HIGHWAY WORK PROPOSAL

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

Proposal Number: 014

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Outagamie	1130-64-71	WISC 2025135	Appleton - De Pere; I-41 Mainline, STH 96-Rr Bridge	IH 041
Outagamie	1130-64-72	WISC 2025136	Appleton - De Pere; I-41 Mainline, Rr Bridge-Lynndale	IH 041
Outagamie	1130-64-87	WISC 2025137	Appleton - De Pere; Railroad Structures	IH 041

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: $1,000,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: December 10, 2024 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time November 13, 2026	
Assigned Disadvantaged Business Enterprise Goal 6%	This contract is subject to federal oversight.

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

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

Subscribed and sworn to before me this date _____

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

Notary Seal

For Department Use Only

Type of Work:
Removals, Milling, Grading, Aggregate, Concrete Pavement, Asphalt Pavement, Structure Replacement, Culvert Pipe, Sign Structure, Curb and Gutter, Concrete Sidewalk, Storm Sewer, Beam Guard, Erosion Control, Permanent Signing, Traffic Control, Pavement Marking, Lighting, Traffic Signals, ITS, Sanitary, Water, Retaining Wall, Restoration.

Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

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.

BID PREPARATION

Preparing the Proposal Schedule of Items

A. General

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

1. Electronic bid on the internet.
2. Electronic bid on a printout with accompanying diskette or CD ROM.
3. Paper bid under a waiver of the electronic submittal requirements.

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

(3) The department will provide bidding information through the department's web site at:

https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

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

(5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.

(6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:

https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

B. Submitting Electronic Bids

B.1 On the Internet

(1) Do the following before submitting the bid:

4. Have a properly executed annual bid bond on file with the department.
5. 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.

B 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)

Effective with March 2010 Letting

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

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

Instructions for Certification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Special Provisions

Table of Contents

Article		Description	Page #
1.	Administrative.		7
	1.1	General.	7
	1.2	Scope of Work.	7
	1.3	Other Contracts.	7
	1.4	Work by Others.	8
	1.5	Notice to Contractor, Airport Operating Restrictions.	8
	1.6	Field Facilities.	8
	1.7	Notice to Contractor, Project Storage and Staging Areas.	9
	1.8	Notice to Contractor, Safety and Personnel Identification Program.	9
	1.9	Notice to Contractor, Right of Way Fencing.	9
	1.10	Notice to Contractor, Geotechnical Exploration Information.	10
2.	Prosecution and Progress.		10
	2.1	Prosecution and Progress.	10
	2.2	Notice to Contractor, New or Revised Temporary Construction Access.	14
	2.3	Notice to Contractor, New or Revised Ingress/Egress Access.	15
	2.4	Notice to Contractor, Multiple Mobilizations.	15
	2.5	Notice to Contractor, Roadway Maintenance During Construction.	16
	2.6	Baseline CPM Progress Schedule, Item SPV.0060.0100; CPM Progress Schedule and Accepted Revisions, Item SPV.0060.0105.	16
	2.7	Lane Rental Fee Assessment.	21
	2.8	Nighttime Work Lighting-Stationary.	22
3.	Meetings.		23
	3.1	Non-Mandatory Pre-Bid Meeting.	23
	3.2	Coordination with Businesses and Residents.	23
	3.3	Traffic Meetings and Traffic Control Scheduling.	24
	3.4	Partnering Meetings Monthly.	24
4.	Traffic and Restrictions to Work.		25
	4.1	Notice to Contractor, Coordination with Project ID 1130-63-72 (IH 41 Corridor Smart Work Zone).	25
	4.2	Notice to Contractor, Coordination with Project ID 1130-64-76/81 (STH 15 Interchange/Capitol Drive project).	26
	4.3	Notice to Contractor, Coordination of Traffic Control and Pedestrian Detour with Project ID 4075-40-71 (STH 96 Project).	26
	4.4	Notice to Contractor, Coordination of Traffic Control with Project ID 1130-64-73/77 (IH 41 Mainline Project)	26
	4.5	Traffic.	27

4.6 Traffic Control. 36
4.7 Traffic Impact Response Time. 37
4.8 Temporary Regulatory Speed Limit Reduction, IH 41. 38
4.9 Public Convenience and Safety. 38
4.10 Holiday and Special Event Work Restrictions. 39
4.11 Local Street Work Restrictions. 40
5. Utilities. 41
5.1 Utilities. 41
5.2 Municipality Acceptance of Sanitary Sewer and Water Main. 43
5.3 Connect to Existing Water Main, Item SPV.0060.1200. 43
5.4 Remove Water Valve and Box, Item SPV.0060.1205. 44
5.5 Furnish and Install Insulation Over Water Main, Item SPV.0060.1210. 44
5.6 Furnish and Install 16-Inch Water Valve in Manhole, Item SPV.0060.1215. 45
5.7 Furnish and Install 16-Inch Water Valve in Manhole with Water Meter, Item SPV.0060.1220. 45
5.8 Wastewater Control, Item SPV.0060.1225. 46
5.9 Connect to Existing Sanitary Sewer Force Main, Item SPV.0060.1230. 47
5.10 Furnish and Install Insulation Over Sanitary Sewer Force Main, Item SPV.0060.1235. 47
5.11 Air Valves in Manhole, Item SPV.0060.1240. 48
5.12 Adjusting Sanitary Manhole Cover, Item SPV.0060.1245. 49
5.13 Remove Water Main 16-Inch, Item SPV.0090.1200. 49
5.14 16-Inch Water Main and Fittings, Item SPV.0090.1205. 50
5.15 16-Inch Water Main and Fittings with 30-Inch Steel Casing, Item SPV.0090.1210. 51
5.16 Remove Sanitary Sewer Force Main 6-Inch, Item SPV.0090.1215; Remove Sanitary Sewer Force Main 8-Inch, Item SPV.0090.1220. 53
5.17 6-Inch Sanitary Sewer Force Main and Fittings, Item SPV.0090.1225; 8-Inch Sanitary Sewer Force Main and Fittings, Item SPV.0090.1230. 53
5.18 6-Inch Sanitary Sewer Force Main and Fittings with 18-Inch Steel Casing, Item SPV.0090.1235; 8-Inch Sanitary Sewer Force Main and Fittings with 20-Inch Steel Casing, Item SPV.0090.1240. 54
6. Railroads. 56
6.1 Railroad Insurance and Coordination, Fox Valley and Lake Superior Rail System, LLC. 56
7. Environmental. 59
7.1 Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit. 59
7.2 Information to Bidders, WPDES General Construction Storm Water Discharge Permit. 59
7.3 Notice to Contractor, Handsome Sedge. 59
7.4 Notice to Contractor, Fish Spawning. 59
7.5 Environmental Protection, Aquatic Exotic Species Control. 60
7.6 Environmental Protection, Dewatering. 60
7.7 Environmental Protection, Bypass Pumping. 61

7.8 Environmental Protection, Phragmites. 61
7.9 Environmental Protection, Northern Long Eared Bat. 61
8. Clear, Demolition and Removal. 63
8.1 Clearing and Grubbing. 63
8.2 Ground Water Monitoring Well. 63
8.3 Removing Apron Endwalls, Item 204.9060.S.0103. 63
8.4 Removing Cover Plates, Item SPV.0060.0125. 63
8.5 Removing Storm Sewer Plug, Item SPV.0060.0126. 64
8.6 Sawing Concrete Barrier Single Faced, Item SPV.0060.0127. 64
9. Earthwork. 65
9.1 Notice to Contractor, Salvaged Topsoil. 65
9.2 Embankment Construction, Benching. 65
9.3 Preparing the Foundation. 65
9.4 Staged Embankment Construction, Ramp WNA. 65
9.5 Embankment Settling Period, Ramp WND. 65
9.6 Backfill Controlled Low Strength, Item 209.0200.S. 66
9.7 Roadway Embankment, Item SPV.0035.0100. 67
10. Bases, Subbases and Pavements. 67
10.1 Notice to Contractor, Concrete Pavement Material Placement. 67
10.2 QMP Ride for PCC Riding Surfaces. 68
10.3 Concrete Pavement Bond Breaker. 74
10.4 Hot Mix Asphalt Pavement. 74
10.5 Cold Patch, Item 495.1000.S. 74
10.6 HMA Longitudinal Joint Repair, Item SPV.0090.0100. 75
10.7 Concrete Pavement 10 1/2-Inch Special, Item SPV.0180.0100 76
11. Bridges. 80
11.1 Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found. 80
11.2 Ice Hot Weather Concreting, Item 501.1000.S. 81
11.3 Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S. 82
11.4 Driven Piles. 83
11.5 Fence Track Clearance, Item 616.0800.S. 83
11.6 HPC Masonry Structures, Item SPV.0035.0800. 84
11.7 Abutment Anchorage, Item SPV.0090.0800. 89
11.8 Longitudinal Grooving Bridge Deck, Item SPV.0165.0800. 96
12. Retaining Walls and Ground Support. 97
12.1 MSE Wall Sleeve Type 7, Item SPV.0060.0900. 97
12.2 Settlement Gauge, R-44-28, Item SPV.0060.0905; Settlement Gauge, R-44-52, Item SPV.0090.0906. 97

12.3 Vibrating Wire Piezometer, Item SPV.0060.0910. 100
12.4 Inclinometer Casing, Item SPV.0060.0915. 103
12.5 Earth Pressure Cell, Item SPV.0060.0920. 105
12.6 Geotechnical Instrumentation, R-44-28, Item SPV.0060.0925; Geotechnical Instrumentation, R-44-52, Item SPV.0060.0926. 108
12.7 Structure Survey Target, Item SPV.0060.0930. 116
12.8 Wall Concrete Panel Mechanically Stabilized Earth R-44-28, Item SPV.0165.0900; Wall Concrete Panel Mechanically Stabilized Earth R-44-52, Item SPV.0165.0905; Wall Concrete Panel Mechanically Stabilized Earth R-44-53, Item SPV.0165.0910. 117
12.9 Load Transfer Platform, Item SPV.0195.0105. 125
13. Drainage and Erosion Control. 133
13.1 Erosion Control. 133
13.2 Storm Sewer. 133
13.3 Catch Basins, Manholes, and Inlets. 134
13.4 Notice to Contractor, Pond APC Dewatering. 134
13.5 Inlet Covers Type VV-B. 135
13.6 Cover Plates Temporary, Item 611.8120.S. 135
13.7 Pipe Grates 30-Inch, Item 611.9850.S.0001. 135
13.8 Silt Fence Heavy Duty, Item 628.1530.S; Silt Fence Heavy Duty Maintenance, Item 628.1535.S. 136
13.9 Pond Liner Clay, Item 640.1303.S. 137
13.10 Temporary Ditch Checks. 139
13.11 Stone Ditch Checks, Item 628.7515.S. 140
13.12 Pond APC Outlet Storm Sewer Structure, Item SPV.0060.0205. 140
13.13 Storm Sewer Plug, Item SPV.0060.0210. 141
13.14 Reconnect Storm Sewer, Item SPV.0060.0215. 141
13.15 Fastening Sewer Access Covers, Item SPV.0060.0220. 142
13.16 Cover Plates, Item SPV.0060.0225. 142
13.17 Inlet Covers Type Y, Item SPV.0060.0230. 143
13.18 Detention Pond Anti-Seep Collar, Item SPV.0060.0235. 143
13.19 Sealing Storm Structure, Item SPV.0060.0240. 143
13.20 Inlets 2.25x3.5-FT, Item SPV.0060.0245. 144
13.21 Temporary Water Diversion B-44-347 Station 670SB+71, Item SPV.0060.0255; Temporary Water Diversion B-44-347 Station 669NB+80, Item SPV.0060.0260; Temporary Water Diversion B-44-348 Station 665NB+92, Item SPV.0060.0265. 144
13.22 Street Sweeping, Item SPV.0075.0100. 146
13.23 Drain Slotted Vane Permanent, Item SPV.0090.0200. 147
13.24 Drain Slotted Vane Temporary, Item SPV.0090.0205. 147
13.25 Cured in Place Pipe Liner, 42-Inch, Item SPV.0090.0210. 148

13.26 Topsoil Filled Riprap, Item SPV.0180.0200. 153
14. Miscellaneous Concrete. 153
14.1 Protection of Concrete 153
14.2 Concrete Barrier Single Slope, Barrier Pad. 153
15. Signing and Marking. 154
15.1 Blue Specific Service Signs. 154
15.2 Fixed Message Sign Portable Support, Item SPV.0060.0400. 154
15.3 Fire Hydrant Sign Mounting, Item SPV.0060.0405. 154
15.4 Removing Pavement Marking. 155
16. Lighting and Electrical. 156
16.1 General Requirements for Electrical Work. 156
16.2 Notice to Contractor, STH 96 Signal Retiming. 156
16.3 Notice to Contractor, Coordination with Project 4570-40-71 (S44-0309) 156
16.4 Electrical Meetings 156
16.5 Removing Anchor Bolt Cover Shrouds, Item 204.9060.S.0600 157
16.6 Install Conduit Into Existing Item, Item 652.0700.S. 157
16.7 Electrical Service for IH 41 NB and STH 96 158
16.8 Poles Type 5 Aluminum, Item 657.0322; Poles Type 17 Aluminum, 657.0337. 159
16.9 Luminaires Utility LED B, Item 659.1120; Luminaires Utility LED C, Item 659.1125. 159
16.10 Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S. 159
16.11 Anchor Bolt Cover Shroud, Item SPV.0060.0500. 160
16.12 Remove Traffic Signal IH 41 NB and STH 96 (S44-0309), Item SPV.0060.0600; Remove Traffic Signal IH 41 SB and STH 96 (S44-1403), Item SPV.0060.0605. 161
16.13 Concrete Bases Type 7 Tall, Item SPV.0060.0615. 161
17. ITS. 162
17.1 Intelligent Transportation Systems (ITS), Control of Materials. 162
17.2 Intelligent Transportation Systems, General Requirements. 163
17.3 Removing Communication Vault, Item 204.9060.S.0700. 166
17.4 Ramp Closure Gates 37-FT, Item 662.1037.S; Ramp Closure Gates 40-FT, Item 662.1040.S. 166
17.5 Install Pole Mounted Cabinet, Item 673.1225.S. 167
17.6 Salvaging Ramp Gate System, Item SPV.0060.0700. 168
17.7 Adjusting Communication Vault, Item SPV.0060.0705. 169
17.8 Install Ethernet Extender, Item SPV.0060.0710 169
17.9 Salvaging Microwave Detector Equipment, Item SPV.0060.0715. 170
17.10 Salvaging Wireless Antennas, Item SPV.0060.0720 171
18. Miscellaneous and Incidental Construction 171
18.1 Noise Barriers Double-Sided Sound Absorptive N-44-11, Item 541.0300.S.0951; Noise Barriers Double-Sided Sound Absorptive N-44-20, Item 541.0300.S.0952 171

18.2 Midwest Guardrail System (MGS)....178
18.3 Fence Safety, Item 616.0700.S....178
18.4 Seismograph 1130-64-72, Item 999.1001.S....179
18.5 Crack and Damage Survey, Item 999.1501.S. 180
18.6 Construction Staking Survey Project 1130-64-71, Item SPV.0060.0110; Construction Staking Survey Project 1130-64-72, Items SPV.0060.0115; Construction Staking Survey Project 1130-64-87, Item SPV.0060.0120....181
18.7 Concrete Barrier Transition, Item SPV.0060.0140....182
18.8 Mobilizations Emergency Pavement Repair, Item SPV.0060.0160. 183
18.9 Emergency Response to Traffic Involving Concrete Barrier Temporary, Item SPV.0060.0305. ..183
18.10 Emergency Response to Traffic Involving Crash Cushion Temporary, Item SPV.0060.0310. 184
18.11 Maintain and Remove Crash Cushions Temporary Left In Place, Item SPV.0060.0315. 185
18.12 Temporary Concrete Barrier Gate, 24-FT, Item SPV.0060.320....186
18.13 Crash Cushion Temporary Left in Place, Item SPV.0060.0325....186
18.14 Obstructions Foundation Drilling, Item SPV. 0075.0105. 187
18.15 Concrete Barrier Type S42 Special, Item SPV.0090.0115; Concrete Barrier Type S56 Special, Item SPV.0090.0120. 188
18.16 Concrete Barrier Fixed Object Protection Type S56 Special, Item SPV.0090.0125. 188
18.17 Concrete Barrier Temporary Precast Left in Place, Item SPV.0090.0150. 188
18.18 Maintain and Remove Concrete Barrier Temporary Left In Place, Item SPV.0090.0300. 189
18.19 Glare Screen Temporary, Item SPV.0090.0305. 190

SPECIAL PROVISIONS

1. Administrative.

1.1 General.

Perform the work under this construction contract for Project 1130-64-71, IH 41, STH 96 to Railroad Bridges; Project 1130-64-72, IH 41, Railroad Bridges to Lynndale Drive ; and Project 1130-64-87, IH 41, Railroad Bridges; 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, 2025 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 (20240703)

1.2 Scope of Work.

The work under this contract shall consist of common excavation, roadway embankment, base aggregate, concrete pavement, HMA pavement, storm sewer, bridges (B-44-0339/0340), culverts (B-44-0347/0348), noise barriers (N-44-0011/0020) retaining walls (R-44-0028/0052/0053), sign structures (S-44-0322/0323/0330/0332/0333/0334/0347/0348/0349/0350/0363), erosion control, signing, pavement marking, lighting, ITS, traffic signals and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

1.3 Other Contracts.

Coordinate the work according to standard spec 105.5. Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others. Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts. It is expected that routine maintenance by the town 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:

The following projects will be under construction concurrently with the work under this contract. Coordinate trucking activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

IH 41, Project 1120-57-60/1517-14-71; IH 41, Neenah – Appleton, Breezewood to STH 15 in Winnebago and Outagamie counties. Work under 1120-57-60 and 1517-14-71 contracts are anticipated to be completed November 2024, before this contract starts. There is no anticipated impact to this contract.

IH 41, Project 1130-63-72; IH 41, Appleton – De Pere, Smart Work Zone in Outagamie and Brown counties. Work under this contract is anticipated to begin in April 2025. Limits of the smart work zone project overlap the limits of this project.

IH 41, Project 1130-64-76/81; IH 41, Appleton – De Pere, Northland/STH 15 Interchange (1130-64-76) and Capitol Drive Overpass (1130-64-81) in Outagamie County. Work on the Capitol Drive Overpass (1130-64-81) is anticipated to be completed in Fall 2024. Work on the Northland/STH 15 Interchange is anticipated to begin in the Winter of 2025. Limits of construction for 1130-64-76 project overlap the project limits of this contract in the area of the STH 15 interchange.

STH 96, Project 4075-40-71; West Wisconsin Avenue, Casaloma Drive to N. Badger Avenue in Outagamie County is anticipated to begin in August 2025. Utility relocation work is occurring in advance of the project. Utility relocations west of Perkins Street are anticipated to completed by September 2024. Relocations east of Perkins Street are anticipated to completed by April 2025. Lane closures on STH 96 will be required to complete the utility relocations. Limits of construction for the 4075-40-71 project overlap the projects of this contract in the area of the STH 96 interchange.

IH 41, Project 1130-65-76; Appleton – De Pere, Ballard Road (CTH E) Interchange in Outagamie County. Work under this contract is anticipated to begin in April 2025, with completion in November 2025. There is no anticipated impact to this contract.

IH 41, Project 1130-64-73/77; Appleton – De Pere, Lynndale Drive to Meade Street (1130-64-73) and Richmond Street (STH 47) Interchange (1130-64-77) in Outagamie County. Work under this contract is anticipated to begin in July 2025. Work under the 1130-64-77 project is anticipated to be completed by November 2025. Work under project 1130-64-73 is anticipated to be completed by November 2028. Limits of construction for the 1130-64-73 project will overlap with this project.

IH 41, Project 1130-65-71/72/73/74/77/78/79; Appleton – De Pere, Meade Street to Holland Road (1130-65-71/72/73), STH 441 Structures (1130-65-74/77/78) and CTH OO Interchange (1130-65-79). Work under this contract is expected to begin July 2026. It is anticipated all work under this contract will be completed by November 2028. There is no anticipated impact to this project.

Westfield Drive (Town of Grand Chute); Paving of Westfield Drive from the intersection with Brewster Street to approximately 500 feet north. Limits of construction for the repaving project will overlap with this project.

Brewster Street (Town of Grand Chute); Reconstruction and extension of Brewster Street from STH 96 to Westfield Drive. Limits of construction for the Brewster Street project do not overlap this project. However, construction activities on Brewster Street could affect access to Westfield Drive.

See the Town of Grand Chute's capital improvement plan for a current list of projects in the area of this project (Grand Chute Capital Improvement Projects).

IH 41 Interchange Landscaping (Outagamie County); Landscaping and plantings at the STH 15 interchange with IH 41 are anticipated to begin in Fall 2025. Limits of the landscaping project overlap the limits of this project.

ner41-105 (12052023)

1.4 Work by Others.

Traffic Signals

At the intersection of IH 41 NB and STH 96, IH 41 SB and STH 96, the department's Northeast Region Electrical Unit, (920) 366-7521, will perform the following work:

- Provide and install the Microwave detectors and cables.
- Terminate all electrical wire in the signal control cabinet.
- Provide and install EVP heads.
- Remove existing signal cabinet.

Notify the department's Northeast Region Electrical Unit at (920) 366-7521 at least three (3) weeks prior to final installation of the traffic signal equipment for S44-0309 and S44-1403.

Automatic Traffic Recorder (ATR)

Coordinate the removal of the existing ATR along southbound IH 41, approximately Station 574SB+00, with WisDOT. Contact Russell Lewis at (608) 516-5754 or email Russell.lewis@dot.wi.gov at least 3 weeks before the ATR needs to be removed.

The new ATR will be installed in the IH 41 median during Stage 3, approximately Station 574NB+00. Coordinate with Russell Lewis at least 3 weeks before the ATR needs to be installed.

1.5 Notice to Contractor, Airport Operating Restrictions.

Fill out the Federal Aviation Administration (FAA) Notice Criteria Tool for all permanent structures (bridge, light pole, etc.) or equipment (crane, etc.) used during construction.

https://oeaaa.faa.gov/oeaaa/external/portal.jsp

If required by the Notice Criteria Tool, and for all crane or construction equipment higher than 200 feet above the ground, submit completed form 7460-1 (Notice of Proposed Construction or alteration) to the FAA at least 45 days before starting construction.

ner41-100 (20240401)

1.6 Field Facilities.

The department will provide primary field facilities for this project located at 3600 Commerce Court, Appleton, WI 54911.

The contractor is required to schedule and attend all meetings at the department provided field office facility. Formal meetings, unless otherwise specified, will not be scheduled at any offsite locations other than the field facility provided by the department.

ner41-105 (12052023)

1.7 Notice to Contractor, Project Storage and Staging Areas.

Supplement standard spec 106.4(2) and 107.9 with the following:

To accommodate staged construction of the department planned contracts for the IH 41 corridor expansion project, the department will implement a review and approval process for use of storage and staging areas within the right-of-way and adjacent to the project.

Equipment and materials can be stored within the slope intercepts shown on the plan and within the footprint of the roadway or structures within the project limits. Storage of equipment and materials will not be allowed in areas which are restricted by traffic and other requirements provided in the special provisions.

Make any requests for storage and staging areas located outside of the slope intercepts or outside of the proposed roadway and structure footprints to the engineer. The request should include the anticipated date for occupying the area, the anticipated date for vacating the area, and a proposed restoration plan for the area. The planned project storage and staging areas shall be submitted to the engineer for review and approval a minimum of 14 calendar days prior to the anticipated implementation. Review by the engineer does not constitute approval.

ner41-106 (12052023)

1.8 Notice to Contractor, Safety and Personnel Identification Program.

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. All workers shall wear OSHA and ANSI compliant safety pants within the right of way of a roadway with a posted speed limit of 50 mph or greater unless separated from traffic by positive protection (e.g., temporary concrete barrier). From dusk to dawn, all workers shall wear OSHA and ANSI compliant safety pants.

The prime contractor shall provide a copy of their current Company Safety Plans to the department 7 days prior to the preconstruction meeting. All workers shall comply with the Safety Plans of their employer.

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 hat sticker with an identification number by the department. Stickers shall be placed in a visible location on the hard hat. Register at the IH 41 corridor field office during normal business hours.

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 applicable under the contract.

ner41-108 (05072024)

1.9 Notice to Contractor, Right of Way Fencing.

Maintain existing right-of-way fencing, as shown in plans, until construction operations require removal, or as directed by the engineer. Notify the department 7 calendar days in advance of existing fence removal. Do not remove any existing fence without prior approval from the engineer.

Provide temporary connections between existing and proposed fencing as needed to maintain continuous right-of-way fencing at all times. Fencing quantities have been included in the contract for this purpose.

Submit a fence staging plan to the engineer detailing existing fence removal, proposed fence placement, and temporary fence use. Temporary fencing use to be kept to a minimum. Staging of installation shall provide adequate measures to protect the general public.

Maintain all existing freeway right-of-way fencing or temporary fencing disturbed by operations.

ner41-616 (07092024)

1.10 Notice to Contractor, Geotechnical Exploration Information.

Information relative to subsurface exploration, borings, soundings, water levels, elevations, or profiles is available for review at the department's Region office. Contact Tim Verhagen, (920) 492-5643 or timothy.verhagen@dot.wi.us, to request this information.

- Geotechnical Site Investigation Report: B-44-339&340
- Geotechnical Site Investigation Report: B-44-347&348
- Geotechnical Site Investigation Report: R-44-28 and Foundation Improvements
- Geotechnical Site Investigation Report: R-44-52
- Geotechnical Site Investigation Report: R-44-53
- Geotechnical Site Investigation Report: N-44-11
- Geotechnical Site Investigation Report: N-44-20
- Geotechnical Site Investigation Report: OSS Non-Standard Foundations
- Geotechnical Site Investigation Report: OSS Standard Foundations
- Geotechnical Site Investigation Report: Lynndale Pond
- Geotechnical Site Investigation Report: I-41 SB Embankments

Review the available information to determine if it is of use. Whether or not the listed geotechnical information is used, the work shall still be carried out in accordance with the plans and specifications.

2. Prosecution and Progress.

2.1 Prosecution and Progress.

General

Begin work within 10 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 10 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.

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

Excess fill material and cleared and grubbed material should be stockpiled on upland areas an adequate distance away from wetlands, storm sewer inlets, floodplains, and the waterways. Provide erosion control devices for stockpiled soil to avoid erosion and nuisance dust emissions.

Construction Overview

This information is included to assist the contractor and its subcontractors; do not interpret this information as a demonstration of specified means and methods. Coordinate the schedule of operations for the construction staging as shown in the plans and as noted in these special provisions. Do not move operations ahead within the proposed construction staging unless modifications to the staging and schedule are approved in writing by the engineer. Staging modifications shall address traffic and construction.

