Crusher Plant Air Permit for air emissions. Please contact Wisconsin Department of Natural Resources to request additional information and permit application materials. Complete permit applications may take 3 months to process.

sef-999-039 (20160929)

21. Maintaining Drainage.

Maintain drainage at and through worksite during construction conforming to standard spec 107.22, 204, 205 and 520.

Use existing storm sewers, existing culvert pipes, existing drainage channels, temporary culvert pipes, or temporary drainage channels to maintain existing surface and pipe drainage. Pumps may be required to drain the surface, pipe, and structure discharges during construction. Costs for furnishing, operating, and maintaining the pumps is considered incidental to the project.

Dewatering (Mechanical Pumping) for Bypass Water (sediment-free) Operations

If dewatering bypass operations are required from one pipe structure to another downstream pipe structure or from the upstream to downstream end of a culvert and the bypass flow is not transporting sediments (sand, silt, and clay particles) from a tributary work site area, bypass pumping operations will be allowed provided that the department has been made aware of and approves operation. When pumping bypass flows, the discharge location will need to be stable and not produce erosion from the discharge velocity that would cause release of sediment downstream.

Dewatering (Mechanical Pumping) for treatment Water (sediment-laden) Operations

If dewatering operations require pumping of water containing sediments (sand, silt, and clay particles), the discharge will not be allowed to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Refer to article Erosion Control in these special provisions for additional requirements.

sef-107-016 (20170310)

22. Hauling Restrictions.

Replace standard spec 107.2 with the following:

Prior to hauling any materials to or from the project, all trucking providers will be required to attend a mandatory pre-haul conference. The purpose of the pre-haul conference is to discuss specific project hauling requirements, placard implementation, weekly haul forecasting and reporting, and the processes required to secure approvals for any hauling routes not shown in the plan. Attendance of this conference is considered incidental to the work. Any trucking provider not attending the pre-haul conference will not be allowed to haul for the project.

The department will provide placards at the pre-haul conference for all trucks hauling materials to and from the project. These placards must be displayed on the dash when actively hauling for the project. Additional placards can be picked up at the Development Roads field office. Obtaining, distributing, and placement of the placards as well as implementation of the placard system is considered incidental to the work.

Provide a forecast of the following week's hauling activities by 10:00 AM each Wednesday. The hauling forecast shall include the following information for each individual haul route for each day's hauling activities: the number of trucks hauling, the number of overall truck trips, the hours in operation, and the type of material being hauled. The haul route includes all roadways utilized between the material source/waste site and the project. The hauling forecast shall not combine haul routes. The department will provide a spreadsheet format for use in forecast reporting. The weekly hauling forecast and reporting is considered incidental to the work.

Approved local street haul routes are shown in the plan.

If additional haul routes are needed that are not shown in the plan, or part of the state trunk highway system, submit a New Haul Route Request Form detailing any additional haul routes three business days in advance of any proposed hauling to the department. Include the months, days of the week, time of day, number of trucks, types of trucks and maximum loads of trucks anticipated to accomplish the project work. The New Haul Route Request Form can be found on the department's 511 website at the address listed below.

https://projects.511wi.gov/fdr/trucking/

The department will review the request and either approve or provide a letter with comments and proposed revisions to the contractor within three business days of its receipt. If approved, the department will subsequently survey the existing condition of that haul route to establish a baseline for assessing damage that the contractor's hauling operations might cause.

At all times, conduct operations in a manner that will cause a minimum of disruption to traffic on existing roads.

23. Public Involvement Meetings.

Participate in department-sponsored public involvement meetings as the engineer requests. Ensure that representatives of subcontractors also participate in those meetings if the engineer requests.

sef-999-040 (20160915)

24. Program Partnering Meetings Monthly.

The department will implement mandatory monthly program partnering meetings involving various stakeholders in and around the Foxconn development site corridor. The meetings will involve leadership staff from the following entities: contractor, department, adjacent site development, utilities, local officials, and adjacent department contracts. The meetings will occur monthly from project start until the contractor accepts the tentative final estimate. The department may invite other attendees if deemed appropriate.

This meeting is intended to facilitate cooperation and coordination of construction activities within and surrounding the Wisconn development site corridor. Meeting topics may include:

- Schedule updates
- Hauling coordination
- Site development access
- Public/private project interface issues
- Utility progress
- Safety
- Local official concerns
- Public outreach
- Traffic management

All costs are incidental to contract work.

25. Partnering Meetings Monthly.

A Description

The department will implement mandatory monthly leadership partnering meetings. Unless the department and contractor agree otherwise, the contractor, project design engineers, and department field personal shall meet monthly from project start until the contractor accepts the tentative final estimate. The contractor and department field personal may mutually agree to invite other attendees.

This meeting is intended to facilitate a cooperative team environment that defines roles and responsibilities, determines common goals and objectives, and provides a platform to build trust and accountability. Meeting topics may include:

- Issue and risk management
- Dispute resolution procedures
- Safety
- Public outreach
- Traffic management
- Cost reducing incentives
- Claim resolution
- Scheduling issues
- Quality control

All costs are incidental to the contract work.

sef-108-040 (20171004)

26. Notice to Contractor – Personnel Identification Program.

All contractor personnel will be required to register in the program prior to performing work. Valid photo identification which includes unexpired driver's license, government issued identification cards, military identification, passport, or other identification approved by the department will be required to register. All personnel registered will be issued a hard sticker with an identification number by the department. Stickers shall be placed in a visible location on the hard hat.

Noncompliance with this contract provision may result in removal of contractor personnel from the project or suspension of work according to standard spec 108.6.

27. Notice to Contractor – Media Relations.

a) The contractor shall not disseminate or publicize this Agreement, information relating to this Agreement, their work responsibilities, or generally comment about the entire project without prior written consent from one of the department's designated Project Communications Leaders listed under Section (d).
b) The contractor shall refer all information requests or interview requests made by external parties, including media sources, to all of the department's designated Project Communications Leaders listed under Section (d).
c) The contractor agrees to coordinate with the department as to the form, content and timing of any public announcement of this Agreement.
d) The Project Communications Leaders for the department shall be:

    i. The department's project manager

    ii. Becky Kikkert
    4802 Sheboygan Avenue
    Madison, WI 53705
    Phone: (608) 266-3581
    Email: rebecca.kikkert@dot.wi.gov

iii. Michael Pyritz
141 NW Barstow Street
P.O. Box 798
Waukesha, WI 53188
Phone: (262) 521-5373
Email: michael.pyritz@dot.wi.gov

e) Noncompliance with this contract provision may result in removal of contractor personnel from the project or suspension of work according to standard spec 108.6.
f) Notwithstanding anything to the contrary contained herein, no provision of this Agreement shall be interpreted to impede the contractor, or any individual, from reporting possible violations of state or federal law to any governmental agency or entity, or from making other disclosures under the whistleblower provisions of state or federal law. The contractor does not need the prior authorization of the department to make any such reports or disclosures and the contractor shall not be required to notify the department that such reports or disclosures have been made.

28. Notice to Contractor- Safety

All workers shall wear OSHA and ANSI compliant safety head protection, safety glasses, safety-toe protective footwear, and safety vest at all times while within the project footprint.

The contractor and respective subcontractors shall provide a copy of their current Company Safety Plans to the department at the preconstruction meeting. All workers shall comply with the Safety Plans of their employer.

Noncompliance with this contract provision may result in removal of contractor personnel from the project or suspension of work according to standard spec 108.6.

29. Notice to Contractor – Great Lakes Compact.

This project is near, or may cross, the Subcontinental Divide which is the watershed boundary of the Great Lakes basin and the Mississippi River basin. The Great Lakes Compact and Wisconsin State Statutes regulate water use in the Great Lakes basin and ban diversion of Great Lakes water, with limited exceptions. Source water obtained from the Mississippi River basin may be released on portions of the project located within the Mississippi River basin or the Great Lakes Basin. Source water obtained from the Great Lakes basin may only be released within the Great Lakes basin. Submit all water sources and plans for use to the department for review and approval prior to use on the project. Source water permanently incorporated into a product (e.g., concrete masonry) is exempt from the requirements of this special provision if the product is made within the Great Lakes basin.

30. Notice to Contractor – Airport Operating Restrictions.

The Federal Aviation Administration (FAA) has height restrictions surrounding select airports. The department is obtaining Temporary Determination of No Hazard to Air Navigation for all temporary structure (i.e. crane) erections associated with bridge and retaining wall construction for the project. These Determinations are anticipated to be received by September 30, 2018. Once received, copies of the Determinations can be obtained through the engineer.

The Determinations are anticipated to include conditions such as red obstruction lights and orange/white checkered flags on cranes, as well as lowering the cranes to the ground when not in use and during the hours between sunset and sunrise.

Notify the manager of the applicable airport at least three business days prior to the temporary structure being erected and again when the structure is removed from the site. Contact the airport owner to disseminate a Notice to Airmen (NOTAM) when cranes are in use and construction is occurring.

Include dust control provisions near airports in the Dust Control Implementation Plan.

Any failure or malfunction that lasts more than 30 minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

Any height exceeding the above ground level (AGL) or above mean sea level (AMSL) in the Determinations will result in a substantial adverse effect and would warrant a Determination of Hazard to Air Navigation.

The Determinations will expire unless extended, revised or terminated by the issuing office. Contractor must request an extension of the effective period of the determination to be postmarked or delivered by the contractor at least 30 days prior to the expiration date to:

Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Once the Determinations are received, for questions on extensions to the effective period of the determinations, contact the FAA office at (847) 294-7575 and reference the Aeronautical Study Number.

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

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

Contractor must copy the engineer on any correspondence with the FAA as it relates to time extensions and new/revised Determinations.

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

If drainage or pond designs need to be modified in the field, contact WisDOT Bureau of Aeronautics (Levi Eastlick, Levi.Eastlick@dot.wi.gov, (608) 267-5018 or Matt Malicki, Matthew.Malicki@dot.wi.gov, (608) 267-5273) to obtain input on minimizing wildlife attractants for the modified designs.

31. Material and Equipment Staging.

Submit a map showing all proposed material stockpile or equipment storage locations to the engineer 14 days before either preconstruction or proposed use, whichever comes first. Identify the specific purposes for the location. Obtain written permits from the property owner and submit two copies to the engineer before use. Do not stockpile or store materials or equipment on wetlands.

sef-999-020 (20170310)

Material and staging areas off the project limits shall be included in the ECIP for review.

32. Contractor Notification.

Replace standard spec 104.2.2.2(2) with the following:

If the contractor discovers the differing condition, provide a written notice, as specified in standard spec 104.3.3, of the specific differing condition before further disturbing the site and before further performing the affected work.

104.3.2 (Vacant)

104.3.3 Contractor Initial Written Notice

Replace standard spec 104.3.2 and 104.3.3 with the following:

If required by standard spec 104.2, or if the contractor believes that the department’s action, the department's lack of action, or some other situation results in or necessitates a contract revision, promptly provide a written notice to the engineer. At a minimum, provide the following:

a) A written description of the nature of the issue.
b) The time and date of discovering the problem or issue.
c) If appropriate, the location of the issue.

Provide the additional information specified in standard spec 104.3.5 as early as possible to assist the engineer in the timely resolution of an identified issue. The engineer will not require, in subsequent submissions, duplication of information already provided.

sef-104-005 (20141211)

33. Contractor Document Submittals.

This special provision describes minimum requirements for submitting project documents to the department. This special provision does not apply to shop drawing submittals.

Provide one electronic copy of all documents requiring department review, acceptance, or approval. Attach a completed engineer-provided transmittal sheet to each email submittal. The department will reject submittals with incomplete transmittal sheets and require re-submittal.

The department will return one reviewed, accepted, or approved original to the contractor. Additional return originals can be requested. Submit an additional original for each additional return original requested.

Submit electronic copies in Portable Document Format (PDF) to the engineer-designated folder within the department's SharePoint site, and send alerts with a link to the document via email to (an) account(s) the engineer determines. If possible, translate original documents from their native format (e.g. Word, Excel, AutoCAD, etc.) using a Portable Document Format translation routine. Scan other documents to PDF format with a minimum resolution of 600 dpi.

All costs for contractor document submittals are incidental to the contract.

sef-105-010 (20150619)

34. Geotechnical Investigation Information.

Replace standard spec 102.5(3) 2 with the following:

Available information relative to subsurface exploration, borings, soundings, water levels, elevations or profiles are available for review at the department's Regions office. Contact Steve Hoff, 141 NW Barstow Street, Waukesha, WI 53187, (262) 548-6718.

Review the available information to determine if it is of use. The use or not of the geotechnical information does not relieve performing the work conforming to the plans and specifications.

35. CPM Progress Schedule.

Replace standard spec 108.4.4.1 with the following:

(1) Submit a CPM Progress Schedule and updates.
(2) To ensure compatibility with the Master Program Schedule, use the latest version of Primavera P6 Project Management, by Oracle Corporation, Redwood Shores, CA, to prepare the Initial CPM Progress Schedule, Monthly CPM Progress Updates and other CPM Progress Revisions requested by the engineer.
(3) Within five business days after award, the department will provide its current standard Work Breakdown Structure and activity codes to use to develop the Initial CPM Progress Schedule.
(4) Designate a Project Scheduler who will be responsible for scheduling the Work and submit a professional resume describing a minimum of three years of scheduling experience on interstate-highway reconstruction work of similar size and complexity, including recent experience with P6. Obtain approval of the submitted resume before scheduling the work.

Replace standard spec 108.4.4.4(2) with the following:

(2) For each schedule update, submit electronic copies in an approved format and updated PDF printouts of the following:

1. Tabular sorts by:
   - Activity Identification/Early Start.
   - Total Float.
2. If applicable, an updated logic diagram as the engineer requires.
3. If augmenting the CPM schedule with a linear schedule, provide an update of the linear schedule.
4. Activities underway and as-built dates for the past month.
5. Agreement on the as-built dates with the department depicted in the Monthly CPM Progress Schedule Update. Document all disagreements. Use the as-built dates from the Monthly CPM Progress Schedule Update for the month when updating the CPM schedule.
6. Actual as-built dates for completed activities through final acceptance of the project.

sef-108-010 (20171004)

36. Waste Materials

Delete paragraph 1 of standard spec 106.2.1 Waste Materials.

37. Subletting the Contract.

Replace standard spec 108.1.1 (3) with the following:

If proposing to have a party other than a subcontractor perform work, notify the engineer and submit details of this arrangement in writing. The engineer will determine if that arrangement constitutes subcontracting. Submit copies of all other agreements between any parties regarding the performance of work under the contract with the Request to Sublet.

sef-108-035 (20171004)

38. Force Account.

Supplement standard spec 109.4.5.1 (3)1 with the following:

Include accumulation of wages to date for each employee performing force account work and identify allowable Federal Unemployment Tax (FUTA) and State Unemployment Tax (SUTA) multipliers.

sef-109-005 (20141211)

39. Removing or Abandoning Miscellaneous Structures.

Replace standard spec 204.5.1(3) with the following:

When backfilling with Backfill Granular as specified in this special provision article or as directed by the engineer, the item Backfill Granular is considered incidental to the appropriate bid item.

At locations where Backfill Granular is not specified, contractor may choose to use either Backfill or Backfill Granular, and no separate payments will be made for using Backfill Granular.

Supplement standard spec 204.3.2.2 with the following:

Backfill existing storm sewer or existing storm sewer structure locations shown for removal or abandonment outside the new traveled way with native backfill immediately after completing the sewer work. Backfill according to standard spec 209 within the traveled way.

All backfill, including native material, provided for removal or abandonment of existing storm sewer structures and pipes is considered incidental to the appropriate bid item.

SEF Rev. 14_1215

40. Removing Height Modernization Geodetic Survey Monument, Item 204.9060.S.001.

A Description

This special provision describes removing Height Modernization Geodetic Survey Monuments at the locations shown in the plans and salvaging the 3.5-inch bronze disc on the monument as shown on the plans according to the pertinent provisions of standard spec 204 and as hereinafter provided.

Height Mod Station information can be found at:

- Wisconsin State Cartographer's web site – www.sco.wisc.org
- U.S. Department of Commerce web site – www.ngs.noaa.gov

B (Vacant)

C Construction

Remove the Height Modernization Geodetic Survey Monument and salvage the bronze disc according to standard spec 204.3.1.3s. The bronze disc remains property of the department and shall be returned to Tom Lipsky.

Notify the Thomas Lipsky, PLS (262) 548-6737 thomas.lipsky@dot.wi.gov with the SE Region - Waukesha and the Wisconsin Height Modernization staff (866) 568-2852 geodetic@dot.wi.gov five working days prior to construction operations that may disturb existing monument.

Please report endangered Wisconsin Height Modernization program geodetic control survey stations not included in the contract by calling (866) 568-2852 or by emailing information geodetic@dot.wi.gov.

D Measurement

The department will measure Removing Height Modernization Geodetic Survey Monument as each monument removed, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.001	Removing Height Modernization Geodetic Survey Monument	EACH

Payment is full compensation for removing the Height Modernization Geodetic Survey Monument and salvaging the 3.5-inch bronze disc and returning it to the department.

~~SER-204.3 (20170310) RMVL~~

41. Removing Bulkhead, Item 204.9060.S.002.

A Description

This special provision describes removing existing bulkhead in accordance to the pertinent provisions of section 204 of the standard specifications and as hereinafter provided.

B (Vacant)

C Construction

Carefully remove the bulkhead without damaging the pipe. Replace portion of damaged pipe with similar size and material.

D Measurement

The department will measure Removing Bulkhead by each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.002	Removing Bulkhead	EACH

stp-204-025 (20150630)

42. Removing Draintile, Item 204.9090.S.001.

A Description

This special provision describes removing draintile according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Conform to standard spec 204.

D Measurement

The department will measure Removing Draintile by the linear feet, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.001	Removing Draintile	LF

stp-204-025 (20150630)

43. Removing Underdrain, Item 204.9090.S.002.

A Description

This special provision describes removing underdrain according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing underdrain in linear feet, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.002	Removing Underdrain	LF

stp-204-025 (20150630)

44. Roadway Excavation

Replace standard spec 205.3.2(2) with the following:

Salvage topsoil, as specified in Article Topsoil Special, from excavation areas and the roadway foundation. Remove topsoil present below subgrade in cut sections and excess topsoil from embankment areas not required to cover side slopes as excavation common. Dispose of excess topsoil according to standard spec 205.3.12. Utilize Roadway Embankment to backfill areas of topsoil removal as directed by the engineer. The engineer may require EBS Backfill to fill shallow areas at cut-fill transitions to address stability issues related to the underlying soils.

Add the following to standard spec 205.5.2(1):

Provide the department with an earth flow diagram within 15 calendar days of receiving the contract Notice to Proceed.

Identify all excavation required for the project, all sources of roadway embankment fill including offsite material, shrinkage and swell factors, proposed stockpile material, structure excavation (if used in embankments), waste, and fills anticipated to be treated with a soil drying agent. Provide start and finish dates for each grading area within the division. These dates should correspond to the dates shown on the project schedule.

Provide earth flow diagram updates to the engineer for sequencing and source changes.

Add the following to standard spec 205.5.2(2):

The department will not pay EBS to remove frost from embankments or cut sections, unless directed by the engineer. It is the contractor's responsibility to stage construction so that exposed subgrades do not freeze or to provide adequate frost protection. Any work necessary to remove and replace frozen materials from newly constructed embankments or exposed cut sections is considered incidental to the excavation bid items.

45. QMP Subgrade.

A Description

This special provision describes requirements for subgrade materials within the roadway foundation as defined in standard spec 101.3. Conform to standard spec 207 as modified in this special provision for all work within the roadway foundation at the following locations:

STH 11

Provide and maintain a quality control program. A quality control program is defined as all activities, including process control inspection, sampling and testing, documentation, and necessary adjustments in the process that are related to the construction of subgrade which meets all the requirements of this provision.

Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:

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

B Materials

B.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform grading 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. 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:

- An organizational chart with names, telephone numbers, current certifications or titles, and roles and responsibilities of QC, QV, and IA personnel.
- 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.
- An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
- Location of the QC laboratory, retained sample storage, and control charts and other documentation.

- A summary of the locations and calculated quantities to be tested under this provision.
- An explanation regarding the basis of acceptance for material that cannot be tested by nuclear methods due to a high percentage of oversized particles.

B.2 Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a grading technician certified under HTCP at level I (or ACT Grading Technician under the direction of a certified technician) present at the site during all subgrade preparation, fill placement, compaction, and nuclear testing activities. Have a nuclear density technician certified under HTCP at level I perform field density and field moisture content testing.

B.3 Laboratory

Perform quality control testing in a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Laboratory
3502 Kinsman Boulevard
Madison, Wisconsin 53704-2583
Telephone: 608-246-7938

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

B.4 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 within 12 months before using it on the project. Retain a copy of the calibration certificate with the gauge. Nuclear density gauge calibration verification is required daily when earthwork construction operations require testing under this special provision article. This calibration verification shall be performed using the departments "Validator" apparatus which is located at the 94 N-S construction field office. Establish a standard gauge reading for the "Validator" using the 10 test average method. The source emitter depth for calibration verification, in the direct transmission mode, will be determined by the engineer. This procedure will establish the "Validator" apparatus, as the contractor's project reference site.

Conform to ASTM D 2950 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.

B.5 Soil Source Study

Conduct and submit a soil source study before beginning of grading operations. Ensure that this study identifies each distinct soil type on the project within the top 15 feet of cut areas and all borrow material. Provide the in-bank natural moisture content for each soil. Develop moisture-density curves for each identified soil type by utilizing AASHTO T 99, with a minimum of 5 individual points, and a zero air voids curve at a specific gravity of 2.65. If a different specific gravity is used perform a specific gravity test. Determine the maximum density and corresponding optimum moisture level for each soil type. Develop a site-specific family of Proctor curves for this contract from the completed soil source study and submit to the engineer for review and acceptance.

Perform characterization tests on each of the soil types selected for the soil source study. The tests for roadway include AASHTO T 89, AASHTO T 90, AASHTO T 27, and AASHTO T 11. Classify each soil type selected according to the AASHTO soil classification system based on the characterization tests. Do not begin grading operations until the engineer accepts the soil source study.

Use the soil types identified in the soil source study with corresponding maximum densities and optimum moisture values to determine the compaction compliance on the project. Continue the soil source study in those areas of cuts greater than 15 feet that were not accessible during the initial study. Include data on additional soil types if project conditions change. Ensure that tests of additional soil types are complete, and the engineer accepts the results before incorporating the material into the roadway foundation.

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 at:

Regional Materials Laboratory
Attn: Paul Emmons
935 S. 60th Street
West Allis, Wisconsin 53214
Telephone: (414) 266-1158

Retain and identify two representative samples of each Proctor. Submit one sample to the engineer. Retain one sample on site for use when performing textural identification.

B.6 Quality Control Documentation

B.6.1 Control Charts

Maintain separate control charts for the field density and field moisture content of each grading area. Designate grading areas within the project as follows:

- Embankment portions of the project, except within 200 feet of bridge abutments.
- Embankment within 200 feet of bridge abutments.
- Subgrade cut portions of the project.
- Embankment in pipe culvert, sewer and waterline trenches.
- Structure and granular backfill placed at bridge abutments.
- Embankments of the project where embankments are 20 feet or higher regardless of location to be known as special compaction area.