Stage 1A

IH 41

- Begin constructing B-44-0347 beneath IH 41 northbound.
- Remove existing subgrade as indicated on the plans.
- Begin constructing temporary widening along outside lane and shoulder of IH 41 northbound.

Lynndale Drive

- Construct temporary pedestrian path along southbound Lynndale Drive.
- Construct median crossovers on Lynndale Drive north and south of IH 41 overpass.

Stage 1B

IH 41

- Complete the section of B-44-0347 beneath IH 41 northbound.
- Continue removing existing subgrade as indicated on the plans.
- Continue constructing temporary widening along outside lane and shoulder of IH 41 northbound.
- Begin Ramp WND earthwork.
- Begin constructing R-44-0028. Prior to constructing of the rigid inclusions and R-44-0028, install the storm sewer along Westfield Drive.

Lynndale Drive

- Begin constructing B-44-0348 beneath northbound Lynndale Drive.

Stage 1C

IH 41

- Complete construction of the temporary widening along the outside shoulder of IH 41 northbound and beneath B-44-0315 and B-44-0316.
- Remove median barrier and construct temporary pavement between median shoulders along IH 41 northbound and southbound.
- Continue Ramp WND earthwork.
- Continue constructing R-44-0028.
- Construct IH 41 southbound median crossovers south of STH 96 and east of Lynndale Drive.
- Mill and pave the existing rumble strip on the IH 41 northbound median shoulder.
- Construct the IH 41 ramp crossover for the temporary IH 41 northbound exit ramp to STH 15.
- Construct the IH 41 median ramp crossover for the temporary IH 41 southbound exit ramp to STH 15.
- Construct the section of B-44-0347 beneath the IH 41 median.

Lynndale Drive

- Complete section of B-44-0348 under northbound Lynndale Drive.
- Construct northbound lanes of Lynndale Drive.

Stage 2A

IH 41

- Begin constructing proposed IH 41 southbound lanes, outside shoulder and temporary drainage ditch.
    - Complete construction of proposed IH 41 southbound travel lanes and outside shoulder from Station 543SB+00 to Station 554SB+75.
    - Construct the IH 41 median ramp crossover for the temporary IH 41 southbound exit ramp to STH 96.

- Begin constructing proposed Ramp WND.
    - Complete construction proposed Ramp WND from Station 1537WND+00 to Station 1541WND+00.
- Begin constructing B-44-0340, S-44-0323, S-44-0332, S-44-0347, S-44-0349 and N-44-0020.
- Begin constructing Pond APC.
- Continue constructing R-44-0028
- Begin earthwork for R-44-0052.
- Complete construction of B-44-0347 beneath IH 41 southbound.

Lynndale Drive

- Complete construction of B-44-0348 beneath southbound Lynndale Drive.
- Construct southbound lanes of Lynndale Drive.

Stage 2B

IH 41

- Complete construction of proposed IH 41 southbound travel lanes, outside shoulder and temporary drainage ditch.
- Complete construction of Ramp WND and Ramp NLC.
- Complete construction of B-44-0340, N-44-0020 and R-44-0028.
- Remove/abandon portion of the existing box culvert (C-44-0015) beneath the IH 41 southbound lanes after relocating the ditch flow through B-44-0347 and B-44-0348.
- Complete construction of Pond APC.
- Construct S-44-0330.
- Continue construction of S-44-0323, S-44-0332, S-44-0347 and S-44-0349.

Lynndale Drive

- Remove temporary median crossovers on Lynndale Drive and replace curb and gutter and grass median.

2025/2026 Winter Shutdown

- Install traffic control devices and place pavement markings for the Winter Shutdown configuration.
- All work described within Stages 1 and 2 shall be completed for traffic to be in the Stage 3 winter shutdown configuration on an agreed date determined by the engineer. After the winter shutdown, do not begin or resume work before receiving the engineer’s written approval. Provide a start date to the engineer in writing at least 14 calendar days prior to planned work in 2026.

Stage 3

IH 41

- Construct IH 41 southbound median shoulder, barrier wall and temporary drainage ditch.
- Construct the mainline crossover for IH 41 northbound traffic east of Lynndale Drive.
- Begin constructing S-44-0348 and S-44-0363.
- Complete construction of S-44-0323, S-44-0332, S-44-0347 and S-44-0349.
- Remove the portion of C-44-0015 in the work zone.

Lynndale Drive

- All work on Lynndale Drive is complete.

Stage 4A

IH 41

- Begin constructing proposed IH 41 northbound travel lanes and shoulders and WNA Ramp.
    - Construct IH 41 northbound travel lanes from Station 557NB+30 to Station 576NB+00.
    - Complete construction of IH 41 northbound lanes and shoulders from Station 599NB+00 to Station 603NB+00.
    - Construct the inside two lanes and median shoulder from Station 603NB+00 to Station 669NB+00.
- Construct the IH 41 temporary median pavement between the proposed IH 41 southbound shoulder and the IH 41 northbound inside travel lane for the IH 41 northbound exit ramp crossover to
STH 15.
- Construct temporary entrance ramp crossover from NLA Ramp to proposed IH 41 northbound pavement.
- Complete proposed Ramp NLB.
- Begin constructing B-44-0339, R-44-0052, R-44-0053, N-44-0011 and S-44-0322.
- Continue constructing S-44-0348 and S-44-0363.
- Remove the portion of C-44-0015 in the work zone.

Lynndale Drive

- All work on Lynndale Drive is complete.

Stage 4B

IH 41

- Complete construction of all IH 41 northbound travel lanes and shoulders.
    - Construct the IH 41 northbound outside lanes and shoulder from Station 603NB+00 to Station 672NB+55.
- Complete proposed Ramp WNA and proposed Ramp NLA.
- Complete construction of B-44-0339, R-44-0052, R-44-0053, N-44-0011, S-44-0333, S-44-0334, S-44-0348 and S-44-0363.

Lynndale Drive

- All work on Lynndale Drive is complete.

Stage 5

IH 41

- Remove IH 41 median crossover south of B-44-0158 and replace median shoulders and median barrier from Station 525NB+25 to Station 535NB+65.
- Remove temporary widening and construct proposed IH 41 median shoulders and median barrier from Station 557NB+35 to Station 573NB+00.
- Remove temporary outside shoulder along IH 41 southbound and construct proposed IH 41 southbound outside shoulder from Station 592SB+00 to Station 602SB+00.
- Remove temporary ramp crossover along Ramp NLA and complete proposed grading.

Lynndale Drive

- All work on Lynndale drive is complete.

Northbound IH 41 Exit to STH 15/Northland Avenue

The contract documents for the 1130-64-76/81 (STH 15 Interchange/Capitol Drive) project allow the contractor constructing the 1130-64-76/81 project a long term closure of the Northbound IH 41 exit ramp to STH 15/Northland Avenue after the Fox Valley Technical College (Appleton campus) spring 2025 commencement ceremony. The anticipated date of the commencement ceremony is May 18, 2025.

In calendar year 2026, unless directed by the engineer, access to STH 15/Northland Avenue from IH 41 northbound shall be provided at all times.

Interim Completion and Liquidated Damages – Ramp WND Closure, Stage 2A

Complete all Stage 2A work required to reopen the SB IH 41 exit ramp to STH 96 (Ramp WND) within 160 calendar days.

If the contractor fails to complete all Stage 2A work necessary to fully reopen the WND Ramp to traffic within 160 days, the department will assess the contractor $4,750 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 160 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Interim Completion and Liquidated Damages – 2025/2026 Winter Shutdown: November 13, 2025

If the contractor fails to complete all work necessary to shift traffic to their respective locations as shown in the 2025/2026 Winter Shutdown typical sections including all ramps at STH 96 and WIS 15 open to traffic by November 13, 2025, the department will assess the contractor $10,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on November 14, 2025. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Interim Completion and Liquidated Damages – Ramp WNA Closure, Stage 4

Complete all Stage 4 work required to reopen the NB IH 41 entrance ramp from STH 96 (Ramp WNA) within 180 calendar days.

If the contractor fails to complete all Stage 4 work necessary to fully reopen the WNA Ramp to traffic within 180 days, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 180 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

2.2 Notice to Contractor, New or Revised Temporary Construction Access.

The use of any construction access point(s) through the right of way which are not shown in the plans is prohibited without the prior written approval from FHWA and the department. To obtain written approval for temporary access through the right of way during construction, a Work Zone Access Request shall be submitted to the engineer. Contact the engineer to obtain a copy of the Work Zone Access Request. Requirements of the Interstate Access Justification Report (IAJR) for access during construction includes, but is not limited to, the following:

Plan Details:

- The location, dimensions, grades, and slopes for any new/revised temporary construction access point(s) to IH 41.
- Traffic control measures that are required to manage this access change.
- Traffic control measures that are required to secure/close any new construction access points when not in use.
- Erosion control measures required to manage this change, including the location(s) of any tracking pad(s).

Written summary of proposed temporary construction access change including:

- Timeframe to construct, duration in place, and time to remove.
- Cost of proposed temporary access including grading, traffic control, erosion control, and all other items and incidentals to implement and remove the access.
- Benefits in implementing the change (i.e., cost or time savings, ease of construction, increased safety to workers, and the traveling public).
- Signed Construction Permit, Right of Entry, or similar documentation if temporary access crosses private property.

The Work Zone Access Request shall be provided to the engineer a minimum of 14 calendar days prior to the anticipated implementation of the new/revised temporary construction access through the right of way. The request will be reviewed, and if warranted, concurred with by the designated department staff. Following department concurrence, the Work Zone Access Request will be forwarded to FHWA for review and processing. A submittal does not guarantee approval.

ner41-100 (08122024)

2.3 Notice to Contractor, New or Revised Ingress/Egress Access.

The use of any construction ingress and egress access point(s) which are not shown in the plans is prohibited without the prior written approval from the engineer. To obtain written approval for new or revised ingress and egress construction access, a Work Zone Access Request shall be submitted to the engineer. Contact the engineer to obtain a copy of the Work Zone Access Request. Requirements of the Work Zone Access request for access during construction includes, but is not limited to, the following:

Plan Details:

- The location, dimensions, grades, and slopes for any new/revised ingress and egress access point(s).
- Traffic control measures that are required to manage the ingress and egress change.
- Traffic control measures that are required to secure/close any new or revised ingress and egress access points when not in use.
- Erosion control measures required to manage this change, including the location(s) of any tracking pad(s).

Written summary of proposed temporary construction access change including:

- Timeframe to construct, duration in place, and time to remove.
- Cost of proposed temporary access including grading, traffic control, erosion control, and all other items and incidentals to implement and remove the access.
- Benefits in implementing the change (i.e., cost or time savings, ease of construction, increased safety to workers, and the traveling public).

The Work Zone Access Request shall be provided to the engineer a minimum of 14 calendar days prior to the anticipated implementation of the new/revised temporary construction access to IH 41through the right of way. The request will be reviewed, and if warranted, concurred with by the designated department staff. A submittal does not guarantee approval.

ner41-100 (08122024)

2.4 Notice to Contractor, Multiple Mobilizations.

The contractor is advised that there may be multiple mobilizations for such items as traffic control, detours, signing items, temporary pavement markings and other incidental items related to the staging. The department will make no additional payment for said mobilizations.

ner41-100 (12052023)

2.5 Notice to Contractor, Roadway Maintenance During Construction.

Supplement standard spec 104.6.1 with the following:

Assist with maintenance of existing roadways and bridges, including work to maintain the existing freeway and local streets during construction and accommodating local repair forces within the work zones. The department will pay for necessary work and materials at the contract unit prices of the bid items used or as extra work if the necessary bid items are not included in the contract.

ner41-100 (03182024)

2.6 Baseline CPM Progress Schedule, Item SPV.0060.0100; CPM Progress Schedule and Accepted Revisions, Item SPV.0060.0105.

Replace standard spec 108.4 with the following:

108.4 Critical Path Method Progress Schedule

108.4.1 Definitions

The department defines terms used in standard spec 108.4 as follows:

Activity	An administrative or construction task performed during the course of the project with a defined duration and scheduled (or actual) start and finish dates.
Critical Path	The longest continuous chain of activities through the CPM schedule that establishes the minimum overall project duration.
Construction Activity	Construction activities are discrete work activities performed by the contractor, subcontractors, utilities, or third parties within the project limits.
CPM Progress Schedule	A Critical Path Method (CPM) Progress Schedule is a network of logically related activities. The CPM schedule calculates when activities can be performed and establishes the critical or longest continuous path or paths of activities through the project.
Data date	The earliest work period after the date through which a schedule is current. Everything occurring earlier than the date date is “as-built” and everything on or after the data date is “as-planned”.
Preliminary Construction Schedule (PCS)	The department’s schedule for the contract work, developed during design, and provided to the contractor for informational purposes only.
Float	Float, as used herein, is the total float of an activity; i.e., it is the amount of time between the date when an activity can start (the early start), and the date when an activity must start (the late start). In cases where the total float of an activity has a different value when calculated based on the finish dates, the lower (more critical) value will govern.
Forecast Completion Date	The completion date predicted by the latest accepted CPM Update, which may be earlier or later than the contract completion date, depending on progress.
Fragnet	A group of logically-related activities, typically inserted into an existing CPM schedule to model a portion of the project, such as the work associated with a change order.
Initial Work Plan	The initial work plan is a time-scaled CPM schedule showing detailed activities for the first 90 calendar days of work and summary level activities for the remainder of the project.
Intermediate Milestone Date	A contractually required date for the completion of a portion of the work, so that a subsequent portion of the work or stage of traffic phasing may proceed.
Master Project Schedule	The department’s schedule for the contract work, developed during design, and provided to the contractor for informational purposes only.
Work Breakdown Structure (WBS)	A framework for organizing the activities that make up a project by breaking the project into successively greater detail by level. A WBS organizes the project work. It does not address the sequencing and scheduling of project activities.

108.4.2 Department's Preliminary Construction Schedule

The department's Preliminary Construction Schedule was developed during the design phase of the contract. Its purpose was to illustrate work areas per Stage/Phase of construction. Durations and resource availability are department estimates only. Contractor is solely responsible for its use of means and methods and as such is fully responsible for determining durations based on own estimate of production and available resources. The suggested use of the department's Preliminary Construction Schedule is ease of identification of work availability during each Stage/Phase and the logical relationship between the Stages/Phases. The Preliminary Construction Schedule reflects one possible approach to completing the work, consistent with the traffic phasing requirements and the interim/final completion date(s) contained in the contract. The logic contained in the Preliminary Construction Schedule is not intended to alter or supplement contract requirements for the phasing of the work, but to reflect those requirements. Any reliance on the department's Preliminary Construction Schedule is at the sole risk of the contractor.

108.4.3 Contractor's Scheduling Responsibilities

Prepare and submit a CPM progress schedule that accurately reflects the plan for the performance of the work, based on the physical requirements of the Work, and Traffic Phasing requirements. The CPM schedule is the contractor's committed plan to complete all work within the completion deadlines. The contractor assumes full responsibility for the prosecution of the work as shown. Schedule the Work in the manner required to achieve the completion date and intermediate milestone dates specified in the Prosecution and Progress Special Provision.

Use the latest version of Primavera Project Planner (P6), by Primavera Systems, Inc., Bala Cynwyd, PA to prepare the Initial Work Plan, Baseline CPM Progress Schedule, and Monthly CPM Updates.

Designate a Project Scheduler who will be responsible for scheduling the Work and submit for approval a professional resume describing a minimum of three years of scheduling experience on urban, interstate-highway reconstruction work of similar size and complexity, including recent experience with P6.

108.4.4 Submittals

108.4.4.1 Initial Work Plan

At least 10 business days before the preconstruction meeting, submit an Initial Work Plan (IWP) schedule consisting of the following:

1. Provide a detailed plan of activities to be performed within the first 90 calendar days of the contract. Provide construction activities with durations not greater than 28 calendar days (20 business days), unless the engineer accepts requested exceptions.
2. Provide activities as necessary to depict administrative work, including submittals, reviews, and procurements that will occur within the first 90 calendar days of the contract. Activities other than construction activities may have durations greater than 28 calendar days (20 business days). Allow 21 calendar days (15 business days) for department review of submittals.
3. Do not actualize any tasks.
4. Schedule all intermediate milestones in the proper sequence and input as either a "Start On or After" or "Finish On or Before" date. Do not use other constraint types, within the software, without prior approval by the engineer. Do not apply date constraints on any work tasks without prior approval by the engineer. Provide predecessors and successors for each intermediate milestone as necessary to model each Stage of the Work. Unless the engineer accepts a requested exception, the schedule should encompass all the time in the contract period between the starting date and the specified completion date.
5. Provide summary activities for the balance of the project. Summary activities may have durations greater than 28 calendar days (20 business days).
6. Submit the IWP Schedule, including the P6 native data file (XER) and an electronic file (PDF). Submit the P6 native data file (XER) and an electronic file (PDF) to the project engineer and the following DOT email boxes; DOTDTSDNERI41@dot.wi.gov

7. The engineer will accept the contractor's Initial Work Plan or provide comments within ten business days after receipt of the Initial Work Plan. Within five business days of receiving the IWP Schedule, the department will schedule a workshop for the contractor to present the IWP Schedule and to answer questions raised during the department's review. Address comments and resubmit the Initial Work Plan as necessary. Do not begin work until the engineer accepts the Initial Work Plan. The department will use the initial work plan to monitor the progress of the work until the Baseline CPM Progress Schedule is accepted.
8. If the baseline acceptance extends more than a month into construction, submit an updated version of the Initial Work Plan on a monthly basis until the engineer accepts the Baseline CPM Progress Schedule. With each update, include actual start dates, completion percentages, and remaining durations for activities started but not completed. Include actual finish dates for completed activities.

108.4.4.2 Baseline CPM Progress Schedule

Within ten business days of receiving an approved IWP, as required by the contract, submit a Baseline CPM Progress Schedule and written narrative consisting of the following:

1. Develop the Baseline CPM schedule. The Baseline CPM is the contractor's committed plan to complete the Work within the time frames required to achieve the contract completion date and Intermediate milestone dates. The department will use the schedule to monitor the progress of the work. Include the following:
   - 1.1 Provide a detailed plan of activities to be performed during the entire contract duration, including all administrative and construction activities required to complete the work as described in the contract documents. Provide construction activities with durations not greater than 28 calendar days (20 business days), unless the engineer accepts requested exceptions.
   - 1.2 Provide activities as necessary to depict administrative work, including submittals, reviews, procurements, inspections, and all else necessary to complete the work as described in the contract documents. Activities other than construction activities may have durations greater than 28 calendar days (20 business days). Allow 21 calendar days (15 business days) for department review of submittals.
   - 1.3 Provide activities as necessary to depict third party work related to the contract.
   - 1.4 Make allowance for specified work restrictions, non-working days, time constraints, calendars, and weather; and reflect involvement and reviews by the department, and coordination with adjacent contractors, utility owners, and other third parties.
   - 1.5 With the exception of the Project Start Milestone and Project Completion Milestone, all activities must have predecessors and successors. The start of an activity shall have a Start-to-Start or Finish-to-Start relationship with preceding activities. The completion of an activity shall have a Finish-to-Start or Finish-to-Finish relationship with succeeding activities. Do not use Start-to-Finish relationships. Do not use Finish-to-Start relationships with a lag unless the engineer accepts requested exceptions.
   - 1.6 Schedule activities shall include a clear and legible description. The use of abbreviations shall be limited. Descriptions shall include an action verb describing the work performed, a basic description of the materials used, and, where applicable, a general location of the work.
   - 1.7 Schedule activities shall include a clear and legible description. The use of abbreviations shall be limited. Descriptions shall include an action verb describing the work performed, a basic description of the materials used, and, where applicable, a general location of the work.
   - 1.7 Schedule all intermediate milestones in the proper sequence and input as either a "Start On or After" or "Finish On or Before" date. Do not use other constraint types, within the software, without prior approval by the engineer. Do not apply date constraints on any work tasks without prior approval by the engineer. Provide predecessors and successors for each intermediate milestone as necessary to model each Stage of the Work. Unless the engineer accepts a requested exception, the schedule should encompass all the time in the contract period between the starting date and the specified completion date.
   - 1.8 Develop and submit an anticipated cash-flow curve for the project within the P6 application, based on the Baseline CPM schedule by assigning cost values to stage or substage summary tasks that total the value of the contract. An example will be provided by the department of a previously accepted cash-flow diagram (created in p6). The example will provide resource type and details required.
   - 1.9 Provide budgeted quantities consistent with the bid quantities on selective construction tasks within the CPM schedule. The engineer will provide a summarized list of generalized quantities required on construction activities. Quantities are to be added to the activity name description only.
   - 1.10 Do not actualize any tasks.
2. Provide an electronic PDF of the CPM schedule depicting the CPM network. Organize the logic diagram by grouping related activities using the WBS that matches the work requirements as laid out in the prosecution and progress.

3. Provide a written narrative with the baseline CPM explaining the planned sequence of work, as-planned critical path, critical activities for achieving intermediate milestone dates, traffic phasing, and planned labor and equipment resources. Use the narrative to further explain:
    3.1 The basis for activity durations in terms of production rates for each major type of work (number of shifts per day and number of hours per shift), and equipment usage and limitations.
    3.2 Use of constraints.
    3.3 Use of calendars.
    3.4 Estimated number of adverse weather days on a monthly-basis.
    3.5 Scheduling of permit and environmental constraints, and coordination of the schedule with other contractors, utilities, and public entities.
4. Submit the Baseline CPM Narrative and schedule including the P6 native data file (XER) and an electronic file (PDF). Submit the P6 native data file (XER), an electronic file (PDF), and written narrative (PDF) to the project engineer and the following DOT email boxes; DOTDTSDNERI41@dot.wi.gov.

Within ten business days of receiving the Baseline CPM, the engineer will provide comments. And accept or reject the Baseline CPM based solely on whether the schedule is complete as specified in this section and meets the requirements of the contract. The engineer's acceptance of the schedule does not modify the contract and does not relieve the contractor from meeting the contract requirements. The Baseline CPM schedule may, but not limited to, be rejected for one of the following reasons

- Does not meet the requirements as laid out in these special provisions
- Out of sequence work
- Missing significant work
- Quantity differences significant enough impacting critical path or near critical path work

The department will not consider requests for contract time extensions as specified in 108.10 or additional compensation for delay specified in 109.4.7 until the department accepts the Baseline CPM schedule.

108.4.4.3 Monthly CPM Updates

Submit CPM Updates on a monthly basis after acceptance of the Baseline CPM. With each CPM Update, include the following:

1. Actual start dates, completion percentages, and remaining durations for activities started but not completed, and actual finish dates for completed activities.
2. Additional activities as necessary to depict additions to the contract by changes and logic revisions as necessary to reflect changes in the contractor's plan for prosecuting the work.
3. Include a narrative report that includes a brief description of monthly progress, changes to the critical path from the previous update, sources of delay, potential problems, work planned for the next 30 calendar days, and changes to the CPM schedule. Changes to the logic of the CPM schedule include the addition or deletion of activities and changes to activity descriptions, original durations, relationships, constraints, calendars, or previously recorded actual dates. Justify changes to the CPM schedule in the narrative by describing associated changes in the planned methods or manner of performing the work or changes in the work itself.
4. Submit each CPM Schedule update, including the P6 native data file (XER) and an electronic file (PDF). Submit the P6 native data file (XER), the electronic file (PDF), responses to the DOT review comments, and the progress schedule update narrative to the project engineer and the following DOT email boxes; DOTDTSDNERI41@dot.wi.gov.
5. Within ten business days of receiving each CPM Update, the engineer will provide comments and schedule a meeting as necessary to address comments raised in the engineer's review. Address the engineer's comments as described in the comment review spreadsheet.

108.4.4.4 Three-Week Look-Ahead Schedules

Submit Three-Week Look-Ahead Schedules on a weekly basis after notice to proceed (NTP). The schedule can be hand drawn or generated by computer. With each Three-Week Look-Ahead include:

1. Activities underway and as-built dates for the past week.
2. Planned work for the upcoming two-week period.
3. The activities of the Three-Week Look-Ahead schedule shall include the activities underway and critical RFIs and submittals, based on the CPM schedule. The Three-Week Look-Ahead may also include details on other activities not individually represented in the CPM schedule.
4. On a weekly basis, the department and the contractor shall agree on the as-built dates depicted in the Three-Week Look-Ahead schedule or document any disagreements. Use the as-built dates from the Three-Week Look-Ahead schedules for the month when updating the CPM schedule.

108.4.4.5 Weekly Production Data

Provide estimated and actual weekly production rates for items of work on a weekly basis as follows:

1. Provide data on the following items by area or station:
    1.1 Retaining Walls—SF per week
        a. MSE Walls
    1.2 Bridge Construction
        a. Foundation Pile—Each per week
        b. Foundation/Substructure Concrete—CY per week
        c. Structural Steel Girders—Each per week
        d. Prestressed Concrete Girders—Each per week
        e. Deck Formwork—SF per week
    1.3 Roadway Excavation—CY per week
    1.4 Roadway Structural Section
        a. Grading/Subgrade Preparation—SY per week
        b. Base Material Placement—Ton per week
        c. Base Material Subgrade Preparation—SY per week
        d. Asphalt Pavement—Ton per week
        e. Concrete Pavement – SY per week
2. For each item, indicate the actual daily production for the past week and the anticipated weekly production for the next week.
3. Submit the data in an electronic spreadsheet format at the same time the Three-Week Look-Ahead is submitted. On a weekly basis, the department and the contractor shall agree on the production data or document any disagreements.

108.4.5 Progress Review Meetings

Weekly Progress Review Meetings—After completing the weekly submittal of the Three-Week Look-Ahead and production data, attend a weekly meeting to review the submittals with the department. At the meeting, address comments as necessary, and document agreement or disagreement with the department.

108.4.6 CPM Progress Schedule Revisions

Revision by the contractor—If necessary due to changes in the Work or project conditions and authorized by the engineer, the contractor may submit a CPM Progress Schedule Revision, although the next CPM Update is not yet due. Prepare the CPM Revision in the same format as required for CPM Updates, including justification for changes to the schedule. The process for comment and acceptance of a CPM Revision will be the same as for CPM Updates. If the CPM Revision is accepted, prepare the next monthly update based on the revised CPM. If the CPM Revision is rejected, prepare the next monthly update based on the previous month’s update.

Engineer’s Right to Request Revisions - The engineer will monitor the progress of the work and may request revisions to the CPM schedule. Revise the schedule as requested by the engineer, and submit a CPM Progress Schedule Revision within ten business days of the request. The process for comment and acceptance of a CPM Revision will be the same as for CPM Updates. The engineer may request that the contractor revise the CPM schedule for one or more of the following reasons:

1. The forecast completion date is scheduled to occur more than 14 calendar days after the contract completion date.
2. An intermediate milestone is scheduled to occur more than 14 calendar days after the date required by the contract.
3. The engineer determines that the progress of the work differs significantly from the current schedule.
4. A contract change order requires the addition, deletion, or revision of activities that causes a change in the contractor's work sequence or the method and manner of performing the work.

108.4.7 Documentation Required for Time Extension Requests

To request a time extension to an intermediate milestone date or the contract completion date associated with changes to the work, provide a narrative detailing the work added or deleted and the other activities affected, based on the latest accepted CPM Update. For added work, submit a proposed fragnet of activities to be added or revised in the CPM schedule, indicating how the fragnet is to be tied to the CPM schedule.

To request a time extension to an intermediate milestone date or the contract completion date associated with delays to the work, provide a narrative detailing the affected activities and the cause of the delay, based on the latest accepted CPM Update. Requests for time extensions due to delays should meet the following criteria:

1. For requests to extend the contract completion date, include a description of how the delay affected the project's critical path, based on the latest accepted CPM Update.
2. For requests to extend an intermediate milestone date, include a description of how the delay affected the controlling (longest) path to the milestone, based on the latest accepted CPM Update.
3. The department and the contractor agree that float is not for the exclusive use or financial benefit of either party. Either party has the full use of the float on a first come basis until it is depleted.

108.4.8 Payment for CPM Progress Schedule

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0100	Baseline CPM Progress Schedule	EACH
SPV.0060.0105	CPM Progress Schedule and Accepted Revisions	EACH

The department will only make progress payments for the value of materials, as specified in standard spec 109.6.3.2.1, until the contractor has submitted the Baseline CPM schedule. The department will retain ten percent of each estimate until the department accepts the Baseline CPM schedule.

Payment is full compensation for all work required under these bid items including the three week look ahead. The department will pay the contract unit price for the Baseline CPM schedule after the department accepts the schedule. Thereafter, the department will pay the contract unit price for each monthly CPM Update, acceptably completed. The department will pay the contract unit price for CPM Revisions, if the department accepts the revision. The department will not pay for proposed revisions that are not accepted.

ner41-108 (07172024)

2.7 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 Traffic and Restrictions to Work.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

Coordinate lane, ramp, and roadway closures 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 ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

IH 41 (NB and SB)

- $3,750 per lane, per direction of travel, for the first 15-minute increment.
- $750 per lane, per direction of travel for all subsequent 15-minute increments.

Ramps

- $750 per lane, per direction of travel for each 15-minute increment.

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, roadway, or ramp 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 before the completion of specified work in the contract, additional liquidated damages will be assessed as specified in standard spec 108.11 or as specified within this contract.

stp-108-065 (20161130)

2.8 Nighttime Work Lighting-Stationary.

A Description

This special provision describes furnishing portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

B (Vacant)

C Construction

C.1 General

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days before the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

1. Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
2. Specifications, brochures, and technical data of all lighting equipment to be used.
3. The details on how the luminaires will be attached.
4. Electrical power source information.
5. Details on the louvers, shields, or methods to be employed to reduce glare.
6. Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
7. Detail information on any other auxiliary equipment.

C.2 Portable Lighting

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

C.3 Light Level and Uniformity

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

C.4 Glare Control

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

1. Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
2. Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

C.5 Continuous Operation

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

D (Vacant)

E Payment

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.

stp-643-010 (20100709)

3. Meetings.

3.1 Non-Mandatory Pre-Bid Meeting.

Add the following to standard spec 102.3.1:

Prospective bidders are invited to attend a pre-bid meeting on Tuesday, November 12, 2024 at 10:00 AM. The meeting will be held at the IH 41 primary field office, 3600 Commerce Court, Appleton, WI 54911.

No meeting minutes will be prepared. Issues discovered at the meeting which may impact the contract will be handled by addendum.

ner41-102 (12052023)

3.2 Coordination with Businesses and Residents.

Participate in department-sponsored public involvement meetings as directed by the engineer. Ensure that representatives of subcontractors responsible for activities to be discussed at the public involvement meeting are also available to participate in the meeting if directed by the engineer.

The department will schedule meetings as necessary and will notify the contractor seven days prior to the meeting date of the time and location of the meeting such that the contractor can make appropriate accommodations to attend the meeting.

Anticipated meetings include, but are not limited to:

- Quarterly basis
- Before each traffic shift
- Access changes
- Long term closures
- As directed by the engineer

ner41-105 (12052023)

3.3 Traffic Meetings and Traffic Control Scheduling.

Every Tuesday by 10 PM, and at least 12-hours prior to the weekly progress, 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, closure type, speed reductions, width restrictions, closure 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.

The Prime contractor and traffic control contractor are required to attend traffic control meetings as scheduled by the engineer. 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.

ner41-105 (08222024)

3.4 Partnering Meetings Monthly.

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

The department will develop all meeting agendas and compile all meeting notes to be shared with the meeting 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 cost associated with these meetings are incidental to the contract work.

ner41-103 (12052023)

4. Traffic and Restrictions to Work.

4.1 Notice to Contractor, Coordination with Project ID 1130-63-72 (IH 41 Corridor Smart Work Zone).

Project 1130-63-72 will be responsible for maintaining a smart work zone for the IH 41 corridor. It is anticipated the contractor for the IH 41 Corridor Smart Work Zone project will begin work in April 2025. The primary components of the smart work zone will include Queue Warning Systems (QWS) and Portable Changeable Message Signs (PCMS). It is anticipated that the smart work zone equipment will be maintained at the following locations:

- IH 41 northbound and southbound,
- IH 41 exit ramps,
- STH 441 northbound (south of IH 41),
- STH 441 ramps between the Southern IH 41/USH 10/STH 441 Interchange and
- STH 172 Interchange in Green Bay.

The anticipated equipment installed as part of the project includes portable traffic sensors (PTS) spaced every 1-2 miles on IH 41 (northbound and southbound), on IH 41 and STH 441 exit ramps where excessive queueing is expected, flashing beacon signs (FBS) to alert traffic of unexpected queuing on IH 41 and STH 441 northbound and cellular PCMSs.

The Transportation Management Engineer will provide a map showing the existing locations of the PTSs, which may be installed on signposts, barricades, traffic control drums, or other existing or temporary structures, at the pre-construction meeting. If any PTSs are expected to be impacted by this project, provide notification to the Transportation Management Engineer within 72 hours of the pre-construction meeting.

QWS Deployment

All QWS components will be installed by Project 1130-63-72. Coordinate all IH 41 and STH 441 lane closures, long term ramp closures, and IH 41 and STH 441 stage changes with the Traffic Management Engineer, Susan Paulus at 414-460-3409. Provide the following advance notification to the Traffic Management Engineer.

- Short term (nighttime/off peak) lane closures on IH 41 and STH 441:
    - 72 hours before initial lane closure set up
    - 48 hours before a change in the lane closure location
- Long term exit ramp closures
    - 7 days before initial ramp closure
    - 72 hours before anticipated ramp opening
- Traffic Control Stage Change on IH 41 and STH 441
    - 7 days before the expected stage change.
    - 72 hours before any sub-stage change (including changed locations of staged exit ramps)

Anticipate additional coordination when work zones between multiple construction contracts overlap.

PCMSs

Corridor cellular PCMSs will also be installed as part of Project 1130-63-72. PCMSs will provide advanced notice of both IH 41 mainline and exit ramp queuing, STH 441 northbound queuing, and for incident notifications. The locations of the corridor PCMSs will be provided by the Transportation Management Engineer at the pre-construction meeting. Any changes to their locations will be provided at weekly progress meetings. The corridor PCMSs will be available to this contract for advanced notice of full closures and full closure implementation. Notify the Transportation Management Engineer 10 days in advance of all IH 41 and STH 441 full closures to determine what messages can be placed on the corridor PCMSs and what PCMSs will need to be provided under this contract.

Meetings

Participate in the Traffic Control Meetings scheduled by the engineer to coordinate the corridor QWSs and PCMSs with Project 1130-63-72. Coordinate the removal and installation of PTSs and FBSs on IH 41, STH 441, and exit ramps to ensure the locations do not impact construction activities and that the devices are not blocked or impacted by construction traffic within the work area.

4.2 Notice to Contractor, Coordination with Project ID 1130-64-76/81 (STH 15 Interchange/Capitol Drive project).

Project ID 1130-64-76/81, Appleton – De Pere; Northland/STH 15 Intchg B440315/16 was let February 2024. Construction of this project began April 2024 and is expected to conclude November 2025. Coordinate project activities with this project, as needed. This includes, but is not limited to, access to IH 41 from STH 15 and STH 15 ramps when they are closed and/or restricted.

Participate in the Freeway Traffic Control Meeting for the initial traffic control setup of the IH 41 Mainline project as traffic control on IH 41 placed for this project could conflict with traffic control required to reconstruct the STH 15 Interchange. Coordinate removal of any traffic control devices placed by the STH 15 Interchange/Capitol Drive project that conflict with traffic control devices for this project, or as directed as the engineer. Provide and maintain traffic control devices on IH 41 in accordance to standard specs 104.6.1.2 and 643 during the placement of the IH 41 Mainline project traffic control devices.

Concrete barrier temporary precast and temporary crash cushions identified as left in place in the 1130-64-76 project are anticipated to become property of the 1130-64-71/72/87contractor no later than September 2025. The actual date ownership of the barrier and crash cushion transfers will be finalized during the weekly traffic meeting. Maintain and remove the left in place devices per the requirements identified in special provision Maintain and Remove Crash Cushions Temporary Left in Place and Maintain and Remove Concrete Barrier Temporary Precast Left in Place.

4.3 Notice to Contractor, Coordination of Traffic Control and Pedestrian Detour with Project ID 4075-40-71 (STH 96 Project).

It is anticipated the contractor for the STH 96 project (reconstruction of mainline IH 41 between Lynndale Drive and Meade Street) will begin work in April 2026. Participate in the Traffic Control Meeting for the initial traffic control setup of the STH 96 Project as traffic control on STH 96 placed by this contract could conflict with traffic control required to complete the STH 96 Project. Coordinate the removal of traffic control devices on STH 96 required for this project with the installation of traffic control devices for the STH 96 Project. Provide and maintain traffic control devices on STH 96 in accordance to standard specs 104.6.1.2 and 643 during the placement of the STH 96 Project traffic control devices.

The STH 96 Project will construct new sidewalk along westbound STH 96. When the WNA Ramp is closed, provide a pedestrian detour. Coordinate the timing of the pedestrian detour with the contractor of the
STH 96 Project.

4.4 Notice to Contractor, Coordination of Traffic Control with Project ID 1130-64-73/77 (IH 41 Mainline Project).

It is anticipated the contractor for the IH 41 Mainline project (reconstruction of mainline IH 41 between Lynndale Drive and Meade Street) will begin work in July 2025. Participate in the Freeway Traffic Control Meeting for the initial traffic control setup of the IH 41 Mainline project as traffic control on IH 41 placed by this contract could conflict with traffic control required to reconstruct the IH 41 Mainline project. Coordinate the removal of traffic control devices on IH 41 required for this project with the installation of traffic control devices for the IH 41 Mainline project. Provide and maintain traffic control devices on IH 41 in accordance to standard specs 104.6.1.2 and 643 during the placement of the IH 41 Mainline project traffic control devices.

At this end of this contract, coordinate the removal of traffic control devices installed for this project with the IH 41 Mainline project. Concrete barrier temporary precast and temporary crash cushions identified as left in place shall become property of the department during this coordination per the requirements identified in the special provisions Crash Cushions Temporary Left in Place and Concrete Barrier Temporary Precast Left in Place.

4.5 Traffic.

General

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

Keep IH 41, STH 15, STH 96 and all service ramps open to through traffic at all times for the duration of this project except as noted below and in the Prosecution and Progress article in these special provisions.

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.

Maintain emergency vehicle access at all times.

Prior to any traffic control being placed, provide the engineer, Wisconsin State Patrol and Outagamie County Highway Maintenance with the name and telephone number of a local person responsible for the emergency maintenance of traffic control. Contact the IH 41 Traffic Management Engineer, Susan Paulus, at (414) 460-3409 for the individuals at the Wisconsin State Patrol and Outagamie County Highway Maintenance.

Coordinate all traffic handling with the engineer. Place roadway signing as detailed on the plans and in conformance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition. Employ such flag persons, signs, barricades, and drums as may be necessary to safeguard or protect hazards in the work zone, such as exposed manholes or drop-offs for vehicles and direct traffic at locations where construction operations may interfere or restrict the smooth flow of traffic. Make arrangements and be responsible for the prompt replacement of damaged or dislocated traffic control or guidance signs, day or night.

Traffic requirements under this contract shall be coordinated with other adjacent and concurrent Department or local municipality projects. The contractor shall be responsible for implementing and coordinating 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 others. See Article 1.3, Other Contracts for adjacent projects.

Freeway Service Team (FST)

The department has contracted with a private towing vendor to patrol parts of IH 41 during peak hours, holidays and special events. To improve safety and minimize delay, contact 911 immediately for breakdowns or incidents in or near the construction work zone. The FST will be dispatched directly to the scene to aid the vehicles that need to be removed.

Freeway Traffic Control Meeting

The contractor shall conduct a traffic control meeting before:

1. Initial traffic control set up.
2. Intermediate traffic switches.
3. Full freeway closures.
4. Reopening of the highway to traffic.
5. Closures involving multiple projects or over-lapping project limits.

Notify the IH 41 Traffic Management Engineer, Susan Paulus, at (414) 460-3409 seven business days before setting up the meeting.

Traffic Operations During Construction

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement as approved by the engineer. The department anticipates that the schedule of major freeway traffic shifts and roadway openings and closings for each stage shall be as follows, unless approved by the engineer:

Stage 1A and Stage 1B

Stage 1B cannot begin until the following work is completed by ID 1130-64-76/81:

- Median piers for B-44-0315 and B-44-0316 are completed.
- Temporary asphaltic surface along the inside lane of northbound IH 41 in area of B-44-315/316 median piers is complete.

It is anticipated this work will be completed by May 14, 2025.

IH 41

- Maintain IH 41 northbound and southbound on existing pavement at all times during Pre-Stage 1. During Stage 1A, IH 41 northbound traffic will utilize existing northbound pavement and median widening along existing IH 41 northbound.
    - During off-peak hours, close the outside lane of traffic where the work zone and live traffic are not separated by concrete barrier.
- Full freeway closures of IH 41 northbound are anticipated for installation of storm sewer crossings at stations 673NB+50 and 684NB+50. Coordinate the timing of the freeway closures with the department's contractor for the 1130-64-76/81 contract.
- During Stage 1A, the ID 1130-64-76 contract will require full freeway closures. Coordinate the timing of the freeway closures with the department's contractor for the 1130-64-76/81 contract.

STH 96

- All lanes of STH 96 are open to traffic.
- During Stage 1A, all ramps at STH 96 are open to traffic.
- During Stage 1B, the WND Ramp is closed and all other ramps at STH 96 are open.
    - During off-peak hours, close Ramp WNA when temporary pavement operations are adjacent to the entrance ramp.

STH 15

- Coordinate traffic control for the STH 15 ramps with the 1130-64-76/81 contractor.
    - STH 15/Northland Avenue, the NLA Ramp and the NLC Ramp are closed to traffic.
- The NLB Ramp and NLD Ramp are open to traffic.

Lynndale Drive

- During daytime hours, maintain all lanes of northbound and southbound Lynndale Drive traffic on existing pavement before constructing the east half of B-44-0348.
    - During nighttime hours, close the median lane of southbound and northbound Lynndale Drive to traffic. Maintain one lane of traffic on the outside lane in each direction.
- Prior to beginning construction of the east half of B-44-0348, shift northbound Lynndale Drive to existing pavement of southbound Lynndale Drive. Maintain one lane of traffic for northbound and southbound Lynndale Drive traffic on the existing pavement.
- Maintain pedestrians on the temporary path constructed in Pre-Stage 1.

Stage 1C

IH 41

- Maintain all lanes of traffic on IH 41 northbound using existing pavement and widening along the median shoulder. Maintain all lanes of IH 41 southbound on existing pavement.
    - During off-peak hours, close the outside lane of traffic where the work zone and live traffic are not separated by concrete barrier.
- Full freeway closures of IH 41 northbound are anticipated for installation of storm sewer crossings at stations 597NB+20 and 673NB+50. Coordinate the timing of the freeway closures with the department's contractor for the 1130-64-76/81 contract.

- The ID 1130-64-76 contract will require full freeway closures to set girders. Coordinate the timing of the freeway closures with the 1130-64-76/81 contractor.

STH 96

- All lanes of STH 96 are open to traffic.
- The WND Ramp is closed to traffic. All other ramps at STH 96 are open to traffic.

STH 15

- Coordinate traffic control for the STH 15 ramps with the 1130-64-76/81 contractor.
    - STH 15/Northland Avenue, the NLA Ramp, NLB Ramp and the NLC Ramp are closed to traffic.
- The NLD Ramp is open to traffic.

Lynndale Drive

- Continue to maintain one lane of traffic for northbound and southbound Lynndale Drive traffic on existing pavement of southbound Lynndale Drive.
- Continue to maintain pedestrians on the temporary path along southbound Lynndale Drive.

Stage 2A

IH 41

- Maintain bi-directional traffic on IH 41 northbound pavement. IH 41 northbound traffic will be shifted to the outside of IH 41 northbound pavement. IH 41 southbound traffic will be shifted to the temporary widening constructed along the inside lane of IH 41 northbound. IH 41 southbound traffic will use the median crossovers constructed in Stage 1.

STH 96

- All lanes of STH 96 are open to traffic.
- The WND Ramp is closed to traffic. All other ramps are open to traffic.

STH 15

- Coordinate traffic control and ramp openings for the STH 15 ramps with the 1130-64-76/81 contractor.
- The NLA Ramp, NLB Ramp and NLD Ramp are open to traffic. The NLD Ramp utilizes the temporary ramp crossover constructed during Stage 1. The NLD Ramp shall remain open while the WND Ramp is closed.
- The NLC Ramp continues to be closed.

Lynndale Drive

- Shift southbound Lynndale Drive to existing pavement of northbound Lynndale Drive. Maintain one lane of traffic for northbound and southbound Lynndale Drive traffic on the existing pavement.
- Pedestrians are located on the existing 10-foot multi-use path adjacent to the northbound lanes of Lynndale Drive.

Stage 2B

IH 41

- Continue to maintain bi-directional traffic on IH 41 northbound pavement.

STH 96

- All lanes of STH 96 are open to traffic.
- All exit and entrance ramps at STH 96 are open to traffic.

STH 15

- Coordinate traffic control, ramp openings and ramp closures for the STH 15 ramps with the 1130-64-76/81 contractor.
- All lanes of STH 15 are open to traffic. Construction activities are mostly complete and STH 15 traffic is following the lane arrangements as shown in the 1130-64-76 plans for the finished roadway.
    - The NLC Ramp and the NLD Ramp are closed. The NLD Ramp can be closed once the WND ramp is open to traffic. The WND Ramp and the NLD Ramp shall not be closed concurrently.
    - The NLA Ramp and NLB Ramp are open to traffic.

Lynndale Drive

- All northbound and southbound lanes of Lynndale Drive are open to traffic.
- During nighttime hours, close the median lane of southbound and northbound Lynndale Drive to traffic. Maintain one lane of traffic on the outside lane in each direction.

Winter Shutdown and Stage 3

IH 41

- IH 41 northbound traffic remains shifted to the outside of IH 41 northbound pavement.
- IH 41 southbound traffic is on the outside lane and shoulder of the newly constructed southbound pavement.
- Full freeway closures of IH 41 southbound are anticipated for installation of overhead sign support structures S-44-0349, S-44-0323, S-44-0330 and S-44-0332.

STH 96

- All lanes of STH 96 are open to traffic.
- All exit and entrance ramps at STH 96 are open to traffic.

STH 15

- All lanes of STH 15 are open to traffic.
- All exit and entrance ramps at STH 15 are open to traffic.

Lynndale Drive

- All northbound and southbound lanes of Lynndale Drive are open to traffic.

Stage 4A

IH 41

- Maintain bi-directional traffic on IH 41 southbound pavement. IH 41 southbound traffic will remain shifted to the outside of new IH 41 southbound pavement. IH 41 traffic will use the median lane and shoulder of new IH 41 southbound pavement. IH 41 northbound traffic will use the median crossovers constructed in the previous stages.

STH 96

- The outside lane of westbound STH 96 is closed. All other lanes are open to traffic.
- The WNA Ramp is closed to traffic. All other ramps are open to traffic.

STH 15

- All lanes of STH 15 are open to traffic.
- The IH 41 northbound entrance ramp will utilize the temporary widening along the outside shoulder of IH 41 northbound, merging onto IH 41 to the east of the Lynndale Drive overpass.
- The NLB Ramp is closed to traffic.
- The NLC Ramp and the NLD Ramp are open to traffic.

Lynndale Drive

- All northbound and southbound lanes of Lynndale Drive are open to traffic.

Stage 4B

IH 41

- Continue to maintain bi-directional traffic on IH 41 southbound pavement.

STH 96

- All lanes of STH 96 are open to traffic.
- The WNA Ramp continues to be closed to traffic. All other ramps are open to traffic.

STH 15

- All lanes of STH 15 are open to traffic.
- Ramp NLA will use the temporary ramp crossover build in the previous stage. Traffic merging onto IH 41 northbound will utilize the new IH 41 northbound pavement and merge onto IH 41 to the west of Lynndale Drive overpass.
- Ramp NLB will be closed to traffic.
- Ramp NLC and Ramp NLD are open to traffic.

Lynndale Drive

- All northbound and southbound lanes of Lynndale Drive are open to traffic.

Stage 5

IH 41

- Maintain IH 41 traffic on new IH 41 northbound and southbound pavement.

STH 96

- All lanes of STH 96 are open to traffic.
- All exit and entrance ramps at STH 96 are open to traffic.

STH 15

- All lanes of STH 15 are open to traffic.
- All exit and entrance ramps at STH 15 are open to traffic.

Lynndale Drive

- All northbound and southbound lanes of Lynndale Drive are open to traffic.

Freeway and Service Ramp Work Restrictions

Maintain the following lanes during work on each roadway unless otherwise allowed. Each hour shown in the lane requirement tables is defined as a sixty-minute period (example: Hour 7 is the period from 7:00 to 7:59).

Freeway entrance and exit ramps may be closed for construction operations during identified lane closure hours or as directed by the engineer. Coordinate ramp closures with work being performed under separate contracts.

Freeway/Expressway Lane Requirements																								
Limits:	Northbound IH 41: STH 125 to STH 47																							
	AM												**PM**											
Hour	**12**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Monday through Thursday	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Fridays	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Saturdays	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Sundays	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
Legend																									
1	Off-Peak hours: Provide at least one through freeway lane open in each direction of travel																								
2	Peak hours: Open all IH 41 lanes to travel																								

Freeway/Expressway Lane Requirements																								
Limits:	Southbound IH 41: STH 125 to STH 47																							
	AM												**PM**											
Hour	**12**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Monday through Thursday	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Fridays	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Saturdays	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Sundays	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
Legend																									
1	Off-peak hours: Provide at least one through freeway lane open in each direction of travel																								
2	Peak hours: Open all IH 41 lanes to travel																								

Ramp Closure Hours

Ramp closures at STH 15, STH 47 and STH 96 are allowed Sunday through Saturday during the time periods identified below:

IH 41 NB exit ramp	8:00 PM – 6:00 AM
IH 41 NB entrance ramp	7:00 PM – 5:00 AM
IH 41 SB exit ramp	8:00 PM – 6:00 AM
IH 41 SB entrance ramp	7:00 PM – 5:00 AM

Full Freeway Closure Hours

IH 41 (NB and SB)

11:00 PM – 4:30 AM	Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM and Thursday PM to Friday AM
11:00 PM – 6:00 AM	Friday PM to Saturday AM and Saturday PM to Sunday AM

No lane, ramp or shoulder closures will be permitted during special events or over holiday weekends listed under the Holiday and Special Event Work Restrictions article.

Shoulders may be closed if required by the work operation, but the right and left shoulder may not be closed in the same area at the same time without the approval of the engineer.

Full Freeway Closure

Full closure and detouring of freeway roads will be restricted to Full Freeway Closure Hours unless otherwise specified. The freeway may be closed to facilitate the erection of overhead sign support trusses, drainage construction, performing work related to major traffic shifts or other work approved by the engineer. Provide signed detour routes, as shown in the plans, fully open and free of construction during all full roadway and service ramp closures.

A full freeway closure is defined as one direction of the freeway.

Submit requests for closures 14 calendar days prior to the planned closure events. Notify State Patrol 7 calendar days prior to closures.

Rolling Closures

Short-term freeway mainline and service ramp rolling closures may be allowed for the removal and erection of sign structures, equipment moves across the road, or other required work as determined by the engineer. The short-term rolling closures may not exceed 15 minutes between the hours of 10:00 PM to the following morning at 4:00 AM, Sunday, Monday, Tuesday, Wednesday, and Thursday nights.

The department has contracted with the Wisconsin State Patrol to assist with traffic control operations by setting up rolling roadblocks for these closures.

Coordinate with the IH 41 Traffic Management Engineer, Susan Paulus, at (414) 460-3409, on these road closures and provide 72 hours prior notice to the engineer.

Ramp Closures

Freeway entrance and exit ramps may be closed for construction operations during time periods identified in the Ramp Closure Hours section of this article or engineer approved timeframes. Coordinate ramp closures with work being performed under separate contracts. Access to and from IH 41 shall be provided at all times, either at the STH 96 interchange or the STH 15 interchange. During closure of a particular ramp movement at one interchange, the corresponding ramp movement at the other interchange shall remain open to traffic.

Local Road Closures

Single lane closures on STH 96 are permitted between 6:00 PM and 10:00 AM, Sunday through Saturday.

Single lane closures Lynndale Drive and other local street are allowed during peak and off-peak hours, Sunday through Saturday. Full closures of Lynndale Drive and other local streets are allowed between 8:00 PM and 6:00 AM, Sunday through Saturday.

Wisconsin Lane Closure System Advanced Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

Portable Changeable Message Signs (PCMS)

After coordinating with department construction field staff, obtain approval of the proposed message from the IH 41 Traffic Management Engineer, Susan Paulus, at (414) 460-3409 at least 3 business days before deploying or changing a message on a PCMS board.

The following are requirements for deploying PCMS boards:

- 7 days in advance of a full freeway closure.
- 7 days advance of a system ramp closure.
- 3 days advance of a service ramp closure.
- 7 days following a major traffic switch in the direction affected.
- Long-term daytime contractor access points on IH 41.
    - Use PCMS board for first 7 days for each acceleration/deceleration lane is used.
    - Fixed signage used after first 7 days has expired.
- 7 days in advance of a local road closure

Temporary Work Zone Clear Zone Working Restrictions

The temporary work zone clear zone for this project is 18-feet from the edge of traveled way. If auxiliary lanes are present, clear zone is from the outside edge of the auxiliary lane.

Do not perform work within the clear zone unless protected by concrete barrier temporary precast or a lane closure during the allowed closure periods.

Do not perform work in the median at any time unless protected by concrete barrier temporary precast in both directions except as allowed during lane closure periods.