Ensure that all tests are recorded and become part of the project records. Plot required test results on the control charts. Include random and engineer-requested testing but only include the contractor's randomly selected QC test results in the 4-point running average. The contractor may plot other contractor-performed process control or informational tests on the control charts, but do not include them in 4-point running averages.

Post control charts in an engineer-approved location and update daily. Ensure that the control charts include the project number, the test number, each test element, the applicable control limits, the contractor's individual test results, the running average of the last 4 data points, and the engineer's quality verification test data points. Use the control charts as part of a process control system for identifying potential problems and assignable causes. Format control charts according to the CMM.

Submit control charts to the engineer in a neat and orderly manner within 10 business days after completing subgrade construction.

B.6.2 Records

Document all observations, inspection records, and adjustments to fill placement procedures, soil changes, and test results daily. Note the results of the observations and inspection records as they occur in a permanent field record.

Provide copies of the field density and field moisture running average calculation sheets, records of procedure adjustments, and soil changes to the engineer and QV personnel daily.

Submit original testing records to the engineer in a neat and orderly manner within 10 business days after completing subgrade construction.

B.7 Contractor Testing

B.7.1 General

Have a grading technician certified under HTCP at level I (or ACT Grading Technician under the direction of a certified technician) present during all subgrade preparation, fill placement, compaction, and testing. Have a nuclear density technician certified under HTCP at level I perform the testing for field density and field moisture content. During subgrade construction, use sampling and testing methods identified in the CMM to perform the required tests at randomly selected locations at the indicated minimum frequency for each grading area.

Determine the cubic yards for testing based on a total load count system the engineer and contractor agree to.

For each test, provide the cubic yards represented and the test location to within 2 feet horizontally and 0.5 feet vertically. Use project stationing to determine horizontal location and grade stakes to determine vertical location.

Test areas of suspect compaction or areas which appear to be nonconforming as determined by the engineer.

B.7.2 Field Density and Field Moisture

Perform the field density and field moisture tests using the nuclear density meter method according to AASHTO T 310. Ensure that each field density test material is related to one of the specific soil types identified in the soil source study in determining the percent compaction. Use textural identification as the primary method of establishing this relationship. Use the representative samples retained from the soil source study when performing the textural identification. Use a coarse particle correction according to AASHTO T 224.

If field density and field moisture tests cannot be performed by the nuclear density method due to a high percentage of oversized particles as determined according to AASHTO T 99 for highway embankments, observe the placement of the embankment and document the basis of acceptance. Document daily quantities of untested embankment and locations where untested embankment is placed and keep a cumulative quantity of untested embankment material during the project. Include the daily documentation and a summary of the cumulative quantity of untested embankment material with the project records.

B.7.3 Testing Frequency

B.7.3.1 Subgrade Embankment portions of the project, except within 200 Feet of bridge abutments

Perform the required tests at the following frequencies:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One per 2,000 cubic yards of fill per lift or one test per grading area per day whichever yields the most tests.

B.7.3.2 Subgrade Embankment Within 200 Feet of Bridge Abutments

Perform the required tests at the following frequencies:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One per 1,000 cubic yards of fill per lift or one test per grading area per day whichever yields the most tests.

B.7.3.3 Subgrade Cut

Perform the required tests at the following frequencies:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One test per 1,000 linear feet of cut or one test per cut area whichever yields the most tests. The testing will be completed at the finished subgrade elevation.

B.7.3.4 Subgrade Embankment in Pipe Removals, Pipe Culvert, Sewer and Waterline Trenches

Perform the required tests at the following minimum frequencies per trench run between structures. Test trenches individually at the frequency listed in this section. For example, lateral lines and trunk lines are to be considered individual trenches:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One test per 100 CY of backfill placed per lift or one test per day whichever yields the most tests.

B.7.3.5 Structure and Granular Backfill at Bridge Abutments

Perform the required tests at the following minimum frequencies:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One test per 2 feet of vertical backfill height per abutment.

B.7.3.6 Embankments of the project 20 feet or higher regardless of location to be known as special compaction area

Perform the required tests at the following minimum frequencies but exclude MSE wall backfill:

Test	Minimum Frequency
Field Density and Moisture (AASHTO T 310)	One per 2,000 cubic yards of fill per lift or one test per grading area per day whichever yields the most tests.

B.7.4 Control Limits

B.7.4.1 Field Density

B.7.4.1.1 General Conditions

The lower control limit for field density measurements is a minimum of 95.0 percent of the maximum dry density as determined by AASHTO T 99 or T 272for the 4-point running average and a minimum of 92.0 percent of the maximum dry density for any individual test.

B.7.4.1.2 Embankments of the project 20 feet or higher regardless of zone to be known as special compaction area excluding MSE wall backfill

The lower control limit for field density measurements in the special compaction area is a minimum of 98.0 percent of the maximum dry density as determined by AASHTO T 99 or T 272 for the 4-point running average and a minimum of 95.0 percent of the maximum dry density for any individual test.

B.7.4.2 Field Moisture Content

The upper control limit for the field moisture content for embankment material within 5 feet or less of finished subgrade is 105.0 percent of the optimum moisture as determined by AASHTO T 99 or T 272 for the 4-point running average.

The upper control limit for the field moisture content for embankment material greater than 5 feet below finished subgrade is 110.0 percent of the optimum moisture as determined by AASHTO T 99 or T 272 for the 4-point running average.

The lower control limit for the field moisture content in for all embankments is 65.0 percent of the determined optimum moisture for the 4-point running average. There is no lower control limit for the field moisture of material having less than 5 percent passing the No. 200 sieve.

B.7.5 Corrective Action

Notify the engineer if an individual field density test falls below the individual test control limit. The subgrade in this area is unacceptable. Perform corrective actions, acceptable to the engineer to improve the density of the subgrade material. After corrective action, perform a randomly located retest within the represented quantity to ensure that the material is acceptable.

Notify the engineer if the field density or field moisture running average point falls below the running average control limit for field density or outside the control limits for field moisture. The subgrade in this area is unacceptable. Perform corrective actions, acceptable to the engineer to improve the quality of the material represented by the running average point. Retest each corrected area at a new random location within its represented quantity and determine a new 4-point running average. If the new running average is not acceptable, perform further corrective actions and retest at new random locations.

If the contractor's control data is proven incorrect resulting in a field density or field moisture point falling below the control limit for field density or outside the control limits for field moisture, the subgrade is unacceptable. Employ the methods described in this special provision for unacceptable material.

B.8 Department Testing

B.8.1 General

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 verification and independent assurance personnel for the project.

The department will provide field density and field moisture test results to the contractor on the day of testing. Test results from Proctor split samples will be provided to the contractor within 7 business days after the sample has been received by the department.

B.8.2 Verification Testing

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

The department will test field density and field moisture randomly at locations independent of the contractor's QC work. The department will use split samples for verification of Proctor testing. In all cases, the department will conduct the verification tests in a separate laboratory and with separate equipment from the contractor's QC tests.

The department will perform verification testing as follows:

1. The department will conduct verification tests on Proctor split samples taken by the contractor. These samples may be from the Soil Source Study or sample locations chosen by the engineer from anywhere in the process. The minimum verification testing frequency is one per 90,000 cubic yards, with at least one for each soil type identified in the Soil Source Study.
2. The engineer may select any contractor-retained sample for verification testing.
3. The department will conduct at least one verification test for field density and field moisture per 20,000 cubic yards.

Plot verification tests on the contractor's quality control charts as specified in B.6.1. Do not include verification tests in the 4-point running average.

If verification tests are within specified control limits, no further action is required. If verification tests are not within specified control limits, the engineer and contractor will jointly investigate any testing discrepancies. The investigation may include additional testing as well as review and observation of both the department's and contractor's sampling and testing procedures and equipment. Both parties will document all investigative work.

Correct all deficiencies. If the contractor does not respond to an engineer request to correct a deficiency or resolve a testing discrepancy, the engineer may suspend grading work until action is taken. Resolve disputes as specified in B.9.

B.8.3 Independent Assurance Testing

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, which 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.

Plot the independent assurance tests on the contractor's quality control charts as specified in B.6.1. Do not include independent assurance tests in the 4-point running average.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or cooperate in resolving identified deficiencies, the engineer may suspend grading work until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

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 E 178 to evaluate potential statistically outlying data.

If the project personnel cannot resolve a dispute and the dispute affects payment or could result in incorporating nonconforming product, 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 tests 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.

B.10 Acceptance

The department will accept the material tested under this provision based on the contractor QC tests unless it is shown through verification testing or the dispute resolution process that the contractor's test results are in error.

C (Vacant)

D (Vacant)

E Payment

Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor does not 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.

~~sef-207-005 (20171004)~~

46. Concrete Pavement Joint Layout Project 1320-23-70, Item 415.5110.S.001; Concrete Pavement Joint Layout Project 1320-23-73, Item 415.5110.S.002.

A Description

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections and marking the location of all joints in the field

B (Vacant)

C Construction

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer at least 7 calendar days before paving each intersection. Do not lay out joints until the engineer has reviewed the joint layout design. Mark the location of all concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit for all joint layout designs and marking, 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
415.5110.S.001	Concrete Pavement Joint Layout Project 1320-23-70	LS
415.5110.S.002	Concrete Pavement Joint Layout Project 1320-23-73	LS

Payment is full compensation for providing the intersection joint layout designs and marking all joints in the field.

The department will adjust pay for crack repairs as specified in standard spec 415.5.3

stp-415-020 (20170615)

47. Asphaltic Surface Temporary.

Replace standard spec 465.2 (1) with the following:

Under the Asphaltic Surface Temporary bid item; submit a mix design. Furnish asphaltic mixture meeting the requirements specified for type MT under 460.2; except the engineer will not require the contractor to conform to the quality management program (QMP) specified under 460.2.8.

sef-465-005 (20170310)

48. Cold Patch, Item 495.1000.S.

A Description

This special provision describes furnishing cold patch and filling potholes and other voids in existing pavement surfaces as the engineer directs.

B Materials

Furnish a mixture of course aggregate, natural sand, and MC-250 bituminous material designed to have a workability range of 15-100º F without heating. Ensure that the mixture:

- Adheres to wet surfaces.
- Resists damage from water, salt, and deicing products.
- Requires no mixing or special handling before use.
- Supports traffic immediately after placement and compaction.

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1/2-inch (12.5 mm)	100
3/8-inch (9.5 mm)	90 - 100
No. 4 (4.75 mm)	–90 max
No. 8 (2.38 mm)	20 - 65
No. 200 (0.074 mm)	2 - 10
Bitumen	4.8 - 5.4

The department will accept cold patch based primarily on the engineer's visual inspection. The department may also test for gradation.

C Construction

Stockpile cold patch on site on a smooth, firm, well-drained area cleared of vegetation and foreign material. Cover the stockpile and ensure that it is easily accessible. Replenish the stockpile throughout the project duration but limit the size at any given time to 10 tons on site unless the engineer approves otherwise. Dispose of unused material at project completion unless the engineer directs otherwise.

Place cold patch by hand. Remove ponded water and loose debris before placement. Compact flush with a tamper, roller, or vehicle tire after placement.

Refill patched areas as necessary to maintain a flush pavement surface until project completion.

D Measurement

The department will measure Cold Patch by the ton, acceptably stockpiled on site.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
495.1000.S	Cold Patch	TON

Payment for Cold Patch is full compensation for providing and maintaining patches; for furnishing and replenishing stockpiled material on-site; and for disposing of excess material at project completion.

stp-495-010 (20160607)

49. Storm Sewer

Supplement standard spec 204.5.1 with the following:

QMP sampling, testing and documentation if applicable is incidental to removing storm sewer bid item and no separate payment will be made.

Supplement standard spec 608.2 with the following:

Two weeks prior to start of storm sewer construction, provide a shoring design and installation sequence for each location where shoring is to be used. Have a professional engineer, currently registered in the State of Wisconsin and knowledgeable of the specific site conditions and requirements, verify the adequacy of the design. Submit one electronic copy in portable document format of each shoring design, signed and sealed by the same professional engineer verifying the design, to the engineer for incorporation into the permanent project record.

Supplement standard spec 608.3.1 with the following:

(1) Incorporate excavated material in the work to the extent practicable. Use materials with suitable engineering properties for embankment.

(2) Dispose of surplus or unsuitable material as specified in standard spec 205.3.12.

Supplement standard spec 608.3.4 with the following:

Place rubber gasket joints over the spigot end or tongue of the entering pipe for all round storm sewer pipes horizontal and elliptical pipes with a rise less than or equal to 40-inches. Clean the gasket and the ends of the pipe from sand and gravel. If the gasket provided is neither factory lubricated nor self-lubricating, lubricate the outside of the gasket and the inside of the bell or groove of the last pipe with an engineer - approved vegetable lubricant immediately before making the joint. Place the spigot or tongue of the pipe being laid with the gasket in place into the bell or groove end of the previously laid pipe. Set pipe carefully to line and grade and push or jack home. The engineer may order the use of ajack or “come-along” if deemed necessary to ensure that the joints are completely tight.

For horizontal elliptical pipe rise greater than 40-inches use mastic joint compound. Where factory lubricated rubber gasket joints are not available, clean the ends of the pipe from sand and gravel. Place engineer-approved mastic joint sealer on both the spigot and bell ends of the pipe being laid. Apply additional mastic around each joint exterior and wrap each joint with Geotextile Fabric Type DF laid flat meeting requirements of standard spec 645. Wrap each joint so that the Geotextile Fabric overlaps each joint a distance of approximately ½ of the pipe diameter.

Replace standard spec 608.5(2) with the following:

Payment for the Storm Sewer Pipe bid items is full compensation for providing all materials, including all special Y’s, mitered sections, elbows and connections required; for all submittals; for excavating and wasting excess material, except rock excavation; for providing rubber gaskets; Lubrication of rubber gaskets; mastic joint sealer; for supporting utilities in storm sewer trench; for shoring design, providing a signed and sealed copy of the design; for installation, monitoring, and removal of shoring; for forming foundation; for laying pipe; for sealing joints and making connections to new or existing features, bedding

material; for backfilling and granular backfill material; for QMP sampling, testing and documentation; for cleaning out; and absent the pertinent contract bid items, for restoring the work site.

50. Catch Basins, Manholes, and Inlets.

Supplement standard spec 611.3.1 with the following:

Use a Grade "A" concrete for final adjustment of manhole cover. Provide a butyl rubber gasket or butyl rubber rope for joints of precast reinforced concrete manhole sections. Butyl Rubber gasket joint used for manholes conforms to 8.41.6 of the Standard Specification for Sewer and Water Construction in Wisconsin, latest Edition. Provide non-rocking covers for all drainage structures subject to traffic loading.

Submit shop drawings for all drainage structures. For structures where WisDOT standard detail drawings are not available, provide shop drawings prepared, verified and stamped by a professional engineer currently registered in the State of Wisconsin. Submit one electronic copy of shop drawings in portable document format for engineer's review two weeks before fabrication. Show clearly on shop drawings information for all pipe connections to the structure. The contractor is responsible for all errors of detailing and fabrication. The omission from the shop drawings of any pipe connection shall not relieve contractor of the responsibility of providing such materials, even though the shop drawings may have been reviewed and accepted by the engineer.

Supplement standard spec 611.3.2 with the following:

Conform to storm sewer concrete collar detail for storm sewer pipes to structure connections as shown on the plans.

Supplement standard spec 611.3.3 with the following:

Use monolithic concrete shimming as the plan shows for final adjustment of drainage structures located within the concrete pavement, concrete shoulders, concrete curb and gutter and concrete barrier wall.

Supplement standard spec 611.3.7 with the following:

Construct height adjustments of 4-inches or more with concrete grade rings. Never use grade rings less than 2-inches thick.

Replace standard spec 611.5.2 (1) with the following:

Payment for Catch Basins, Manholes, and Inlets bid items is full compensation for providing all submittals; materials, including all masonry, and concrete bricks, for Grade "A" concrete adjustments and monolithic concrete shimming; adjusting rings; conduit and sewer connections, steps, and other fittings; for providing and installing butyl rubber joints; for furnishing backfill, backfilling; all excavating, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

Cost of non-rocking covers for all drainage structures subject to traffic loading is incidental to new cover on proposed structure or reconstructing/adjusting manholes or inlets on existing structure.

51. 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)

52. 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)

53. Signs Type II.

Furnish and install mounting brackets per approved product list for type II signs on overhead sign supports incidental to sign. For type II signs on sign bridges use aluminum vertical support beams noted above incidental to sign.

Supplement standard spec 637.2.4 with the following:

Use stainless steel bolts, washers and nuts for type II signs mounted on sign bridges. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4-inch wide flange beams weighing 3.06 pounds per foot. Contractor shall measure the width of the L-brackets on existing structures of determine the width needed for sign support beams.

Use beams a minimum of 6 feet in length or equal to the height of the sign to be supported, whichever is greater. Use U-bolts that are made of stainless steel, 1/2 inch diameter and of the proper size to fit the truss cords of each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

For type II signs on overhead sign supports follow the approved product list for mounting brackets.

Replace standard spec 637.2.4.1(2)2 with the following:

Clips may be either stainless steel or aluminum conforming to ASTM B 108, alloy 356.0-T6.

Supplement standard spec 637.3.3.3(3) with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type II Signs.

Add the following to standard spec 641.2:

Submit shop drawings for sign bridges and overhead sign supports to SE Region Traffic Operations Engineer, Tom Heydel and Bureau of Structures Design.

~~SER-637.1 (20170405)~~

54. Covering Signs.

Replace standard spec 643.2.3.3(2) with the following:

(2) Ensure that covers are flat black, blank, and opaque.

Add the following to standard spec 643.3.4.1 as paragraph four:

(4) If multiple messages on a single sign are required to be covered, minimize the number of holes created by covering the sign with a single rectangular shaped covering. Multiple coverings on a single sign is only permissible where necessary to avoid covering necessary content or as directed by the engineer. Submit sign covering plans to the engineer for single signs requiring multiple coverings 3 days before performing work. Obtain engineer approval before covering signs. Remove sign coverings before placing fixed messages signs unless otherwise directed by the engineer.

sef-643-005 (20180104)

55. Traffic Control.

Supplement standard spec 643.3.1 with the following:

Provide the Racine County Sheriff's Department, the Wisconsin State Patrol, Village of Mount Police Department and the engineer a current telephone number with which the contractor or his representative can be contacted during non-working hours in the event a safety hazard develops.

Do not park or store equipment, contractor's and personal vehicles or construction materials within the clear zone or on any roadway carrying traffic during working and non-working hours except at locations and periods of time approved by the engineer.

Do not permit construction or personnel equipment or vehicles to directly cross the live traffic lanes of STH 11. Yield to all through traffic at all locations. Equip all vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light) that is visible from 360 degrees. Operate the flashing yellow beam only when merging or exiting live traffic lanes or when parked or operating on shoulders, except when parked behind barrier wall. Do not park personal vehicles within the access control limits of the freeway. Do not cross live traffic lanes of STH 11 with equipment or vehicles.

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

Do not disturb, remove or obliterate any traffic control signs, advisory signs, sand barrel array, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer.

Flagging operations shall follow standard spec 104.6.1(4) of the standard specs and chapter 6E of the WMUTCD.

Replace standard spec 643.3.1(7) with the following:

Provide equipment, forces, and materials to promptly restore any traffic control devices or pavement markings damaged or disturbed within 2 hours of being contacted.

SER-643.1 (20170808)

56. General Requirements for Electrical Work.

Replace standard spec 651.3.3(3) with the following:

(3) Request a signal inspection of the completed signal installation to the engineer at least five working days prior to the time of the requested inspection. Notify the department's Electrical Field Unit at (414) 266-1170 to coordinate the inspection. The department's Region Electrical personnel will perform the inspection. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work or turn-on until the contractor corrects all deficiencies.

57. Traffic Signals, General.

Work under this item shall consist of furnishing and installing materials and installing department provided materials for the traffic signals at STH 11 and Wisconn Valley Way and STH 11 and International Drive.

Do not order any aboveground traffic signal equipment until you receive permission from the engineer that all aboveground equipment will be installed for the project.

58. Electrical Conduit.

Replace standard spec 652.5(2) with the following:

(2) Payment for Conduit Rigid Metallic, Conduit Rigid Nonmetallic, Conduit Reinforced Thermosetting Resin, and Conduit Special bid items is full compensation for providing the conduit, conduit bodies, and fittings; for providing all conduit hangers, clips, attachments, and fittings used to support conduit on structures; for pull wires or ropes; for expansion fittings and caps; for making necessary

connections into existing pull box, manhole, junction box or communication vault; for excavating, bedding, and backfilling, including any sand, concrete, or other required materials; for disposing of surplus materials; and for making inspections.

Replace standard spec 652.5(5) with the following:

(5) Payment for Conduit Loop Detector is full compensation for providing all materials, including conduit, compacted backfill, surface sealer if required, pull wire if required, condulets, conduit fittings, and for making necessary connections into existing pull box, manhole, junction box or communication vault.

59. Electrical Service Meter Breaker Pedestal STH 11 & Wisconsin Valley Way, Item 656.0200.301; Electrical Service Meter Breaker Pedestal STH 11 & International Drive, Item 656.0200.311.

Append standard spec 656.2.3 with the following:

(2) The department will be responsible for the electrical service installation request for any department maintained facility. Notify the maintaining authority if the signal is not state maintained that it is their responsibility to arrange for the electrical service installation.

(3) Electrical utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

(4) Install the cabinet base and meter breaker pedestal first, so the electrical utility company can install the service lateral. Install a 3” conduit from the point of service from the utility to the meter breaker pedestal. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electrical utility company.

Append standard spec 656.5 with the following:

(8) Payment is full compensation for grading the service trench; replacing topsoil; and for fertilizing, seeding, and mulching to restore the disturbed area of the service trench.

60. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use two 2-Inch HDPE Ducts, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the standard spec.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for entering conduits at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing System by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	EACH

Payment is full compensation for excavating, drilling holes; furnishing and installng all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

stp-652-070 (20100709)

61. Traffic Signal Faces.

Append standard spec 658.3 with the following:

(5) Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

62. Pedestrian Push Buttons.

Replace standard spec 658.2(5) with the following:

(5) Furnish freeze-proof ADA compliant pedestrian push buttons made by a department-approved manufacturer. Place a Size 1, Type H reflective (R10-3EL, R, D) sign sticker (per state sign plate), message series – B directly above each push button. Include a directional arrow or arrows on the sign as the plans show.

63. Communication Systems.

Replace standard spec 678.2.1(1) with the following:

(1) The department will furnish fiber optic cable, splice enclosures, termination panels, Ethernet switches, wireless antennas, and cellular modems.

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials three working days prior to picking up the materials.

Replace standard spec 678.5(6) with the following:

(6) Payment for Install Ethernet Switches and Install Wireless Antennas is full compensation for transporting and installing the devices; for cables and connectors; and connecting the devices.

Replace standard spec 678.5(7) with the following:

(7) Payment for Install Cellular Modems is full compensation for transporting and installing the modem; for cables and connectors including rack mountable shelf; for connecting the devices; for programming and configuration; and for testing.