Replace standard spec 104.6.1.2.3 with the following:

If the roadway remains open to through traffic during construction and a drop-off greater than 2-inches occurs within the 18’ clear zone, eliminate the drop-off prior to completing that day’s work. Unless the special provisions specify otherwise, provide aggregate shoulder material compacted to a temporary 3:1 or flatter cross slope from the surface of the pavement edge.

Replace standard spec 104.6.1.2.4 (1) with the following:

Park equipment a minimum of 30-feet from the edge of the traveled way. Equipment may be parked in the median if it meets the minimum distance requirement from both traveled ways or if it is protected by concrete barrier.

Replace standard spec 104.6.1.2.4 (2) with the following:

Bridge abutments, parapets, pier columns, concrete barrier blunt ends and sign bridge foundations are to remain protected at all times during construction. Removal of existing guardrail shall be done concurrently with, or after, the placement of the concrete barrier temporary precast or concrete barrier temporary precast left in place. It may be necessary to remove existing guardrail in several phase to maintain protection. Coordinate the removal of existing guardrail with the installation of temporary concrete barrier.

Do not perform heavy equipment work in the median at any time unless protected by concrete barrier in both directions except as allowed during night work with lane closures.

Do not perform heavy equipment work within 18 feet of the edge of the traveled way unless protected by concrete barrier or a lane closure during the allowed closure periods.

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

Winter Maintenance

During winter months park equipment at a safe distance (a minimum of 30 feet from the edge of travel lane, equipment may be parked in the median if it meets the minimum 30 feet from both traveled ways or if it is protected by concrete barrier) from the active travel lanes to prevent damage to equipment from snow plowing operations. Do not store equipment or materials within the work zone which may interfere with horizontal sight distances along IH 41.

Outagamie County will perform snow removal operations for travel lanes on IH 41 that are open to through traffic during construction. Snow may be plowed from the traveled roadway into the work site by the maintaining authority. Remove any snow from the work site that may be required to continue work operations.

Provide for snow removal in those areas closed to through traffic as required to facilitate safe construction activities, changes in traffic control and to provide access to properties within the work area. Outagamie County will not provide snow plowing operations in areas outside of the active traveled lanes.

Re-install or adjust any traffic control devices that may be damaged, removed, or shifted as part of normal winter maintenance operations. Clean and maintain traffic control devices as necessary or directed as a result of winter maintenance operations.

Anticipated locations of traffic control devices are shown in the plans. Review the work site with the engineer for locations where additional area may be available to maximize lane and shoulder widths over winter months to aid in winter maintenance operations and to maximize snow storage area. Adjust traffic control devices in these areas.

Snow plowing, ice removal including any road salt which may be required, maintenance and cleaning of traffic control devices, and other winter maintenance activities are incidental other items of work under this contract.

Freight Width Restrictions

IH 41 is a designated WisDOT Freight Network Route. During periods no lane closures are allowed, maintain a width restriction no less than 16 feet in each direction, except as indicated in the plans. Movement of OSOW freight is scheduled to occur during this construction project that will require a minimum of 16 feet of horizontal clearance, except as provided for in the plans.

Enter in the correct minimum width restriction in Wisconsin Lane Closure System.

Construction Access

All initial set up or changes to locations of work zone egress or ingress for construction vehicles must be approved by the engineer to ensure work zone traffic and traveling public safety. Factors such as, but not limited to, sight distance, roadway profiles, truck type, and truck frequency are considered. Submit to the engineer a Work Zone Access Request, including locations for freeway access into and out of the work zone for each stage and plans that include signage and parallel decelerations and acceleration lanes for

each freeway access into and out of the work zones. Contact the engineer to obtain a copy of the Work Zone Access Request. Submit a Work Zone Access Request 14 calendar days prior to each stage for review and approval by the engineer.

During the period when lane closures are allowed on IH 41, access into the work zones from IH 41 can be made from the closed lane, subject to the approval of the engineer. Construction traffic from the work zone entering IH 41 shall use an approved acceleration lane or run out of the closed lane. All construction traffic ingress and egress shall be designed using a 60 mph value for “S” following the Standard Detail Drawing Traffic Control Ingress/Egress without Barrier.

During the period when lane closures are not allowed on IH 41, access into and out of the work zones from IH 41 must be made with an engineer approved deceleration and acceleration lanes. All construction traffic ingress and egress shall be designed using a 60 mph value for “S” following the Standard Detail Drawing Traffic Control Ingress/Egress with Barrier. Final lengths will be determined by field conditions and approved by the engineer.

During periods when lane closures are not allowed, deceleration lanes cannot be placed within 1,500-feet of an interchange ramp that is opened to live traffic. Acceleration lanes cannot be placed within 1,500-feet of an interchange ramp that is opened to live traffic.

Construction traffic exiting or reentering the work zone must be within 10 mph of the posted speed.

Construction traffic cannot travel counter-directional adjacent to IH 41 traffic except behind temporary concrete barrier.

Delivery of materials and equipment, such as but not limited to semi-trucks, lowboy semis, and delivery trucks, from IH 41 shall only occur during those hours identified as allowable lane closures.

Any approved access points can be closed at any time due to safety or noncompliance issues, as deemed necessary by the engineer.

General Access

U-Turns at existing maintenance crossovers or temporary crossovers between IH 41 northbound and southbound will be allowed when lane closures are in place for inside northbound and southbound passing lanes. Access to the crossover shall be from the closed lane. Do not turn directly into the crossover from the lane open to traffic. Refer to Construction Access section of this article for guidance on re-entering IH 41.

Construction operations affecting the traveling public’s safety on IH 41 will not be allowed during snow and ice conditions, or any other adverse weather conditions, unless approved by the engineer.

If a 2-mile spacing between lane closures is not attainable, the upstream lane closure project/contractor shall extend that closure into the downstream closure.

Delivery of materials and equipment, such as but not limited to semi-trucks, lowboy semis, and delivery trucks, on IH 41 shall only occur during those hours identified as allowable lane closures.

Ramp Access

Access on and off of ramps will only be allowed if approved by the engineer. Crossing ramps with construction equipment/vehicles, unless shown in the plans, needs to be approved by the engineer. For crossing of ramps with equipment that is not tire equipped, an engineer approved rolling road block shall only occur during those hours identified as allowable lane closures associated with the ramp area on IH 41.

ner41-104 (08122024)

4.6 Traffic Control.

Perform this work in accordance with the requirements of section 643 of the standard spec, and as shown on the plans or as approved by the engineer, except as hereinafter modified.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten (10) days prior to the preconstruction conference.

Submit any traffic control change request to the engineer at least 72 hours prior to an actual traffic control change. A request does not constitute approval.

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

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

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

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

Cover or remove and reinstall existing signs which conflict with traffic control as directed by the engineer.

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

1. Do not park or store any vehicle, piece of equipment, or construction materials on the right-of-way without approval of the engineer or as allowed elsewhere in these special provisions.
2. All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.
3. Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1,000 feet. Activate the beam when merging into or exiting a live traffic lane.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

ner41-643 (12052023)

4.7 Traffic Impact Response Time.

Provide a preferred method of notification and contact information for the contractor's responsible party (the person or persons in charge of coordinating and completing repair efforts) to the engineer at the pre-construction meeting. This person(s) shall be available 24 hours a day, 7 days a week, to respond to any event that impacts the free flow of traffic during non-working hours for the duration of this contract.

Notification is defined as the first phone call/voice message, text message, or email. Impacts to traffic may include, but are not limited to, temporary concrete barrier wall impacts, crash cushion impacts, water ponding on the travel lanes, or pavement deterioration. The contractor designated person needs to be able to promptly address the issues impacting traffic once notified by the engineer.

The contractor shall provide staff to the incident site within one hour of receiving a repair request from the responding agency, that is able to assess the situation, plan, and coordinate the repair operations. The contractor shall consult with the department's representative on potential repair or replacement options to restore the free flow of traffic. Staff and equipment deployed shall be capable of completing the needed repairs as quickly as possible once repair work is started.

If the contractor fails to be on-site of an incident with appropriate staff within one hour of receiving notification for a repair request, the department will assess the contractor a $500 fee assessment for each 15-minute interval that the contractor is not present following the allotted one-hour response time. Increments of 15 minutes or less will be assessed as a 15-minute increment. The engineer, or designated representative, will be the sole authority in determining assessable 15-minute increments. Fee assessments will be assessed under the administrative item Failing to Open Road to Traffic.

ner41-643 (07082024)

4.8 Temporary Regulatory Speed Limit Reduction, IH 41.

A reduction of the posted regulatory speed is allowed to accommodate construction activities. The following speed reductions shall be used when the following parameters are met:

- 70 mph to 60 mph
    - Lanes are less than 12 feet.
    - Traffic is utilizing cross over.
    - Traffic is utilizing shoulders/temporary pavement.

- 70 mph to 55 mph
    - During allowable nighttime lane reductions and construction activities, vehicles, material storage are within 12 feet of live traffic without positive barrier wall protection.

During periods of no work activity when devices are pulled back and lanes re-opened, restore speed limit to previously posted speed.

During approved temporary regulatory speed limit reductions, install regulatory speed limit signs on the inside and outside shoulders of the roadway at the beginning of the reduced regulatory speed zone, after all locations where traffic may enter the highway segment or every 1/2 mile within the reduced regulatory speed zone. Signs shall be installed at the end of the temporary regulatory speed zone to designate the end of the temporary regulatory speed zone and inform drivers the posted regulatory speed limit reverts back to the original posted speed limit. To minimize possible confusion to the traveling public and to ensure appropriate speed enforcement, enhanced attention to placement and changing of speed limit signs is required. The begin and end limits of the temporary regulatory speed limit reduction shall be defined in the plans or as directed by the engineer. Speed reduction signing and advancing warning shall be shown in the plans.

No portion of sign text shall be visible when not in use, regardless if it is temporary or permanent regulatory speed limit sign.

When construction activities impede the location of a post mounted regulatory speed limit sign, mount the regulatory speed limit sign on portable supports that meet the "crashworthy" definition and height criteria in the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

ner41-643 (08272024)

4.9 Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

The Town of Grand Chute and City of Appleton have agreed to waive any noise ordinances/restrictions pertaining to the construction of the IH 41 Project, for the duration of the IH 41 Project.

Delete standard spec 107.8 (4) and replace with the following:

Notify the following organizations and departments at least 72 hours before road closures or detours are put into effect:

State of Wisconsin:

- Wisconsin State Patrol: (920) 929-3700

Outagamie County:

Outagamie County

- Highway Department: (920) 832-5673
- Public Safety Communications: (920) 832-5000
- Sheriff's Department: (920) 832-5605

City of Appleton

- Department of Public Works: (920) 832-5580
- Police Department: (920) 832-5500
- Fire Department: (920) 832-5810
- Appleton Area School District: (920) 852-5300
- Valley Transit: (920) 832-5800

Town of Grand Chute

- Department of Public Works: (920) 832-1581
- Police Department: (920) 832-1575
- Fire Department: (920) 832-6050
- Served by Appleton Area School District: (920) 852-5300
- Served by Valley Transit: (920) 832-5800

The Outagamie County Public Safety Communications 911 dispatches all area police, fire and ambulance services, and will relay any notification given by the contractor in the event of an emergency.

ner41-107 (12052023)

4.10 Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying IH 41 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.

These restrictions apply to the following holiday and special event periods:

- Lambeau Field events with anticipated attendance of 30,000 or more:
    - IH 41 Northbound
        - Begin – 5 hours prior to the posted start time of the event.
        - End – At the posted start time of the event.
    - IH 41 Southbound
        - Begin – At the posted start time of the event.
        - End – 8 hours after the posted start time of the even.
- NFL Draft: From 6:00 AM Tuesday, April 22, 2025, to 6:00 AM Monday, April 28, 2025.

These restrictions apply to the allowable nighttime closures of the STH 15 and STH 96 ramps:

- Nighttime closures during Timber Rattler Game nights may not start until 4 hours after the posted game start time.

Do not haul materials of any kind along or across any portion of a marked State Trunk Highway including:

- STH 441
- STH 96
- STH 47
- STH 15
- STH 55

These restrictions apply to the following holidays:

- From noon Friday, May 23, 2025, to 6:00 AM Tuesday, May 27, 2025
- From noon Thursday, July 3, 2025, to 6:00 AM Monday, July 7, 2025
- From noon Friday, August 29, 2025, to 6:00 AM Tuesday, September 2, 2025
- From noon Friday, November 21, 2025, to 6:00 AM Monday, November 24, 2025
- From noon Wednesday, November 26, 2025, to 6:00 AM Monday, December 1, 2025
- From noon Wednesday, December 24, 2025, to 6:00 AM Monday, December 29, 2025
- From noon Wednesday December 31, 2025, to 6:00 AM Friday January 2, 2026
- From noon Friday, May 22, 2026, to 6:00 AM Tuesday, May 26, 2026
- From noon Thursday, July 2, 2026, to 6:00 AM Monday, July 6, 2026
- From noon Friday, September 4, 2026, to 6:00 AM Tuesday, September 8, 2026

During holidays, do not haul materials of any kind along or across any portion of the following marked State Trunk Highway including:

- STH 441

Prior to preparing bids, verify the dates of each event listed to obtain current dates for work restrictions.

ner41-107 (08122024)

4.11 Local Street Work Restrictions

Existing trees, street light poles, hydrants and other utility poles are to remain in place during construction unless otherwise noted in the plan. Conduct an on-site visit prior to bidding to determine any special measures required for proper clearance between the trees, hydrants and poles and the paving equipment.

Keep sidewalks open unless otherwise shown on the plans, or to facilitate the removal of structures and erection of girders or as approved by the engineer. Maintain pedestrian access to adjacent properties, businesses, schools, and at bus stops or provide where necessary, as directed by the engineer. Protect pedestrians from falling debris at all times when sidewalks are open.

Provide adequate temporary sidewalk and bridging between the curb and right-of-way line over freshly paved concrete or other obstructions in the sidewalk area, as directed by the engineer.

Construct temporary sidewalk surfaces with a minimum of 2 inches of asphaltic surface temporary or salvaged millings and a minimum of 4-feet wide. Compact the surface of temporary sidewalks until smooth and capable of supporting a wheelchair. The separate payment for the construction of temporary sidewalks including materials, labor, removal and restoration, will not be made by the department but will be considered included in other bid items of work unless otherwise shown on the plans.

Inform property owners and tenants at least 48 hours prior to removing a driveway approach that serves that property. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between removal and replacement is minimal.

Do not close residential approaches or remove from service without sufficient notice given to the occupants of the premises to remove their vehicles prior to driveway removal or closing of the driveway approach access. If necessary, make other access arrangements, agreed to in writing and signed by the contractor and the property owner serviced by the driveway. Obtain approval from the engineer prior to alternating construction sequencing.

ner41-643 (12052023)

5. Utilities.

5.1 Utilities.

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

The utility work plan includes additional detailed information regarding the location of known discontinued, relocated, or removed utility facilities. These can be requested from the department during the bid preparation process, or from the project engineer after the contract has been awarded and executed.

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

stp-107-065 (20240703)

Any utility facility locations (stations, offsets, elevations and depths) listed in this article are approximate.

ID 1130-64-71 (IH 41, STH 96 to Railroad Bridges)

Grand Chute Sanitary District 2 (SEWR) has underground sanitary sewer line crossing IH 41 at Station 536NB+96. Grand Chute Sanitary District 2 does not anticipate any conflicts with this facility.

Grand Chute Sanitary District 2 has underground sanitary sewer line crossing Ramp WNA at Station 1537WNA+30 with existing manholes at Station 1537WNA+18, 100 feet left and Station 1537WNA+33, 38 feet right. Grand Chute Sanitary District 2 will discontinue the existing 2 manholes and sanitary sewer main and install new sanitary manholes outside the project limits at Station 1537WNA+32, 84 feet left and Station 1537WNA+44, 67 feet right with a new 40-inch steel casing with a 30-inch sanitary sewer main between the two new manholes. The new manholes will be set at the proposed design elevations. Relocations will be completed prior to construction.

Grand Chute Sanitary District 1 (WATR) has underground water main from Station 1537WNA+00 to Station 1547WNA+50 right with a water valve at Station 1537WNA+05 right. The water valve and water main casing at Station 1537WNA+05 right will be discontinued prior to construction. A new water valve will be installed outside the construction limits at Station 1537WNA+43, 118 feet right at an elevation of 781.80 feet, along with a new 24-inch steel casing 32 feet west of the existing casing as part of Grand Chute Sanitary District 1's improvement project prior to construction.

We Energies (ELCTY) has overhead electric line crossing IH 41 at Station 537NB+38. We Energies does not anticipate any conflicts with these facilities.

We Energies has 2 existing buried electric lines crossing IH-41 at Station 563NB+95. We Energies will relocate each line 3 feet offset and at a greater depth to eliminate conflict with the ditch cuts and retaining wall R-44-0053 prior to construction.

We Energies has three underground electric lines running from Station 563NB+10 to Station 570NB+00 left. We Energies will install two new cables in the same location at a greater depth to eliminate conflict with grading prior to construction.

We Energies has an underground electric line from Station 1537WNA+10 to Station 1546WNA+46 right. We Energies will relocate the line from Stations 1537WNA+00 to Station 1538WNA+00, 2 feet left of proposed right of way prior to construction.

We Energies (GSPTR) has an underground gas line crossing IH 41 at Station 537NB+10, crossing ramp WNA at Station 1537WNA+10, crossing ramp WND at Station 1537WND+30, from Station 1537WND+40 to Station 1555WND+10 left and from Station 556SB+00 to Station 558SB+00 left. We Energies will replace the existing 8-inch gas main as described below.

- From tie point into the existing gas main at Station 50WNFL+00, 30 feet left to Station 51WNFL+71, 84 feet left.
- From Station 51WNFL+71, 84 feet left to Station 57WNFL+52, 86 feet left.
- From Station 57WNFL+52, 86 feet left to Station 58WNFL+15, 30 feet left.
- From Station 58WNFL+15, 30 feet left to Station 58WNFL+15, 30 feet left
- From Station 58WNFL+15, 30 feet left to Station 58WNFL+81, 33 feet right

- From Station 58WNFL+81, 33 right to Station 58WNFL+81, 25 feet right
- From Station 58WNFL+81, 25 feet right to Station 58WNFL+85, 25 feet right, tying back to existing gas main at an elevation of 774 feet and below the proposed ditch grade.

The existing 4-inch gas main will tie into the new 8-inch gas main at Station 52WNFL+08 85 feet left. Relocation will be completed prior to construction. Existing gas main at Station 556SB+00 to 558SB+00 left. Will remain in place. We Energies does not anticipate any conflicts with those facilities.

Existing We Energies gas main from Station 1537WND+40 to Station 1555WND+10 left is in conflict and will be relocated to the west right of way of Westfield Drive from the tie in at STH 96 going north then northwest to W Parkway Boulevard approximately 3 feet east of the west right of way line prior to construction.

ID 1130-64-72 (IH 41, Railroad Bridges to Lynndale Drive)

AT&T Wisconsin (COMLN) has underground communication line crossing IH 41 at Station 616SB+75. AT&T Wisconsin does not anticipate any conflicts with this facility.

AT&T Wisconsin has a hand hole at Station 137CAP+00 right. This hand hole will be adjusted to match the final grade. This work will be completed by AT&T Wisconsin during the 1130-64-81 construction project and be prior to the 1130-64-72 construction.

AT&T Wisconsin has underground communication line from Station 616SB+25 left to Station 642SB+22 left. AT&T Wisconsin does not anticipate any conflicts with this facility. Contact AT&T Wisconsin prior to ditch excavation below subgrade over the AT&T Wisconsin communication line. AT&T Wisconsin will provide a watchdog to monitor the communication line during construction.

Prior to construction AT&T Wisconsin will lower the communication line at Station 624SB+52, 65 feet left under the proposed storm sewer to elevation of 797.00 and raise hand hole at Station 627SB+64, 63 feet left to the final grade of 808.00.

AT&T Wisconsin has underground communication line at Station 666SB+21 that crosses under IH-41 and under the Lynndale detention pond. The copper cable will remain under IH-41 and is not in conflict but prior to construction will be lowered to an elevation of 776.00 below the clay liner of the Lynndale detention pond.

AT&T Wisconsin has underground communication line from Station 627NB+05 to Station 640NB+68 right and underground communication lines from Station 645NB+73 to Station 662NB+67 right. AT&T Wisconsin does not anticipate any conflicts with these facilities.

Grand Chute Sanitary District 1 (WATR) has buried water main crossing IH 41 and under the proposed box culvert at Station 668NB+30. This water main will be lowered under the proposed box culvert by the project contractor during construction in accordance with the requirements of the bid items of this contract.

Grand Chute Sanitary District 2 (SEWR) has buried sanitary sewer main crossing IH 41 at Station 602NB+13. Grand Chute Sanitary District 2 does not anticipate any conflicts with this facility.

Grand Chute Sanitary District 2 has buried sanitary sewer force main crossing IH 41 at Station 668NB+42 and at Station 668NB+45 also crossing under the proposed box culvert. The force main will be lowered under the proposed box culvert by the project contractor during construction in accordance with the requirements of the bid items of this contract.

Level 3 Communications LLC (COMLN) has buried communication line crossing IH 41 at Station 589NB+78. Level 3 Communications LLC does not anticipate any conflicts with these facilities.

Spectrum (COMLN) has buried communication line from Station 627NB+05 to Station 637NB+57 right and from Station 645NB+73 to Station 662NB+67 right. Spectrum does anticipate any conflicts with these facilities.

Spectrum has overhead communication line crossing IH 41 at Station 666NB+05 on We Energies poles. Spectrum will remove this overhead facility and install an underground crossing joint with We Energies prior to construction.

Spectrum has overhead communication line crossing IH 41 at Station 618NB+66 on We Energies poles. Spectrum is moving these facilities in conjunction with We Energies prior to construction.

We Energies (ELCTY) has underground electric line from Station 569NB+00 to Station 571NB+82 left, then crossing under IH 41 at Station 571NB+82, from Station 570NB+00 to Station 575NB+60 right, from Station 607NB+84 to Station 615NB+17, left, from Station 645NB+73 to 662NB+67, right, and from Station 627NB+05 to Station 640NB+68, right. We Energies does not anticipate any conflicts with these facilities.

We Energies has an overhead electric line crossing IH 41 at Station 640NB+92. We Energies will discontinue and remove this overhead line prior to construction. The existing pole at Station 640NB+92, right will be removed by another utility.

We Energies has overhead electric line crossing IH 41 at Station 618NB+66. This facility was relocated under a previous construction project (1130-64-81) prior to construction and is not in conflict with the highway improvement project.

We Energies has overhead electric line crossing IH-41 at Station 666NB+00 and lies east of the proposed pond APC. The electric line conflicts with the proposed box culvert B-44-0348. We Energies will remove the overhead line and install an underground electric line at Station 218ASB+90 left to Station 228ASB+25 left crossing under IH 41 at Station 665NB+85 at a minimum elevation of 779 feet, and install underground and overhead lines from Station 228ASB+25 left to Station 229ASB+78 left. Relocations will be completed prior to construction.

We Energies (GSPTR) Underground gas line crossing IH 41 at approximately Station 589NB+63. We Energies does not anticipate any conflicts with these facilities.

WIN Technology (COMLN) has underground communication line at Station 621SB+10, left. WIN Technology does not anticipate any conflicts with this facility.

ID 1130-64-87 (IH 41, Railroad Bridges)

We Energies (ELCTY) has overhead lines from Stations 554SB+87 to Station 556SB+30 left with a pole with guy wires at Station 556SB+30 left. We Energies does not anticipate any conflicts with these facilities.

We Energies (GSPTR) has a buried gas main from Stations 554SB+87 to Station 557SB+20 left. We Energies does not anticipate any conflicts with these facilities.

5.2 Municipality Acceptance of Sanitary Sewer and Water Main.

Both the department and the Town of Grand Chute personnel will inspect construction of sanitary sewer force main and water main under this contract. However, acceptance of the sanitary sewer force main and water main construction will be by the Town of Grand Chute.

The existing water main shall remain in service during installation of the new water main lines. The existing water main can be turned off for one day to connect the new water main with the existing water main. Coordinate the shutdown with Brandon Cooper, Town of Grand Chute Utility Foreman, Brandon.Cooper@grandchutewi.gov, (920) 422-6269.

5.3 Connect to Existing Water Main, Item SPV.0060.1200.

A Description

This special provision describes cutting into and connecting new water main to existing water main as shown on the plans and as provided by these specifications.

B Materials

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions. Seal pipes with materials required in the State of Wisconsin Standard Specifications 2025 Edition.

C Construction

Connecting to Existing Water Main will conform to industry standards. Only representatives of the owner are permitted to operate valves on existing system. The contractor will give the owner at least 72-hour notice when it is necessary to take an existing water main out of service.

Disinfect all connection materials with a 50 parts per million chlorine solution.

Disruption of water service will be during a low usage period or when it is the least inconvenient to the user. The contractor will have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

Seal all existing water main pipe left in place as described and required in the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition.

D Measurement

The department will measure Connect to Existing Water Main as a unit per each, regardless of size, 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.0060.1200	Connect to Existing Water Main	EACH

Payment is full compensation for cutting existing water main, removing any plugs or pipe, connecting to existing water main, furnishing and placing all materials, including any required connecting sleeves and fittings; sealing any existing pipe left in place, and other items required for a complete installation.

5.4 Remove Water Valve and Box, Item SPV.0060.1205.

A Description

Remove Water Valve and Box consists of removing all water valve and boxes within the project limits that serve valves no longer in service, indicated in the plans, or directed by the engineer according to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Remove Water Valve and Box as each remove water valve and box, 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.0060.1205	Remove Water Valve and Box	EACH

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.5 Furnish and Install Insulation Over Water Main, Item SPV.0060.1210.

A Description

Furnish and Install Insulation consists of installing rigid foam board or tubular insulation to insulate water mains and/or water service laterals where 1) the top of water main or service lateral has 5-feet of cover or less 2) the water main or service lateral crosses below storm sewer pipe 24 inches or greater in diameter, or 3) when otherwise specified on the drawings or as directed by the Engineer.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230 as modified in this special provision.

Delete flammability requirement.

C Construction

Install insulation in accordance with the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition.

D Measurement

The department will measure Furnish and Install Insulation as each 4-foot by 8-foot sheet of insulation effectively installed, or per 8-foot length unit of tubular service insulation, 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.0060.1210	Furnish and Install Insulation Over Water Main	EACH

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.6 Furnish and Install 16-Inch Water Valve in Manhole, Item SPV.0060.1215.

A Description

This work consists of furnishing and installing all water valves as identified on the plan and as required to complete the installation of the proposed water main according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction. Proposed valves associated with pressure taps, are not included in these items.

B Materials

Furnish materials according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Furnish trench adapter for valve box. American Flow Control Trench Adapter or approved equal.

C Construction

Install valves according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction. These items include furnishing all materials and fittings; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required. Furnish and install valve box extensions where needed. All valve box extensions are incidental to the installation of the valve.

Install Trench Adapter according to manufacturer instructions.

MacWrap to be installed on all manhole riser joints.

Install chimney seal according to Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

D Measurement

The department will measure Furnish and Install 16-Inch Water Valve in Manhole as each individual water valve, 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.0060.1215	Furnish and Install 16-Inch Water Valve in Manhole	EACH

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.7 Furnish and Install 16-Inch Water Valve in Manhole with Water Meter, Item SPV.0060.1220.

A Description

This work consists of furnishing and installing manhole, water valve and water meter as identified on the plan and as required to complete the installation of the proposed water main according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

B Materials

Furnish materials according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Furnish trench adapter for valve box. American Flow Control Trench Adapter or approved equal.

Town of Grand Chute will furnish Sensus I-Perl ¾” short mag meter.

Furnish ball corporation stop and service saddles according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Furnish meter setter to fit the Sensus I-Perl short mag meter.

C Construction

Install valves according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction. These items include furnishing all materials and fittings; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required. Furnish and install valve box extensions where needed. All valve box extensions are incidental to the installation of the valve.

Install Trench Adapter according to manufacturer instructions.

MacWrap to be installed on all manhole riser joints.

Install chimney seal according to Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Install corporation stops and service saddles according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Install meter setter to fit Sensus I-Perl short mag meter.

Install water meter furnished by the Town of Grand Chute.

D Measurement

The department will measure Furnish & Install (Size) Water Valve in Manhole with Water Meter as each individual water valve, 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.0060.1220	Furnish and Install 16-Inch Water Valve in Manhole with Water Meter	EACH

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.8 Wastewater Control, Item SPV.0060.1225.

A Description

Work under this item includes controlling or diverting sanitary sewer flows during reconstruction of the sanitary sewer. Wastewater will continue to be discharged to the sanitary sewers during construction.

B (Vacant)

C Construction

Provide, operate and maintain all diversion and pumping equipment necessary to carry out the work and allow wastewater to continue to be discharged to the sanitary sewer system.

Provide all necessary generators or other power source necessary to operate pumps on a continuous basis. Extra pumping and power equipment shall be staged onsite to maintain sewage diversion in the event of failure of the primary pumping equipment. The Contractor is solely responsible for sewage diversion. It is not acceptable, at any time, to disrupt normal flow of wastewater in sanitary sewer service laterals without prior approval from the Town of Grand Chute. This condition also holds at the time of connection of an existing lateral to the new sewer main.

If the contractor elects to use bypass pumping as a means of wastewater control, the methods, equipment, type of hose, etc. are subject to approval by the engineer and the Town of Grand Chute. The Town of Grand Chute contact is Brandon Cooper, Utility Foreman, Brandon.Cooper@grandchutewi.gov, (920) 422-6269.

Ramp any hoses crossing streets, driveways, parking areas, etc., to prevent damage to hoses. Contain spillage of wastewater to be within the utility trench and dispose of spillage into existing sewer downstream to previously installed sewer piping. Spillage of wastewater to adjacent streets, lawns, etc. will not be tolerated. Should spillage occur, cease all construction operations immediately and begin cleanup operations. Clean site thoroughly prior to the resumption of any construction operations.

D Measurement

The department will measure Wastewater Control once for the contract 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.0060.1225	Wastewater Control	EACH

Payment is full compensation for controlling or diverting all sanitary sewer flows during construction of sanitary sewer.

5.9 Connect to Existing Sanitary Sewer Force Main, Item SPV.0060.1230.

A Description

This special provision describes cutting into and connecting new sanitary sewer force main to existing sanitary sewer force main as shown on the plans and as provided by these specifications.

B Materials

Use materials consistent with Sanitary Sewer Force Main sections of these special provisions. Seal pipes with materials required in the State of Wisconsin Standard Specifications 2022 Edition.

C Construction

Connecting to Existing Sanitary Sewer Force Main in accordance with Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Seal all existing sanitary sewer pipe left in place as described and required in the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition.

D Measurement

The department will measure Connect to Existing Sanitary Sewer Force Main as a unit per each, regardless of size, 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.0060.1230	Connect to Existing Sanitary Sewer Force Main	EACH

Payment is full compensation for cutting existing sanitary sewer force main, removing any plugs or pipe, connecting to existing sanitary sewer force main, furnishing and placing all materials, including any required connecting sleeves and fittings; sealing any existing pipe left in place, and other items required for a complete installation.

5.10 Furnish and Install Insulation Over Sanitary Sewer Force Main, Item SPV.0060.1235.

A Description

Furnish and Install Insulation consists of installing rigid foam board or tubular insulation to insulate sanitary sewer force mains and/or sanitary service laterals where the top of sanitary sewer main or service lateral has 5-feet of cover or less, or when otherwise specified on the drawings or as directed by the Engineer.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230 as modified in this special provision.

Delete flammability requirement.

C Construction

Install insulation in accordance with the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition.

D Measurement

The department will measure Furnish and Install Insulation as each 4-foot by 8-foot sheet of insulation effectively installed, or per 8-foot length unit of tubular service insulation, 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.0060.1235	Furnish and Install Insulation Over Sanitary Sewer Force Main	Each

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.11 Air Valves in Manhole, Item SPV.0060.1240.

A Description

This special provision describes furnishing and installing valve manholes including the manhole, combination air release and air vacuum valve, ductile iron pipe within the vault and fittings and connections to the force main, at the locations shown on the plans, as determined by the engineer and as hereinafter provided.

B Materials

Submit shop drawings a minimum of two weeks prior to the purchase and/or fabrication of any of the components listed herein, submit five copies of design drawings and shop drawings, as required, to the engineer review.

B.1 Manhole

Provide the manhole in accordance with Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction

B.2 Combination Air Release and Air Vacuum Valve

Provide combination sewage air release and air vacuum valves consisting of an elongated cast iron body, stainless steel float, stainless steel or brass internals, 2-inch threaded inlet and 1 inch outlet capable of operating to 150 psi. Provide 2-inch gate valve at the inlet, blow off valve, backflushing hose and accessories.

B.3 Ductile Iron Pipe

Provide ductile iron pipe in accordance with section 8.18.0 of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition. Provide corrosion protection for all ductile iron pipe by use of polyethylene wrap.

B.4 Insulation

Provide plastic foam insulation complying with ASTM C534, Type I.

B.5 Utility Marker

Provide a flexible utility marker consisting of U.V. stable plastic, 5 feet in length and 3 ¾ inches in width. The marker shall be yellow in color with a vinyl decal message stating ‘SANITARY SEWER FORCE MAIN MANHOLE”.

C Construction

C.1 General Construction Methods

Install the manhole in accordance with Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction

Install combination sewage air release and air vacuum valve per manufacturer’s recommendations.

Install ductile iron pipe in accordance with the pertinent sections of Part IV of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition. Extend the polyethylene wrap approximately 18 inches beyond all joints and tape all seam securely.

Install plastic foam insulation blanket around force main per manufacturer's recommendations.

MacWrap to be installed on all manhole riser joints.

Install chimney seal according to Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

D Measurement

The department will measure Air Valves in Manhole 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.0060.1240	Air Valves in Manhole	Each

Payment is full compensation for all excavation, bedding, backfilling and compacting; furnishing and installation of manhole, ductile iron pipe, including all fittings and connections; insulation; combination air release and air vacuum valve; marker; and incidentals necessary to complete the contract work.

5.12 Adjusting Sanitary Manhole Cover, Item SPV.0060.1245.

A Description

This special provision describes adjusting sanitary manhole covers.

B Materials

Use materials conforming to standard spec 611.2.

C Construction

Use construction methods conforming to standard spec 611.3 and as follows:

Remove and reinstall existing chimney seals, as necessary to adjust manhole cover.

D Measurement

The department will measure Adjusting Sanitary Manhole Covers as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1245	Adjusting Sanitary Manhole Covers	EACH

Payment is full compensation for providing all required materials, exclusive of frames, grates, or lids; and for removing, reinstalling and adjusting the covers, including removing and reinstalling the existing chimney seal.

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5.13 Remove Water Main 16-Inch, Item SPV.0090.1200.

A Description

This special provision describes removing water main conforming to standard spec 204.

B (Vacant)

C Construction

Sawcut the pipe ends at the pipe removal limits if the pipe as a whole is not called for removal. Dispose of all pipe removed, backfill all trenches, holes and pits resulting from the removal or abandoning of pipe and other miscellaneous structures with satisfactory soil or select fill, placed in layers not more than 12 inches in thickness. All fill material required will be considered incidental to the removal or abandonment. Each layer will be thoroughly compacted by means of approved tampers, rollers or vibrators. Water will not be used to expedite settlement of backfill except with the approval of the engineer; this provision shall not be construed to require an excavation to be dewatered before placing backfill, if backfilling can be performed in such manner as to displace the water or prevent its entrapment in the backfill.

Pipe to be removed that is in the same trench as a new pipe will not be compensated as remove pipe and will be considered to be incidental to the new pipe installation. The same trench will be considered to be any pipe located with 3’ horizontally of the pipe being installed. This includes unidentified pipe that is smaller than 10 inches in diameter.

D Measurement

The department will measure Remove Water Main 16-Inch in linear feet acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1200	Remove Water Main 16-Inch	LF

Payment is full compensation for furnishing all materials; for disposal of surplus materials; excavation and compaction of select fill material; restoring the site.

5.14 16-Inch Water Main and Fittings, Item SPV.0090.1205.

A Description

This special provision describes all work required to furnish and install Water Main and Fittings in accordance to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

B Materials

B.1 Pipe

Furnish materials according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

B.2 Bedding

Furnish and Install materials according to Section 33 05 05.00 of the Town of Grand Chute Standard Specifications for Construction.

B.3 Tracer Wire

Provide tracer wire along the entire length of water main installed. Tracer wire installations shall conform with Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

C Construction

C.1 General Construction Methods

Install Water Main and Fittings to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Supply and install the pipe and necessary fittings (including properly blocked or restrained joints); and bed, cover and backfill, pressure test, and disinfect the new water pipe according to requirements of Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Uncover existing water main to which the new main is to be connected so as to allow for adjustment of line or grade to minimize use of fittings and avoid the need for extra fittings. At no time during construction shall a protective trench “shoe or box” be allowed to extend below the spring line of the water main pipe.

C.2 Testing

Fill all new water mains, pressure test, and secure an approved bacteria test, according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction, prior to allowing the new pipe to be connected to the existing water system unless there are valves located at the tie-in location, whereby the valves can be closed tight during the test period. The engineer shall approve a testing plan from the contractor prior to start of the work. Prior to connection to existing mains, the interior of the new “end” valves and/or associated new connection couplings/fittings shall be thoroughly sprayed with a 25 mg/l chlorine solution to provide disinfection. Flush all new water mains prior to taking a sample for the bacteria test. All flushed water shall be tested as specified in Section 33 10 00.00 of the town specifications. Connections to existing pipes can be made after new main is completely tested (both pressure and bacteria tests) and accepted by the engineer.

Testing of all connections to existing water system shall be by visual observance of leakage, by the engineer; at existing system pressure after main is placed back into service and prior to backfilling. Any leakage observed shall be repaired, as approved by the engineer, to completely stop any leakage.

Assure continuity between sleeved connections to existing/new mains (in same configuration as standard pipe joints), and the engineer must approve continuity on all sleeved connections. Continuity of the new main shall be tested by the contractor, with the engineer present, prior to placing main into service.

D Measurement

Water Main and Fittings shall be measured by the lineal foot acceptably completed. This measurement equals the distance along the centerline of the pipe (including fittings and valves), from center to center of end structures or from center of end structure to the terminus of new pipe where no structure exists.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1205	16-Inch Water Main and Fittings	LF

Payment is full compensation for furnishing all work described herein, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work, and for which a separate bid item is not provided.

Payment includes trench excavation; supply and installation of new pipe; placement of bedding and cover materials; blocking; sheeting/shoring; making connections; anchoring pipe; placement and compaction of backfill; testing and disinfection of pipe/fittings; and other miscellaneous items necessary for a complete installation, and for which a separate bid item is not provided.

5.15 16-Inch Water Main and Fittings with 30-Inch Steel Casing, Item SPV.0090.1210.

A Description

This special provision describes all work required to furnish and install Water Main and Fittings with Steel Casing in accordance to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

B Materials

B.1 Pipe

Furnish materials according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

B.2 Casing

Provide steel casing pipes meeting the following standards:

- Minimum 30-Inch inside diameter
- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the contractor
- Not coated or cathodically protected, no hydrostatic testing required
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe
- Straight and round pipe
- Beveled ends for butt welding

Furnish Pipe Line Seal & Insulator, Inch (PSI)’s casing spacers or engineer approved equal.

Furnish PSI, Model W, Wrap-around casing end seal.

B.3 Bedding

Furnish and Install materials according to Section 33 05 05.00 of the Town of Grand Chute Standard Specifications for Construction.

B.4 Tracer Wire

Provide tracer wire along the entire length of water main installed. Tracer wire installations shall conform with Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

C Construction

C.1 General Construction Methods

Install Water Main and Fittings to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Supply and install the pipe and necessary fittings (including properly blocked or restrained joints); and bed, cover and backfill, pressure test, and disinfect the new water pipe according to requirements of Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

Uncover existing water main to which the new main is to be connected so as to allow for adjustment of line or grade to minimize use of fittings and avoid the need for extra fittings. At no time during construction shall a protective trench “shoe or box” be allowed to extend below the spring line of the water main pipe.

Connect adjacent lengths of steel casing pipe by continuous, circumferential, field butt welding according to AWWA C206. Provide connections that are straight and true, and watertight in the existing groundwater conditions.

Prior to installing the carrier pipe inside of the casing pipe, install spacers per manufacturer’s recommendations at maximum ten foot spacing and maximum of 1 foot from ball and flange of each carrier pipe. Do not fill annular space.

Contractor is solely responsible for any damage created by thrust and lateral earth pressures created by the installation process. Protect existing utilities in or around the boring and receiving pit areas.

C.2 Testing

Fill all new water mains, pressure test, and secure an approved bacteria test, according to Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction, prior to allowing the new pipe to be connected to the existing water system unless there are valves located at the tie-in location, whereby the valves can be closed tight during the test period. The engineer shall approve a testing plan from the contractor prior to start of the work. Prior to connection to existing mains, the interior of the new “end” valves and/or associated new connection couplings/fittings shall be thoroughly sprayed with a 25 mg/l chlorine solution to provide disinfection. Flush all new water mains prior to taking a sample for the bacteria test. All flushed water shall be tested as specified in Section 33 10 00.00 of the town specifications. Connections to existing pipes can be made after new main is completely tested (both pressure and bacteria tests) and accepted by the engineer.

Testing of all connections to existing water system shall be by visual observance of leakage, by the engineer; at existing system pressure after main is placed back into service and prior to backfilling. Any leakage observed shall be repaired, as approved by the engineer, to completely stop any leakage.

Assure continuity between sleeved connections to existing/new mains (in same configuration as standard pipe joints), and the engineer must approve continuity on all sleeved connections. Continuity of the new main shall be tested by the contractor, with the engineer present, prior to placing main into service.

D Measurement

Water Main and Fittings shall be measured by the lineal foot, acceptably completed. This measurement equals the distance along the centerline of the pipe (including fittings and valves), from center to center of end structures or from center of end structure to the terminus of new pipe where no structure exists.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1210	16-Inch Water Main and Fittings with 30-Inch Steel Casing	LF

Payment is full compensation for furnishing all work described herein, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work, and for which a separate bid item is not provided.

Payment includes trench excavation; supply and installation of new pipe; placement of bedding and cover materials; blocking; sheeting/shoring; making connections; anchoring pipe; placement and compaction of backfill; testing and disinfection of pipe/fittings; and other miscellaneous items necessary for a complete installation, and for which a separate bid item is not provided.

5.16 Remove Sanitary Sewer Force Main 6-Inch, Item SPV.0090.1215; Remove Sanitary Sewer Force Main 8-Inch, Item SPV.0090.1220.

A Description

This special provision describes removing sanitary force main pipe, as called for on the plan set conforming to standard spec 204.

B (Vacant)

C Construction

Sawcut the pipe ends at the pipe removal limits if the pipe as a whole is not called for removal. Dispose of all pipe removed, backfill all trenches, holes and pits resulting from the removal or abandoning of pipe and other miscellaneous structures with satisfactory soil or select fill, placed in layers not more than 12 inches in thickness. All fill material required will be considered incidental to the removal or abandonment. Each layer will be thoroughly compacted by means of approved tampers, rollers or vibrators. Water will not be used to expedite settlement of backfill except with the approval of the engineer; this provision shall not be construed to require an excavation to be dewatered before placing backfill, if backfilling can be performed in such manner as to displace the water or prevent its entrapment in the backfill.

Pipe to be removed that is in the same trench as a new pipe will not be compensated as remove pipe and will be considered to be incidental to the new pipe installation. The same trench will be considered to be any pipe located within 3’ horizontally of the pipe being installed. This includes unidentified pipe that is smaller than 10 inches in diameter.

D Measurement

The department will measure Remove Sanitary Sewer Force Main by the linear foot, acceptably completed, measured along the centerline of pipe removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1215	Remove Sanitary Sewer Force Main 6-Inch	LF
SPV.0090.1220	Remove Sanitary Sewer Force Main 8-Inch	LF

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work. Payment will include the select fill material required to backfill the trench created by pipe being removed.

5.17 6-Inch Sanitary Sewer Force Main and Fittings, Item SPV.0090.1225; 8-Inch Sanitary Sewer Force Main and Fittings, Item SPV.0090.1230.

A Description

This special provision describes furnishing and installing new sanitary sewer force main and fittings at the locations shown on the plans, as determined by the engineer and as hereinafter provided. Connection to existing force main and removal of existing force main are included in this provision.

Maintain the normal flow of wastewater at all times during replacement of the existing sanitary sewer main with the new sanitary sewer main. Payment for furnishing all bypass pumping, temporary piping, and/or temporary connections, which are required to maintain the normal flow of wastewater throughout the sewer construction, is under the bid item for Wastewater Control.

B Materials

B.1 Pipe

Provide polyvinyl chloride (PVC) DR18, pressure sanitary sewer force main in accordance with the Standard Specification for Sewer and Water Construction in Wisconsin. Pipe shall meet the requirements of AWWA-C900 (minimum class 150) or ASTM-D2241 (minimum class 250). Solvent weld joint will not be allowed. Cleanout shall use same pipe and fittings, as shown in the Drawings.

B.2 Bedding

Furnish and Install materials according to Section 33 05 05.00 of the Town of Grand Chute Standard Specifications for Construction.

B.3 Tracer Wire

Provide tracer wire along the entire length of sanitary sewer force main installed. Tracer wire installations shall conform with Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

C Construction

C.1 General Construction Methods

Install sanitary sewer force main in accordance with the pertinent sections of Part IV of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition.

Place Class B bedding material in accordance with section 3.2.6 (b) of the Standard Specification for Sewer and Water Construction in Wisconsin.

Remove existing sanitary sewer force main in accordance with the pertinent sections of standard specification 204.

Install tracer wire in accordance with Section 33 10 00.00 of the Town of Grand Chute Standard Specifications for Construction.

C.2 Testing

Perform pressure and leakage tests in accordance with section 3.2.6 (n) and 4.15 of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition. Perform the pressure test at 150% of the design operating pressure as specified by the engineer, but not less than 50 psi. Notify the engineer two days prior to conducting the tests. Obtain prior approval from the engineer for all testing procedures.

D Measurement

The department will measure (Size) Sanitary Sewer Force Main and Fittings by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1225	6-Inch Sanitary Sewer Force Main and Fittings	LF
SPV.0090.1230	8-Inch Sanitary Sewer Force Main and Fittings	LF

Payment is full compensation for all excavation, bedding, backfilling and compacting; sheeting/shoring; furnishing and installation of new sanitary sewer force main and cleanout, including all fittings, blocking and making connections; testing; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

5.18 6-Inch Sanitary Sewer Force Main and Fittings with 18-Inch Steel Casing, Item SPV.0090.1235; 8-Inch Sanitary Sewer Force Main and Fittings with 20-Inch Steel Casing, Item SPV.0090.1240.

A Description

This special provision describes furnishing and installing new sanitary sewer force main, fittings and casing at the locations shown on the plans, as determined by the engineer and as hereinafter provided.

Maintain the normal flow of wastewater at all times during replacement of the existing sanitary sewer main with the new sanitary sewer main. Payment for furnishing all bypass pumping, temporary piping, and/or temporary connections, which are required to maintain the normal flow of wastewater throughout the sewer construction, is under the bid item for Wastewater Control.

B Materials

B.1 Pipe

Provide polyvinyl chloride (PVC) DR18, pressure sanitary sewer force main in accordance with the Standard Specification for Sewer and Water Construction in Wisconsin. Pipe shall meet the requirements of AWWA-C900 (minimum class 150) or ASTM-D2241 (minimum class 250). Solvent weld joint will not be allowed.

B.2 Casing

Provide steel casing pipes meeting the following standards:

- Minimum 18-Inch and 20-Inch inside diameter
- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the contractor
- Not coated or cathodically protected, no hydrostatic testing required
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe
- Straight and round pipe
- Beveled ends for butt welding

B.3 Bedding

Furnish and Install materials according to Section 33 05 05.00 of the Town of Grand Chute Standard Specifications for Construction.

B.4 Tracer Wire

Provide tracer wire along the entire length of sanitary sewer force main installed. Tracer wire installations shall conform with Section 33 30 00.00 of the Town of Grand Chute Standard Specifications for Construction.

C Construction

C.1 General Construction Methods

Install sanitary sewer force main in accordance with the pertinent sections of Part IV of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition. Support and brace sewer pipe to prevent shifting or flotation. Fill annular space between carrier pipe and casing pipe with blown sand or cement grout.

Place Class B bedding material in accordance with section 3.2.6 (b) of the Standard Specification for Sewer and Water Construction in Wisconsin.

Remove existing sanitary sewer force main in accordance with the pertinent sections of standard specification 204.

Connect adjacent lengths of steel casing pipe by continuous, circumferential, field butt welding according to AWWA C206. Provide connections that are straight and true, and watertight in the existing groundwater conditions.

Contractor is solely responsible for any damage created by thrust and lateral earth pressures created by the installation process. Protect existing utilities in or around the boring and receiving pit areas.

C.2 Testing

Perform pressure and leakage tests in accordance with section 3.2.6 (n) and 4.15 of the Standard Specification for Sewer and Water Construction in Wisconsin, latest edition. Perform the pressure test at 150% of the design operating pressure as specified by the engineer, but not less than 50 psi. Notify the engineer two (2) days prior to conducting the tests. Obtain prior approval from the engineer for all testing procedures.

D Measurement

The department will measure (Size) Sanitary Sewer Force Main and Fittings with (Size) Steel Casing by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1235	6-Inch Sanitary Sewer Force Main and Fittings with 18-inch Steel Casing	LF
SPV.0090.1240	8-Inch Sanitary Sewer Force Main and Fittings with 20-inch Steel Casing	LF

Payment is full compensation for all excavation, bedding, backfilling and compacting; sheeting/shoring; furnishing and installation of new sanitary sewer force main, including all fittings, blocking and making connections; testing; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

6. Railroads.

6.1 Railroad Insurance and Coordination, Fox Valley and Lake Superior Rail System, LLC.

A Description

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

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Justin Mahr, Senior Manager Real Estate-Contracts; 315 W. 3rd Street, Pittsburg, KS 66762; telephone (402) 651-8238; E-mail: justin.mahr@watco.com.

Also send a copy to the following: Jared Kinziger, NE Region Railroad Coordinator; 944 Vanderperren Way, Green Bay, WI 54304; Telephone (920) 492-7713; E-mail: jared.kinziger@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 1130-64-71, 1130-64-72, 1130-64-87
- Project Location: Town of Grand Chute, Wisconsin
- Route Name: IH 41, Outagamie County
- Work Performed on or within 50’ of RR ROW: Reconstruct and widen highway/bridges over railroad and detours.

#	Route Name	City/County	Crossing ID	RR Subdivision	RR Milepost
1	IH 41	Grand Chute / Outagamie	181829G	New London	124.00
2	STH 96	Grand Chute / Outagamie	181826L	New London	123.44
3	STH 15	Grand Chute / Outagamie	693822Y	New London	124.84
4	STH 96	Grand Chute / Outagamie	697814V	Shawano	355.25

A.2 Train Operation

#	Passenger Train Volume	Passenger Train Speed	Freight Train Volume	Freight Train Speed	Frequency	Switch Train Comment*
1	N/A		6	10	Weekly	No switch trains
2	N/A		6	10	Weekly	No switch trains
3	N/A		6	10	Weekly	No switch trains
4	N/A		6	25	Weekly	No switch trains

* Switch trains are in addition to freight and passenger trains.

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

Construction Contact

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

Flagging Contact

Gary Westphal; Roadmaster; (414) 750-5676; E-mail gwestphal@watco.com, reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact the Construction Contact above at least five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1. Fox Valley and Lake Superior Rail System, LLC will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

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

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

A.5 Temporary Grade Crossing

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

B Railroad Flagging

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

Projects with concurrent activity may require more than one flagger.

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

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

C Flagging by Railroad– Railroad Does Not Pay Flagging Costs

C.1 General

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

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

- WisDOT crossing number.
- Railroad milepost.
- Railroad subdivision.

(3) Perform all work within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way in a way that does not interfere with the safe and uninterrupted operation of railroad traffic. Maintain clearances during construction as follows:

1. Do not operate equipment closer than 25 feet horizontally from a track centerline or 22 feet vertically above the top of a rail, except under the protection of railroad flaggers.
2. Do not store materials or equipment closer than 25 feet horizontally from a track centerline.
3. Provide an obstruction-free work zone adjacent to a track extending 12 feet or more horizontally on both sides of the track centerline. Keep this work zone free of construction debris.
4. Unless the railroad's chief engineering officer approves otherwise in writing, maintain minimum clearances from falsework, forms, shoring, and other temporary fixed objects as follows:
    a. Provide 12 feet, plus 1.5 inches per degree of track curvature, measured horizontally from the track centerline.
    b. Provide 21 feet, plus compensation for super-elevated track, measured vertically above the top of the highest rail.

(4) Comply with the railroad's rules and regulations when work is within 25 feet of the track centerline including equipment or extensions of equipment that can fall within 25 feet of the track centerline or adjacent facilities or when working on railroad right-of-way. If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and make payment directly to the railroad. Notify the appropriate railroad representative as listed in section A.3 above, in writing, at least 40 business days before starting work near a track. Provide the specific time planned to start the operations.

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

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

- $968 daily rate for an 8-hour day (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- $182 per hour for all hours over 8-hours in any weekday (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- $1,150 daily rate for an 8-hour day on Saturdays, Sundays or holidays (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),
- $207 per hour for all hours on Saturdays, Sundays or holidays over 8-hours (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses).