64. Optimized Aggregate Gradation Incentive, Item 715.0710.

Description

This special provision describes optional contractor optimized aggregate gradation, optional optimized mixture designs, and associated additional requirements for class 1 concrete used in concrete pavements. Conform to standard specification part 7 and as follows:

Optimized Aggregate Gradation

A Job Mix Formula (JMF) contains all of the following:

Proportions for each aggregate fraction conforming to table 1.

Individual gradations for each aggregate fraction.

Composite gradation of the combined aggregates including working ranges on each sieve according to table 2.

Submit the target JMF and aggregate production gradation test results to the engineer for review 10 business days before initial concrete placement.

TABLE 1 TARANTULA CURVE GRADATION BAND

SIEVE SIZES	PERCENT RETAINED
2 in.	0
1 1/2 in.	≤5
1 in.	≤16
3/4 in.	≤20
1/2 in.	4-20
3/8 in.	4-20
No. 4	4-20
No. 8[1]	≤12
No. 16[1]	≤12
No. 30[1] [2]	4-20
No. 50 [2]	4-20
No. 100 [2]	≤10
No. 200 [2]	≤2.3

[1] Minimum of 15% retained on the sum of the #8, #16, and #30 sieves.
[2] Conform to 24-34% retained of fine sand on the #30-200 sieves.

TABLE 2 JMF WORKING RANGE

SIEVE SIZES	WORKING RANGE[1] (PERCENT)
2 in.	+/- 5
1 1/2 in.	+/- 5
1 in.	+/- 5
3/4 in.	+/- 5
1/2 in.	+/- 5
3/8 in.	+/- 5
No. 4	+/- 5
No. 8	+/- 4
No. 16	+/- 4
No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2
No. 200	≤ 2.3

[1] Working range limits of composite gradation based on moving average of 4 tests.

Test each component aggregate once per 1,500 cubic yards during concrete production. Take samples by one of the following sampling methods:

1. At the belt leading to the weigh hopper.
2. Working face of the stock piles at the concrete plant if approved by the engineer.

The department will take independent QV samples using the same sampling method the contractor uses for QC sampling. QV samples may be taken by the contractor's QC personnel if witnessed by the department's QV personnel. The department will split each QV sample and retain half for all dispute resolutions. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

If, during concrete production, the moving average of four for any sieve fall outside the allowable JMF working range do the following:

1. Notify the engineer of the test results within 1 business day from the time of sampling.
2. Make immediate adjustments to the JMF, within the limits specified in Table 3;
3. Review JMF adjustments with the engineer. Both the contractor and engineer will sign the adjusted JMF if the adjustments comply with Table 3.
4. If the moving average of four falls outside the adjusted allowable working range, stop production and provide a new mix design including JMF to the engineer.

TABLE 3 ALLOWABLE JMF ADJUSTMENTS

SIEVE SIZES	ALLOWABLE ADJUSTMENT (PERCENT)
>= No. 4	+/- 5
No. 8 – No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2

Dispute Resolution

The department will resolve disputes as specified in standard spec 106.3.4.3.5 using QV split samples.

Sublot and Lot Size

A sublot consists of up to 1,500 cubic yards. A lot consists of two sublots.

Optimized Concrete Mixtures

The contractor may use a reduced cementitious content for concrete pavement placed if the contractor does the following:

1. Use an optimized aggregate gradation as defined in this special provision.
2. Conform to the additional testing requirements for flexural strength as specified in the contract special provisions.
3. Submit aggregate gradation result records no more than 2 years old when developing the mix design.
4. Determine the volume of voids in the optimized aggregates using ASTM C29.
5. Download and follow the instructions tab of the Optimized Gradation and Mix Design Spreadsheet located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
7. Provide a minimum Vpaste/Vvoids of 1.25. (Paste/Void ratio equals the volume of paste divided by the volume of voids.).
8. Evaluate workability of trial batches by following section 6.8 of AASHTO Draft Performance Engineered Concrete Pavement Mixtures Specifications located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
9. Submit trial batch workability results when submitting the mix design.

10. Submit the CP Tech center computer spreadsheet concrete mix design to the engineer for review at least 3 business days before producing concrete.
11. Provide a minimum cement content of 520 pounds per cubic yard, except if using type I, IL, or III cement in a mix where the geologic composition of the coarse aggregate is primarily igneous or metamorphic materials, provide a minimum cement content of 660 pounds per cubic yard.
12. The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for cement. For binary mixes use up to 30% fly ash or slag. For ternary mixes use up to 30% fly ash plus slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
13. See CMM 8-70.2.2.3 for additional guidance.

Measurement

The department will measure Optimized Aggregate Gradation Incentive by the dollar, for each combined averaged lot of QC test results meeting Table 1.

Payment

The department will pay incentive of 3 percent of the contract unit price for concrete pavement under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
715.0710	Optimized Aggregate Gradation Incentive	DOL

stp-715-005 (20180628)

65. Flexural Strength for Concrete Mix Design.

This special provision describes optional testing requirements for flexural strength during the mix design process. Conform to standard spec part 7 as modified in this special provision.

Add the following to standard spec table 701-2:

TEST	TEST STANDARD
Flexural Strength of Concrete	AASHTO T97

Replace standard spec 715.2.3.1(1) with the following:

(1) Provide both compressive and flexural strength information to demonstrate the strength of the proposed mix design. Use either laboratory strength data for new mixes or field strength data for established mixes as follows:

1. Use at least 5 pairs of cylinders for compressive strength. Demonstrate that the 28-day compressive strength will equal or exceed the 85 percent within limits criterion specified in standard spec 715.5.2.
2. Use at least 5 pairs of beams for flexural strength. Demonstrate that the 28-day flexural strength will equal or exceed 650 psi.

stp-715-010 (20170615)

66. EBS Excavation, Item SPV.0035.001.

A Description

This special provision describes excavating and disposing of material taken below the subgrade of future pavement structures at locations determined by the engineer. The removal of excess topsoil will be paid under common excavation.

B Materials

Excavate all materials below subgrade not classified as rock, stone piles and stone fences, or marsh excavation. Perform work according to standard spec 205.2.2 and as hereinafter provided.

C Construction

Perform work according to the pertinent provisions of standard spec 205.3 and as hereinafter provided.

C.1 Yielding Subgrade

After rough grading on all or a portion of the subgrade in cut areas and in areas requiring 2 feet or less embankment is complete, and the grade is ready for blue tops, point out areas of yielding subgrade to the engineer. The engineer will evaluate the subgrade to determine if EBS Excavation is required.

If the engineer requests, provide loaded trucks and run the subgrade as the engineer directs to confirm yielding areas. Perform EBS Excavation in yielding areas as directed by the engineer.

C.2 Excavation Below Subgrade

Excavate materials as directed by the engineer. Remove deposits of frost-heave material, unstable silty soils, wet and unstable soil, material salvaged from old road cores in marshes, topsoil containing considerable amounts of humus or vegetable matter, rocks, or other undesirable foundation material to the depth below finished grade as the engineer directs.

Compact, or prepare otherwise as required, the existing ground within the roadway foundation as necessary to support the roadway and attain the specified density.

Dispose of all excavated materials offsite at no expense to the department. Locate disposal sites outside the right-of-way and comply with all regulations relating to disposal of solid waste. Ensure that disposal sites are neatly constructed. In performing these operations, do not create a nuisance or cause pollution or siltation of natural watercourses, streams, lakes, wetlands, or reservoirs. Obtain written permits for disposal from the owner of the property where placing the material, unless disposing of the material at a licensed waste disposal operation. Furnish permits, or copies of permits, to the engineer before disposal. Do not deposit waste in wetlands.

C.3 Temporary Drainage

During construction, slope and drain the excavation bottoms to prevent water accumulation. If it is necessary in the prosecution of the work to interrupt existing surface drainage, sewers, or under drainage, provide temporary drainage until completing permanent drainage work.

D Measurement

The department will measure EBS Excavation by the cubic yard acceptably completed as computed using the method of average end areas, with no correction for curvature.

The department will not measure for payment materials excavated in forming benches or steps in preparing the foundation for embankments placed on slopes.

The department will not measure for payment materials excavated to remove frost from newly constructed embankments or cut subgrades unless directed by the engineer.

If undercutting designated slopes to provide for placing topsoil or salvaged topsoil, the undercut is incidental to the Topsoil Special 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.0035.001	EBS Excavation	CY

Payment for EBS Excavation is full compensation for performing excavation below subgrade after receiving engineer approval; for the satisfactory disposal of all resulting material offsite; for obtaining and furnishing copies of permits; for furnishing, placing, and removing all temporary drainage installations; and for providing loaded trucks and running them on the subgrade to confirm yielding areas.

The department will only pay for engineer-approved EBS Excavation to correct problems beyond the contractor’s control. Work performed under standard spec 105.3 to correct unacceptable work is the contractor’s responsibility.

ASP-5 will be applied to this item. The Fuel Usage Factor is 0.29.

67. EBS Backfill, Item SPV.0035.002.

A Description

This special provision describes backfilling EBS Excavation with breaker run. Areas of backfilling in locations of existing topsoil removal to be paid under Roadway Embankment.

B Materials

Furnish all materials according to standard spec 311.2 and as hereinafter provided.

C Construction

Place breaker run where EBS Excavation was performed or as the engineer directs. Compact breaker run using standard compaction conforming to standard spec 301.3.

D Measurement

The department will determine weight or volume, adjust for moisture, and convert between weight and volume as specified in standard spec 301.4.

The department will measure EBS Backfill by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.002	EBS Backfill	CY

Payment for EBS Backfill is full compensation for providing and compacting breaker run in areas of EBS Excavation.

The department will only pay for EBS Backfill at engineer-approved EBS Excavation locations. Work performed under standard spec 105.3 to correct unacceptable work is the contractor's responsibility.

The department will not pay for EBS Backfill to replace materials excavated to remove frost from newly constructed embankments or cut subgrades.

68. Roadway Embankment, Item SPV.0035.003.

A Description

This special provision describes placing in embankments and in miscellaneous backfills, material obtained under the bid items in the roadway and drainage excavation or excavation for structure sections; or material obtained off site as specified under these special provisions.

B Materials

B.1 Embankment

Furnish roadway embankment conforming with standard spec 207.2 except as follows:

Supplement standard spec 207.2(1) with the following:

If the contractor utilizes offsite material to construct embankments, the material shall conform to standard spec 208 except as follows:

Delete standard spec 208.2.2(2).

C Construction

Construct roadway embankment according to standard spec 207.3 except as follows:

Supplement standard spec 207.3.6 with the following:

Prior to placing any material for a succeeding layer, ensure the previous layer does not have excessive rutting, displacement, or distortion under the compacting or hauling equipment. If rutting, displacement, or distortion is observed, the contractor shall inform the engineer how yielding material will be addressed prior to continuing roadway embankment construction.

If off site material is utilized, construction must conform to standard spec 208.3.

D Measurement

The department will measure Roadway Embankment without any correction for shrinkage or expansion factors by the cubic yard acceptably completed in its final location using the method of average end areas, except as follows:

a) The engineer and contractor mutually agree to an alternative volume calculation method.

b) If it is not possible to compute volumes of the various classes of roadway and drainage embankment by the method of average end areas due to erratic location of isolated deposits, the department may compute the volumes by three-dimensional measurements.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.003	Roadway Embankment	CY

Payment is full compensation for furnishing offsite and onsite sources, for forming, compacting, shaping, sloping, trimming, finishing, and maintaining the embankments. If offsite materials are utilized for roadway embankments, payment includes full compensation for all items listed in standard spec 208.5 (2), for obtaining all required permits, and all other incidental work required under this section.

ASP-5 will be applied to this item. The Fuel Usage Factor is 0.23.

69. Portable Speed Trailer, Item SPV.0045.001.

A Description

This special provision describes furnishing, hauling, placing, erecting, re-erecting, operating, maintaining, moving and removal of portable speed trailers during the construction of this project.

B Materials

Furnish portable speed trailer conforming to the appropriate requirements of standard spec 643 and the Manual on Uniform Traffic Control Devices (MUTCD), latest edition, for portable changeable message signs (PCMS).

Provide a battery powered device with a regulatory speed limit sign and a radar speed sign displaying speed in mph. The flash rate should be between 50 and 60 cycles per minute. Place the sign so that in the operating mode the bottom of the message panel is 7 feet or higher above the top of curb or near edge of pavement. Orient the message panel so the message is legible from 850 feet under both day and night conditions.

C Construction

Furnish, haul, place, erect, re-erect, operate, maintain, move, and remove devices at locations as the plans show and as directed by the engineer.

Coordinate the placement and duration of these devices with the engineer at least 24 hours before its intended use and accommodate within the project. Provide an area to park the devices that is still visible to traffic.

Space five traffic control drums at 10 foot intervals as needed in front of the portable speed trailer.

Move devices not performing as intended to the satisfaction of the engineer within 24 hours of notification.

D Measurement

The department will measure Portable Speed Trailer by the day acceptably completed. For this special provision, the number of days measured is defined as the number of calendar days that the portable speed trailer is used in moving operations or short-term stationary work. A calendar day begins with each deployment within a defined time-frame and exceeding two hours.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.001	Portable Speed Trailer	DAY

Payment is full compensation for furnishing, hauling, placing, erecting, re-erecting, operating, maintaining, moving and removal of portable speed trailers during the construction of this project. Drums are paid separately under traffic control items.

sef-643-025 (20171004)

70. Temporary Stone Ditch Checks, Item SPV.0060.002.

A Description

Furnish and install temporary stone ditch checks; clean and maintain ditch checks as shown on the plans or as directed by the engineer, and as hereinafter provided. This item also includes the removal and disposal of the ditch checks as directed by the engineer.

B Materials

Conform to standard specification 606.2.1 using the following gradation:

INCHES	VOLUME OCCUPIED BY STONES
>8	0%
4-6	50% - 90%
<2	5% or less

Material shall be visually inspected and approved by the engineer.

C Construction

Place stone ditch checks immediately after shaping of the ditches or slopes are completed. Place stone checks at right angles to the direction of flow and construct according to the details shown in the plans.

Remove sediment from behind the stone ditch checks when it has accumulated to one half of the original height of the dam. Perform cleaning according to standard spec 628.

D Measurement

The department will measure Temporary Stone Ditch Checks by each item, 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.0060.002	Temporary Stone Ditch Checks	EACH

Payment is full compensation for furnishing, installing, maintaining, and cleaning; disposal of sediment; and for removing temporary ditch check.

Restoration of the area after ditch check removal shall be paid for with restoration items included in the contract.

(NER14-1104)

71. Sand Bags, Item SPV.0060.003.

A Description

This special provision describes the construction of dikes or barriers with sand filled bags as shown on the plans.

B Materials

Provide bags made of canvas, burlap, nylon or other approved material. Use bags that will contain a minimum of one half cubic foot of sand, be of one size and shape and be securely closed.

Use sand that conforms to standard spec 501.2.5.3 except that standard spec 501.2.5.3.4 shall be deleted. The maximum size of particle shall pass a No. 4 sieve.

C Construction

Remove and dispose of the sand bags and all surplus material upon completion of its use under this contract.

D Measurement

The department will measure Sand Bags as each individual sand bag, placed 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
SPV.0060.003	Sand Bags	EACH

Payment is full compensation for furnishing and installing sand filled bags; for all excavation; for removal and disposal of the sand bags and all waste or surplus materials, including eroded materials and for shaping and restoring the area.

Any required topsoiling, fertilizing, seeding or mulching will be paid for under the applicable bid item.

SER-207.1 (20101021) EROC

72. Temporary Sediment Traps, Item SPV.0060.004.

A Description

Design, construct, and maintain temporary sediment traps used to intercept sediment-laden runoff and to retain the sediment.

B Materials

Materials shall be according to Wisconsin DNR Technical Standard 1063 (Sediment Trap).

C Construction

Design, construct, maintain and remove temporary sediment traps following the guidance in Wisconsin DNR Technical Standard 1063 (Sediment Trap) and according to the detail shown in the plans, and at the direction of the engineer. Locations as directed by the engineer. General locations requiring Temporary Sediment Traps are upstream of streams and wetlands which receive sediment laden runoff. Install prior to major grading operations. Do not remove until directed by the engineer.

D Measurement

The department will measure Temporary Sediment Traps as each individual sediment trap, installed according to the contract and 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.0060.004	Temporary Sediment Traps	EACH

Payment is full compensation for design; furnishing and maintaining each basin; for removal of the basin; and for stabilization of disturbed area after removal.

73. Mobilizations Emergency Pavement Repair, Item SPV.0060.009

A Description

This special provision describes furnishing and mobilizing personnel, equipment, traffic control, and materials to the project site to repair the existing pavement for emergencies as the engineer directs. An emergency is a sudden occurrence of a serious and urgent nature, beyond normal maintenance of the existing pavement.

B (Vacant)

C Construction

Mobilize with sufficient personnel, equipment, traffic control, materials, and incidentals on the jobsite within 4 hours of the engineer's written order to repair the existing pavement on an emergency basis.

D Measurement

The department will measure Mobilizations Emergency Pavement Repair as each individual mobilization, acceptably completed. The department will not include delivering and installing pavement repair or maintenance materials provided for in specific contract bid items. All traffic control items used for each Mobilization will be considered incidental to the Mobilization.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.009	Mobilizations Emergency Pavement Repair	EACH

Payment is full compensation for the staged moving of personnel, moving equipment, setting up and removing traffic control, traffic control materials, and moving materials. The department will pay separately for delivery and installation of pavement repair materials under the other bid items in this contract. The department will not pay separately for traffic control items and materials even though they may be included in other bid items in this contract and will consider them incidental to each Mobilization.

sef-999-025 (20170310)

74. Section Corner Monuments, Item SPV.0060.010.

A Description

Coordinate with Southeastern Wisconsin Regional Planning Commission (SEWRPC) for the perpetuation and replacement of a section corner (Public Land Survey System- PLSS) monument.

B Materials

SEWRPC will provide a pre-cast concrete monument or brass disk to be used to mark the PLSS corner.

Furnish base aggregate dense materials that conform to standard spec 305 and concrete, asphalt, topsoil or other materials depending on the surface surrounding the corner.

C Construction

SEWRPC will perpetuate existing section corner monument. The CONTRACTOR is responsible to coordinate with SEWRPC and the WisDOT Project Manager throughout the perpetuation and replacement process. The engineer will contact SEWRPC at (262) 953-4295 at least two weeks before starting construction operations or the preconstruction meeting to allow for section corner monument perpetuation.

CONTRACTOR must excavate and completely remove the existing monument. Contractor is responsible for providing a backfilled 3 to 4 foot deep hole where existing monument was removed. Contractor is responsible to coordinate the materials and methodology to complete the construction of the surface surrounding the monument. This may include but is not limited to a 2’ x 2’ “box out” or 24” diameter core hole in concrete, asphalt pavement/paving rings, coring to facilitate poured in place monuments, topsoil, seed and mulching or other materials or methodologies as agreed to by the contractor and SEWPRC.

Contact Information:

Attn: John Washburn
Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive
P.O. Box 1607
Waukesha, WI 53187-1607
Phone (262) 547-6721
Cell (262) 953-4295
Fax (262) 547-1103
E-mail: jwashburn@sewrpc.org

D Measurement

The department will measure Section Corner Monuments Special by the 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.0060.010	Section Corner Monuments	EACH

Payment is full compensation for all excavating; removal of existing monument, for placing and compacting backfill material; for disposing of surplus materials; for concrete or asphalt material, finishing of roadway or other surfaces, for all coordination with SEWRPC; and for furnishing all labor, tools, and equipment.

SER-621.1 (20170530)

75. Removing Cover Plates Left In Place, Item SPV.0060.012.

A Description

This section describes removing steel cover plates placed and left in place on storm sewer structures under previous contracts.

B (Vacant)

C Construction

Excavate and carefully remove steel cover plates at locations shown on the plan or as directed by the engineer. Saw cuts may be required to remove cover plates. Do not damage storm sewer structures and pipes while removing cover plates.

D Measurement

The department will measure Removing Cover Plates Left In Place as each unit removed, 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.0060.012	Removing Cover Plates Left In Place	EACH

Payment is full compensation for excavating, sawcutting, and disposing of excavated material and cover plates. Temporary cover plates placed under this contract are paid under that bid item and no payment will be made for those as part of this bid item. Placing new frame and grate, adjusting and/or reconstructing inlets or manholes are paid under appropriate bid items. No additional payments will be made for replacing damaged storm sewer structures and pipes when removing cover plates.

76. Connect Drain Tile, Item SPV.0060.013.

A Description

This special provision describes connecting existing drain tiles to proposed structures or proposed storm sewer pipes.

B (Vacant)

C Construction

Identify drain tile invert elevations through Drain Tile Exploration. Connect the exposed drain tile with the appropriate coupling, concrete collar or by means approved by the engineer to reestablish the connection. Use concrete masonry for concrete collar conforming to standard spec 520.2.4. Ensure that the connection does not negatively impact the current flow capacity of the drain tile.

D Measurement

The department will measure Connect Drain Tile as each new drain tile connection to a structure or pipe, acceptably completed. Measurement will include connections of new underdrain structures placed in previous stages of the project, in addition to pipe or structures constructed under previous projects.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.013	Connect Drain Tile	EACH

Payment is full compensation for performing all work; removing seals, end walls and concrete collars, providing all materials, couplings, concrete collars. Any additional pipe or materials required to connect the drain tile shall be considered incidental to this bid item. The new pipe that restores drainage will be paid separately under their respective bid items.

77. Inlet Covers Type 57, Item SPV.0060.015.

A Description

The work under these items shall be according to the requirements of standard spec 611 and the details as shown on the plans.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Inlet Cover (Types) by the unit in place, furnished, installed and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.015	Inlet Covers Type 57	EACH

Payment shall conform to standard spec 611.5.

78. Pipe Connection to Existing Structure, Item SPV.0060.016.

A Description

This special provision describes connecting new storm sewer pipe to existing structure.

B Materials

Conform to standard spec 608.2 and standard spec 611.2

C Construction

Conform to standard spec 607.3 and standard spec 611.3

D Measurement

The department will measure Pipe Connection to Existing Structure by each pipe connected, 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.0060.016	Pipe Connection to Existing Structure	EACH

Payment is full compensation for performing all work; excavation, backfilling, furnishing, masonry and fittings; disposing of surplus material, coring holes in existing structure to connect new pipe; and installing all materials, couplings, concrete collars, and pipe.

79. Manholes 9-Feet Diameter, Item SPV.0060.024.

A Description

This work shall consist of design and construction of either a cast-in-place or precast storm sewer structure made of concrete with necessary reinforcement, metal frames, grates and lids, including required excavating and backfilling.

B Materials

Conform to standard spec 611.2.

C Construction

Conform to standard spec 611.3.

D Measurement

The department will measure Manholes 9-Feet Diameter by 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.0060.024	Manholes 9-Feet Diameter	EACH

Payment is full compensation for structure design; providing all materials, including all masonry, for Grade "A" concrete adjustments and monolithic concrete shimming; conduit and sewer connections, steps and other fittings; for furnishing all excavating and backfill; disposing of surplus material; and for cleaning out and restoring the work site. The department will pay for covers, including frames, grates, and lids separately.

The department will apply contract unit prices without adjustments to the quantities of manholes constructed to depths not greater than one foot above or below the elevations shown on the plans. Manholes that the engineer orders constructed to a depth greater than one foot above or below elevations shown on the plans will be specified for extra work and paid for according to standard spec 109.4.

80. Concrete Base Monotube Type 9 & 10 Special Pole, Item SPV.0060.301.

A Description

This special provision describes constructing concrete bases for Monotube Type 9 & 10 Special Pole conform to standard spec 654, details shown in the plans.

B Materials

Materials shall be according to standard spec 654.

Department will furnish Anchor rods and templates

C Construction

Construction shall be according to standard spec 654.

D Measurement

The department will measure Concrete Bases Monotube Type 9 & 10 Special Pole at the contract unit price, 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.0060.301	Concrete Base Monotube Type 9 & 10 Special Pole	EACH

Payment is full compensation for providing concrete bases; for embedded conduit and electrical components; for nuts and washers; for bar steel reinforcement; and for excavating, backfilling and disposing of surplus materials.

81. Furnish Sanitary Manhole Cover, Item SPV.0060.601.

A Description

This work includes furnishing a standard sanitary sewer manhole frame and lid according to the Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition and amendments (SSSW), and as hereinafter provided.

B Materials

B.1 Frame and Lid

New sanitary manhole frame and lid where specified in the plans shall be supplied by the contractor. Use Neenah R-1580 with Type B solid lid. Sanitary sewer manhole lid shall be self-sealing, non-rocking, with two concealed pick holes. Frames for sanitary sewer manholes shall be compatible with the lids.

C Construction

The location of sanitary manhole covers to be furnished is indicated on the plans. Install and adjust these items as shown in the plans and in accord with the item Reconstruct Sanitary Manhole.

D Measurement

The department will measure Furnish Sanitary Manhole Cover as a unit for each individual manhole, acceptably furnished.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.601	Furnish Sanitary Manhole Cover	EACH

Payment is full compensation for furnishing all required materials including, frames and lids and other required materials.

82. Reconstruct Sanitary Manhole, Item SPV.0060.602.

A Description

This work includes reconstructing a sanitary manhole to an elevation as determined by the engineer, according to the Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition and amendments (SSSW), and as hereinafter provided.

B Materials

B.1 Manhole

Manhole barrel and cone sections shall be constructed of precast reinforced concrete sections. Precast manholes and tops shall conform to ASTM Specifications, C478, latest revision.

B.2 Adjusting Rings

Adjustment rings shall be concrete with steel reinforcement in conformance with ASTM C-478. Precast concrete rings shall have an inside diameter to match the manhole opening, be not less than 2 inches nor more than 6 inches high and have a wall thickness of 6 inches unless otherwise specified. The rings shall contain a minimum of one No. 2 reinforcing rod centered within the ring. Do not use any cracked or broken rings. The top of precast manhole cones shall be set a maximum of 18 inches lower than

established grade in unimproved areas, with the top of the manhole cover being ringed up flush with the existing ground. The minimum number of adjusting rings shall be one 2-inch ring. The maximum height of adjusting rings shall be 8 inches in paved areas. All joints between the adjusting rings shall be filled with grout or mortar, including between the cone and the adjusting ring and the adjusting ring and the frame. Rings shall be grooved to receive a step.

B.3 Manhole Seal

Furnish new internal frame/chimney seal as manufactured by Cretex Specialty Products. The seal shall meet the material requirements of section 8.42.3 and the performance requirements of section 8.42.4 of the SSSW.

B.4 Joints

Joints for precast manholes shall meet the requirements of ASTM C-443, latest revision, except that sealant shall be butyl rubber gasket or butyl rubber rope. Flexible butyl rubber gaskets or rope shall comply with the physical requirements for Type “B” gaskets in AASHTO Designation M-198, or Federal Specification SSS-00210-A, sealing compound, preformed plastic for expansion joints and pipe joints.

B.5 Steps

All manholes shall be provided with steps equally spaced vertically on center installed by the manufacturer as shown on the standard detail sheet. Steps shall be embedded into the riser or conical top section of the wall a minimum of 3 inches. Manhole steps shall meet the requirements of section 8.40.1 of the SSSW.

B.6 Elastomeric Waterproofing Sealer

Elastomeric waterproofing membrane shall be a single component, bitumen-modified, moisture-curing polyurethane similar to TREMproof 60 as manufactured by Tremco, 10701 Shaker Blvd., Cleveland, Ohio 44104; Duramem V500 as manufactured by Pecora Corporation, 2601 Oakland Avenue, Garland, Texas 75040; Thiodeck C.F. as manufactured by Toch/Carboline Company, 350 Hanley Industrial Court, St. Louis, Missouri 63144; or equal.

B.7 Plastic Sheet

Plastic sheet shall be clear plastic, minimum 4 mils. thick, of length and width to cover elastomeric waterproofing sealer.

B.8 Granular Backfill

Granular backfill shall consist of hard durable particles or fragments of stone, gravel, or sand. Granular backfill shall conform to the following grading requirements:

GRADING REQUIREMENTS FOR GRANULAR BACKFILL

	Percent
Sieve Sizes	Passing by Weight
3 inches	100
2 inches	95 – 100
No. 4	35 - 60
No.	200 5 - 15

C Construction

C.1 General

Reconstruct manholes to conform to the detail on the standard detail sheet and in the locations shown in the plans. Install Furnished Sanitary Manhole Cover.

C.2 Backfill

Backfill with granular backfill material. Place in suitable lifts not exceeding 8 inches loose depth and compact each lift to a minimum of 90 percent of maximum density as determined by AASHTO T 180. Compact with mechanical vibrating or impact tampers.

Remove all form materials and trash from the excavation before placing any backfill. Backfill around manholes only after the concrete has attained 2/3 of the specified compressive strength. Obtain the engineer's approval of concrete work and attained strength prior to backfilling. Backfill shall be brought up uniformly around manholes and structures to prevent unbalanced lateral loading.

Do not operate earth-moving equipment within 5 feet of walls of manholes for the purpose of depositing or compacting backfill materials. Compact backfill adjacent to concrete walls with hand-operated tampers or other equipment that will not damage the manhole.

C.3 Elastomeric Waterproofing Sealer

Elastomeric waterproofing sealer shall be applied to all gravity sewer manholes. Thoroughly sandblast the section of the manhole frame over which the sealer is to be applied, the manhole header, extension and cone and the top 12 inches of the manhole riser. All surfaces shall be free of dust, oil, rust, loose materials and other contaminants. Take necessary precautions to prevent rebound from the sandblasting operation to enter the sewer system. If the mortar between grade rings or brick courses is removed to a depth greater than 1/4 inch by the sandblasting, the joints shall be refilled with mortar as specified herein. All new masonry work shall be cured a minimum of 24 hours prior to applying the waterproofing sealer.

Apply the 4-inch wide bond breaker tape completely around the manhole circumference and centered over the mortar joint between the manhole frame and the manhole extension. Immediately before applying the sealer, wipe all surfaces with a cleaner and immediately prime. The cleaner and primer shall be furnished by the sealer manufacturer. Apply the sealer with a trowel, roller or by spraying to achieve a thickness of not less than 100 wet mils. Do not apply the sealer when the ambient temperature is below 40 degrees F. The sealer shall extend from 9 inches below the bottom of the manhole cone and be carried over the top and onto the flange of the frame a minimum of 5 inches.

Allow the sealer to cure a minimum of 24 hours before backfilling when the ambient temperature is above 70 degrees F, and 48 hours when the ambient temperature is below 70 degrees F. Immediately before backfilling, loosely wrap two layers of 4 mil plastic sheet over the sealed area to prevent direct contact between the sealer and the backfill material.

C.4 Manhole Seal

Seals shall cover from the frame across all rings and onto the cone.

D Measurement

The department will measure Reconstruct Sanitary Manhole as a unit for each individual manhole, 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.0060.602	Reconstruct Sanitary Manhole	EACH

Payment is full compensation for providing and installing all required materials including barrel sections, adjusting rings, internal frame/chimney seals, joints, steps, elastomeric waterproofing sealer, plastic sheet, and masonry and fittings; for salvaging and reinstalling existing or new covers, including frames and lids; for excavating, backfilling, and compacting; for furnishing and placing granular backfill; for disposing of surplus materials; and for cleaning out and restoring the structure.

83. Adjusting Sanitary Manhole; Item SPV.0060.603.

A Description

This work includes adjusting sanitary manholes to an elevation as determined by the engineer as well as installing frame and lid, internal frame/chimney seal, according to the Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition and amendments (SSSW) and as hereinafter provided.

Add or remove masonry adjusting rings as needed. This item applies to structures to be lowered less than 6 inches or raised less than 12 inches.

B Materials

B.1 Adjusting Rings

Adjustment rings shall be concrete with steel reinforcement in conformance with ASTM C-478. Precast concrete rings shall have an inside diameter to match the manhole opening, be not less than 2 inches nor more than 6 inches high and have a wall thickness of 6 inches unless otherwise specified. The rings shall contain a minimum of one No. 2 reinforcing rod centered within the ring. Do not use any cracked or broken rings. The top of precast manhole cones shall be set a maximum of 18 inches lower than established grade in unimproved areas, with the top of the manhole cover being ringed up flush with the existing ground. The minimum number of adjusting rings shall be one 2-inch ring. The maximum height of adjusting rings shall be 8 inches in paved areas. All joints between the adjusting rings shall be filled with grout or mortar, including between the cone and the adjusting ring and the adjusting ring and the frame. Rings shall be grooved to receive a step.

B.2 Manhole Seal

Furnish new internal frame/chimney seal as manufactured by Cretex Specialty Products. The seal shall meet the material requirements of section 8.42.3 and the performance requirements of section 8.42.4 of the SSSW.

B.3 Backfill Slurry

Backfill slurry shall meet the material and construction requirements of section 8.43.8 of the SSSW.

C Construction

C.1 General

The location of existing sanitary manholes to be adjusted is indicated on the plans. Adjust these items as shown in the plans. Adjust manholes as necessary so that the frames and lid when placed will be at the established required grade. Install seals according to the manufacturer’s recommended installation procedures. Furnish and use backfill slurry in the manhole excavation area to existing surface or to appropriate depth for pavement restoration. Salvage and reinstall existing frames and lids.

C.2 Surface Preparation

Remove manhole cover and power wire brush the lower 3 inches of the manhole frame to remove any loose rust or scale and repair any imperfections by either grinding smooth or filling with mortar. A smooth, clean sealing surface is required. Realign the casting if it is offset more than approximately 2 inches from the chimney. Remove all loose and protruding mortar and brick from the upper 7-Inch chimney and clean surface by power wire brushing. Provide a 4-Inch wide sealing surface starting 2 inches down from the bottom of the frame.

All sealing surfaces must be circular, reasonably smooth, clean and free of any loose material or excessive voids. If such a surface does not exist for the bottom of the sleeve to seal against, use one-component, quick-set, high strength, non-shrink, polymer modified patching mortar which has been formulated for vertical or overhead use. If the bottom of the sleeve is to seal against the top of an eccentric (straight side) cone and an inadequately high vertical surface does not exist, contact the manufacturer to obtain details to build the required vertical surface.

Use caulk to fill minor irregularities in the bottom sealing surface. The caulk shall be a butyl rubber caulk conforming to AASHTO M-198, Type B. Apply a single bead of the caulk to the center portion of the lower sealing surface of the sleeve.

Any flaws in the manhole frame, such as minor cracks, pits or protrusions, shall be repaired by either filling with mortar or grinding smooth.

C.3 Manhole Seal

Seals shall cover from the frame across all rings and onto the cone.

D Measurement

The department will measure Adjusting Sanitary Manhole as a unit per each adjustment, 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.0060.603	Adjusting Sanitary Manhole	EACH

Payment is full compensation for providing and installing all required materials including adjusting rings, internal frame/chimney seals, and masonry and fittings; for salvaging and reinstalling existing or new covers, including frames and lids; for excavating, backfilling, and compacting; for furnishing and placing backfill slurry; for disposing of surplus materials; and for cleaning out and restoring the structure.

84. Pavement Cleanup Project 1320-23-70 Item SPV.0075.001; Pavement Cleanup Project 1320-23-73, Item SPV.0075.002.

A Description

This special provision describes cleanup of dust and debris from pavements as the engineer directs.

B Materials

B.1 Pavement Cleanup

Furnish a vacuum-type street sweeper equipped with a power broom, water spray system, and a vacuum collection system.

Use vacuum equipment with a self-contained particulate collector capable of preventing discharge from the collection bin into the atmosphere.

Use a vacuum-type sweeper as the primary sweeper, except as specified in this special provision or approved by the engineer.

C Construction

C.1 Surveillance

Provide daily surveillance of active haul routes to identify if material is being tracked from the jobsite. Document the condition of the roads and all sweeping recommendations in a daily report. Submit reports to the engineer daily, including hourly metered tickets for that day’s sweeping activities.

C.2 Pavement Cleanup

Keep all pavements, sidewalks, driveways, curb lanes and gutters within the project boundaries, free of dust and debris generated from all activity under the contract.

Conduct sweepings as the engineer directs or approves, to eliminate dust problems that might arise during off-work hours or emergencies. Provide the engineer with a contact person available at all times to respond to requests for emergency sweeping. Coordinate with engineer to determine deadlines for responding to emergency sweeping requests and cleaning up spillage and material tracked to/from the project.

Skid steers with mechanical power brooms may only be used on sidewalks and driveways whose pavements will not support the weight of a street sweeper, unless otherwise approved by the engineer. Do not dry sweep. Ensure all broomed equipment used for sweeping has a functioning water bar.

D Measurement

The department will measure Pavement Cleanup (Project) by the hour, acceptably completed and only with prior approval by the engineer.

Tickets shall include:

- Date
- Company
- Operator name
- Equipment make/model
- Routes swept
- Total hours.

Total hours shall be to the nearest 0.25 hour that work under this item was performed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0075.001	Pavement Cleanup Project 1320-23-70	HR
SPV.0075.002	Pavement Cleanup Project 1320-23-73	HR

Payment is full compensation for daily surveillance; preparing and submitting the daily surveillance report with hourly metered tickets; mobilization; sweeping; and disposing of materials.

sef-104-006 (20170323)

85. Heavy Duty Silt Fence, Item SPV.0090.001.

A Description

This special provision describes the delivery, installation, maintenance, and removal of Heavy Duty Silt Fence. Install fence as directed by the engineer. Do not remove fence until directed by the engineer.

B Materials

Provide Heavy Duty Silt Fence consisting of a composite of woven wire fence fabric, posts, geotextile, fasteners, and to be assembled by the contractor. Woven wire fence fabric shall be a standard field fence type a minimum of 4 feet high, a maximum mesh spacing of 6-inches and minimum 14-$^1/_2$ gauge wire.

Provide “studded tee” or “U” type metal posts with a minimum length of 7 feet –6 inches and a minimum weight of 1.3 lb/ft.

Provide geotextile fabric meeting the following requirements:

Property	Unit	Test Method	Minimum Average Roll Value
Grab Tensile Strength	LB.	ASTM D4632	380
Grab Tensile Elongation	%	ASTM D4632	50
Puncture Strength	LB.	ASTM D4833	240
Trapezoid Tear Strength	LB.	ASTM D4533	145
Apparent Opening Size	U.S. Standard Sieve	ASTM D4751	170 (0.09 mm)
Permittivity	sec^{-1}	ASTM D4491	0.7
Water Flow Rate	$Gal/min/ft^2$	ASTM D4491	50
UV Resistance after 500 hours	% strength retained	ASTM D4355	70

Furnish a manufacturer’s Certified Report of Test or Analysis that the geotextile fabric delivered for use in the work meets the above requirements to the engineer at least 15 days prior to use in the work. Provide geotextile fabric bearing markings to clearly identify it with the applicable test report furnished to the engineer.

Supply material in 15’9” wide rolls and cut in half.

C Construction

Install the Heavy Duty Silt Fence as directed by the engineer and shown on the attached detail drawing. Space ties and anchors to adequately support system. Include or add acceptable guy lines, where required, for additional support.

Maintenance work, when required, will be specified on erosion control orders. Maintenance includes replacement of failed 12GA wire ties; re-anchoring of metal posts (standing lying sections back-up); entrenchment of the bottom fabric; and guy line repairs, if required. Geotextile fabric and woven wire fence fabric replacement not required for maintenance.

D Measurement

The department will measure Heavy Duty Silt Fence by the linear foot, acceptably completed. The department will measure along the base of the fence, center-to-center of end post, for each section of fence.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.001	Heavy Duty Silt Fence	LF

Payment is full compensation for all furnishing, assembling, erecting, maintaining, and removal of the silt fence; and for anchoring the silt fence.

86. Pipe Underdrain 6-Inch Special, Item SPV.0090.002.

A Description

This special provision describes providing necessary subsurface drainage by constructing trenches, placing the required geotextile fabric, installing the designated pipes or drainage devices, connecting the wrapped underdrain to receiving structures, providing cored connection holes, back-plastering and or mortaring connections to storm sewer structures (both on the external and internal sides of the receiving structure), providing and installing PVC or HDPE fittings, and caps or plugs ,for excavating, plowing, backfilling the trenches with the specified backfill material according to standard spec 310, 612 and 645, salvaging; disposing of surplus material; and restoring the work site as shown on the plans and details, and as hereinafter provided.

B Materials

B.1 Base Aggregate

Use only base aggregate open graded conforming to standard spec 310.2.

B.2 Geotextile Fabric

Utilize geotextile fabric consisting of Type DF Schedule A and conforming to standard spec 645.2.4. Completely wrap the installation trench with geotextile fabric.

C (Vacant)

D Measurement

The department will measure Pipe Underdrain 6-Inch Special by the linear foot, acceptably completed. The department will measure along the centerline of the pipe, center to center of junctions and fittings.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.002	Pipe Underdrain 6-inch Special	LF

Payment is full compensation for providing, handling, and placing all materials, including pipe, base aggregate open graded, geotextile fabric Type DF Schedule A, providing cored connections, making all necessary connections to the receiving structures, performing back-plastering and or mortaring of wrapped underdrain connections to storm sewer structures, providing and installing all fittings, and caps or plugs; for furnishing all excavating, plowing, and re-compacting, salvaging; disposing of surplus material; and restoring the work site.

87. Survey Project 1320-23-70, Item SPV.0105.001; Survey Project 1320-23-73, Item SPV.0105.002.

A Description

This special provision describes modifying standard spec 105.6 and 650 to define the requirements for construction staking for this contract. Conform to standard spec 105.6 and 650 except as modified in this special provision.

Replace standard spec 650.1 with the following:

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for all aspects of construction including**:**

- storm sewer
- subgrade
- base
- curb
- gutter
- curb and gutter
- curb ramps
- pipe culverts
- drainage structures
- structure layout
- bridges
- all retaining wall layout
- pavement
- pavement markings (temporary and permanent)
- barriers (temporary and permanent)
- overhead signs
- freeway and local street lighting
- electrical installations
- supplemental control
- slope stakes
- detention ponds
- traffic signals
- ITS
- FTMS
- paths
- utilities
- conduit
- landscaping elements
- installation of community sensitive design elements
- traffic control items
- fencing
- multi-use path

B (Vacant)

C Construction

Supplement standard spec 650.3.1 (5) with the following:

Global positioning methods will not be allowed to establish the following:

1. Structure layout horizontal or vertical locations.
2. Concrete pavement vertical locations.
3. Curb, gutter, and curb and gutter vertical locations.
4. Concrete barrier vertical locations.
5. Storm Sewer layout horizontal or vertical locations, including structure centers, offsets, access openings, rim and invert elevations.

Replace standard spec 650.3.1(6) with the following:

(6) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. This includes:

- Raw data files
- Digital stakeout reports
- Control check reports
- Supplemental control files (along with method used to establish coordinates and elevation)
- Calibration report

Make the survey notes and computations available to the engineer within 24 hours as the work progresses unless a longer period is approved by the engineer.

Replace standard spec 650.3.3.1 with the following:

Under the Survey Project bid item, global positioning system (GPS) machine guidance for conventional subgrade staking on all or part of the work may be substituted. The engineer may require reverting to conventional subgrade staking methods for all or part of the work at any point during construction if the GPS machine guidance is producing unacceptable results.

Replace standard spec 650.3.3.3.4.1 with the following:

The department will provide the contractor staking packet as described in the Construction and Materials Manual (CMM) 7.10. At any time after the contract is awarded, the available survey and design information may be requested. The department will provide that information within 5 business days of receiving the contractor's request. The department incurs no additional liability beyond that specified in standard spec 105.6 or standard spec 650 by having provided this additional information.

Add the following to standard spec 650.3.3.3.6.2 as paragraph (4):

Record all subgrade elevation checks and submit a hard copy to the engineer within 24 hours or as requested by the engineer.

D Measurement

Replace standard spec 650.4 with the following:

(1) The department will measure Survey Project (project ID) as a single lump sum unit of work, acceptably completed.

E Payment

Replace standard spec 650.5 with the following:

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0075.001	Survey Project 1320-23-70	LS
SPV.0075.002	Survey Project 1320-23-73	LS

Payment is full compensation for performing all survey work required to lay out and construct all work under this contract and for adjusting stakes to ensure compatibility with existing field conditions. The department will not make final payment for this item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 24 hours of completing this work. Re-staking due to construction disturbance and knock-outs will be performed at no additional cost to the department.

sef-650-005 (20180104)

88. Transport and Install State Furnished Traffic Signal Cabinet STH 11 & Wisconn Valley Way, Item SPV.0105.306; Transport and Install State Furnished Traffic Signal Cabinet STH 11 & International Drive, Item SPV.0105.311.

A Description

This special provision describes the transporting and installing of department furnished materials for traffic signals as the plans show and as follows.

B Materials

Use materials furnished by the department including: the traffic signal controller and the traffic signal cabinet.

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five working days prior to picking the materials up.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

Request a signal inspection of the completed signal installation to the engineer at least five (5) working days prior to the time of the requested inspection. The departments' Region Electrical personnel will perform the inspection.

Coordinate directly with the department's traffic signal cabinet vendor {TAPCO at (262) 814-7327 or rickk@tapconet.com / TCC at (651) 439-1737 or mallwood@trafficcontrolcorp} to schedule the cabinet acceptance testing. Coordinate with the department's Electrical Field Unit at (414) 266-1170 to participate in the acceptance testing. The department has final determination of the cabinet acceptance testing date and time.

D Measurement

The department will measure Transport and Install Traffic Signal Cabinet [Location] as a single lump sum unit of work, in place and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.306	Transport and Install State Furnished Traffic Signal Cabinet STH 11 & Wisconn Valley Way	LS
SPV.0105.311	Transport and Install State Furnished Traffic Signal Cabinet STH 11 & Internationa Drive	LS

Payment is full compensation for transporting and installing the traffic signal controller and the traffic signal cabinet; for furnishing and installing all other items necessary (such as, wire nuts, splice kits and/or connectors, tape, insulating varnish, ground lug fasteners, etc.) to make the proposed system complete from the source of supply to the most remote unit and for clean-up and waste disposal.