C.3 Reimbursement Provisions

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

C.4 Excluded Conditions

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

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

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

C.5 Payment for Flagging

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

ITEM NUMBER	DESCRIPTION	UNIT
801.0117	Railroad Flagging Reimbursement	DOL

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

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

stp-107-034 (20240703)

7. Environmental.

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

The department has obtained an individual Section 404 Permit from the U.S. Army Corps of Engineers. Comply with the requirements of the permit in addition to requirements of the special provisions.

A copy of the permit is available from the regional office by contacting Scott Ebel at (920) 492-5676.

If the contractor requires work outside the proposed slope intercepts, based on their method of operation to construct the project, it is the contractor's responsibility to determine whether a U.S. Army Corps of Engineers Section 404 permit modification is required. If a Section 404 permit modification is necessary, obtain the permit modification prior to beginning construction operations requiring the permit. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the permit modification. The contractor must be aware that the U.S. Army Corps of Engineers may not grant the permit modification request.

stp-107-054 (20230629)

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

The department has obtained permit coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities under this contract. Conform to all permit requirements for the project.

This permit is the Wisconsin Pollutant Discharge Elimination System, Transportation Construction General Permit, (WPDES Permit No. WI-S066796-2). The permit can be found at:

https://widnr.widen.net/s/s5mwp2gd7s/finalsignedwisdotcsgp

A certificate of permit coverage is available from the regional office by contacting Tim Verhagen at (920) 362-1267. Post the permit certificate in a conspicuous place at the construction site.

stp-107-056 (20230629)

7.3 Notice to Contractor, Handsome Sedge.

The Handsome Sedge, a Wisconsin Threatened plant, is located at the STH 15 interchange. Several communities of the plant have been relocated outside of the proposed construction limits. Contact the IH 41 Corridor Environmental Coordinator at (920) 492-5705 if impacts outside of the proposed construction limits are anticipated. The coordinator will confirm the new impacts will not affect the remaining communities of plants.

7.4 Notice to Contractor, Fish Spawning.

There shall be no instream disturbance of Mud Creek (Station 666NB+00 RT and Station 669SB+25 LT) as a result of construction activity under or for this contract, from March 1 to May 31 both dates inclusive, in order to avoid adverse impacts to fish species during the spawning period.

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

7.5 Environmental Protection, Aquatic Exotic Species Control.

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

http://dnr.wi.gov/topic/invasives/disinfection.html

Use the following inspection and removal procedures:

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

stp-107-055 (20130615)

7.6 Environmental Protection, Dewatering.

Add the following to standard spec 107.18:

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

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

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

ner-107-040 (20180212)

7.7 Environmental Protection, Bypass Pumping.

Add the following to standard spec 107.18:

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

ner-107-035 (20180212)

7.8 Environmental Protection, Phragmites.

Add the following to standard spec 107.18:

(7) Phragmites, an invasive species plant, is known to exist within the project limits and in areas that ground disturbance or excavation work is shown in the plans. All soils containing plant or root fragments within the roadway construction limits that will be excavated or salvaged as part of the work within the contract shall be used as fill per standard spec. 205.3.12, replaced in its original location as salvaged topsoil, hauled to locations designated for disposal as shown in the contract or wasted at a select site as approved by the engineer.

(8) All waste sites are subject to review and approval by the department and shall be suitable to the waste of material containing invasive species to control their spread in compliance with NR 40. Waste sites suitable for invasive species would prevent or control the growth and spread of the plant by burying, mowing or other control practices. The contractor shall submit methods for managing phragmites infested soil on this project for approval as part of the Erosion Control Implementation Plan.

(9) Known Locations of invasives are shown in the plans as a construction detail, but other locations may exists within the project limits. Notify the engineer of any addition areas of phragmites that are identified. The limits of all previously and newly identified locations of phragmites are to be verified by the engineer in the field prior to any soil disturbance taking place.

(10) Prior to moving equipment out of the infested area clean soils, seeds, plant, or invertebrates from exterior surfaces. Use most effective method that is practical by the following means: brush, broom, or other hand tools; high pressure air, steam cleaning; or portable wash station that contains runoff from washing equipment. Do not clean equipment, vehicles or trailers in or near waterways as it may promote the spread of invasive species downstream.

ner41-107 (12052023)

7.9 Environmental Protection, Northern Long Eared Bat.

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

Ensure all operators, employees, and subcontractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat.

Avoidance and Minimization Measures (AMMs) for Northern Long Eared Bat (NLEB) and Tri Colored Bat (TCB) include:

<u>General AMM</u>

1. Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA and the department’s environmental commitments, including all applicable AMMs.

Lighting AMM

1. Direct temporary lighting away from suitable habitat during the active season.

Tree Removal AMM

1. Apply time of year restrictions for tree removal, November 1 to March 31 of the calendar year.
2. Ensure tree removal is limited to that specified in the plans. Clearing limits shall be marked in the field by the engineer (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

Bridge AMM

1. If bridge assessment or P/A surveys suggest presence of a small number of bats (<5 – not a colony), and work is conducted during the active season, the following types of bridge work can generally be conducted with the presence of bats:
    a. Above deck work where construction equipment or materials do not extend to the underside of deck where bats may be located (e.g., materials that may drip down to underside of deck) and does not include percussives (vibration) or noise levels above general traffic (e.g., road line painting, wing-wall work). Below deck work that is conducted away from roosting bats and does not involve percussives or noise level above general traffic (e.g., wing-wall work, some abutment, beam end, scour, or pier repair).
    b. Any other bridge repair, retrofit, maintenance, and/or rehabilitation (which may include activities with percussives) conducted in the evening while the bats are feeding, starting one hour after sunset, and ending one hour before daylight excluding the hours between 10 p.m. and midnight and keep the lighting localized.

Reasonable and Prudent Measures (RPMs) the following RPMs are necessary and appropriate to minimize impacts of incidental take of bats:

1. The department will ensure that all of the AMMs are implemented.
    a. Notify contractors and construction staff of conservation measures and ensure compliance with these measures.
    b. Bridge/culvert surveys for bats will be conducted by the department a minimum of 24 months before construction activities begin. Construction activities should not begin until after appropriate agencies have been notified of survey results (if not already on-site during the survey).
    c. Only individuals with authorization to capture bats will capture and handle bats.
    d. If any AMMs cannot be implemented or require modification, contact the engineer and Regional Environmental Coordinator (REC) for further discussion before proceeding with work.
2. The department and its contractors will ensure that appropriate agencies are notified of construction initiation and completion dates, as well as any unforeseen circumstances.
    a. Notify the department's REC, Mae Sommerfeld, via email (Mae.Sommerfeld@wi.dot.gov) or current REC when construction is expected to begin.
    b. Provide contact information for Mae Sommerfeld or current REC to appropriate on-site staff so the department can immediately notify agencies of any unforeseen or emergency circumstances or request clarification regarding conservation measures or terms and conditions.
    c. Notify Mae Sommerfeld via email (Mae.Sommerfeld@wi.dot.gov) or current REC when construction is complete.
3. Should a dead or injured bat be found during project activities; all contractors will ensure that construction activities cease immediately and that the engineer is notified.
    a. Cease all construction activities if a dead or injured bat is found during project activities and immediately notify the engineer and WisDOT REC Mae Sommerfeld via email (Mae.Sommerfeld@wi.dot.gov) or current REC.

b. Contactors should be aware that if dead or injured bats are found additional conservation measures to prevent additional injury or mortality throughout the remaining project activities may be required on a project specific basis.

8. Clear, Demolition and Removal.

8.1 Clearing and Grubbing.

Remove trees in accordance with requirement identified in the Tree Removal AMM section of the Environmental Protection, Northern Long Eared Bat article.

Add to standard spec 201.3:

The contractor is prohibited from open burning of weeds, brush, logs, limbs, stumps, roots, lumber and debris from clearing and grubbing or from demolition.

Dispose of stumps, roots, brush, waste logs and limbs, timber tops and debris resulting from clearing and grubbing or occurring within clearing and grubbing limits by chipping and removing from the highway right of way.

ner-201-005 (20190717)

8.2 Ground Water Monitoring Well.

Others have constructed groundwater monitoring wells along the corridor, these wells have been abandoned prior to construction.

If ground water monitoring wells or portions of a ground water monitoring well are encountered during construction, notify the project engineer. Any work encountered with verified ground water monitoring wells is incidental to the project.

8.3 Removing Apron Endwalls, Item 204.9060.S.0103.

A Description

This special provision describes removing apron endwalls conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Apron Endwalls by each unit, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.0103	Removing Apron Endwalls	EACH

stp-204-025 (20230113)

8.4 Removing Cover Plates, Item SPV.0060.0125.

A Description

This special provision describes removing steel cover plates placed and left in place on storm sewer structures under a previous contract.

B (Vacant)

C Construction

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

Clean out all soil, debris other accumulated matter and materials deposited or lodged resulting from the removal of the cover plate.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0125	Removing Cover Plates	EACH

Payment is full compensation for excavating, cleaning out and disposing of excavated material and cover plates. The cover plates shall become the property of the contractor for reuse or disposal.

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.

8.5 Removing Storm Sewer Plug, Item SPV.0060.0126.

A Description

This special provision describes removing storm sewer plugs placed in storm sewer pipes under a previous contract.

B (Vacant)

C Construction

Excavate and carefully remove storm sewer plugs at locations shown on the plan or as directed by the engineer. Do not damage storm sewer pipes while removing plugs.

Clean out all soil, debris other accumulated matter and materials deposited or lodged resulting from the removal of the plug.

D Measurement

The department will measure Removing Storm Sewer Plug as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0126	Removing Storm Sewer Plug	EACH

Payment is full compensation for excavating, cleaning out and disposing of excavated material and plug.

Storm sewer plugs placed under this contract are paid under that bid item and no payment will be made for removal of those as part of this bid item. No additional payments will be made for replacing damaged storm sewer structures and pipes when removing plugs.

8.6 Sawing Concrete Barrier Single Faced, Item SPV.0060.0127.

A Description

This special provision describes sawing existing concrete barrier full-depth according to the pertinent requirements of standard spec 690, as shown in the plans and as hereinafter provided.

B (Vacant)

C Construction

This works includes vertical full depth sawing of the existing concrete barrier wall. Operations shall not compromise the integrity of the adjacent materials that are to remain in place.

D Measurement

The department will measure Sawing Concrete Barrier Single Faced as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0127	Sawing Concrete Barrier Single Faced	EACH

Payment is full compensation for transverse full-depth sawing of concrete barrier wall.

9. Earthwork.

9.1 Notice to Contractor, Salvaged Topsoil.

Remove additional topsoil in areas beneath embankments, as shown in the plans or as directed by the engineer. Use materials as shown in the plans to backfill the area. Removal of additional topsoil beneath embankments is incidental to the Salvaged Topsoil bid item.

After completing the finished grading, place 6-inches of salvaged topsoil on all surfaces where seeds will be sown, or sod will be placed. Use surplus humus-bearing soils to flatten slopes, fill low places in the right of way or as directed by the engineer.

9.2 Embankment Construction, Benching.

Replace standard spec 205.3.2(4) with the following:

If placing embankment on side slopes 10-feet high or higher and steeper than one vertical to 3 horizontal, cut a minimum 18-inch depth bench into the existing embankment every 3 feet of vertical fill height.

ner-207-005 (20171213)

9.3 Preparing the Foundation.

Add the following to standard spec 211.3.1:

The contractor shall plan construction activities such that the earth subgrade is covered by the roadway base in a timely manner upon completion of preparation of the subgrade or as the engineer directs. The contractor is responsible for the removal of any excess water from the subgrade as a result of rainfall events or natural drainage.

ner-211-005 (20171213)

9.4 Staged Embankment Construction, Ramp WNA.

Construct the early roadway embankment and pre-load fill as the plans show, conforming to section 207 of the standard spec, and as hereinafter provided.

Place each stage of roadway embankment to the maximum elevation and limits shown in the table below. After placement, wait a minimum number of calendar days as indicated in the table below unless allowed by the engineer. The engineer may extend the wait period of the fill if the settlement data indicates this is appropriate. No additional payment will be made for any delays or additional work incurred if the settlement data indicate the need for an extended waiting period. Except for maintaining embankments, perform no work on embankments until settlement and monitoring requirements identified in “Settlement Gauges” and “Geotechnical Instrumentation Monitoring and Reporting” special provisions are complete, unless otherwise approved by the engineer.

Stockpile no material nor store equipment on embankments during the waiting period, unless otherwise approved by the engineer.

Location - Alignment	Begin Station	End Station	Features	Construction Stage(s)	Max Fill Elevation	Wait Period Before Next Stage/Paving
WNA	1542WNA+00	1547WNA+00	Embankment Pre-load	2	Top of Wall	60 days
	1542WNA+00	1547WNA+00	R-44-52 Embankment Fill	4	Planned Finished Subgrade	0 days

Submit a request in writing to the engineer for approval to reduce the wait period if two consecutive readings less than 0.125 inches difference are recorded, and a monthly total settlement of less than 0.25 inches is recorded. Include the proposed number of days between final embankment placement and proposed paving operations and all previously collected settlement data at or near the applicable locations, in the request. The engineer shall respond within 7 days to this request.

9.5 Embankment Settling Period, Ramp WND.

Construct the proposed rigid inclusion system, load transfer platform, wall R-44-28, and as the plans show, conforming to standard spec 207, and as hereinafter provided.

Place roadway embankment for Ramp WND to the elevation and limits shown in the table below. After placement, wait a minimum number of calendar days as indicated in the table below prior to start of final paving, unless allowed by the engineer. No additional payment will be made for any delays or additional work incurred if the settlement data indicate the need for an extended waiting period.

Except for maintaining embankments, perform no work on embankments until settlement and monitoring requirements identified in "Settlement Gauges (SG)" and "Geotechnical Instrumentation Monitoring and Reporting" special provisions are complete, unless otherwise approved by the engineer.

Location - Alignment	Begin Station	End Station	Features	Construction Stage(s)	Fill Elevation to Begin Wait Period	Estimated Minimum Wait Period Before Paving
WND	1541WND+00	1544WND+00	R-44-28 Retaining Wall (Including MSE Backfill and Fill Material Behind MSE Wall)	1A-2B	Planned Finished Roadway Subgrade	90 days

Submit a request in writing to the engineer for approval to reduce the wait period if two consecutive readings less than 0.125 inches difference are recorded, and a monthly total settlement of less than 0.25 inches is recorded. Include the proposed number of days between final embankment placement and proposed paving operations and all previously collected settlement data at or near the applicable locations, in the request. The engineer shall respond within 7 days to this request.

9.6 Backfill Controlled Low Strength, Item 209.0200.S.

A Description

This special provision describes furnishing and placing a controlled low strength material designed for use as backfill in trenches for culverts, sewers, utilities, or similar structures, as backfill behind bridges abutments, or as fill for the abandonment of culverts, pipes, or tanks.

B Materials

Provide controlled low strength backfill that consists of a designed cementitious mixture of natural or processed materials. Allowable materials include natural sand, natural gravel, produced sand, foundry sand, produced gravel, fly ash, Portland cement, and other broken or fragmented mineral materials. The designed mixture shall be self-leveling and shall be free of shrinkage after hardening. Design the mixture to reach a state of hardening such that it can support foot traffic in no more than 24 hours. Provide a mixture that also meets the following requirements.

TEST	METHOD	VALUE
Flow (inch)	ASTM D-6103	9 min
Compressive Strength (psi)	ASTM D-6024	20-40 @ 14 days 40-80 @ 28 days 80-120 @ 90 days

Chemical admixtures to control air content and setting time are allowable. Ten days before placement, furnish the engineer with a design mix detailing all components and their proportions in the mix.

C Construction

Place controlled low strength backfill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition.

If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of controlled low strength backfill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40º F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours.

No controlled low strength backfill shall be allowed to enter any stream, lake, or sewer system. The contractor shall be responsible for any clean up or remediation costs resulting from such occurrences.

D Measurement

The department will measure Backfill Controlled Low Strength in volume by the cubic yard of material, placed and accepted. Such volume shall be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate methods.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0200.S	Backfill Controlled Low Strength	CY

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

stp-209-010 (20191121)

9.7 Roadway Embankment, Item SPV.0035.0100.

A Description

This special provision describes providing embankments and the materials needed to construct embankments. Conform to standard spec 207 and 208 and as below.

Material to construct embankments is incidental to this bid item, including Borrow.

B Materials

Furnish materials in accordance to standard spec 207.2.

If Borrow material is used conform to standard spec 208.2.

C Construction

Conform to standard spec 207.3.

If Borrow material is used conform to standard spec 208.3.

D Measurement

The department will measure Roadway Embankment by the cubic yard acceptably completed in its final position, using the method of average end areas, with no correction for curvature. The department will determine the end areas from preconstruction cross-sections of the area being covered by the proposed embankment and from cross-sections of the completed work. The department will not make allowances for shrinkage, subsidence, lateral movement of the material, or for material in excess of that required for work the plans show or the engineer orders.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.0100	Roadway Embankment	CY

Payment is full compensation for placing material to construct embankments which includes hauling, placing, forming, compacting, shaping, sloping, trimming, finishing, maintaining embankments and other incidental work required under standard spec 207 and 208.

Payment includes clearing, grubbing, excavating, disposing of surplus and unsuitable material and spreading salvaged material for covering the surfaces of excavated areas within the borrow sites.

The department will not pay separately for removing and disposing of rock, stone and boulders that the engineer rejects under 207.3.11.

ner-207-015 (20190402)

10. Bases, Subbases and Pavements.

10.1 Notice to Contractor, Concrete Pavement Material Placement.

Spread concrete uniformly across the subgrade or subbase as close as possible to its final position prior to the concrete mix reaching the concrete paving machine.

10.2 QMP Ride for PCC Riding Surfaces.

A Description

Replace standard specification 740 QMP Ride with the following special provision.

(1) This special provision describes profiling requirements with a non-contact profiler, locating areas of localized roughness and determining the International Roughness Index (IRI) for each wheel path.

B Pre-Project Requirements

(1) The Profiler APL is located at: https://wisconsindot.gov/pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

(2) Re-certify profiler if changes or repairs are made to the device that affect data collection or analysis, including repairs made to the profiler components or software.

B.1 Material Conformance

(1) Use profiler equipment that conforms to the following:

Table 1: Profiler Conformance

Equipment Name	Conformance
Inertial Profiler	AASHTO M328
Annual Certification of Profiler (Standard Practice for Certification of Inertial Profiling Systems)	AASHTO R56
Daily Calibration of Profiler	AASHTO R57

B.2 Contractor Requirement

(1) Furnish profiler equipment from the current APL at the time of project testing.

(2) Enter the equipment-specific department-approved filter settings and parameters given in the approved profilers list at: https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx

B.3 Department Requirement

(1) The Department will certify all profilers conforming to Table 1: Profiler Conformance.

C Project Requirements

C.1 Material Conformance

Table 2: Category Definition

Category Name	Description
PCC	Concrete pavements

Table 3: Profile Segment Conformance

Profile	ProVAL Analysis	Length	Category
IRI	Smoothness Assurance - Fixed Interval (IRI)	500 feet (1 segment)	PCC
Localized Roughness	Smoothness Assurance – Short Continuous (IRI)	25 feet	PCC & Posted Vehicle Speed > 45 mph

C.2 Contractor Testing

(1) Measure smoothness with an inertial profiler to determine the International Roughness Index (IRI) for each wheel path of each driving lane.

(2) Perform, record and submit a daily calibration according to AASHTO R57 to the engineer, prior to data collection.

(3) Profile final riding surfaces greater than 1500 feet in continuous length, including bridge decks, bridge approaches, intersections, railroad crossings, and pavement gaps. Profile final riding surfaces that are full width, and typically carry moving vehicles. Include the following:

1. Auxiliary lanes.
2. System interchanges that carry traffic from one freeway to another via ramps or connectors.
3. Mainline pavement on county, state, or U.S. highway crossroads reconstructed under the contract.
4. Include bridges and bridge approaches in profile runs but exclude them from segment IRI calculations.

(4) Follow Table 4 for list of exclusions:

Table 4: Exclusions

Pavement	Excluded Areas From IRI Smoothness Only	Excluded Areas From Smoothness And Localized Roughness
PCC	Pavement with a posted vehicle speed less than 45 mph Service interchange entrance ramps, exit ramps, loop ramps and turn lanes Acceleration and deceleration lanes less than 1,500 feet in length Intersections constructed under traffic; begin and end exclusion 100 feet from the Intersection radius	Pavement with a posted vehicle speed less than or equal to 35 mph Turn lanes and crossovers Side roads 150 feet before stop signs at an Intersection 150 feet within points of curvature of a roundabout Bridge decks, approach panels Pavements within 25 feet of bridges or bridge approaches not constructed under the contract 25 feet from terminal headers tying into existing pavement. Doweled Shoulders less than 10 feet in width Un-doweled Shoulders . Headers adjacent to colored concrete

C.2.1 Quality Control Plan

(1) Prepare a project-specific written quality control (QC) plan and submit to the engineer no later than 10 business days before paving. Update QC plans with changes as they become effective.

(2) Ensure the QC plan conforms to Standard Specification 701.1.2.2 with the following modifications:

- *Remove numbers 3, 4, 5 & 9*
- *Add the following:*
    - The methods and timing used for monitoring and testing ride quality throughout the placement process/work. Also indicate the approximate timing of testing in relation to the work.
    - Segment locations of each profile run used for testing.
    - Traffic control plan.
    - Describe how concrete will be transferred from the truck to the paver. Provide details regarding how the method of placement will lead to a smooth ride.
    - If using of a Dowel Bar Inserter, describe how the Dowel Bar Inserter will not have a negative impact on smoothness of ride.

(3) Deviations from this plan must be submitted to the engineer in writing for approval no later than 10 business days before paving.

C.2.2 Testing

(1) Have an HTCP-certified profiler operator operate the equipment, collect the required data, and analyze the results using the methods taught in the HTCP profiling course. Ensure that an HTCP-certified profiler supervises data entry.

(2) Unless the engineer and contractor mutually agree otherwise, arrange to have a calibrated profiler available when paving the final riding surface.

(3) Verify profiler equipment calibration daily using AASHTO R57. Notify the engineer before verifying the calibration. Arrange to have the engineer observe the calibration verification and profiler operation. Maintain records of calibration verification activities; provide those records to the engineer upon request.

(4) Operate profilers within the manufacturer's recommended speed tolerances. Perform profile runs in the direction of travel. Measure the longitudinal profile of each wheel track of each lane. The center of each wheel tracks are 6.0 feet apart and centered in the travel lane.

(5) Coordinate with the engineer at least 24 hours before making profile runs for acceptance, unless the engineer approves otherwise. The department may require profiling to accommodate staged construction or if corrective action is required.

(6) Mark the beginning and ending points for each profile run; ensure markings remain for a minimum of 10 business days after reporting profile data. Measure the profiles of each standard and partial segment. Define segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Define segments one wheel path wide and distinguished by length as follows:

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

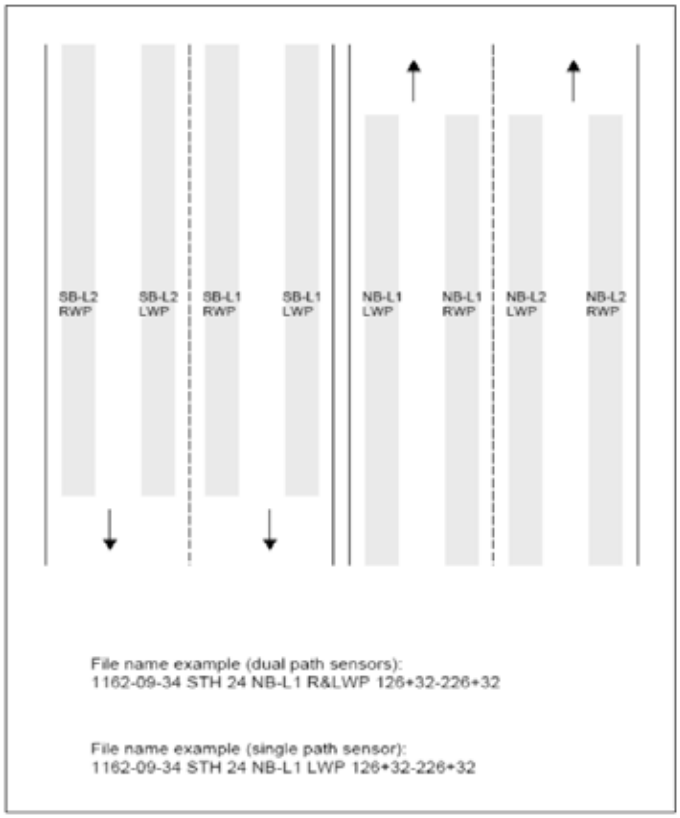
(7) Treat partial segments as independent segments.

(8) Ensure sufficient or per manufacturer's specification run-in and run-out length to maintain a constant speed during data collection.

C.2.3 Naming Protocol for Profile Runs

(1) Figure 1 provides the recommended protocol for naming profile runs.

Figure 1: Naming Protocol



C.2.4 Documentation/Analysis

(1) After profiling, compute the segment IRI for each segment and analyze areas of localized roughness using the ProVAL software.

(2) Prepare the ProVAL ride quality module reports showing the segment IRI for each segment and areas of localized roughness. Generate the ride quality module reports in ProVAL conforming to Table 6.

(3) Prior to leaving the project site, provide the engineer with a copy of the raw .ppf.

(4) Within five business days after completing profile acceptance runs, unless the engineer and contractor mutually agree to a different timeline, upload the unedited .ppf files, the electronic ProVAL project file (.pvp) containing the edited .ppf files for each profiler run and ride quality module reports, as PDF files.

(5) Notify the engineer when MRS submittal is complete and profiler acceptance run data and ride quality module reports are available.

C.2.5 Corrective Action and Re-Profiling

(1) Field-locate the areas of localized roughness before the engineer's assessment for corrective action. Document the reasons for areas excluded.

(2) Recommend corrective action to the engineer.

(3) Correct the ride as the engineer directs in writing, including re-profiling entire segment, including areas of corrected segments and areas of localized roughness as follows:

- Excessive Segment IRI: Re-profile entire segment to verify that the final segment IRI meets the correction limits in Table 6 and there are no areas of localized roughness. Upload within 5 business days a revised ProVAL ride quality module report for the corrected areas. Segments failing these criteria after correction are nonconforming work under 105.3.
- Localized Roughness: Re-profile entire segment to verify that the localized roughness is less than the conformance listed in Table 6. Upload within 5 business days a revised ProVAL ride quality module report for corrected areas.

C.3 Department Requirements

C.3.1 Testing Oversight

(1) The engineer may request ride information if there appears to be a ride-related problem during construction of the pavement.

- Verify that the profiler and operator are certified, the device has been properly calibrated and daily calibration verification has been performed.
- The engineer will verify that the operator is HTCP certified, the profiler equipment is on the APL and will review the calibration records for the profiler.

3.3.2 Corrective Action for PCC

(1) All pavement is subject to straight-edging and engineer-directed corrective actions.

(2) The engineer will not direct corrective action or assess a disincentive for area(s) of localized roughness without independent identification of that area as determined by physically riding the pavement.