SER-658.5 (20170419) ELEC

89. Transport and Install State Furnished Radar Detection System STH 11 & Wisconn Valley Way, Item SPV.0105.307; Transport and Install State Furnished Radar Detection System STH 11 & International Drive, Item SPV.0105.312.

A Description

This special provision describes the transporting and installing of department furnished Radar Detection System on monotube poles or arms as the plans show and as follows.

B Materials

Pick up the department furnished Radar System at the department's electrical shop located at 935 South 60th Street, West Allis. Notify the department's electrical field unit (EFU) at (414) 266-1170 to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Install the department furnished pole/arm mounting brackets, extension arms (if required), and radar units per manufacturer recommendations in the locations determined by the department.

Install the power and communication cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an additional 16-feet in each pull box and an extra 10-feet in the pole handhole. Install the detector unit cable whip from the detector unit to the pole handhole. Splice the detector unit cable whip to the power and communication cable in the pole handhole using the provided junction box.

Mark each end of the lead in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (i.e. RA1, RA2, etc.) on the plans. For a cabinet that is not operating the signal, the contractor will terminate the ends. If the cabinet is operating the signal, the cabinet wiring will be done by the department.

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation and aiming of the radar units.

The department will provide the vendor's contact information. Coordinate directly with the department's radar detection system vendor to arrange for the vendor to program the radar detection system on site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with fine adjusting of the radar units during the radar system programming, if necessary.

D Measurement

The department will measure Transporting and Installing State Furnished Radar Detection System [Location] as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.307	Transport and Install State Furnished Radar Detection System STH 11 & Wisconn Valley Way	LS
SPV.0105.312	Transport and Install State Furnished Radar Detection System STH 11 & International Drive	LS

Payment is full compensation for transporting and installing the radar detection system, cable, mounting hardware, and radar units; and assisting the department and vendor during the radar system programming.

SER-658-004 (20170419)

90. Transport and Install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons STH 11 & Wisconn Valley Way, Item SPV.0105.308; Transport and Install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons STH 11 & International Drive, Item SPV.0105.313.

A Description

This special provision describes transporting and installing department furnished Emergency Vehicle Preemption (EVP) Detector Heads, Confirmation Beacons, and mounting brackets at STH 11 & Wisconn Valley Way as the plans show and as follows.

B Materials

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five working days prior to picking the materials up.

C Construction

Install the EVP detector heads and confirmation beacons as shown on the plans. The department will determine the exact location to ensure that the installation does not create a sight obstruction. Mount the EVP detector heads and wire them per manufacturer instructions. Mount the confirmation beacons. For a cabinet that is not operating the signal, the contractor will terminate the ends and install the discriminators and card rack in the cabinet. If the cabinet is operating the signal, the cabinet wiring will be done by the department.

Notify the department's Electrical shop at (414) 266-1170 upon completion of the installation of the Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons.

D Measurement

The department will measure Transport and install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons [Location] as a single lump sum unit and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.308	Transport and Install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons STH 11 & Wisconn Valley Way	LS
SPV.0105.313	Transport and Install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads with Confirmation Beacons STH 11 & International Drive	LS

Payment is full compensation for transporting and installing department furnished Emergency Vehicle Preemption (EVP) Detector Heads, Confirmation Beacons, and mounting brackets.

91. Transport and Install Traffic Signal, Monotube, and Intersection Lighting Materials STH 11 & Wisconn Valley Way, Item SPV.0105.309; Transport and Install Traffic Signal, Monotube, and Intersection Lighting Materials STH 11 & International Drive, Item SPV.0105.314.

A Description

This special provision describes the transporting and installing department furnished materials for traffic signals, monotubes, and intersection lighting.

B Materials

Transport materials furnished by the department including: monotube arms/poles and luminaire arms (to be installed on monotube assemblies).

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials a minimum of five working days prior to picking the materials up.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

Provide everything not furnished by the department required to complete the installation as the plans show.

Install the department-furnished components indicated in the special provisions. Also provide high-strength bolts and DTIs, fittings, either aluminum or galvanized steel shims, hardware, and other components the department does not furnish but that are required to complete the installation as the plans show.

D Measurement

The department will measure Transport and Install Traffic Signal, Monotube, and Intersection Lighting Materials [Location] as a single lump sum unit 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
SPV.0105.309	Transport and Install Traffic Signal, Monotube, and Intersection Lighting Materials STH 11 & Wisconn Valley Way	LS
SPV.0105.314	Transport and Install Traffic Signal, Monotube, and Intersection Lighting Materials STH 11 & International Drive	LS

Payment is full compensation for transporting and installing the monotube poles/arms and luminaire arms (to be installed on monotubes).

SER-658.2 (20170414) ELEC

92. Maintain Field Office Left in Place Special Project 1320-23-70, Item SPV.0135.001; Maintain Field Office Left in Place Special Utility Fees Project ID 1320-23-70, Item SPV.0055.001.

A Description

This special provision describes maintaining and equipping a field office facility assembled from modular field office units left in place from a previous contract, coordination of transfer from the previous contractor, and coordination of transfer to a future contractor. The field office is located at the old park and ride lot at the southeast quadrant of I94 and STH 11.

B Materials

The following facilities, equipment, supplies, and maintenance services are anticipated to be left in place from the previous contractor and continued under this contract:

1. Field office constructed of 6 modular office building units. Total area of approximately 4,320 square feet interior useable floor space, including shared spaces, such as office areas, storage areas, conference rooms, meeting areas, hallways, and temporary toilet facilities.
    a. Maintain these facilities with suitable natural and artificial lighting.
    b. Provide adequate heating and air conditioning equipment and fuel or power necessary to maintain a temperature range from 68 F to 80 F in all units.
    c. All components of the heating and air-conditioning system, shall be maintained by the contractor, including monthly replacement of filters.
    d. Doors and windows with locks.
    e. Exterior doors with dead bolt locks and an integrated proximity keypad access control system for entry.
    f. All windows shall be barred.
    g. Skirting for exterior of the modular units.
    h. Fire Alarms and Smoke Detectors per all local, state, and federal applicable health, fire, and building codes and standards.
    i. Windstrap tie downs for Modular Office Building Units.
    j. First aid kit in each field office, readily accessible to project personnel per OSHA 1910.151 and meeting the minimum requirements of ANSI Z308.1-1998. Check and replenish the contents of each kit at least once a week. Ensure that each kit contains, at a minimum, a supply of nitrile examination gloves, CPR masks, adhesive tape, pressure and cling bandages, antiseptic wipes, bite/sting swabs, cold packs, and safety goggles.
    k. 6-pound or larger fire extinguisher in each modular unit, conforming to class A, B, and C of the NFPA Code. Inspection and maintenance of all fire extinguishers shall be incidental to the field office.

l. Main entrance wood stairway and ramp, constructed with 2”x6” and 4”x4” pressure treated wood types with various lengths. Stairs and ramp to remain ADA compliant and built per municipal building codes, and OSHA compliant railings required around perimeter of stairs and ramp.
m. Meeting Area: includes 10-72” x 30” wood tables and 50 stacking chairs to accommodate regularly scheduled meetings of up to 50 people. Includes a wireless ceiling mounted 1080-pixel liquid crystal display projector with a minimum of 3,000 lumens, a 4’ x 8’ white board, and phone jack. Minimum space of 30’ x 20’ needed for Meeting Area 1.
n. Common area with desk and phone jack at the main entrance of the office.
o. 9 private rooms with a minimum of 120 sf each, 2 private rooms with a minimum of 120 sf each, 2 storage/server rooms with a minimum of 50 sf each, kitchen area; all rooms equipped with 3 110V electrical outlets. Interior doors to these rooms shall have locks, independent of the main access key security.
p. Access controlled server room with a minimum of 50 sf. The server room shall be equipped with an uninterruptable power supply, and 110 V electric outlets sufficient to run all necessary equipment.
q. The following office equipment distributed amongst the 11 private rooms: 22-72” x 30” wood tables, 18 office chairs, 6 four-shelf bookcases, 6 large lockable wood storage cabinets, and 6-4’ x 3’ whiteboards with dry-erase markers.
r. Minimum 30 high speed broad band internet connections with a minimum download connection speed of 100 Mbps download, and 10 Mbps for uploads.
    i. Includes one communications pull box and up to 200 LF of trenched 2” rigid non-metallic conduit to accommodate the internet service to the field office.
    ii. Use the state provided internet service provider, Badger Net, a BITS approved Dynamic IP Address (DHCP), a wireless router, a Digital Subscriber Loop (DSL) or Cable Modem Router.
    iii. The package will accommodate IPSec based VPN products.
    iv. The department will provide the internet service to the field office.
    v. Contact Keith Waier at (608) 266-2492, two weeks in advance of transferring the field office from the previous contract.
s. 4 four-line programmable touch-tone telephones and telephone exchanges with local and long-distance service. At least one will be a cordless type operating at least 2.4 GHz. The voice exchanges are to be configured so that the incoming calls for any voice exchange utilize an open exchange. Includes a voice mail answering service. The telephones and the communication services are for the sole use of the department staff.
t. 2 wireless high-capacity color printer/photocopier/scanner capable of printing and copying up to 11" x 17" paper, with the ability to perform duplexing, sorting, stapling, and multiple sheet auto feeding, with a built-in scanner with the capability to scan black and white and color up to 11" x 17" at a minimum of 1200dpi, and with a network connection.
u. Provide and maintain an adequate supply of bottled drinking water.
v. 1 refrigerator with a minimum 18 cubic foot capacity, including a freezer.
w. 2 microwave ovens with a minimum 1.1 cubic foot capacity, a minimum of 1000 watts, and a removable glass turntable.
x. Maintain the field office equipment and provide supplies for the photocopiers (paper and ink) as requested by the engineer.

2. External power and landline data sources for the facility.
    a. Standalone meter pedestal for the power service
    b. One standalone shipping container, to serve as power/transformer and telecom data room with distribution panels to service entire distribution of field office.
    c. This standalone unit shall have a single access and secured main door.
    d. Walls lined with ¾” fired rated plywood for attaching of electrical items.
    e. All cabling to be run with rigid PVC conduit as per local codes.
3. One of the 6 modular office units will serve as a temporary lavatory, including separate men’s and women’s temporary bathroom facilities.
    a. The water and septic lines to all units must withstand freezing conditions and remain operational during freezing conditions.
    b. Provide; maintain in clean good working condition; and stock lavatories with sanitary supplies, including a sufficient supply of soap; hand sanitizer; toilet paper; and paper towels.
    c. The on-site sanitary facilities must meet Federal, State, and local health department requirements at all times. Sanitary facilities must be emptied/replenished as needed based on field office usage.
    d. Comply with OSHA standards for number of sanitary facilities required.

4. Clearly marked recycling and waste receptacles within the field office, and separate recycling and waste dumpsters near the field office. Outdoor containers shall be covered to keep out rain, and snow. Provide regularly scheduled recycling and waste pick-up.
5. Adjacent, no-fee, lighted parking lot large enough to accommodate the needs of the field office at peak usage, as approved by the engineer. Maintain the parking lot and egress, including snow removal and salting of the parking lot and entrance steps/deck of the field office.

By submitting a bid, the contractor takes ownership of the as-is condition of the building components and assumes responsibility for all maintenance requirements. Contact information for the previous contractor is: Ryan Peterson, ryan.peterson@jpsbp, (715) 965-6626. Contact information for the department is: Sean Race, sean.race@dot.wi.gov, (414) 750-2380. Contact the department to request a review of the field office facilities.

C Construction

Upon execution of this contract, coordinate transfer of all field office facilities, equipment, supplies, services, utilities, and incidentals from the Braun Rd contract 2704-09-70 (EFR to CTH H) to this contract.

Maintain the field office for department use until the engineer directs transfer to a future contract. Repair or replace any office equipment damaged by routine use. Coordinate transfer of the Maintain Field Office Left in Place Special to the future contractor, including all parking; lighting; field office units; office supplies, equipment, and furniture; lavatory supplies and equipment; secured access; telecommunications and IT equipment and services; utility services; cleaning and maintenance services; and all incidentals listed within this special provision.

Provide professional weekly cleaning of the field office during regular business hours. Routine cleaning of the floors and mats of the trailer as requested by the engineer.

Under the Maintain Field Office Left in Place Special Utility Fees item, provide payment for phone and electric utility charges. Provide paid invoices to the engineer for reimbursement.

Any and all service requests shall be addressed and serviced within a 24 hour time period from time of notification.

These field facilities are for the sole use of the department. The field office shall remain available for the department under this contract until the engineer approves its transfer to a future contract.

D Measurement

The department will measure Maintain Field Office Left in Place Special by the month, or partial month where applicable, acceptably completed. The department will measure Maintain Field Office Left in Place Special Utility Fees by the dollar based on submitted paid invoices for phone and electric.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0135.001	Maintain Field Office Left in Place Special Project 1320-23-70	MON
SPV.0055.001	Maintain Field Office Left in Place Special Utility Fees Project 1320-23-70	DOL

Payment for Maintain Field Office Left In Place Special is full compensation for equipping, securing and providing employee access, cleaning and maintaining the facility and associated parking lot; for maintaining telecommunications equipment; and for maintaining and providing all incidentals, including bottled water, refrigerator/freezer, microwave, fuel, safety, ventilation, maintenance of temporary toilet facilities, and office supplies as well as equipment and furniture as required, either independently or jointly, for coordination and transfer of all Maintain Field Office Left In Place Special facilities and utilities from the previous contractor, and for coordination and transfer of all Maintain Field Office Left in Place Special facilities and utilities to a future contractor. Payment also includes setting up utility accounts and providing paid invoices. Utility fees will be reimbursed under the Maintain Field Office Left in Place Special Utility Fees bid item.

Payment for Maintain Field Office Left in Place Special Utility Fees is reimbursement for submitted paid invoices. Payment will only be made for the actual value of the invoice and only applies to electrical and phone utilities. Costs for other services are incidental to the Maintain Field Office Left in Place Special bid item.

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93. Removal and Disposal of Invasive Plant Species, Item SPV.0170.001.

A Description

(1) This work shall consist of removing and disposal of invasive plant species, including but not limited to Phragmites, Cut-leaved teasel and Wild Parsnip per the Invasive Species Identification, Classification, and Control Rule (Chapter NR 40, Wis. Adm. Code). Plants shall be removed and disposed from areas designated as follows. It shall include furnishing all necessary materials and performing all necessary work such as excavating topsoil, cutting stems, removing individual plants including roots, disposing of plants, and such work necessary and incidental to complete the item according to the plans, specifications, and contract.

B (Vacant)

C Construction

(1) The WDNR Liaison will determine locations of invasive plant species.

C.1 Removing and Disposing of Phragmites (Common Reed)

(1) All phragmite plants shall be removed from areas designated by the WDNR Liaison. Removal of phragmites shall include removal of the entire plant and root system. Removal shall be performed by removal of all existing topsoil and plant biomass from the areas designated by the WDNR Liaison. Topsoil and biomass removed from invasive plant areas shall be kept in a separate stockpile than topsoil intended for reuse on the project under the Salvaged Topsoil item.

(2) All plants removed shall be disposed either on-site under a minimum of 5 feet of fill or plants shall be taken to a solid waste landfill. Transport of plants to any location other than a licensed landfill shall require approval by the WisDNR. Disposal of plants under fill or at a licensed landfill shall occur within 1 day of removal.

C.2 Removing and Disposing of Cut-leaved Teasel and/or Wild Parsnip

(1) All Cut-leaved Teasel and/or Wild Parsnip plants shall be removed from areas designated by the WDNR Liaison. Removal of Cut-leaved Teasel and Wild Parsnip shall by cut at the stem or completely excavated. Removal shall be performed by either removal of each individual plant by hand or by removal of all existing topsoil and plant biomass from the areas designated by the WDNR Liaison. If excavation methods are used to remove plants, the topsoil shall be kept in a separate stockpile than topsoil intended for reuse on the project under the Salvaged Topsoil item.

(2) All plants removed shall be disposed either on-site under a minimum of 5 feet of fill or plants shall be taken to a solid waste landfill. Transport of plants to any location other than a licensed landfill shall require approval by the WisDNR. Disposal of plants under fill or at a licensed landfill shall occur within 1 day of removal.

C.3 Wild Parsnip Safety

(1) Care shall be taken when handling Wild Parsnip. When sap contacts skin in the presence of sunlight, it can result in severe rashes, blisters, and discoloration of the skin (phytophotodematitis). Wear gloves, long sleeves, and long pants when handling this species.

C.3 404 Permit

(1) Areas of invasive species designated by the WDNR Liaison may be outside of wetland fill areas covered under the 404 permit. Excavation shall not be performed in these areas. For Cut-leaved Teasel and Wild Parsnip in these areas, the plants shall be cut at the stem, removed and disposed according to Section C.2.

C.5 DNR Contact

(1) A minimum of two weeks prior to excavation within invasive plant species areas, contact WisDNR for identification and delineation of invasive species in the field. The DNR contact is:

Kristina Betzold
Environmental Analysis and Review Specialist
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212
Phone: (414) 507-4946
krisitna.betzold@wisconsin.gov

D Measurement

The department will measure Removal and Disposal of Invasive Plant Species by the full 100-foot station, acceptably completed, measured along the roadway reference line with each full 100-foot station starting and ending at a +00 station. Measurement will be along the roadway reference line, and will apply to removals that are done outside of topsoil removal limits.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0170.001	Removal and Disposal of Invasive Plant Species	STA

(2) Payment is full compensation for removing, stockpiling, excavating, loading, hauling, and either on-site disposal or licensed landfill disposal of these invasive plants.

If invasive plants are removed by excavation methods, the department will pay for restoring topsoil under the Salvaged Topsoil or Topsoil items.

94. Topsoil Special, Item SPV.0180.001.

A Description

This special provision section describes furnishing, placing, spreading, and finishing humus-bearing soil, adapted to sustain plant life, commonly known as topsoil, from locations the contractor furnishes beyond the limits of the right-of-way.

This special provision also describes removing topsoil from the sites of proposed roadway excavations and embankments in quantities and depths available and necessary to cover the work slopes. This work also includes reclamation, placing, spreading, and finishing of this topsoil.

B Materials

Furnish material that is relatively free from large roots, sticks, weeds, brush, stones, litter, and waste products.

Furnish material, either obtained offsite, or material obtained within project limits, consisting of loam, sandy loam, silt loam, silty clay loam, or clay loam humus-bearing soils adapted to sustain plant life. Do not use surface soils from ditch bottoms, drained ponds, and eroded areas, or soils which are supporting growth of NR 40 listed plants and noxious weeds or other undesirable vegetation. Ensure that the material conforms to the following:

Topsoil Requirements	Minimum Range	Maximum Range
Material Passing 2.00 mm (#10) Sieve[1]	90%	100%
PH Range	6.0	8.0
Organic Matter[2]	5%	20%
Clay	5%	30%
Silt	10%	70%
Sand and Gravel	10%	70%

[1] See standard spec 625.3.3 for sieve requirements when using either sod or seed mixture 40.

[2] Organic matter determined by loss on ignition test of samples oven dried to constant weight at 212 F (100 C).

C Construction

C.1 Preparing the Roadway for Topsoil

Undercut or underfill all areas designated to receive topsoil to a degree that if covered to the required depth with topsoil the finished work conforms to the required lines, grades, slopes and cross sections the plans and drawings show.

C.2 Processing Topsoil

Mow topsoil procurement areas to a height of approximately 6 inches. Remove litter such as brush, rock, and other materials that will interfere with subsequent vegetation establishment.

Strip off the humus-bearing soil. Take care to minimize removing the underlying sterile soil. Then stockpile the topsoil on the right-of-way or place it directly on the designated areas.

Obtain topsoil from embankment areas outside the roadway foundation only if that additional material is required to cover the slopes, and conforms to the requirements of section B in this special provision. Use excess topsoil on the project or dispose of as specified in standard spec 205.3.12.

C.3 Placing Topsoil

After preparing and finishing the areas designated for topsoil to the required lines, grades, slopes and cross section, place and spread the topsoil to a uniform depth as the plans show or the contract requires. If no depth is shown, place and spread the topsoil to a minimum depth of 4 inches in rural areas and a minimum depth of 6 inches in urban areas, or as the engineer designates.

Break down all clods and lumps using appropriate equipment to provide a uniformly textured soil.

Where using either sod or seed mixture 40 ensure that, for the upper 2 inches, 100 percent of the material passes a one-inch sieve and at least 90 percent passes the No. 10 sieve.

Remove rocks, twigs, foreign material, and clods that cannot be broken down. Dress the entire surface to present a uniform appearance. The engineer will not require rolling.

If light sandy soils are covered with heavier clay bearing loam topsoil, then mix or blend the 2 types of soils to a more or less homogeneous mixture by using the appropriate equipment.

D Measurement

The department will measure Topsoil Special by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.001	Topsoil Special	SY

Payment for Topsoil Special is full compensation for removing, stockpiling, reclaiming, providing, processing, excavating, loading, hauling, and placing this material; and for undercutting excavations, or underfilling embankments necessary to receive this material. The department will make no deductions from the Excavation bid items for quantities of Topsoil Special obtained from cut sections. The department will not measure or pay for volumes of Topsoil Special obtained from the sites of proposed embankments under the Excavation bid items. Additionally, the department will make no allowance, adjustment, or measurement for payment under the Excavation bid items for undercutting cut sections necessary to receive Topsoil Special. The department will not measure and pay for volumes of topsoil placed under the Roadway Embankment bid item.

If an area is damaged by erosion after partial acceptance, the department will pay for restoring topsoil in these areas at a unit price determined by multiplying the contract unit price bid for Topsoil multiplied by 3, the department will pay for restoration under the Restoration Post Acceptance Topsoil administrative item.

The department will not pay for removing topsoil from outside the roadway foundation in embankment areas unless that material is necessary to cover the slopes.

sef-625-005 (20170310)

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 PROVISIONS 5

Fuel Cost Adjustment

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is $2.15 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

(1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.

(2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.

(3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.

(4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left(\frac{CFI}{BFI} - 1\right) x\ Q\ x\ BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

ADDITIONAL SPECIAL PROVISION 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

104.10.2 Submittal and Review of a CRI Concept

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

(2) The department will review the CRI concept and, within 10 business days of the contractor's initial submittal, notify the contractor in writing whether the CRI concept has merit and whether the contractor should submit it as a CRI proposal. The contractor and the department can mutually agree to extend this 10-day review requirement. The department will notify the contractor if a professional engineer registered in the state of Wisconsin should seal the CRI proposal. If the department informs the contractor to submit the CRI proposal, the department will share in the cost for developing the CRI proposal as specified in 104.10.4.1(3).

107.14 Contractor's Responsibility for Work

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

(1) Within 107.14, the term "work" is redefined to mean "the work product that is completed in its final position and is incorporated in the project."

(2) The contractor shall maintain charge and care of the work until the engineer accepts the work as specified in 105.11. Protect the work against injury or damage caused by public traffic, the action of the elements, or from other causes, whether arising from the execution or non-execution of the work. Rebuild, repair, restore, and make good injuries or damages to work caused by the above at no additional cost to the department.

(3) The department will assume responsibility for the work as follows:

1. Costs the department assumes under 104.6.
2. Costs to repair bridge damage attributed to public traffic, if the engineer determines that damage was beyond the control of and without the fault of the contractor.

(4) The contractor shall not bear the expense for damage to the work caused by abnormal and unforeseeable occurrences beyond the control of, and without the fault or negligence of, the contractor. These abnormal and unforeseeable occurrences include but are not limited to the following:

1. Cataclysmic phenomena of nature.
2. Acts of the public enemy.
3. Acts of government authorities.

(5) Before suspending the work, take the necessary precautions to prevent damage to the project, prevent traffic accidents, and provide for normal drainage. Erect necessary temporary barrier, barricades, signs, or other facilities at no expense to the department except as specified in 104.6.

(6) The contractor is responsible for all damages to equipment and supplies regardless of the circumstances.

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 June 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	[1]

[1] Use the product specific bead application rate for wet reflective epoxy specified on the department's APL.

646.3.2.3.2 Wet Reflective Epoxy

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

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

1. Wet reflective/recoverable elements at the application rate specified in the department's APL.
2. Glass beads conforming to 646.2.2 at the application rate specified in the department’s APL.

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: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	108.4400 CPM Progress Schedule	2.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	13.000 STA	_____.____	_____.____
0006	201.0205 Grubbing	13.000 STA	_____.____	_____.____
0008	203.0100 Removing Small Pipe Culverts	11.000 EACH	_____.____	_____.____
0010	204.0100 Removing Pavement	38.000 SY	_____.____	_____.____
0012	204.0120 Removing Asphaltic Surface Milling	2,040.000 SY	_____.____	_____.____
0014	204.0150 Removing Curb & Gutter	17,904.000 LF	_____.____	_____.____
0016	204.0210 Removing Manholes	7.000 EACH	_____.____	_____.____
0018	204.0220 Removing Inlets	80.000 EACH	_____.____	_____.____
0020	204.0245 Removing Storm Sewer (size) 001. 12-Inch	2,829.000 LF	_____.____	_____.____
0022	204.0245 Removing Storm Sewer (size) 002. 15-Inch	369.000 LF	_____.____	_____.____
0024	204.0245 Removing Storm Sewer (size) 003. 18-Inch	158.000 LF	_____.____	_____.____
0026	204.0245 Removing Storm Sewer (size) 004. 21-Inch	140.000 LF	_____.____	_____.____
0028	204.0245 Removing Storm Sewer (size) 005. 24-Inch	723.000 LF	_____.____	_____.____
0030	204.0245 Removing Storm Sewer (size) 006. 36-Inch	149.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.0245 Removing Storm Sewer (size) 007. 38X24-Inch	136.000 LF	_____.____	_____.____
0034	204.0280 Sealing Pipes	1.000 EACH	_____.____	_____.____
0036	204.9060.S Removing (item description) 001. Height Modernization Geodetic Survey Monument	1.000 EACH	_____.____	_____.____
0038	204.9060.S Removing (item description) 002. Bulkhead	1.000 EACH	_____.____	_____.____
0040	204.9090.S Removing (item description) 001. Draintile	1,150.000 LF	_____.____	_____.____
0042	204.9090.S Removing (item description) 002. Underdrain	32,926.000 LF	_____.____	_____.____
0044	205.0100 Excavation Common	92,186.000 CY	_____.____	_____.____
0046	213.0100 Finishing Roadway (project) 001. 1320-23-70	1.000 EACH	_____.____	_____.____
0048	213.0100 Finishing Roadway (project) 002. 1320-23-73	1.000 EACH	_____.____	_____.____
0050	305.0120 Base Aggregate Dense 1 1/4-Inch	47,819.000 TON	_____.____	_____.____
0052	311.0110 Breaker Run	96,246.000 TON	_____.____	_____.____
0054	415.0100 Concrete Pavement 10-Inch	83,134.000 SY	_____.____	_____.____
0056	415.0210 Concrete Pavement Gaps	15.000 EACH	_____.____	_____.____
0058	415.5110.S Concrete Pavement Joint Layout 001. 1320-23-70	1.000 LS	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0060	415.5110.S Concrete Pavement Joint Layout 002. 1320-23-73	1.000 LS	_____.____	_____.____
0062	416.0160 Concrete Driveway 6-Inch	193.000 SY	_____.____	_____.____
0064	416.0260 Concrete Driveway HES 6-Inch	417.000 SY	_____.____	_____.____
0066	416.0620 Drilled Dowel Bars	154.000 EACH	_____.____	_____.____
0068	455.0605 Tack Coat	142.000 GAL	_____.____	_____.____
0070	465.0105 Asphaltic Surface	121.000 TON	_____.____	_____.____
0072	465.0125 Asphaltic Surface Temporary	1,914.000 TON	_____.____	_____.____
0074	495.1000.S Cold patch	75.000 TON	_____.____	_____.____
0076	520.8000 Concrete Collars for Pipe	2.000 EACH	_____.____	_____.____
0078	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	2.000 EACH	_____.____	_____.____
0080	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	4.000 EACH	_____.____	_____.____
0082	522.1021 Apron Endwalls for Culvert Pipe Reinforced Concrete 21-Inch	1.000 EACH	_____.____	_____.____
0084	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	1.000 EACH	_____.____	_____.____
0086	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	3.000 EACH	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0088	522.2624 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	2.000 EACH	_____.____	_____.____
0090	601.0409 Concrete Curb & Gutter 30-Inch Type A	1,245.000 LF	_____.____	_____.____
0092	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	35,066.000 LF	_____.____	_____.____
0094	602.0410 Concrete Sidewalk 5-Inch	18,707.000 SF	_____.____	_____.____
0096	602.0505 Curb Ramp Detectable Warning Field Yellow	440.000 SF	_____.____	_____.____
0098	603.8000 Concrete Barrier Temporary Precast Delivered	380.000 LF	_____.____	_____.____
0100	603.8125 Concrete Barrier Temporary Precast Installed	380.000 LF	_____.____	_____.____
0102	606.0200 Riprap Medium	27.400 CY	_____.____	_____.____
0104	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	259.000 LF	_____.____	_____.____
0106	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	3,048.000 LF	_____.____	_____.____
0108	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	148.000 LF	_____.____	_____.____
0110	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	852.000 LF	_____.____	_____.____
0112	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	1,070.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0114	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	1,521.000 LF	_____.____	_____.____
0116	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	1,421.000 LF	_____.____	_____.____
0118	608.0360 Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	41.000 LF	_____.____	_____.____
0120	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	4,826.000 LF	_____.____	_____.____
0122	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	272.000 LF	_____.____	_____.____
0124	608.0421 Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	280.000 LF	_____.____	_____.____
0126	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	824.000 LF	_____.____	_____.____
0128	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	301.000 LF	_____.____	_____.____
0130	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	720.000 LF	_____.____	_____.____
0132	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	200.000 LF	_____.____	_____.____
0134	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0136	611.0430 Reconstructing Inlets	1.000 EACH	_____.____	_____.____
0138	611.0535 Manhole Covers Type J-Special	12.000 EACH	_____.____	_____.____
0140	611.0624 Inlet Covers Type H	4.000 EACH	_____.____	_____.____

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0142	611.0627 Inlet Covers Type HM	235.000 EACH	_____.____	_____.____
0144	611.0636 Inlet Covers Type HM-S	15.000 EACH	_____.____	_____.____
0146	611.0639 Inlet Covers Type H-S	7.000 EACH	_____.____	_____.____
0148	611.0642 Inlet Covers Type MS	7.000 EACH	_____.____	_____.____
0150	611.0651 Inlet Covers Type S	1.000 EACH	_____.____	_____.____
0152	611.2003 Manholes 3-FT Diameter	2.000 EACH	_____.____	_____.____
0154	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.____	_____.____
0156	611.2005 Manholes 5-FT Diameter	28.000 EACH	_____.____	_____.____
0158	611.2006 Manholes 6-FT Diameter	23.000 EACH	_____.____	_____.____
0160	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.____	_____.____
0162	611.2008 Manholes 8-FT Diameter	1.000 EACH	_____.____	_____.____
0164	611.3004 Inlets 4-FT Diameter	224.000 EACH	_____.____	_____.____
0166	611.3901 Inlets Median 1 Grate	7.000 EACH	_____.____	_____.____
0168	611.8110 Adjusting Manhole Covers	2.000 EACH	_____.____	_____.____
0170	611.8120.S Cover Plates Temporary	7.000 EACH	_____.____	_____.____
0172	612.0212 Pipe Underdrain Unperforated 12-Inch	150.000 LF	_____.____	_____.____
0174	612.0700 Drain Tile Exploration	8,000.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0176	616.0700.S Fence Safety	3,000.000 LF	_____.____	_____.____
0178	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0180	620.0300 Concrete Median Sloped Nose	1,572.000 SF	_____.____	_____.____
0182	623.0200 Dust Control Surface Treatment	30,000.000 SY	_____.____	_____.____
0184	624.0100 Water	1,221.000 MGAL	_____.____	_____.____
0186	627.0200 Mulching	17,500.000 SY	_____.____	_____.____
0188	628.1104 Erosion Bales	400.000 EACH	_____.____	_____.____
0190	628.1504 Silt Fence	12,920.000 LF	_____.____	_____.____
0192	628.1520 Silt Fence Maintenance	12,920.000 LF	_____.____	_____.____
0194	628.1905 Mobilizations Erosion Control	12.000 EACH	_____.____	_____.____
0196	628.1910 Mobilizations Emergency Erosion Control	20.000 EACH	_____.____	_____.____
0198	628.2004 Erosion Mat Class I Type B	97,833.000 SY	_____.____	_____.____
0200	628.7005 Inlet Protection Type A	355.000 EACH	_____.____	_____.____
0202	628.7015 Inlet Protection Type C	379.000 EACH	_____.____	_____.____
0204	628.7020 Inlet Protection Type D	62.000 EACH	_____.____	_____.____
0206	628.7504 Temporary Ditch Checks	102.000 LF	_____.____	_____.____
0208	628.7555 Culvert Pipe Checks	39.000 EACH	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0210	628.7560 Tracking Pads	4.000 EACH	_____.____	_____.____
0212	628.7570 Rock Bags	130.000 EACH	_____.____	_____.____
0214	629.0210 Fertilizer Type B	61.500 CWT	_____.____	_____.____
0216	630.0140 Seeding Mixture No. 40	1,762.000 LB	_____.____	_____.____
0218	630.0200 Seeding Temporary	958.000 LB	_____.____	_____.____
0220	633.5200 Markers Culvert End	13.000 EACH	_____.____	_____.____
0222	634.0618 Posts Wood 4x6-Inch X 18-FT	103.000 EACH	_____.____	_____.____
0224	637.2210 Signs Type II Reflective H	926.010 SF	_____.____	_____.____
0226	637.2215 Signs Type II Reflective H Folding	96.980 SF	_____.____	_____.____
0228	637.2230 Signs Type II Reflective F	136.000 SF	_____.____	_____.____
0230	638.2102 Moving Signs Type II	1.000 EACH	_____.____	_____.____
0232	638.2602 Removing Signs Type II	23.000 EACH	_____.____	_____.____
0234	638.3000 Removing Small Sign Supports	24.000 EACH	_____.____	_____.____
0236	638.4000 Moving Small Sign Supports	1.000 EACH	_____.____	_____.____
0238	641.8100 Overhead Sign Support (structure) 001. S-51-258	LS	LUMP SUM	_____.____
0240	643.0300 Traffic Control Drums	89,388.000 DAY	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0242	643.0420 Traffic Control Barricades Type III	14,492.000 DAY	_____.____	_____.____
0244	643.0500 Traffic Control Flexible Tubular Marker Posts	368.000 EACH	_____.____	_____.____
0246	643.0600 Traffic Control Flexible Tubular Marker Bases	368.000 EACH	_____.____	_____.____
0248	643.0705 Traffic Control Warning Lights Type A	29,985.000 DAY	_____.____	_____.____
0250	643.0715 Traffic Control Warning Lights Type C	27,207.000 DAY	_____.____	_____.____
0252	643.0800 Traffic Control Arrow Boards	773.000 DAY	_____.____	_____.____
0254	643.0900 Traffic Control Signs	22,896.000 DAY	_____.____	_____.____
0256	643.0920 Traffic Control Covering Signs Type II	100.000 EACH	_____.____	_____.____
0258	643.1050 Traffic Control Signs PCMS	50.000 DAY	_____.____	_____.____
0260	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0262	645.0120 Geotextile Type HR	139.800 SY	_____.____	_____.____
0264	646.1020 Marking Line Epoxy 4-Inch	32,059.000 LF	_____.____	_____.____
0266	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	8,136.000 LF	_____.____	_____.____
0268	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	3,927.000 LF	_____.____	_____.____
0270	646.5020 Marking Arrow Epoxy	5.000 EACH	_____.____	_____.____
0272	646.5120 Marking Word Epoxy	3.000 EACH	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0274	646.6120 Marking Stop Line Epoxy 18-Inch	277.000 LF	_____.____	_____.____
0276	646.6220 Marking Yield Line Epoxy 18-Inch	8.000 EACH	_____.____	_____.____
0278	646.6464 Cold Weather Marking Epoxy 4-Inch	12,415.000 LF	_____.____	_____.____
0280	646.6468 Cold Weather Marking Epoxy 8-Inch	1,732.000 LF	_____.____	_____.____
0282	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	766.000 LF	_____.____	_____.____
0284	646.8120 Marking Curb Epoxy	209.000 LF	_____.____	_____.____
0286	646.8220 Marking Island Nose Epoxy	20.000 EACH	_____.____	_____.____
0288	646.9000 Marking Removal Line 4-Inch	11,727.000 LF	_____.____	_____.____
0290	646.9010 Marking Removal Line Water Blasting 4-Inch	23,317.000 LF	_____.____	_____.____
0292	646.9100 Marking Removal Line 8-Inch	345.000 LF	_____.____	_____.____
0294	646.9110 Marking Removal Line Water Blasting 8-Inch	736.000 LF	_____.____	_____.____
0296	649.0105 Temporary Marking Line Paint 4-Inch	103,106.000 LF	_____.____	_____.____
0298	649.0205 Temporary Marking Line Paint 8-Inch	1,132.000 LF	_____.____	_____.____
0300	649.0805 Temporary Marking Stop Line Paint 18-Inch	132.000 LF	_____.____	_____.____
0302	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	8,729.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,912.000 LF	_____.____	_____.____
0306	652.0700.S Install Conduit into Existing Item	1.000 EACH	_____.____	_____.____
0308	652.0800 Conduit Loop Detector	2,688.000 LF	_____.____	_____.____
0310	653.0135 Pull Boxes Steel 24x36-Inch	28.000 EACH	_____.____	_____.____
0312	653.0140 Pull Boxes Steel 24x42-Inch	33.000 EACH	_____.____	_____.____
0314	654.0101 Concrete Bases Type 1	18.000 EACH	_____.____	_____.____
0316	654.0102 Concrete Bases Type 2	10.000 EACH	_____.____	_____.____
0318	654.0105 Concrete Bases Type 5	39.000 EACH	_____.____	_____.____
0320	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	_____.____	_____.____
0322	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____
0324	655.0210 Cable Traffic Signal 3-14 AWG	2,266.000 LF	_____.____	_____.____
0326	655.0230 Cable Traffic Signal 5-14 AWG	1,230.000 LF	_____.____	_____.____
0328	655.0240 Cable Traffic Signal 7-14 AWG	5,694.000 LF	_____.____	_____.____
0330	655.0260 Cable Traffic Signal 12-14 AWG	4,959.000 LF	_____.____	_____.____
0332	655.0320 Cable Type UF 2-10 AWG Grounded	2,758.000 LF	_____.____	_____.____
0334	655.0510 Electrical Wire Traffic Signals 12 AWG	8,602.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0336	655.0515 Electrical Wire Traffic Signals 10 AWG	8,696.000 LF	_____.____	_____.____
0338	655.0610 Electrical Wire Lighting 12 AWG	1,872.000 LF	_____.____	_____.____
0340	655.0700 Loop Detector Lead In Cable	7,993.000 LF	_____.____	_____.____
0342	655.0800 Loop Detector Wire	9,710.000 LF	_____.____	_____.____
0344	655.0900 Traffic Signal EVP Detector Cable	2,266.000 LF	_____.____	_____.____
0346	656.0200 Electrical Service Meter Breaker Pedestal (location) 301. STH 11 & Wisconn Valley Way	LS	LUMP SUM	_____.____
0348	656.0200 Electrical Service Meter Breaker Pedestal (location) 311. STH 11 & International Drive	LS	LUMP SUM	_____.____
0350	657.0100 Pedestal Bases	18.000 EACH	_____.____	_____.____
0352	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	49.000 EACH	_____.____	_____.____
0354	657.0305 Poles Type 2	2.000 EACH	_____.____	_____.____
0356	657.0310 Poles Type 3	8.000 EACH	_____.____	_____.____
0358	657.0322 Poles Type 5-Aluminum	2.000 EACH	_____.____	_____.____
0360	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____.____	_____.____
0362	657.0420 Traffic Signal Standards Aluminum 13-FT	10.000 EACH	_____.____	_____.____
0364	657.0425 Traffic Signal Standards Aluminum 15-FT	5.000 EACH	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0366	657.0430 Traffic Signal Standards Aluminum 10-FT	2.000 EACH	_____.____	_____.____
0368	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	14.000 EACH	_____.____	_____.____
0370	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	2.000 EACH	_____.____	_____.____
0372	658.0173 Traffic Signal Face 3S 12-Inch	34.000 EACH	_____.____	_____.____
0374	658.0174 Traffic Signal Face 4S 12-Inch	6.000 EACH	_____.____	_____.____
0376	658.0416 Pedestrian Signal Face 16-Inch	12.000 EACH	_____.____	_____.____
0378	658.0500 Pedestrian Push Buttons	15.000 EACH	_____.____	_____.____
0380	658.5069 Signal Mounting Hardware (location) 301. STH 11 & Wisconn Valley Way	LS	LUMP SUM	_____.____
0382	658.5069 Signal Mounting Hardware (location) 311. STH 11 & International Drive	LS	LUMP SUM	_____.____
0384	659.1125 Luminaires Utility LED C	16.000 EACH	_____.____	_____.____
0386	670.0200 ITS Documentation 001. Miscellaneous	LS	LUMP SUM	_____.____
0388	670.0200 ITS Documentation 002. Miscellaneous	LS	LUMP SUM	_____.____
0390	671.0122 Conduit HDPE 2-Duct 2-Inch	8,385.000 LF	_____.____	_____.____
0392	673.0105 Communication Vault Type 1	11.000 EACH	_____.____	_____.____
0394	673.0200 Tracer Wire Marker Posts	11.000 EACH	_____.____	_____.____
0396	690.0150 Sawing Asphalt	1,365.000 LF	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	690.0250 Sawing Concrete	33.000 LF	_____._____	_____._____
0400	715.0415 Incentive Strength Concrete Pavement	24,941.000 DOL	1.00000	24,941.00
0402	715.0710 Optimized Aggregate Gradation Incentive	109,737.000 DOL	1.00000	109,737.00
0404	740.0440 Incentive IRI Ride	19,350.000 DOL	1.00000	19,350.00
0406	SPV.0035 Special 001. EBS Excavation	22,833.000 CY	_____._____	_____._____
0408	SPV.0035 Special 002. EBS Backfill	22,833.000 CY	_____._____	_____._____
0410	SPV.0035 Special 003. Roadway Embankment	104,000.000 CY	_____._____	_____._____
0412	SPV.0045 Special 001. Portable Speed Trailer	754.000 DAY	_____._____	_____._____
0414	SPV.0055 Special 001. Maintain Field Office Left In Place Special Utility Fees Project 1320-23-70	30,000.000 DOL	_____._____	_____._____
0416	SPV.0060 Special 002. Temporary Stone Ditch Checks	30.000 EACH	_____._____	_____._____
0418	SPV.0060 Special 003. Sand Bags	200.000 EACH	_____._____	_____._____
0420	SPV.0060 Special 004. Temporary Sediment Traps	15.000 EACH	_____._____	_____._____
0422	SPV.0060 Special 009. Mobilizations Emergency Pavement Repair	4.000 EACH	_____._____	_____._____
0424	SPV.0060 Special 010. Section Corner Monuments	1.000 EACH	_____._____	_____._____
0426	SPV.0060 Special 012. Removing Cover Plates Left In Place	4.000 EACH	_____._____	_____._____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0428	SPV.0060 Special 013. Connect Drain Tile	4.000 EACH	_____.____	_____.____
0430	SPV.0060 Special 015. Inlet Covers Type 57	14.000 EACH	_____.____	_____.____
0432	SPV.0060 Special 016. Pipe Connection to Existing Structure	3.000 EACH	_____.____	_____.____
0434	SPV.0060 Special 024. Manholes 9-Feet Diameter	1.000 EACH	_____.____	_____.____
0436	SPV.0060 Special 301. Concrete Base Monotube Type 9 & 10 Special Pole	4.000 EACH	_____.____	_____.____
0438	SPV.0060 Special 601. Furnish Sanitary Manhole Cover	1.000 EACH	_____.____	_____.____
0440	SPV.0060 Special 602. Reconstruct Sanitary Manhole	1.000 EACH	_____.____	_____.____
0442	SPV.0060 Special 603. Adjusting Sanitary Manhole	2.000 EACH	_____.____	_____.____
0444	SPV.0075 Special 001. Pavement Cleanup Project 1320-23-70	400.000 HRS	_____.____	_____.____
0446	SPV.0075 Special 002. Pavement Cleanup Project 1320-23-73	400.000 HRS	_____.____	_____.____
0448	SPV.0090 Special 001. Heavy Duty Silt Fence	6,377.000 LF	_____.____	_____.____
0450	SPV.0090 Special 002. Pipe Underdrain 6-Inch Special	13,200.000 LF	_____.____	_____.____
0452	SPV.0105 Special 001. Survey Project 1320-23-70	 LS	LUMP SUM	_____.____
0454	SPV.0105 Special 002. Survey Project 1320-23-73	 LS	LUMP SUM	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0456	SPV.0105 Special 306. Transport & Install State Furnished Traf Signal Cabinet STH 11 & WVW	LS	LUMP SUM	_____.____
0458	SPV.0105 Special 307. Transport & Install State Furnished Radar Det Sys STH 11 & WVW	LS	LUMP SUM	_____.____
0460	SPV.0105 Special 308. Trns & Install State Furn EVP Det Heads w/Conf Beacons STH 11 & WVW	LS	LUMP SUM	_____.____
0462	SPV.0105 Special 309. Trns & Install Traf Sig, Monotube, & Intsec Lighting Materials STH & WVW	LS	LUMP SUM	_____.____
0464	SPV.0105 Special 311. Trns & Install State Furn Traf Sig Cabinet STH 11 & International Dr	LS	LUMP SUM	_____.____
0466	SPV.0105 Special 312. Trns & Install State Furn Radar Det Sys STH 11 & International Dr	LS	LUMP SUM	_____.____
0468	SPV.0105 Special 313. Trns & Install State Furn EVP Det Heads w/Conf Beacons STH 11 & Intern'l Dr	LS	LUMP SUM	_____.____
0470	SPV.0105 Special 314. Trns & Install Traf Sig Monotube, & Int Lighting Material STH 11 & Int'l Dr	LS	LUMP SUM	_____.____
0472	SPV.0135 Special 001. Maintain Field Office Left In Place Special Project 1320-23-70	13.000 MON	_____.____	_____.____
0474	SPV.0170 Special 001. Removal and Disposal of Invasive Plant Species	15.000 STA	_____.____	_____.____
0476	SPV.0180 Special 001. Topsoil Special	97,833.000 SY	_____.____	_____.____
	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

July 1, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #5: **1320-23-70**
STH 11, ERF to Wisconn Valley Way
EFR to Wisconn Valley Way
STH 11
Racine County

1320-23-73
STH 11, Wisconn Valley Way to CTH H
Wisconn Valley Way to CTH H
STH 11
Racine County

Letting of July 9, 2019

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
12	Utilities
64	Optimized Aggregate Gradation Incentive, Item 715.0710

Added Special Provisions	
Article No.	Description
95	Notice to Contractor – Hauling Restrictions
96	Signs Type I and II.