(3) Before directing corrective action, the engineer will assess whether a repair will help or hurt the long-term performance.

(4) The engineer will assess each wheel path for areas of localized roughness within 5 business days of being notified that ProVAL reports are uploaded. For each area that exceeds the conformance in Table 6, the engineer will direct the contractor to correct the area to minimize the effect on the ride.

(5) If an individual segment IRI exceeds the conformance in Table 6 PCC pavement after correction for localized roughness, the engineer may require the contractor to correct that segment's final surface according to the conformance requirements in Table 6, using whichever method the engineer approves in Table 5.

Table 5: Corrective Action Options

Category	Corrective Action Optional Methods
PCC	1. Diamond grinding of the non-conforming wheel path of the riding surface including adjustment of the paved shoulders at no additional cost to the department.[1] 2. Remove and replace the full lane width of the riding surface at no additional cost to the department.

[1] Conforming to 420.3.1 through 420.3.4

Table 6: After Grinding Profile Conformance

Profile	ProVAL Analysis	Length	Category	Threshold
IRI	Smoothness Assurance - Fixed Interval (IRI)	500 feet (1 segment)	PCC	<=65 in/mile
Localized Roughness	Smoothness Assurance – Short Continuous (IRI)	25 feet	PCC and a posted vehicle speed of >45 mph	<175 inches/mile
			Ramps, Loops, concrete Intersections constructed under traffic, or any paving with a posted vehicle speed ≤ 45 mph	<200 inches/mile

C.3.3 Department Testing

(1) The department reserves the right to conduct QV testing to validate the quality of the product on any segment at any time. The department will notify the contractor before testing so the contractor can observe the QV testing.

(2) After completing QV profile runs, the department will review the profiling data with the contractor directly on-site and will identify any areas of immediate concern. The department will analyze the data and provide the test results to the contractor unless the contractor and engineer mutually agree otherwise.

C.4 Dispute Resolution

(1) The engineer and contractor will jointly investigate any testing discrepancies. If the QC and QV profiles differ by more than the allowable tolerances of AASHTO R54-14 (2022) (Table 2 in R54-14), engineer may request to resolve a testing discrepancy. If the contractor does not respond to an engineer request to resolve a testing discrepancy, the engineer may suspend production until action is taken. QV profiles will be used for payment when the discrepancy is not resolved.

D Measurement

(1) The department will measure Incentive IRI Ride by the dollar, calculated as specified below.

E Payment

E.1 General

(1) Costs for furnishing and operating the profiler, documenting profile results, and correcting the final surface are incidental to the contract. The department will pay separately for engineer-directed corrective action performed in excluded areas.

E.2 Pay Adjustment

The department will pay incentive for ride as follows:

ITEM NUMBER	DESCRIPTION	UNIT
740.0440	Incentive IRI Ride	DOL

(2) Incentive payment may be more or less than the amount the schedule of item shows.

(3) The department will adjust pay as follows for work placed under the contract:

- Based on the initial segment IRI for that segment.
- The department will not pay incentives as specified in Table 7 for segments that require corrective action.

E.2.1 Pay Adjustment – IRI

(1) IRI Ride incentives and disincentives are based on the initial IRI of each segment.

(2) The department will adjust pay for 500-foot long standard segments nominally one wheel path wide using equations according to Table 7.

(3) Contactor may perform corrective work to ≤ 65 inches/mile in lieu of disincentives if both the engineer and contractor agree.

(4) The department will not pay incentives on corrective action work. No disincentives will apply after corrective work has reached ≤65 inches/mile.

Table 7: Pay Adjustment For IRI

Category	Initial IRI (in/mile)	Pay Adjustment (dollars/segment)
PCC	<50	1,000
	≥50 to ≤80	4,062.5 - (62.5 x IRI)
	>80	Corrective Work to ≤ 65 inches/mile

(5) The department will prorate the pay adjustment for non-standard segments based on their length.

E.2.2 Pay Adjustment – Localized Roughness

(1) The department will adjust pay for Localized Roughness according to Table 8.

Table 8: Pay Adjustment For Localized Roughness (LR)

Category	Length of LR Segment (Feet)	LR Pay Reduction	
		25' continuous IRI (inches/mile)	Corrective Work or Deduction per linear 1.0'
PCC and a posted vehicle speed of >45 mph	25	≥175 to <200	Corrective Work unless both the engineer and contractor agree to a monetary deduction of $25.00 per linear foot
		≥200	Corrective work to <175
PCC: Ramps, Loops, Intersections constructed under traffic, or any paving with a posted vehicle speed ≤ 45 mph	25	<200	Acceptable
		≥200	$25.00 per linear foot

10.3 Concrete Pavement Bond Breaker.

Supplement section 415 of the standard specifications as follows:

415.3.3 Preparing the Foundation

Add the following text:

Place polyethylene sheets over entire area where concrete pavement contacts the concrete masonry associated with the MSE wall. Total thickness of the sheets shall be at least 0.03 inches. Place the polyethylene sheets with overlap joints of at least 6 inches.

415.5.1 General

Add the following text:

(7) Payment for polyethylene sheets is considered incidental to the Concrete Pavement bid items or Concrete Pavement Special bid items included in the contract.

ner41-415 (02202024)

10.4 Hot Mix Asphalt Pavement.

Delete standard spec 460.3.3.3 of the standard spec.

10.5 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)
½-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)

10.6 HMA Longitudinal Joint Repair, Item SPV.0090.0100.

A Description

This special provision describes providing longitudinal joint repairs in HMA pavements. Conform to standard spec 204, 315, 455, and 460, and as follows.

B Materials

Furnish asphaltic surface per standard spec 465 as specified for type 4 MT 58-28 S under standard spec 460.2

Provide tack coat conforming to standard spec 455.2.5.

C Construction

C.1 General

Conform to standard spec 315.3.1 for placement of the HMA pavement.

Work to repair longitudinal joints shall begin and be completed during the same engineer approved off-peak lane closure period.

Mill an area 2 feet wide and at least 2 inches deep along existing joint lines as shown in the plans; the engineer will determine the final repair length. Ensure any loose asphalt is removed prior to paving.

Clean the existing milled surface before placing tack coat. Dispose of removed pavement and other waste materials outside of the project limits unless the engineer allows otherwise.

D Measurement

The department will measure HMA Longitudinal Joint Repair by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0100	HMA Longitudinal Joint Repair	LF

Payment is full compensation for providing the joint repair including removing the existing asphaltic surface; for tack coat and asphaltic pavement mixture. The department will pay for any additional traffic control measures, if required, under the respective traffic control items in the contract.

10.7 Concrete Pavement 10 1/2-Inch Special, Item SPV.0180.0100

A Description

This special provision describes specialized material and construction requirements for high performance concrete used in mainline pavement and shoulders. Conform to standard spec 415, 501, 710, 715 as modified in this special provision.

B Materials

415.2.1 Concrete

Replace 415.2.1(1) with the following:

Furnish grade A concrete conforming to standard spec 501 except develop a concrete mixture to follow standard spec 501.3.2.3 and as modified for class I pavement concrete in standard spec 715. Provide QMP for class I pavement concrete as specified in standard spec 715.

415.2.2 Reinforcement

Supplement standard spec 415.2.2 with the following:

Furnish High Performance Dowel Bars according to standard spec 505.2.6.2.4

501.2.7.3 Coarse Aggregates

501.2.7.3.1 General

Replace standard spec 501.2.7.3.1 with the following:

501.2.7.3.1 General

Provide coarse aggregates from a department-approved source. Use an approved source listed on the APL or follow the source approval process specified in standard spec 106.3.4.2. In addition to the requirements of standard spec 106.3.4.2, perform tests for LA wear, sodium sulfate soundness, freeze-thaw soundness and lightweight pieces at least once per calendar year when producing coarse aggregates for use in high-performance concrete mixes.

Use clean, hard, durable crushed stone with 100 percent fractured surfaces and free of excess flat and elongated pieces, lightweight particles, frozen lumps, vegetation, deleterious substances or adherent coatings considered injurious.

Use virgin aggregates only.

Contact the engineer a minimum of 5 weeks prior to paving to collect a sample of the aggregates proposed for the project. The engineer will obtain the sample or observe the contractor obtaining the sample. The sampler must be HTCP certified to sample aggregates.

The department test results will be used for aggregate acceptance.

The department will randomly sample coarse aggregate for testing at least once per 10,000 cubic yards during placement of concrete pavement.

501.2.7.3.2 Physical Properties

Replace standard spec 501.2.7.3.2 paragraph one with the following:

Furnish coarse aggregates approved for use in concrete pavement and conforming to the following:

Table 501-2 Physical Properties

Aggregate Quality Test	Test Method	Maximum Percent by Weight
LA Wear (100 and 500 revolutions) [1]	AASTO T96 WTM	30
Sodium Sulfate Soundness (R-4, 5 cycles) [1]	AASHTO T104 WTM	6
Freeze-Thaw Soundness[1]	AASHTO T103 WTM	10
Lightweight Pieces[1] [2]	AASHTO T113 WTM	See Table 501-3

Coarse aggregate sizes No. 1 and No. 2 as defined in 501.2.7.4.2 will be tested individually and the results weighted by the blend percentage listed in the mix design.

Material having a bulk specific gravity (saturated surface-dry basis) of less than 2.45. Determine the percentage of lightweight pieces in the sample retained on the 3/8-inch sieve by the weight of the total sample.

501.2.7.3.3 Deleterious Substances

Replace standard spec *501.2.7.3.3 paragraph one with the following:*

Ensure aggregates are free of excess flat & elongated particles, lightweight pieces, frozen lumps, vegetation, deleterious substances, or adherent coatings considered injurious. Do not exceed the maximum limits of deleterious substances specified in table 501-3.

Table 501-3 Deleterious Substances

Substance	Maximum Percent by Weight
Shale	1.0
Coal	1.0
Clay lumps	0.3
Soft fragments	5.0
Any combination of shale, coal, clay lumps, and soft fragments	5.0
Flat or elongated pieces based on a 3:1 ratio[1]	15.0
Materials passing the No. 200 sieve	1.5
Lightweight pieces	2.0

According to ASTM D4791 WTM

501.2.7.3.4 Alkali Silica Reactivity Testing and Mitigation Requirements

Replace standard spec *501.2.7.3.4 paragraph two and paragraph three with the following:*

(2) The department will reject the aggregate if the ASTM C1260 test indicates a 14-day expansion of 0.15 percent or greater.

(3) The department may waive additional testing if the initial test is passing.

710.5.5 Strength

Replace standard spec *710.5.5 paragraph one with the following:*

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

715.3 Testing and Acceptance

715.3.1 Class I Concrete Testing

715.1.1.1 General

Replace standard spec 715.3.1.1 paragraph one with the following:

(1) Provide slump, air content, concrete temperature, and strength test results as specified in standard spec 710.5. Provide a battery of QC tests, consisting of results for each specified property, using a single sample randomly located within each sublot. Cast 3 specimens for strength evaluation.

Replace standard spec 715.3.1.1.1 paragraph one with the following:

(1) Cast 3 beams for flexural strength acceptance testing at 28 days.

715.3.1.3 Department Verification Testing

Replace standard spec 715.3.1.3 paragraph one with the following:

(1) The department will perform verification testing once for each 5 contractor QC tests with additional testing as required to obtain at least 1 verification test per lot for air content, slump, temperature, and strength.

715.3.2 Strength Evaluation

715.3.2.1 General

Replace standard spec 715.3.2.1 paragraph one with the following:

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

715.5.1 General

Replace standard spec 715.5.1 with the following:

The department will pay incentive for strength under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
715.0715	Incentive Flexural Strength Concrete Pavement	DOL

Incentive payment may be more or less than the amount the schedule of items shows.

The department will administer disincentives for strength under the Disincentive Flexural Strength Concrete Pavement administrative item.

The department will adjust pay for each lot using PWL of the 28-day sublot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:

- Flexural strength of 650 psi for pavements

The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under standard spec 715.3.1.2.2.

Submit strength results to the department electronically using the MRS software. The department will validate contractor data before determining pay adjustments.

All coring and testing costs under standard spec 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.

715.5.2 Pavements

Delete standard spec 715.5.2.1.

C Construction

C.1 Jointing

C.1.1 General

Add the following to standard spec 415.3.7.1:

Treat sawed surfaces of transverse joints and longitudinal joints to a depth of 1-inch or greater into the joint on each sawed face with a silane or a siloxane. Furnish a silane or a siloxane from the department's Concrete Protective Surface Treatments approved products list. Conform to the manufacturer's recommendations for use of the product.

The contractor shall perform a field trial under the department's observation to demonstrate the application method for the silane or siloxane treatment of the joint. The field trial can be done with bricks or cinder blocks and shall be constructed in a way that represents a sawed concrete joint. The field trial must show the proposed application method can consistently treat the surfaces of the joint to a depth of 1-inch or greater into the joint.

Clean the saw cut by water blast and air to thoroughly remove cutting residue prior to application of the silane or siloxane treatment.

C.2 Curing Concrete

C.2.1 General

501.3.2.4.3.3 Extended Delivery Time

Delete standard spec 501.3.2.4.3.3 paragraph one.

501.3.5 Ready-Mixed Concrete

Replace standard spec 501.3.5.1 paragraph one with the following:

(1) Use central-mixed concrete as defined in standard spec 501.3.5.1(2) for all work performed under this special provision.

501.3.5.2 Delivery

Replace standard spec 501.3.5.2(3) with the following:

(3) Deliver and completely discharge the concrete within the following limits, beginning when adding water to the cement, or when adding cement to the aggregates.

Delivered in Agitating Vehicles:

- 60 minutes if the concrete temperature is 60 F or higher at placement, and the contractor does not use a department-approved retarder.
- 90 minutes if the concrete temperature is less than 60 F at placement.
- 90 minutes if the concrete temperature is 60 F or higher at placement, and the contractor uses a department-approved retarder.

Delivered in Non-Agitating Vehicles:

- 30 minutes if the concrete temperature is 85 F or higher at placement, and the contractor does not use a department-approved retarder.
- 45 minutes if the concrete temperature is 60 F to less than 85 F at placement, and the contractor does not use a department-approved retarder.
- 60 minutes if the concrete temperature is less than 60 F at placement.
- 60 minutes if the concrete temperature is 60 F or higher at placement, and the contractor uses a department-approved retarder.

501.3.8.2 Hot Weather Concreting

Replace all of standard spec 501.3.8.2.1 with the following:

501.3.8.2.1 General

The contractor is responsible for the quality of concrete placed in hot weather. Submit a written temperature control plan at or before the pre-pour meeting. In that plan, outline the actions to control concrete temperature if the concrete temperature at the point of placement exceeds 80° F. Do not place concrete without the engineer's written acceptance of that temperature control plan. Perform the work as outlined in the temperature control plan.

If the concrete temperature at the point of placement exceeds 90 F, do not place concrete for items covered in this special provision.

If the air temperature exceeds 80 F, ensure that the base material is in a moist condition during concrete placement. Water the base, as required, not less than 6 hours before placing the concrete. If the base material subsequently dries, moisten it by sprinkling water just before placing the concrete. Sprinkle the water to avoid forming pools.

Notify the engineer whenever conditions exist that might cause the temperature at the point of placement to exceed 80 F. If project information is not available, the contractor should obtain information from similar mixes placed for other nearby work.

D Measurement

The department will measure Concrete Pavement 10 1/2-Inch Special by area in square yards acceptably completed in accordance of standard spec 415 and as modified in this special provision.

E Payment

Conform to standard spec 415.5 and as modified in this special provision.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.0100	Concrete Pavement 10 1/2-Inch Special	SY

The department will pay separately for the following bid items: 715.0715 Incentive Flexural Strength Concrete Pavement.

ner41-616 (12052023)

11. Bridges.

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

John Roelke, License Number AII-119523, inspected Structure B-44-0161 and B-44-0162 for asbestos on December 16, 2020. No Regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is included with the bid package or available from Tim Verhagen, (920) 362-1267, Timothy.Verhagen@dot.wi.gov.

According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 03/20), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Tim Verhagen, (920) 362-1267, Timothy.Verhagen@dot.wi.gov and via e-mail to dothazmatunit@dot.wi.gov or via U.S. mail to DOT BTS-ESS attn: Hazardous Materials Specialist, 5 South S.513.12, PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Structure B-44-0161, IH 41 NB over Fox Valley Railroad
- Site Address: 441640.78, 882757.70, Town of Grand Chute
- Ownership Information: WisDOT Northeast Region, 944 Vanderperren Way, Green Bay, WI, 54304
- Contact: Tim Verhagen
- Phone: (920) 362-1267
- Age: 32 years old. This structure was constructed in 1992.
- Area: 13,212 SF of deck

- Site Name: Structure B-44-0162, IH 41 SB over Fox Valley Railroad
- Site Address: 441644.03, 882759.36, Town of Grand Chute
- Ownership Information: WisDOT Northeast Region, 944 Vanderperren Way, Green Bay, WI, 54304
- Contact: Tim Verhagen
- Phone: (920) 362-1267
- Age: 32 years old. This structure was constructed in 1992.
- Area: 12,573 SF of deck

Insert the following paragraph in Section 6.g.:

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

stp-107-125 (20220628)

11.2 Ice Hot Weather Concreting, Item 501.1000.S.

Conform to standard spec 501.3.8.2 except the department will pay for ice at the contract unit price under the Ice Hot Weather Concreting bid item. This special provision only applies to work done under the following contract 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)

Replace standard spec 501.4 and 501.5 with the following:

501.4 Measurement

(1) The department will measure Ice Hot Weather Concreting by the pound, acceptably completed, measured only if the conditions prescribed in standard spec 501.3.8.2 are met.

501.5 Payment

(1) The department will pay for the measured quantity at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
501.1000.S	Ice Hot Weather Concreting	LB

(2) Payment for Ice Hot Weather Concreting is full compensation for ice used to cool concrete placed in hot weather as specified in standard spec 501.3.8.2.

(3) The department will not pay directly for the concrete specified under this section. Concrete is incidental to the various bid items using it. Payment under those bid items includes providing all materials, including aggregates and associated aggregate source testing, cement, fly ash, slag, and admixtures; and for preparing, transporting, storing, protecting and curing concrete.

(4) If required to remove and replace any concrete damaged by lack of proper protection. Perform this work at no expense to the department.

stp-501-010 (20210708)

11.3 Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.

A Description

This special provision describes furnishing and placing stainless steel reinforcing bars and associated stainless steel bar couplers.

Conform to standard spec 505 as modified in this special provision.

B Materials

B.1 General

Furnish stainless steel reinforcing bars conforming to ASTM A955 and to one of the following Unified Numbering System (UNS) designations: S31653, S31803, S32205, or S32304. Supply grade 60 bars, all of the same UNS designation. Conform to the chemical composition specified for the given UNS designation in ASTM A276 table 1.

Supply bars that are free of dirt, mill scale, oil, and debris by pickling to a bright or uniform light finish. The department may reject bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface.

Furnish chairs or continuous supports made of stainless steel or recycled plastic to support high-strength stainless bar steel reinforcement subject to the plastic chair restriction stated in standard spec 505.3.4(1).

Furnish couplers made from one of the UNS alloys allowed for bar steel.

Furnish tie wire made from one of the UNS alloys allowed for bar steel or from an engineer-approved plastic or nonmetallic material. Ensure that stainless steel tie wire is dead soft annealed.

B.2 Fabrication

Before fabrication, supply test results from an independent testing agency certifying that the reinforcement meets the requirements of Annex A1 of ASTM A955.

Bend bars conforming to standard spec 505.3.2 and according to ASTM A955. Bend and cut bars using equipment thoroughly cleaned or otherwise modified to prevent contamination from carbon steel or other contaminants. Use tools dedicated solely to working with stainless steel.

B.3 Control of Material

Identify reinforcement bars delivered to the project site with tags bearing the identification symbols used in the plans. Include the UNS designation, heat treat condition, heat number, grade corresponding to minimum yield strength level, and sufficient documentation to track each bar bundle to a mill test report.

Provide samples for department testing and acceptance according to CMM 8-50 Exhibit 1 requirements for concrete masonry reinforcement for uncoated bar steel.

Provide mill test reports for the project that do the following:

1. Verify that sampling and testing procedures and test results conform to ASTM A955, ASTM A276 table 1, and these contract requirements.
2. Include a chemical analysis with the UNS designation, heat lot identification, and the source of the metal.
3. Include tensile strength, yield strength, and elongation tests results conforming to ASTM A955 for each size furnished.
4. Certify that the bars have been pickled to a bright or uniform light finish.

C Construction

C.1 General

Ship, handle, store, and place the stainless steel reinforcing as follows:

1. Separate from regular reinforcement during shipping. Pad points of contact with steel chains or banding, or secure with non-metallic straps.
2. Store on wooden cribbing separated from regular reinforcement. Cover with tarpaulins if stored outside.
3. Handle with non-metallic slings.

4. Do not flame cut or weld. Protect from contamination when cutting, grinding, or welding other steel products above or near the stainless steel during construction.
5. Place on plastic or stainless steel bar chairs. If placing stainless steel chairs on steel beams, use chairs with plastic-coated feet.
6. Tie with stainless steel wire or an engineer-approved plastic or nonmetallic material.

Do not tie stainless steel reinforcing bars to, or allow contact with, uncoated reinforcing bars or galvanized steel. Maintain at least 1 inch clearance between stainless steel bars or dowels and uncoated or galvanized steel. Where 1 inch clearance is not possible, sleeve bars with a continuous polyethylene or nylon tube at least 1/8 inch thick extending at least 1 inch in each direction and bind with nylon or polypropylene cable ties. Sleeves are not required between stainless steel bars and shear studs. Stainless steel bars can be in direct contact with undamaged epoxy-coated bars.

Cut flush with the top flange or remove uncoated fasteners, anchors, lifting loops, or other protrusions into a bridge deck before casting the deck on prestressed concrete beams.

C.2 Splices

Splice as the plans show. Provide stainless steel couplers conforming to the minimum capacity, certification, proof testing, and written approval requirements of standard spec 550.3.3.4. The contractor may substitute stainless steel couplers for lap slices the plans show if the engineer approves in writing.

If increasing or altering the number or type of bar splices the plans show, provide revised plan sheets to the engineer showing the reinforcement layout, type, length, and location of revised bar splices and revised bar lengths. Obtain engineer approval for the location of new lap splices or substitution of mechanical bar couplers before fabrication. Ensure that new lap splices are at least as long as those the plans show.

D Measurement

The department will measure Bar Steel Reinforcement HS Stainless Structures by the pound, acceptably completed, computed from the nominal weights of corresponding sizes for carbon steel deformed bars in AASHTO M31 regardless of stainless steel alloy provided. The department will not measure extra material used if the contractor alters the reinforcement layout as allowed under C.2, extra material for splices or couplers the plans do not show, or the weight of devices used to support or fasten the steel in position.

The department will measure the Bar Couplers Stainless bid items as each individual coupler, 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
505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB

Payment for Bar Steel Reinforcement HS Stainless Structures is full compensation for furnishing and placing stainless steel reinforcing bars, including supports. Where the plans specify bar couplers, the department will pay for the length of bars as detailed with no deduction or increase for installation of the coupler.

stp-505-005 (20190618)

11.4 Driven Piles.

Supplement standard spec 550.3.9.1 with the following:

Intermediate geomaterial (IGM) is considered a consolidated material.

Replace standard spec 550.3.9.3(3) with the following:

Firmly seat piles after preboring and backfill within the rock or consolidated material with a cement grout. Backfill the pre-bore holes for the pier footings to the bottom elevation of the pier footings. Remove the casing, backfill the piles with sand or other engineer-approved material, and dispose of excess material.

11.5 Fence Track Clearance, Item 616.0800.S.

A Description

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

B Materials

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

Provide fence fabric that meets 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 diamond mesh
Service Temperature:	-60° F to 200° F (ASTM D648)
Tensile Yield:	Avg. 2000 lbs per 4 ft width (ASTM D638)
Ultimate Yield:	Avg. 2900 lbs per 4 ft width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

C.1 Track Clearance Fences

Erect track clearance fences before construction work 13 feet from the centerline of the track and on both sides of the track running continuously from the points 100 feet beyond the edges of overpass structures.

Before driving posts, arrange with the railroad company and utility owners to have any buried signal cable, fiber optic lines or other underground facilities located and marked where the fence is to be placed. Place the posts to avoid underground facilities.

Drive posts into the ground 12 to 18 inches, and space posts at 7.0 feet. Secure the fence at each post with a minimum of three wire ties. Weave tension wire through the top row of strands to provide a top stringer to prevent sagging.

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

Where buried facilities or subsurface conditions do not permit driving posts, support posts by some other means that will provide stability comparable to driven posts.

D Measurement

The department will measure Fence Track Clearance in length by the linear feet along the base of the fence, center to center of posts.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0800.S	Fence Track Clearance	LF

Payment is full compensation for underground facility locating and marking services by the railroad and utility owners; furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition at all times; and for removing and disposing of fence and posts at the completion of the project.

stp-616-050 (20050502)

11.6 HPC Masonry Structures, Item SPV.0035.0800.

A Description

This special provision describes specialized material and construction requirements for high-performance concrete used in bridge structures. Conform to standard spec 501, 502, and 509, as modified in this special provision. Conform to standard spec 715 for QMP Concrete Pavement, Cast-in-Place Barrier, and Structures.

B Materials

501.2.7.3 Coarse Aggregates

501.2.7.3.1 General

Replace the entire text of 501.2.7.3.1 with the following:

(1) Provide coarse aggregates from a department-approved source. Use an approved source listed on the APL or follow the source approval process specified in standard spec 106.3.4.2. In addition to the requirements of standard spec 106.3.4.2, perform tests for LA wear, sodium sulfate soundness, freeze-thaw soundness and lightweight pieces at least once per calendar year when producing coarse aggregates for use in high-performance concrete mixes.

(2) Use clean, hard, durable crushed limestone or crushed gravel free of excess flat and elongated pieces, lightweight particles, frozen lumps, vegetation, deleterious substances or adherent coatings considered injurious.

(3) Use virgin aggregates only.

(4) Contact the engineer a minimum of 6 weeks prior to paving to collect a sample of the aggregates proposed for the project. The engineer will obtain the sample or observe the contractor obtaining the sample. The sampler must be AGGTEC-I HTCP certified to sample aggregates.

(5) Department test results will be used for aggregate acceptance.

(6) The department will randomly sample coarse aggregate for lightweight pieces testing at least once per 10,000 cubic yards during placement of concrete masonry structures.

501.2.7.3.2 Physical Properties

Replace 501.2.7.3.2) paragraph one with the following:

Furnish coarse aggregates approved for use in concrete masonry structures and conforming to the following:

Aggregate Quality Test	Test Method	Maximum Percent by Weight
LA Wear (100 and 500 revolutions) [1]	WTM T96	30
Sodium Sulfate Soundness (R-4, 5 cycles) [1]	WTM T104	6
Freeze-Thaw Soundness[1]	WTM T103	12
Lightweight Pieces[1] [2]	WTM T113	2.0

[1] Coarse aggregate sizes used in the Portland Cement Concrete mixture design (DT2221 Concrete Mixture Design – Optimized Aggregate Gradation) will be tested individually and the results weighted by the blend percentage listed in the mix design. Do not consider fine aggregate percentage as part of the weighted result.