Deleted Special Provisions	
Article No.	Description
53	Signs Type II

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
637.2230	Signs Type II Reflective F	SF	136	-16	120
SPV.0035.301	EBS Excavation	CY	22,833	-4,566	18,267
SPV.0035.302	EBS Backfill	CY	22,833	-4,566	18,267

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
645.0220	Geogrid Type SR	SY	0	16,500	16,500

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
112	Signing Plan (removed sign P157)
116	Signing Plan (removed sign P407)
231	Miscellaneous Quantities (updated 'Earthwork' table)
248	Miscellaneous Quantities (updated 'Permanent Signing' table)
251	Miscellaneous Quantities (added 'Geogrid Type SR' table)
272	Miscellaneous Quantities (updated 'Earthwork' table)
295	Miscellaneous Quantities (updated 'Permanent Signing' table)
297	Miscellaneous Quantities (updated 'Permanent Signing' table)
301	Miscellaneous Quantities (added 'Geogrid Type SR' table)

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
24A	Construction Details:2019 Haul Routes (added haul route map for 2019)
24B	Construction Details:2020 Haul Routes (added haul route map for 2020)

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

Project ID 1320-23-70 & 1320-23-73

July 1, 2019

Special Provisions

12. Utilities.

Replace paragraph one under subsection titled **Mount Pleasant, Village of – Sanitary** *under section titled* **Project 1320-20-73***:*

During construction, the Village of Mount Pleasant will construct a new sanitary sewer main beginning at a manhole at Station 201+76, 175'RT and running easterly along a line 40' south of and parallel to the proposed southerly STH 11 right of way to a manhole at Station 226+24, 175'RT where it turns and runs southerly to beyond the project limits. The Village of Mount Pleasant will construct this sewer from approximately October 1st to December 31st, 2019. During this time frame, allow the sanitary contractor two access points off of STH 11 between the abovementioned station limits for this sanitary work.

Replace the last sentence of second bullet point under subsection titled **We Energies - Gas** *under section titled* **Project 1320-20-73** *with the following:*

The existing line will remain in place from Station 214+02, 75'LT to Station 224+15, 76'LT and from Station 226+05, 76'LT to 232+00, 67'LT.

Insert the following bullet point after the third bullet point under section titled **We Energies – Gas** *under section titled* **Project 1320-20-73***:*

- A new underground gas line tying into the existing main and beginning at Station 224+15, 76'LT and running easterly along a line 5' south of and parallel to the northerly STH 11 right of way to Station 226+05, 76'LT and tying into the existing main. We Energies will construct this gas line between May 1st and August 31st, 2019.

53. DELETE

64. Optimized Aggregate Gradation Incentive, Item 715.0710.

Replace the entire article with the following:

Description

This special provision describes optional contractor optimized aggregate gradation, optional optimized mixture designs, and associated additional requirements for class 1 concrete used in concrete pavements. Conform to standard specification part 7 and as follows:

Optimized Aggregate Gradation

A Job Mix Formula (JMF) contains all of the following:

Proportions for each aggregate fraction conforming to table 1.

Individual gradations for each aggregate fraction.

Composite gradation of the combined aggregates including working ranges on each sieve in accordance with table 2.

Submit the target JMF and aggregate production gradation test results to the engineer for review 10 business days before initial concrete placement.

TABLE 1 TARANTULA CURVE GRADATION BAND

SIEVE SIZES	PERCENT RETAINED
2 in.	0
1 1/2 in.	≤5
1 in.	≤16
3/4 in.	≤20
1/2 in.	4-20
3/8 in.	4-20
No. 4	4-20
No. 8[1]	≤12
No. 16[1]	≤12
No. 30[1] [2]	4-20
No. 50 [2]	4-20
No. 100 [2]	≤10
No. 200 [2]	≤2.3

[1] Minimum of 15% retained on the sum of the #8, #16, and #30 sieves.

[2] Conform to 24-34% retained of fine sand on the #30-200 sieves.

TABLE 2 JMF WORKING RANGE

SIEVE SIZES	WORKING RANGE[1] (PERCENT)
2 in.	+/- 5
1 1/2 in.	+/- 5
1 in.	+/- 5
3/4 in.	+/- 5
1/2 in.	+/- 5
3/8 in.	+/- 5
No. 4	+/- 5
No. 8	+/- 4
No. 16	+/- 4
No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2
No. 200	≤ 2.3

[1] Working range limits of composite gradation based on moving average of 4 tests.

Replace standard spec 710.5.6 with the following:

Determine the complete gradation, including P200, using a washed analysis for both fine and coarse aggregates. Test each stockpile for each component aggregate once per 1,500 cubic yards during concrete production.

Take samples by one of the following sampling methods:

1. At the belt leading to the weigh hopper.
2. Working face of the stock piles at the concrete plant if approved by the engineer.

The department will take independent QV samples using the same sampling method the contractor uses for QC sampling. QV samples may be taken by the contractor's QC personnel if witnessed by the department's QV personnel. The department will split each QV sample and retain half for all dispute resolutions. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

If, during concrete production, the moving average of four for any sieve fall outside the allowable JMF working range do the following:

1. Notify the engineer of the test results within 1 business day from the time of sampling.
2. Make immediate adjustments to the JMF, within the limits specified in Table 3;
3. Review JMF adjustments with the engineer. Both the contractor and engineer will sign the adjusted JMF if the adjustments comply with Table 3.
4. If the moving average of four falls outside the adjusted allowable working range, stop production and provide a new mix design including JMF to the engineer.

TABLE 3 ALLOWABLE JMF ADJUSTMENTS

SIEVE SIZES	ALLOWABLE ADJUSTMENT (PERCENT)
>= No. 4	+/- 5
No. 8 – No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2

Dispute Resolution

The department will resolve disputes as specified in standard spec 106.3.4.3.5 using QV split samples.

Sublot and Lot Size

A sublot consists of up to 1,500 cubic yards. A lot consists of two sublots.

Optimized Concrete Mixtures

The contractor may use a reduced cementitious content for concrete pavement placed if the contractor does the following:

1. Use an optimized aggregate gradation as defined in this special provision.
2. Conform to the additional testing requirements for flexural strength as specified in the contract special provisions.
3. Submit aggregate gradation result records no more than 2 years old when developing the mix design.
4. Determine the volume of voids in the optimized aggregates using ASTM C29.
5. Download and follow the instructions tab of the Optimized Gradation and Mix Design Spreadsheet located at:
   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at:
   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
7. Provide a minimum Vpaste/Vvoids of 1.25. (Paste/Void ratio equals the volume of paste divided by the volume of voids.).

8. Evaluate workability of trial batches by following section 6.8 of AASHTO Draft Performance Engineered Concrete Pavement Mixtures Specifications located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
9. Submit trial batch workability results when submitting the mix design.
10. Submit the CP Tech center computer spreadsheet concrete mix design to the engineer for review at least 3 business days before producing concrete.
11. Provide a minimum cement content of 520 pounds per cubic yard, except if using type I, IL, or III cement in a mix where the geologic composition of the coarse aggregate is primarily igneous or metamorphic materials, provide a minimum cement content of 660 pounds per cubic yard.
12. The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for cement. For binary mixes use up to 30% fly ash or slag. For ternary mixes use up to 30% fly ash plus slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
13. See CMM 8-70.2.2.3 for additional guidance.

Measurement

The department will measure Optimized Aggregate Gradation Incentive by the dollar, for each combined averaged lot of QC test results meeting Table 1.

Payment

The department will pay incentive of 3 percent of the contract unit price for concrete pavement under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
715.0710	Optimized Aggregate Gradation Incentive	DOL

stp-715-005 (20181119)

95. Notice to Contractor - Hauling Restriction.

Do not haul materials of any kind on, along or across any portion of IH-94, from noon Friday, July 10th, 2020 to 6:00 AM Monday, July 20th, 2020.

96. Signs Type I and II.

Furnish and install aluminum vertical support beams for type I and II signs on overhead sign supports incidental to sign. For type I and II signs on sign bridges use aluminum vertical support beams noted above incidental to sign.

Supplement 637.2.4 of the standard specs with the following:

Use stainless steel bolts, washers and nuts for type I and type II signs mounted on sign bridges or type I and II signs mounted on overhead sign supports. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4 inch wide flange beams weighing 3.06 pounds per foot. Contractor shall measure the width of the L-brackets on existing structures of determine the width needed for sign support beams.

Use beams a minimum of six feet in length or equal to the height of the sign to be supported, whichever is greater. For overhead sign supports, the beams shall be the height of the sign or the distance sufficient to fasten to the horizontal members of the overhead sign support when there are two horizontal members. Use U-bolts that are made of stainless steel, one-half inch diameter and of the proper size to fit the truss cords of

each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

If type I or II signs use I beams to support the signs.

Replace 637.2.4.1(2)2 of the standard specifications with the following:

Clips may be either stainless steel or aluminum conforming to ASTM B 108, alloy 356.0-T6.

Replace 637.3.3.2(2) of the standard specifications with the following:

Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edgeline and the near edge of the sign.

Supplement 637.3.3.3(3) of the standard specifications with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type I or Type II Signs and Type I and II signs on overhead sign supports incidental to sign.

Add the following to standard spec 641.2:

Submit shop drawings for sign bridges and overhead sign supports to SE Region Traffic Operations Engineer, Tom Heydel and Bureau of Structures, Fabrication Library. Along with Shop drawings, DT2326 is required to be filled out and submitted with the shop drawings. DT 2334 is also required for status report document for sign structures. Follow specification 105.2.2 for Fabrication Library requirements
DT 2321 (Anchor Rod installation form) and DT 2322 (anciliary Structures Pre-installation verification test of high strength bolts form) shall be filled out as part of installation and fabrication.

SER-637.1 (20170405)
U: mounting hardware for type I and II signs revised 6-20-19

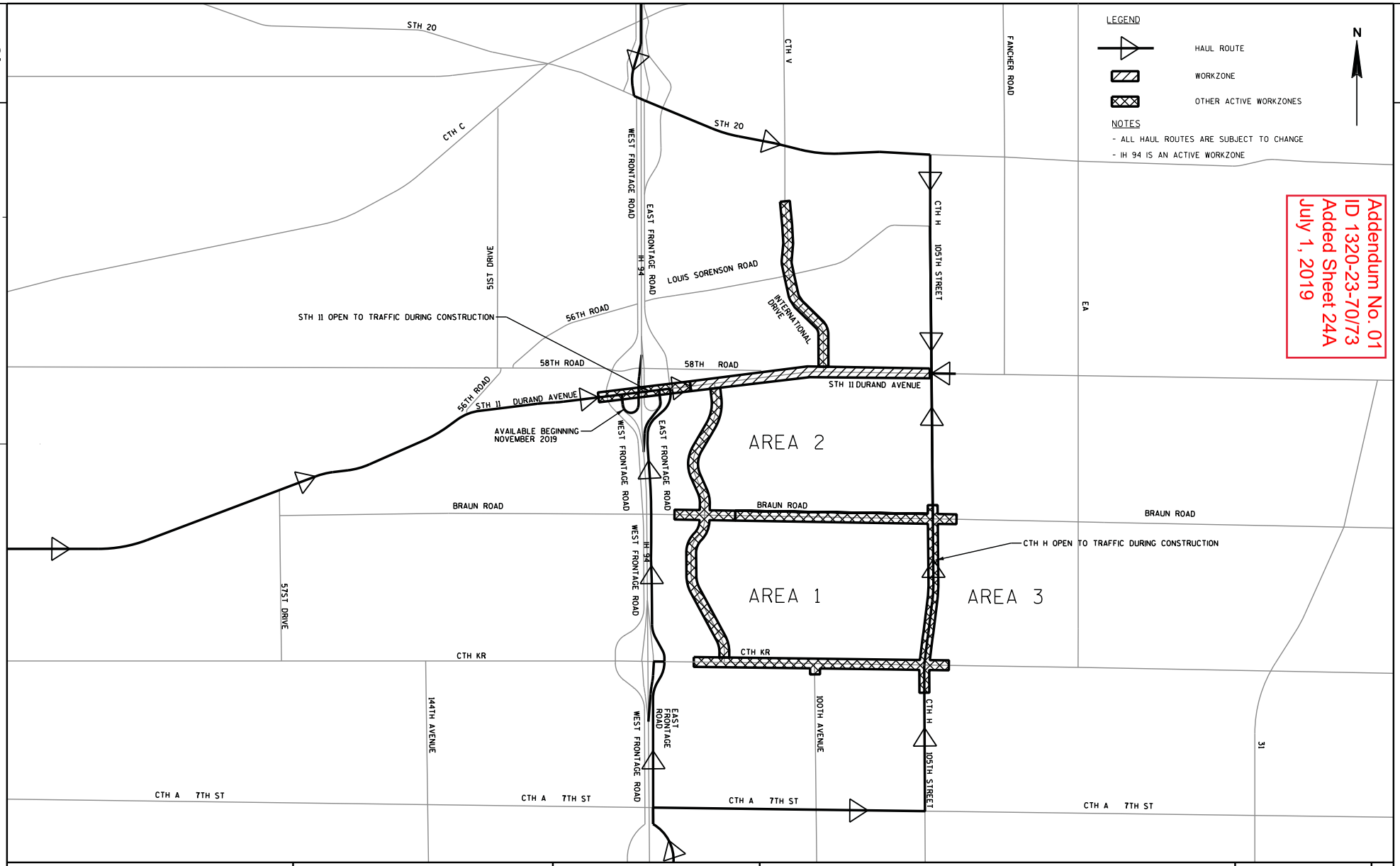
Schedule of Items
Attached, dated July 1, 2019, are the revised Schedule of Items Pages 8, 14, 16, and 17.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 112, 116, 231, 248, 251, 272, 295, 297 & 301.

Added: 24A & 24B.

END OF ADDENDUM



PROJECT NO: 1320-23-70 & 1320-23-73	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS: 2019 HAUL ROUTES	SHEET 24A	E

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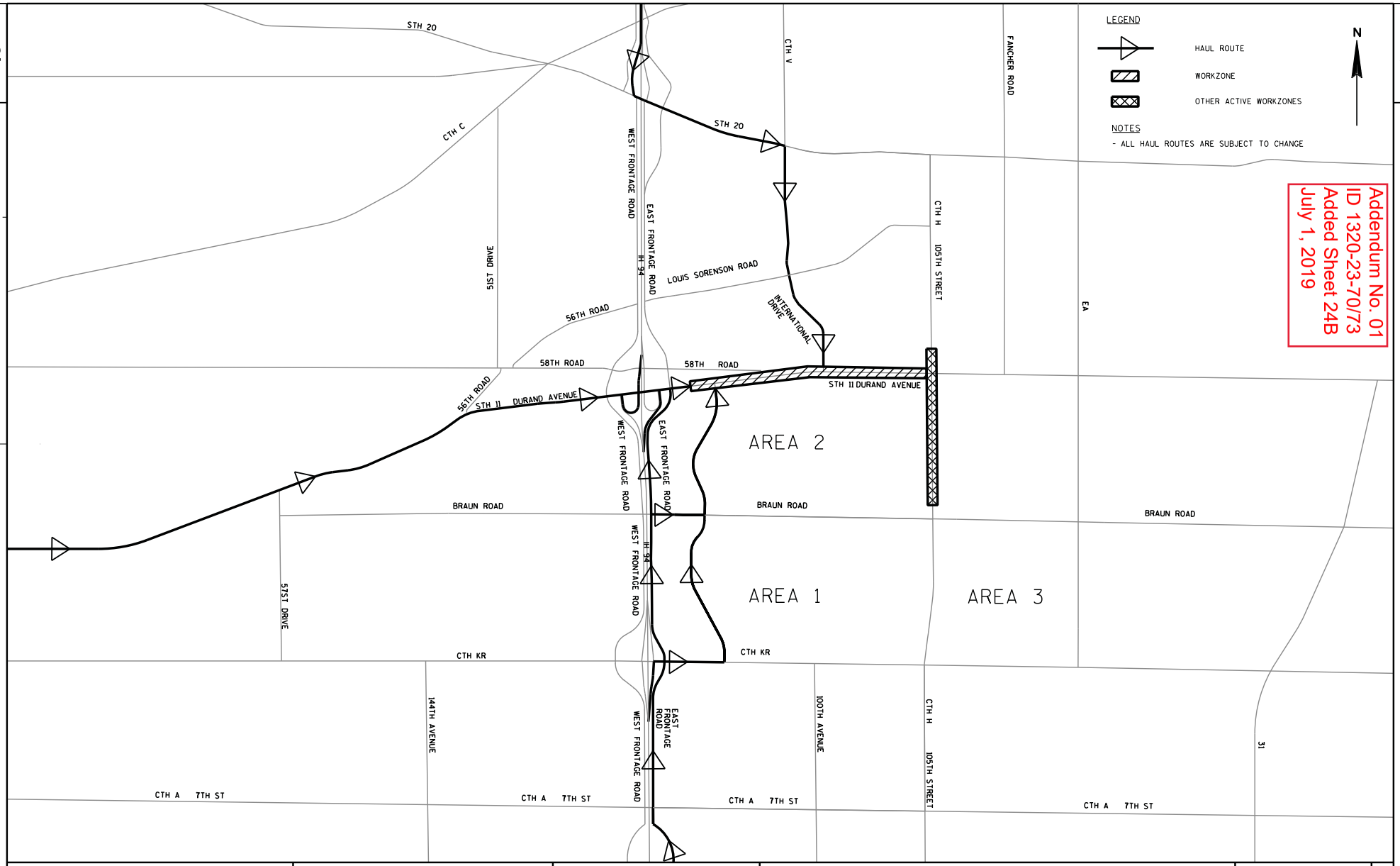
WISDOT/CADDS SHEET 42



PROJECT NO: 1320-23-70 & 1320-23-73	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS: 2020 HAUL ROUTES	SHEET 24B	E

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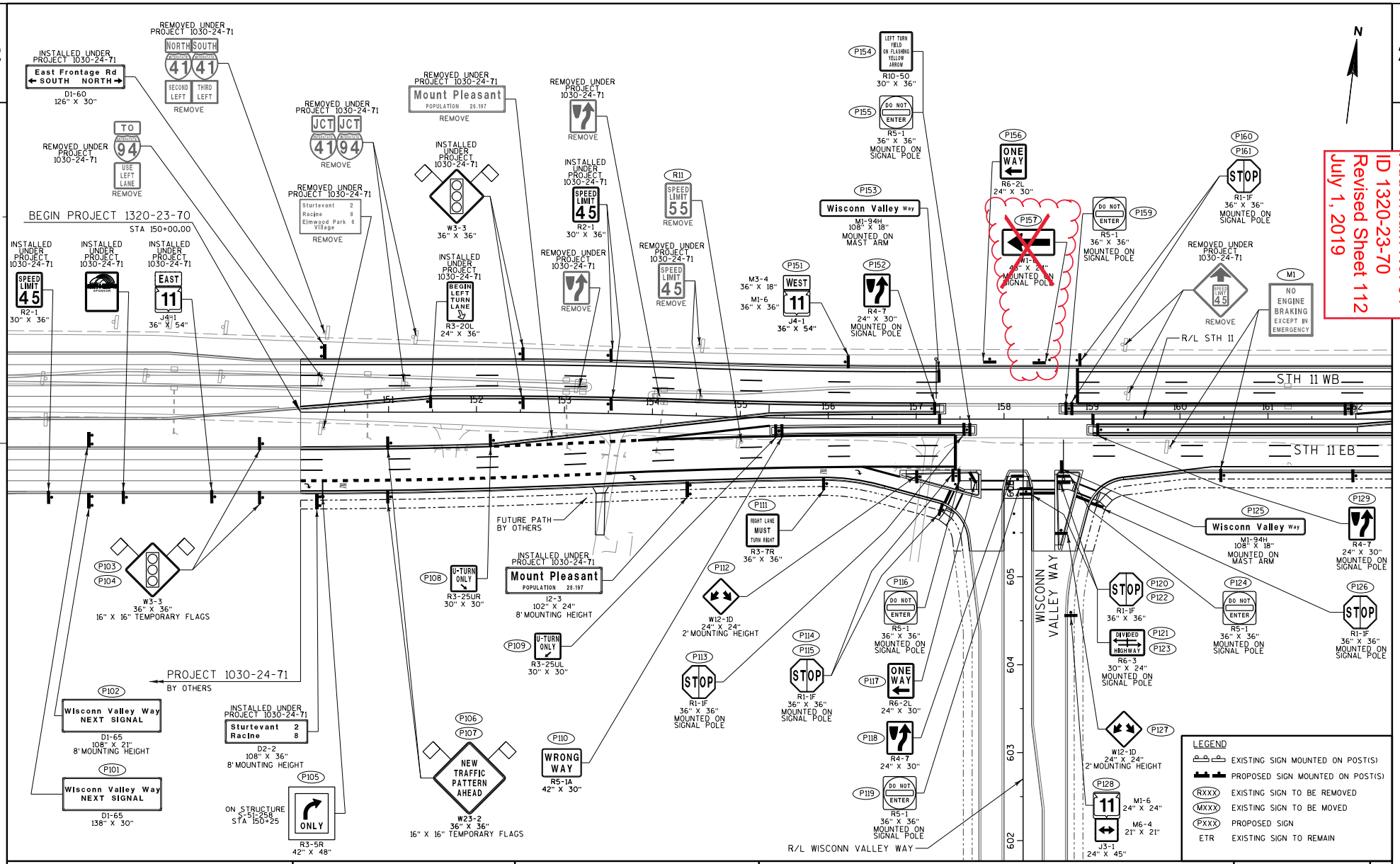
WISDOT/CADDS SHEET 42

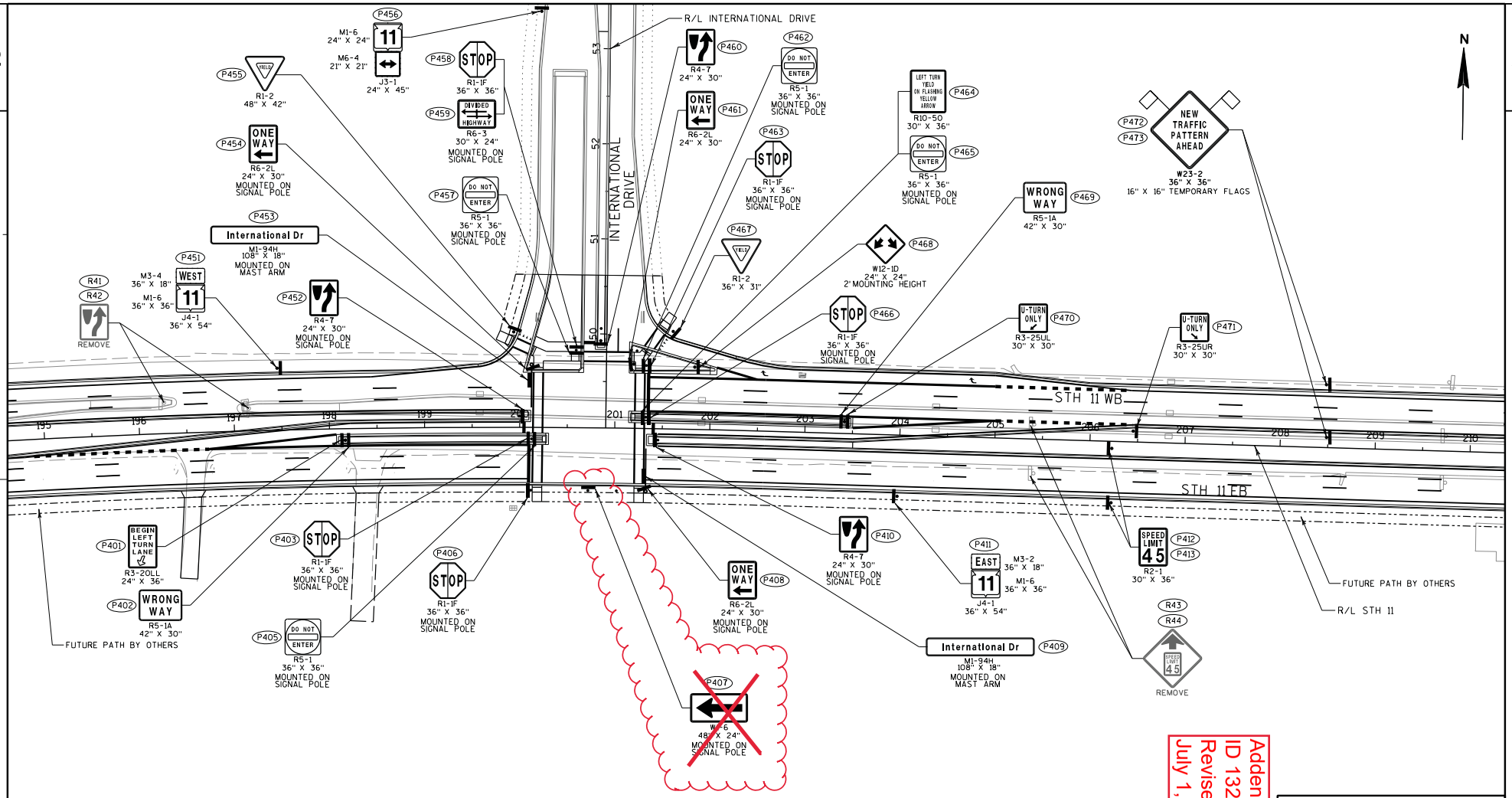


Addendum No. 01
ID 1320-23-70
Revised Sheet 112
July 1, 2019

PROJECT NO: 1320-23-70	HWY: STH 11	COUNTY: RACINE	SIGNING PLAN	SHEET 112 E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WIS 11\Plansheets\13202370\023201_ps.dgn PLOT DATE : 3/28/2019 PLOT BY : wwoldk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



Addendum No. 01
ID 1320-23-73
Revised Sheet 116
July 1, 2019

LEGEND
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- (RXXX) EXISTING SIGN TO BE REMOVED
- (MXXX) EXISTING SIGN TO BE MOVED
- (PXXX) PROPOSED SIGN
- ETR EXISTING SIGN TO REMAIN

PROJECT NO: 1320-23-73	HWY: STH 11	COUNTY: RACINE	SIGNING PLAN	SHEET 116 E

3

3

EARTHWORK

CATEGORY	DIVISION	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON (1) (5) CUT (CY)	TOPSOIL REMOVAL (CY)	SPV.0035.001 EBS EXCAVATION (2) CY	SPV.0035.002 EBS BACKFILL CY	FILL (CY)	SPV.0035.003 ROADWAY EMBANKMENT (3) CY	MASS ORDINATE +/- (4)
1000	2	STH 11 EB	150+00 to 176+50	6,735	11,000	0	0	20,364	31,364	-13,629
		STH 11 EB	UNDISTRIBUTED	0	0	3,547	3,547	0	0	0
		SUBTOTAL		6,735	11,000	3,547	3,547		31,364	-13,629
		DIVISION 2 TOTAL		17,735						
1000	3 / 4	STH 11 MEDIAN	WEST OF 150+00	160	0	0	0	1,150	1,150	-990
		STH 11 WB	150+00 to 176+50	10,838	0	0	0	5,057	5,057	5,781
		STH 11 WB	UNDISTRIBUTED	0	0	2,168	2,168	0	0	0
		SUBTOTAL		10,998	0	2,168	2,168		6,207	4,791
		DIVISION 3 TOTAL		10,998						
PROJECT 1320-23-70 TOTALS				28,733		5,715	5,715		37,571	-8,838

1) Cut Volume Includes Concrete and Asphaltic Surface Material.

2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.

3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced

4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balance for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P152	R4-7	24 X 30	5.00	--	--	--	--	ON SIGNAL POLE
P153	M1-94H	108 X 18	13.50	--	--	--	--	ON MAST ARM
P154	R10-50	30 X 36	7.50	--	--	--	P113, P155	ON SIGNAL POLE
P155	R5-1	36 X 36	9.00	--	--	--	P113, P154	ON SIGNAL POLE
P156	R6-2L	24 X 30	5.00	--	--	1	--	
~~P157~~	~~W1-6~~	~~48 X 24~~	~~--~~	~~--~~	~~0.00~~	~~--~~	~~--~~	~~ON SIGNAL POLE~~
P159	R5-1	36 X 36	9.00	--	--	--	P160	ON SIGNAL POLE
P160	R1-1F	36 X 36	--	7.46	--	--	P159	ON SIGNAL POLE
P161	R1-1F	36 X 36	--	7.46	--	--	--	ON SIGNAL POLE
P201	J4-1	36 X 54	13.50	--	--	1	--	
P202	R2-1	30 X 36	7.50	--	--	1	--	
P203	R2-1	30 X 36	7.50	--	--	1	--	
P204	R5-1	36 X 36	9.00	--	--	1	--	
P205	R6-2R	24 X 30	5.00	--	--	1	--	
P251	R5-1A	42 X 30	8.75	--	--	1	P252	
P252	R3-20LL	24 X 36	6.00	--	--	--	P251	
P253	R3-20L	24 X 36	6.00	--	--	1	--	
P254	W23-2	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P255	W23-2	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P256	W3-3	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P257	W3-3	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P258	D1-65	138 X 30	28.75	--	--	3	--	
P259	D1-65	138 X 30	28.75	--	--	3	--	
P260	R6-2R	24 X 30	5.00	--	--	1	--	
P261	R5-1	36 X 36	9.00	--	--	1	--	
PROJECT 1320-23-70 TOTAL			359.00	59.68	44.00	38		

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PAVEMENT MARKINGS

LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1545 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH WHITE LF	646.3545 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH SOLID LF	646.3545 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH SKIP LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY "ONLY" EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH LF
STH 11	2,487	2,473	1,247	947	130	3	2	109	178	47	7	--	--
STH 11	2,494	2,467	1,247	619	36	--	--	52	--	10	2	--	--
SUBTOTAL	4,981	4,940	2,494	1,566	166	3	2	161	178	57	9	--	--
UNDISTRIBUTED	--	--	--	--	--	--	--	--	--	--	--	12,415	1,732
PROJECT 1320-23-70 TOTAL	9,921		2,494	1,732		3	2	161	178	57	9	12,415	1,732

MARKING REMOVAL

STATION	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9010 MARKING REMOVAL LINE 4-INCH WATER BLASTING LF	646.9110 MARKING REMOVAL LINE 8-INCH WATER BLASTING LF
STAGE 2A				
150+00 - 154+00	STH 11	935	--	--
STAGE 2A SUBTOTAL		935	--	--
STAGE 2B				
150+00 - 161+00	STH 11	1,030	--	--
STAGE 2B SUBTOTAL		1,030	--	--
STAGE 4				
176+50 - 180+50	STH 11	1,590	--	--
STAGE 4 SUBTOTAL		1,590	--	--
STAGE 6				
173+50 - 176+50	STH 11	--	514	--
STAGE 6 SUBTOTAL		--	514	--
STAGE 7				
150+00 - 176+50	STH 11	--	2,767	585
STAGE 7 SUBTOTAL		--	2,767	585
UNDISTRIBUTED		533	492	88
PROJECT 1320-23-70 TOTAL		4,088	3,773	673

GEOGRID TYPE SR

LOCATION	645.0220 GEOGRID TYPE SR SY
UNDISTRIBUTED	5,500
PROJECT 1320-23-70 TOTAL	5,500

SAWCUTS

STATION	OFFSET	LOCATION	690.0150 SAWING ASPHALT LF
STAGE 2			
153+43	RT	STH 11	10
STAGE 2 SUBTOTAL			10
PROJECT 1320-23-70 TOTAL			10

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July 1, 2019

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WIS 11\Plansheets\13202370\13202370_MQ.ppt PLOT DATE : 6/26/2019 11:27:54 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : 13202370_MQ PLOT SCALE : 1:1

EARTHWORK

CATEGORY	DIVISION	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON (1) (5) CUT (CY)	TOPSOIL REMOVAL (CY)	SPV.0035.001 EBS EXCAVATION (2) CY	SPV.0035.002 EBS BACKFILL CY	FILL (CY)	SPV.0035.003 ROADWAY EMBANKMENT (3) CY	MASS ORDINATE +/- (4)
1000	1A	STH 11 EB	196+75 to 206+00	692	0	0	0	0	0	692
		SUBTOTAL		692	0	0	0		0	692
		DIVISION 2 TOTAL		692						
1000	2	STH 11 EB	176+50 to 195+00	1,583	6,000	0	0	25,656	31,656	-24,073
		STH 11 EB	UNDISTRIBUTED	0	0	1,517	1,517	0	0	0
		SUBTOTAL		1,583	6,000	1,517	1,517		31,656	-24,073
		DIVISION 2 TOTAL		7,583						
1000	3	STH 11 EB	195+00 to 210+00	2,045	4,000	0	0	9,623	13,623	-7,578
		STH 11 EB	UNDISTRIBUTED	0	0	1,209	1,209	0	0	0
		SUBTOTAL		2,045	4,000	1,209	1,209		13,623	-7,578
		DIVISION 3 TOTAL		6,045						
1000	5	STH 11 EB	210+00 to 234+00	26,777	2,000	0	0	2,594	4,594	24,184
		STH 11 EB	UNDISTRIBUTED	0	0	5,755	5,755	0	0	0
		SUBTOTAL		26,777	2,000	5,755	5,755		4,594	24,184
		DIVISION 5 TOTAL		28,777						
1000	6	STH 11 WB	176+50 to 234+00	20,357	0	0	0	16,557	16,557	3,800
		STH 11 WB	UNDISTRIBUTED	0	0	4,071	4,071	0	0	0
		SUBTOTAL		20,357	0	4,071	4,071		16,557	3,800
		DIVISION 6 TOTAL		20,357						
PROJECT 1320-23-73 TOTALS				63,453		12,552	12,552		66,429	-2,976

1) Cut Volume Includes Concrete and Asphaltic Surface Material.

2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.

3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced

4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+EBS Exc+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balance for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P301	R2-1	30 X 36	7.50	--	--	1	--	
P302	R2-1	30 X 36	7.50	--	--	1	--	
P303	D1-65	114 X 30	23.75	--	--	2	--	
P304	D1-65	90 X 21	13.13	--	--	2	--	8' MOUNTING HEIGHT
P305	W3-3	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P306	W3-3	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P307	W23-2	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P308	W23-2	36 X 36	--	--	9.00	1	--	2 - 16" X 16" TEMPORARY FLAGS
P309	R3-20L	24 X 36	6.00	--	--	1	--	
P351	R2-1	30 X 36	7.50	--	--	1	--	
P352	R2-1	30 X 36	7.50	--	--	1	--	
P353	R2-1	30 X 36	7.50	--	--	1	--	
P354	R2-1	30 X 36	7.50	--	--	1	--	
P401	R3-20LL	24 X 36	6.00	--	--	1	P402	
P402	R5-1A	42 X 30	8.75	--	--	--	P401	
P403	R1-1F	36 X 36	--	7.46	--	--	P405	ON SIGNAL POST
P405	R5-1	36 X 36	9.00	--	--	--	P403	ON SIGNAL POST
P406	R1-1F	36 X 36	--	7.46	--	--	--	ON SIGNAL POST
~~P407~~	~~W1-6~~	~~48 X 24~~	~~--~~	~~--~~	~~0.00~~	~~--~~	~~--~~	~~ON SIGNAL POLE~~
P408	R6-2L	24 X 30	5.00	--	--	--	--	ON SIGNAL POST
P409	M1-94H	108 X 18	13.50	--	--	--	--	ON MAST ARM
P410	R4-7	24 X 30	5.00	--	--	--	--	ON SIGNAL POST
P411	J4-1	36 X 54	13.50	--	--	1	--	
P412	R2-1	30 X 36	7.50	--	--	1	--	
P413	R2-1	30 X 36	7.50	--	--	1	--	
P451	J4-1	36 X 54	13.50	--	--	1	--	
P452	R4-7	24 X 30	5.00	--	--	--	--	ON SIGNAL POST
P453	M1-94H	108 X 18	13.50	--	--	--	--	ON MAST ARM
P454	R6-2L	24 X 30	5.00	--	--	--	--	ON SIGNAL POST
P455	R1-2	48 X 42	7.00	--	--	1	--	
P456	J3-1	24 X 45	7.50	--	--	1	--	
P457	R5-1	36 X 36	9.00	--	--	--	P458, P459	ON SIGNAL POST
P458	R1-1F	36 X 36	--	7.46	--	--	P457, P459	ON SIGNAL POST
P459	R6-3	30 X 24	5.00	--	--	--	P457, P458	ON SIGNAL POST
P460	R4-7	24 X 30	5.00	--	--	1	--	

Continued on next page

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P653	R6-2R	24 X 30	5.00	--	--	1	--	
P654	R6-2R	24 X 30	5.00	--	--	1	--	
P655	R6-2R	24 X 30	5.00	--	--	1	--	
P656	R6-2R	24 X 30	5.00	--	--	1	--	
P657	R6-2R	24 X 30	5.00	--	--	1	--	
P658	R6-2R	24 X 30	5.00	--	--	1	--	
P659	R2-1	30 X 36	7.50	--	--	1	--	
P660	R2-1	30 X 36	7.50	--	--	1	--	
PROJECT 1320-23-73 TOTAL			567.01	37.30	76.00	65		

RIPRAP

STA	ENDWALL ID	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
STAGE 5				
211+00	709	STH 11	2.5	14.6
214+00	731	STH 11	2.8	15.6
217+00	761	STH 11	2.8	15.6
219+36	787	STH 11	2.8	15.6
222+00	807	STH 11	2.8	15.6
224+50	829	STH 11	3.2	17.0
226+00	845	STH 11	2.5	14.6
228+25	851	STH 11	8.0	31.2
STAGE 5 SUBTOTAL			27.4	139.8
PROJECT 1320-23-73 TOTAL			27.4	139.8

REMOVING SIGNS

SIGN #	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
R41	1	1	MEDIAN KEEP RIGHT
R42	1	1	MEDIAN KEEP RIGHT
R43	1	1	SPEED LIMIT 45 AHEAD
R44	1	1	SPEED LIMIT 45 AHEAD
R51	1	1	SPEED LIMIT 55
R52	1	1	SPEED LIMIT 45
R53	1	1	SPEED LIMIT 45
R54	1	1	MEDIAN KEEP RIGHT
R55	1	1	MEDIAN KEEP RIGHT
R56	1	1	SPEED LIMIT 45
R57	1	1	SPEED LIMIT 45
R58	1	1	ALTERNATE SIDE PARKING REGULATIONS
R59	1	1	WARNING NEIGHBORHOOD WATCH
R61	1	2	VILLAGE OF STURTEVANT
R62	1	1	JCT/CTH H
R63	1	1	JCT/CTH H
R64	1	1	MEDIAN KEEP RIGHT
R65	1	1	MEDIAN KEEP RIGHT
R66	1	1	TRAFFIC SIGNAL AHEAD
R67	1	1	TRAFFIC SIGNAL AHEAD
PROJECT 1320-23-73 TOTAL	20	21	

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PIPE UNDERDRAIN

STATION	TO	STATION	LOCATION	SPV.0090.002 PIPE UNDERDRAIN 6-INCH SPECIAL LF
176+50	-	134+00	STH 11	8,600
PROJECT 1320-23-73 TOTAL				8,600

NOTE:
CONNECT PIPE UNDERDRAIN TO CURBLINE INLETS

SURVEY PROJECT

LOCATION	SPV.0105.002 SURVEY PROJECT 1320-23-73 LS
PROJECT 1320-23-73	1
PROJECT 1320-23-73 TOTAL	1

GEOGRID TYPE SR

LOCATION	645.0220 GEOGRID TYPE SR SY
UNDISTRIBUTED	11,000
PROJECT 1320-23-73 TOTAL	11,000

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

LOCATION	SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
PROJECT 1320-23-73	10
PROJECT 1320-23-73 TOTAL	10

REMOVING HEIGHT MODERNIZATION GEODETIC SURVEY MONUMENT

STA	OFFSET	LOCATION	204.9060.S.001 REMOVING HEIGHT MODERNIZATION GEODETIC SURVEY MONUMENT EACH
230+25	20' LT	STH 11	1
PROJECT 1320-23-73 TOTAL			1

MOBILIZATIONS EMERGENCY PAVEMENT REPAIR

LOCATION	SPV.0060.009 MOBILIZATIONS EMERGENCY PAVEMENT REPAIR EA
PROJECT 1320-23-73	2
PROJECT 1320-23-73 TOTAL	2

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0210	628.7560 Tracking Pads	4.000 EACH	_____.____	_____.____
0212	628.7570 Rock Bags	130.000 EACH	_____.____	_____.____
0214	629.0210 Fertilizer Type B	61.500 CWT	_____.____	_____.____
0216	630.0140 Seeding Mixture No. 40	1,762.000 LB	_____.____	_____.____
0218	630.0200 Seeding Temporary	958.000 LB	_____.____	_____.____
0220	633.5200 Markers Culvert End	13.000 EACH	_____.____	_____.____
0222	634.0618 Posts Wood 4x6-Inch X 18-FT	103.000 EACH	_____.____	_____.____
0224	637.2210 Signs Type II Reflective H	926.010 SF	_____.____	_____.____
0226	637.2215 Signs Type II Reflective H Folding	96.980 SF	_____.____	_____.____
0228	637.2230 Signs Type II Reflective F	120.000 SF	_____.____	_____.____
0230	638.2102 Moving Signs Type II	1.000 EACH	_____.____	_____.____
0232	638.2602 Removing Signs Type II	23.000 EACH	_____.____	_____.____
0234	638.3000 Removing Small Sign Supports	24.000 EACH	_____.____	_____.____
0236	638.4000 Moving Small Sign Supports	1.000 EACH	_____.____	_____.____
0238	641.8100 Overhead Sign Support (structure) 001. S-51-258	LS	LUMP SUM	_____.____
0240	643.0300 Traffic Control Drums	89,388.000 DAY	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	690.0250 Sawing Concrete	33.000 LF	_____._____	_____._____
0400	715.0415 Incentive Strength Concrete Pavement	24,941.000 DOL	1.00000	24,941.00
0402	715.0710 Optimized Aggregate Gradation Incentive	109,737.000 DOL	1.00000	109,737.00
0404	740.0440 Incentive IRI Ride	19,350.000 DOL	1.00000	19,350.00
0406	SPV.0035 Special 001. EBS Excavation	18,267.000 CY	_____._____	_____._____
0408	SPV.0035 Special 002. EBS Backfill	18,267.000 CY	_____._____	_____._____
0410	SPV.0035 Special 003. Roadway Embankment	104,000.000 CY	_____._____	_____._____
0412	SPV.0045 Special 001. Portable Speed Trailer	754.000 DAY	_____._____	_____._____
0414	SPV.0055 Special 001. Maintain Field Office Left In Place Special Utility Fees Project 1320-23-70	30,000.000 DOL	_____._____	_____._____
0416	SPV.0060 Special 002. Temporary Stone Ditch Checks	30.000 EACH	_____._____	_____._____
0418	SPV.0060 Special 003. Sand Bags	200.000 EACH	_____._____	_____._____
0420	SPV.0060 Special 004. Temporary Sediment Traps	15.000 EACH	_____._____	_____._____
0422	SPV.0060 Special 009. Mobilizations Emergency Pavement Repair	4.000 EACH	_____._____	_____._____
0424	SPV.0060 Special 010. Section Corner Monuments	1.000 EACH	_____._____	_____._____
0426	SPV.0060 Special 012. Removing Cover Plates Left In Place	4.000 EACH	_____._____	_____._____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0456	SPV.0105 Special 306. Transport & Install State Furnished Traf Signal Cabinet STH 11 & WVW	LS	LUMP SUM	_____.____
0458	SPV.0105 Special 307. Transport & Install State Furnished Radar Det Sys STH 11 & WVW	LS	LUMP SUM	_____.____
0460	SPV.0105 Special 308. Trns & Install State Furn EVP Det Heads w/Conf Beacons STH 11 & WVW	LS	LUMP SUM	_____.____
0462	SPV.0105 Special 309. Trns & Install Traf Sig, Monotube, & Intsec Lighting Materials STH & WVW	LS	LUMP SUM	_____.____
0464	SPV.0105 Special 311. Trns & Install State Furn Traf Sig Cabinet STH 11 & International Dr	LS	LUMP SUM	_____.____
0466	SPV.0105 Special 312. Trns & Install State Furn Radar Det Sys STH 11 & International Dr	LS	LUMP SUM	_____.____
0468	SPV.0105 Special 313. Trns & Install State Furn EVP Det Heads w/Conf Beacons STH 11 & Intern'l Dr	LS	LUMP SUM	_____.____
0470	SPV.0105 Special 314. Trns & Install Traf Sig Monotube, & Int Lighting Material STH 11 & Int'l Dr	LS	LUMP SUM	_____.____
0472	SPV.0135 Special 001. Maintain Field Office Left In Place Special Project 1320-23-70	13.000 MON	_____.____	_____.____
0474	SPV.0170 Special 001. Removal and Disposal of Invasive Plant Species	15.000 STA	_____.____	_____.____
0476	SPV.0180 Special 001. Topsoil Special	97,833.000 SY	_____.____	_____.____
0478	645.0220 Geogrid Type SR	16,500.000 SY	_____.____	_____.____

Proposal ID: 20190709005 Project(s): 1320-23-70, 1320-23-73

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

Section: 0001 Total: _____.____

Total Bid: _____.____