[2] Material having a bulk specific gravity (saturated surface-dry basis) of less than 2.45. Determine the percentage of lightweight pieces in the sample retained on the 3/8-inch sieve by the weight of the total sample.

501.2.7.3.3 Deleterious Substances

Replace 501.2.7.3.3 paragraph one with the following:

(1) Furnish aggregates that conform to the following:

Deleterious Substance	Test Method	Maximum Percent by Weight
Coal, clay lumps, shale, and other deleterious substance	Visual	3.0
Flat or elongated pieces based on a 3:1 ratio[1]	WTM D4791	15.0
Materials passing the No. 200 sieve	WTM T11	1.5

501.2.8 Concrete Curing Materials

Replace entire text with the following:

(1) Furnish burlap conforming to AASHTO M 182, class 1, 2, 3 or 4.

710.5 Sampling and Testing

Supplement 710.5 with the following:

710.5.8 Chloride Penetration Resistance

(1) For each new or changed mix design, measure chloride penetration resistance according to AASHTO T277 at a frequency of 1 test per 3 months (quarterly) of production.

(2) Strip permeability samples from molds and wet cure according to AASHTO T277 Accelerated Moist Curing. Upon completion of the curing process, obtain one sample from each cylinder and test according to AASHTO T277.

(3) Provide concrete mixtures that meet the chloride penetration maximum resistance limit of 1500 coulombs based on AASHTO T277. Quarterly chloride resistance test results exceeding 1500 coulombs, the department will require adjustment of the concrete mix going forward to improve the chloride penetration resistance.

715.2 Materials

715.2.1 General

Replace 715.2.1 paragraph four with the following:

(4) The regional materials engineer must review and approve the submitted mix design within 7 business days of receiving the mix design submittal and complete Project Staff Review section of mix design certification within DT2220 or DT2221.

715.2.2 Class I Concrete Mixes

715.2.2.2 Structures

Supplement 715.2.2.2 with the following:

(5) Provide a mix design using optimized aggregate gradation and a cementitious content within the range of 470 to 540 pounds per cubic yard. For all superstructure and substructure concrete, unless the engineer approves otherwise in writing, concrete mixtures must use an IL, IP, IS, or IT blended cement.

(6) In addition to the standard spec mix design laboratory trial batching for structures, include the results of the following tests:

1. WTM T119 Slump of Hydraulic Cement Concrete.
2. AASHTO T277 Rapid Determination of the Chloride Permeability of Concrete, using the modified curing procedure according to 710.5.8 in this special provision.

(7) Provide concrete with a 28-day compressive strength that equals or exceeds the following:

- Contract specified f'c.
- 4000 psi, if the contract does not specify f'c.

(8) Provide concrete with a maximum chloride penetration resistance of 1500 coulombs at 28-days.

C Construction

501.3.2.4.3.3 Extended Delivery Time

Delete 501.3.2.4.3.3 paragraph one.

501.3.5 Ready-Mixed Concrete

501.3.5.1 General

Replace 501.3.5.1 paragraph one with the following:

(1) Use central-mixed concrete as defined in standard spec 501.3.5.1(2) for all work performed under this special provision.

501.3.5.2 Delivery

Replace 501.3.5.2 paragraph three with the following:

(3) Deliver and completely discharge all concrete within one hour beginning when adding water to the cement, or when adding cement to the aggregates. A decrease in air temperature below 60 F or the use of department-approved retarders does not increase the discharge time.

501.3.7.1 Slump

Replace the entire text with the following:

(1) Provide concrete with a 2-inch to 4-inch slump.

(2) Perform slump tests for concrete according to WTM T119.

501.3.8.2 Hot Weather Concreting

501.3.8.2.1 General

Replace the entire text with the following:

(1) The contractor is responsible for the quality of concrete placed in hot weather. Submit a written temperature control plan at or before the pre-pour meeting. In that plan, outline the actions to control concrete temperature if the concrete temperature at the point of placement exceeds 80 F. Do not place concrete without the engineer's written acceptance of that temperature control plan. Perform the work as outlined in the temperature control plan.

(2) If the concrete temperature at the point of placement exceeds 80 F, do not place concrete for items covered in this special provision.

(3) The department will pay $0.75 per pound for the quantity of ice required to reach a target concrete temperature of 75 F if the following conditions are met:

1. The un-iced concrete temperature exceeds 80 F.
2. The contractor has performed the actions outlined in the contractor's accepted temperature control plan.
3. The contractor elects to use ice.

(4) Notify the engineer whenever conditions exist that might cause the temperature at the point of placement to exceed 80 F. If project information is not available, the contractor should obtain information from similar mixes placed for other nearby work.

501.3.8.2.2 Bridge Decks

Replace the entire text with the following:

(1) Do not place concrete for bridge decks when the air temperature is above 80 F.

(2) For concrete placed in bridge decks, submit a written evaporation control plan at each pre-pour meeting. In that plan, outline the actions to maintain concrete surface evaporation at or below 0.15 pounds per square foot per hour. Do not place concrete for bridge decks without the engineer's written acceptance of that evaporation control plan. If the engineer accepts an evaporation control plan calling for ice, the department will pay $0.75 per pound for that ice. Perform the work as outlined in the evaporation control plan.

(3) If predicting a concrete surface moisture evaporation rate exceeding 0.15 pounds per square foot per hour, do not place concrete for bridge decks.

(4) Provide evaporation rate predictions to the engineer 24 hours before each bridge deck pour.

(5) Compute the evaporation rate from the predicted ambient conditions at the time and place of the pour using the nomograph, or computerized equivalent, specified in CMM 525, figure 1 or using a computerized equivalent. Use weather information from the nearest national weather service station. The engineer will use this information to determine if the pour will proceed as scheduled.

(6) At least 8 hours before each pour, the engineer will inform the contractor in writing whether to proceed with the pour as scheduled. If the actual computed evaporation rate during the pour exceeds 0.15 pounds per square foot per hour, at the engineer's discretion, the contractor may be allowed to implement immediate corrective action and complete the pour.

502.3.5.4 Superstructures

Delete 502.3.5.4 paragraph five.

502.3.7.8 Floors

Replace 502.3.7.8 paragraph five with the following:

(5) Set the rails or tracks that the finish machine rides on, to the required elevation; and ensure they adjust to allow for settlement under load. Support the rails or tracks outside the limits of the finished riding surface. Do not support rails or tracks on the tops of girders, or within the finished riding surface, without the engineer's written permission.

Delete 502.3.7.8 paragraph thirteen, fourteen, and fifteen. Add the following to 501.3.7.8:

(19) Do not place bridge deck concrete more than 10 feet ahead of the finishing machine. If there is a delay of more than 10 minutes during the placement of a bridge deck, cover all concrete (unfinished

and finished) with wet burlap to protect the concrete from evaporation until placement operations resume.

(20) Keep hand finishing to a minimum. Hand finishing the edge of deck is acceptable. Equip the finishing machine with a pan behind the screed. Apply micro texture using a broom or turf drag following the use of a 10-foot straight edge. Only finish by hand as necessary to close up finished concrete. Begin wet curing the deck within a timeframe acceptable to the engineer following the micro texture.

(21) For bridge decks with a design speed of 40 mph or greater, provide longitudinal grooving according to the provision included in this contract.

502.3.8 Curing

502.3.8.1 General

Replace 502.3.8.1 paragraph 1 with the following:

(1) Maintain adequate moisture throughout the concrete mass to support hydration for at least 14 days.

502.3.8.2 Curing Requirements

502.3.8.2.1 General

Replace entire text of 502.3.8.2.1 with the following:

(1) Wet-cure the concrete for bridge decks, structural approach slabs, sidewalks on bridges and raised medians on bridges for 14 days by use of a soaker hose system, or other engineer-approved methods. Cover the finished surface of bridge decks and overlays with one layer of wetted burlap or wetted cotton mats within 10 minutes after the finishing machine has passed. Apply the burlap/cotton gently to minimize marking of the fresh concrete. Keep the first layer of burlap/cotton continuously wet until the bridge deck or overlay is sufficiently hard to apply a second layer of wetted burlap/cotton. Immediately after applying the second layer of burlap/cotton, continue to keep the deck wet until placing and activating the soaker hose system. Throughout the remainder of the curing period, keep the burlap/cotton continuously wet with soaker hoses hooked up to a continuous water source. Inspect the burlap/cotton twice daily to ensure the entire surface is moist. If necessary, alter the soaker hose system as needed to ensure the entire surface is covered and stays moist. After 48 hours from the time of completion of the bridge deck or overlay pour, the soaker hose system and burlap/cotton may be covered with polyethylene sheeting. Provide a continuous flow of water through the soaker hose system for the entire curing period.

(2) Do not uncover any portion of the deck at any time for any reason during the first 7 days of the curing period.

(3) Set up and test the fogging system before each bridge deck, structural approach slab, bridge mounted sidewalk or bridge mounted raised median pour. Keep the fogging system set up and operational during the pour.

502.3.8.2.3 Decks

Delete the entire text.

502.3.8.2.4 Parapets

Replace the entire text with the following:

(1) Cure the inside and outside concrete faces and tops of railings or parapets by covering with wetted burlap immediately after form removal and surface finish application. Keep the burlap thoroughly wet for at least 7 days; or by covering for the same period with thoroughly wet polyethylene-coated burlap conforming to standard spec 501.2.8.

(2) Secure coverings along all edges to prevent moisture loss.

502.3.13 Concrete Crack and Surface Sealing

Supplement 502.3.13.2 with the following:

(6) Treat all traffic bearing horizontal surfaces and surrounding areas with silane sealer found on the department's Concrete Protective Surface Treatments approved products list. Conform to the manufacturer's recommendations for use of the product. All surface preparation work shall be completed and approved by the Engineer.

502.3.9 Cold Weather Protection

502.3.9.6 Bridge Decks

Replace the entire text of 502.3.9.6 with the following:

(1) Protect concrete in bridge decks as specified for structural masonry, and except for parapets and similar pours, according to the following requirements:

1. Do not place concrete for bridge decs or other superstructure elements when the national weather service forecast for the construction area predicts temperatures to fall below 32 F within 24 hours, unless the engineer specifically allows or requires in writing.

2. Protect the underside of the deck, including the girders, for bridge deck and overlay pours by housing and heating when the national weather service forecast predicts temperatures to fall below 32 F during the cold weather protection period. Maintain a minimum temperature of 40 F in the enclosed area under the deck for the entire 14-day curing period.

D (Vacant)

E Payment

502.5.1 General

Replace 502.5.1 paragraph one with the following:

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.0800	HPC Masonry Structures	CY

11.7 Abutment Anchorage, Item SPV.0090.0800.

A Description

This special provision describes designing, furnishing materials and erecting abutment anchorage according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the abutment anchorage shall be 75 years minimum.

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

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

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

B Materials

B.1 Proprietary Wall Systems

The supplied abutment anchorage must be from the department's approved list of Concrete Panel Mechanically Stabilized Earth Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract.

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

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed abutment

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

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

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

Design and construct the abutment anchorage according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. Where walls or wall sections intersect with an included angle of 130 degrees or less, a vertical corner element separate from the standard panel face shall abut and interact with the opposing standard panels. The corner element shall have ground reinforcement connected specifically to that panel and shall be designed to preclude lateral spread of the intersecting panels. The abutment anchorage shall be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Abutment anchorage supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Abutment anchorage that does not carry highway traffic shall be designed for a live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as stated on the plans.

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

An external stability check at critical wall stations showing Capacity Demand Ratios (CDR) for sliding, eccentricity, and bearing checks is performed by the department and are provided on the wall plan for the wall adjacent to the abutment.

The design of the abutment anchorage by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and panel-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

The minimum length of soil reinforcement measured from the back face of the abutment shall be equal to 0.7 of the wall height or as shown on the wall plan for the wall adjacent to the abutment. In no case shall this length be less than 8 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to the abutment. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be 31 inches. The uppermost layer of the reinforcement shall be

located between 6 inches and 18 inches below the bottom of an overlying slab, footing or top of the abutment. The upper layers of the soil reinforcement shall also be checked to verify that they have sufficient tensile resistance against traffic barrier impact where applicable.

All soil reinforcement required for the reinforced soil zone shall be connected to the abutment. The reinforcement and the reinforcement/abutment connection strength shall be designed to resist maximum factored reinforcement loads according to AASHTO LRFD Section 11.10.6. Abutment connection strength shall be defined as the resistance factor times the failure load, or the load at 0.5 inch deformation times 0.9, whichever is less. The nominal long term design strength in steel reinforcement and connections shall be based upon assumed conditions at the end of the design life.

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

B.3 Abutment Anchorage System Components

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

B.3.1 Backfill

Furnish and place backfill for the abutment anchorage as shown on the plans and as hereinafter provided. Place backfill in a zone extending horizontally from the back face of the abutment to 1 foot minimum beyond the end of the reinforcement and extending vertically from the bottom of abutment to a minimum of 3 inches above the final reinforcement layer.

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

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

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

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

In addition, backfill material shall meet the following requirements.

Test	**Method**	**Value**	
		(Galvanized)	**(Aluminized Type 2)**
pH	AASHTO T-289	5.0-10.0	5.0 – 9.0
Sulfate content	AASHTO T-290	200 ppm max.	
Chloride content	AASHTO T-291	100 ppm max.	
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.	1500 ohm-cm min.
Organic Content	AASHTO T-267	1.0% max.	

Angle of Internal Friction	AASHTO T-236[1]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2.)

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

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

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

B.3.2 Soil Reinforcement

All steel portions of the abutment anchorage system exposed to earth shall be galvanized. All soil reinforcement and attachment devices shall be carefully inspected to ensure they are true size and free from defects that may impair the strength and durability. Soil reinforcement shall be galvanized or aluminized Type 2. Galvanized soil reinforcement shall be according to AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be according to ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be according to Section 11.10.6.4.2 of the current AASHTO LRFD Specifications. The design life of steel soil reinforcements shall comply with AASHTO LRFD. Aluminized soil reinforcement shall be limited 16 years of steel protection. Aluminized steel shall only be used on soil reinforcement elements and shall not be used on abutment connections or any other steel portion of the abutment anchorage system. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the abutment anchorage shall be according to standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the elevation of the bottom of the abutment unless shown or noted otherwise on the plan. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the abutment.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction.

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

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the abutment. Place and compact material beyond the

reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back of the abutment. The engineer may order the removal of any large or heavy equipment that may cause damage to the abutment.

C.2 Compaction

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

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction. Compaction of backfill within 3 feet of the back face of the abutment should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the abutment. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 3 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Abutment Anchorage Components

C.3.1 General

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the abutment.

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

C.3.2 Steel Layers

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

C.4 Quality Management Program

C.4.1 Quality Control Plan

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

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

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

8. A proposed sequencing plan of abutment anchorage construction operations and random test locations.

C.4.2 Quality Control Personnel

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

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

C.4.3 Equipment

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

Furnish nuclear gauges from the department's approved product list at:

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

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

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

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

C.4.4 Documentation

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

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

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

C.4.5 Quality Control (QC) Testing

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

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

C.4.6 Department Testing

C.4.6.1 General

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

C.4.6.2 Quality Verification (QV) Testing

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

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

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

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

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

C.4.6.3 Independent Assurance (IA)

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

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

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

C.4.6.4 Dispute Resolution

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.

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

(2) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to

resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the abutment anchorage is given on the wall plan for the wall adjacent to the abutment, available on the WisDOT Bureau of Structures Highway Structures Information (HSI) website. After completing excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Abutment Anchorage by the linear foot, acceptably completed, measured as the length of the abutment requiring anchorage.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0800	Abutment Anchorage	LF

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

The department will pay separately for abutment body/backwall and structural approach slab.

11.8 Longitudinal Grooving Bridge Deck, Item SPV.0165.0800.

A Description

This special provision describes providing longitudinal deck grooves parallel to the centerline of the roadway prior to opening the bridge to traffic as directed by the engineer.

B Materials

Use a grooving machine containing blades mounted on a multi-blade arbor on a self-propelled machine built for grooving hardened concrete surfaces.

Use a grooving machine with a depth control device that detects variations in the deck surface and adjusts the cutting head height to maintain a specified depth of groove.

Equip the grooving machine with a guide device to control multi-pass alignment.

C Construction

Groove the pavement longitudinally without damaging the concrete deck surface.

Complete a longitudinal grooving operation that results in a uniformly grooved deck surface.

Cut grooves continuously across the deck width to within 18 inches of the barrier rail, curb line, or median divider. If metal floor drains extend more than 18 inches from the barrier rail, curb line, or median divider; all grooves on the bridge deck surface are to end within 6 inches of the floor drain perimeter.

At skewed metal edged expansion joints in the bridge deck surface, end all grooves on the bridge deck surface within 6 inches of the joint leaving no ungrooved surface adjacent to each side of the joint greater than 6 inches in width on the deck side of the expansion joints.

Produce grooves that are continuous across construction joints or other joints in the concrete deck surface less than 1/2-inch wide.

Construct longitudinal grooves with the following criteria:

Width (in)	Depth (in)	Spacing C-C (in)	Width Tolerance (in)	Depth Tolerance (in)	Spacing Tolerance (in)
1/8	3/16	3/4	0 to 1/16	± 1/16	± 1/16

Collect, remove and dispose of solid material residue and liquid waste resulting from grooving operations by vacuuming in a manner satisfactory to the engineer.

D Measurement

The department will measure Longitudinal Grooving Bridge Deck by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.0800	Longitudinal Grooving Bridge Deck	SF

Payment for Longitudinal Grooving Bridge Deck is full compensation for providing the required machinery and operators; for grooving, for collecting, removing and properly disposing of all waste materials.

12. Retaining Walls and Ground Support.

12.1 MSE Wall Sleeve Type 7, Item SPV.0060.0900.

A Description

Furnish and install a corrugated steel pipe sleeve in the reinforced earth zone of mechanically stabilized earth (MSE) retaining walls and other locations shown in the plans. Perform work according to pertinent portions of standard spec 520 and 521, the plans, and as herein provided.

B Materials

The MSE wall sleeve pipes shall meet the requirements of standard spec 521.2 for corrugated steel pipe. Provide a 25-inch pipe sleeve for the MSE Wall Sleeve Type 7.

C Construction

Set the sleeve within 1 inch of the required position indicated on the plans prior to placing the reinforced earth. Brace the sleeve to maintain position within 2 inches of required position as backfilling proceeds. Place soil reinforcing mats around the sleeve.

Correct any damage to the sleeve that would hinder the installation of the concrete base prior to placing any additional reinforced earth.

D Measurement

The department will measure MSE Wall Sleeve 7 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.0060.0900	MSE Wall Sleeve Type 7	EACH

Payment is full compensation for furnishing and installing the concrete base sleeve MSE wall sleeve; and bracing and ensuring the sleeve remains vertical during backfill operations.

12.2 Settlement Gauge, R-44-28, Item SPV.0060.0905; Settlement Gauge, R-44-52, Item SPV.0090.0906.

A Description

This special provision describes furnishing, installing, protecting, maintaining, and abandoning of settlement gauges. The purpose of the settlement gauge is to monitor vertical ground movements after

the placement of wall fill, determine the amount of settlement having taken place, confirm that the design thresholds have not been exceeded for the rigid inclusion system, and provide data for evaluating when permanent pavement placement can occur.

A.1 General

Install, protect, maintain, and abandon the settlement gauge as specified herein.

Maintain fully operational all instrumentation installed under this article for the duration of the monitoring period as identified in “Geotechnical Instrumentation Monitoring and Reporting” special provision.

A.2 Equipment and Personnel Qualification

A.2.1 Prior to Installation

Submit the following specific information at least 30 days prior to the start of settlement gauge installation:

1. Confirm each settlement gauge is the product of an acceptable manufacturer currently engaged in manufacturing and installing settlement gauges as specified herein.
2. Submit qualifications and experience of instrumentation specialists and personnel. Requirements include technicians with a minimum of 2 years of experience in the installations of settlement gauges similar to those specified herein.
3. Instrumentation details including locations, depths based on general information shown on the plans, type, details, and other pertinent information showing the installation details.
4. Description of methods for installing and protecting each settlement gauge.
5. Schedule of instrument installation, include significant activities or milestones in the overall project.
6. Manufacturer's literature describing installation, operation, and maintenance procedures for all gauges, materials, readout units, and accessories.
7. Submit for each instrument to be installed, as applicable, a certificate issued by the instrument's manufacturer stating that the manufacturer has inspected and tested each instrument before it leaves the factory to confirm that the instrument is working correctly and has no defects or missing parts.
8. Example installation logs for settlement gauge installations prepared by the instrumentation specialist.

A.2.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

1. Following installation of each settlement gauge, submit as-built shop drawings showing the exact installed location, the instrument identification number, the installation date and time, and installed locations of control points and benchmarks associated with surveys for monitoring the settlement gauge.
2. Include details of installed instruments, accessories, and protective measures including all dimensions and materials used.
3. Submit documentation of settlement gauge or benchmark abandonment.

A.3 Locations

Install the settlement gauge at locations and elevations shown in plans.

A.4.2 Control Points

Tie control points to benchmarks and other monuments outside of the zone of ground movements that might result from underground excavations or embankment placement or can be disturbed by current or future construction.

B Materials

B.1 Settlement Plates

Use a 0.5-inch thick steel plate, 24 inches square in size, placed upon a minimum of 1-inch thick mortar leveling course, with a 1-1/2-inch steel riser pipe that is welded in position perpendicular to the plate at its center.

B.2 Risers

Use sections of 1-1/2-inch diameter standard threaded galvanized steel riser pipe welded to the base plate and extended progressively upward at a vertical plumbness as embankment fill is placed and compacted. Use a 1-1/2-inch standard galvanized steel cap attached to the threaded inner riser plate as a survey reference member, and progressively remove and extend upward as each new section of riser pipe and external sleeve are added due to fill.

B.3 Isolation Casing

Use sections of 3-inch diameter standard threaded steel pipe or threaded PVC pipe sleeve initially placed with a 2-foot separation from the base plate and then extending progressively upward encompassing the 1-1/2-inch steel pipe with the internal annulus filled with grease to promote free sliding between riser pipe and isolation casing. The isolation casing is intended to be continuous to prevent embankment soils from contacting the internal riser pipe as progressive lifts of fill are placed.

C Construction

C.1 Quality Assurance

Notify the engineer at least 24 hours prior to all instrumentation installation operations.

C.2 Installation and Protection

Place the bottom of the plate level on the mortar pad and ensure the riser pipe is plumb. Accurately record the elevation of the plate and the lengths and elevations of any added riser pipe(s).

Position and weld the initial 1-1/2-inch diameter threaded galvanized steel riser pipe perpendicular to the steel settlement plate with a fillet weld. Place end cap at the top of the riser pipe for purposes as a survey reference point.

Place fills as indicated to the elevations identified and shown in the plans.

As soon as fill soils achieve 2 feet of cover over the steel settlement plate, position isolation casing loosely around the smaller diameter riser pipe to isolate and protect the inner pipe for subsequent readings. Fill the inner annulus between riser pipe and isolation casing with sufficient lubricant grease to prevent rust from occurring and that would result in binding the inner pipe to the outer sleeve.

Progressively add both inner riser pipe and isolation casing in section increments of 5.0 feet (or other calibrated and measured increments) as embankment fill is continued to be placed, always transferring the end cap to the newest riser pipe top, and always obtaining new elevation readings at each time of extension addition.

Place no fill around settlement gauges until the elevation of the top of the new riser section has been determined by the contractor’s surveyor.

Compact embankment material in the vicinity of the riser pipe to specification requirements, taking precautions to keep alignment of the riser and the cover pipes vertical at all times.

Take all necessary precautions to ensure that the settlement gauges are not damaged, displaced, or misaligned. If a gauge is damaged, immediately repair or replace it at no expense to the department. Protect and maintain all settlement gauges installed as part of this contract.

Maintain, protect, read, repair, and replace (if needed as directed by the engineer) all settlement gauges.

C.3 Tolerances

Install settlement gauges within 2 feet of the horizontal locations and 1 foot of the vertical locations as indicated in the plans.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

C.4 Abandonment

At the end of the monitoring period or evaluation of the settlement data, contact the department and coordinate whether instruments are to be abandoned. If directed to abandon, remove the top section of riser and isolation casing, and backfill with granular material as directed by the engineer. If not directed to abandon, leave the instrumentation intact and operable so subsequent reading can be taken by others.

Abandonment shall consist of removal of the top section of riser and isolation casing, backfilling with granular material, restoring the finished grade condition, or as directed by the engineer.

C.5 Project Conditions

Provide the engineer and the department access to the instruments at all times.

Protect all settlement gauges from construction traffic and accidental damage.

D Measurement

The department will measure Settlement Gauge as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0905	Settlement Gauge, R-44-28	EACH
SPV.0060.0906	Settlement Gauge, R-44-52	EACH

Payment is full compensation for each settlement gauge installed, maintained, protected, and abandoned; extending gauges as embankment placement progresses; maintaining the gauges as additional fill is placed; protecting settlement gauges; repairing or replacing gauges; and providing installed location data to the department, either left in place or abandoned.

12.3 Vibrating Wire Piezometer, Item SPV.0060.0910.

A Description

This special provision describes furnishing, delivering and installing and abandoning of vibrating wire piezometer (VWP). The purpose of the geotechnical instrumentation is to monitor changes in pore water pressure due to placement of wall fill to estimate the load distribution performance of the load transfer platform, and to provide indication of rate of consolidation settlement to confirm design thresholds and indicate when permanent pavement placement can occur.

A.1 General

Install, protect, and abandon the VWPs as specified herein and as shown on the plans.

Maintain fully operational all instrumentation installed under this article for the duration of the monitoring period as identified in “Geotechnical Instrumentation Monitoring and Reporting” special provision.

A.2 Definitions

Vibrating Wire Piezometer (VWP): Designed to measure fluid pressures such as ground water elevations and pore pressures when buried directly in embankments, and for installation inside boreholes, observation wells and standard (>19 mm diameter) piezometer riser pipe.

Readout Box: Instrument connected to each VWP or series of VWPs that allows for the automatic collection of readings at programmed intervals, stores the readings in a format that can be downloaded and processed.

A.3 Equipment and Personnel Qualification

A.3.1 Prior to Installation

Submit the following specific information at least 30 days prior to the start of VWP installation:

1. Submit qualifications and experience of instrumentation specialists and personnel. Requirements include a minimum of 5 years of experience in the installations of VWP similar to those specified herein is required, and a licensed surveyor registered in the State of Wisconsin and have a minimum of 2 years of experience in the installation of geotechnical instrumentation similar to those specified herein.
2. Description of methods for installing and protecting VWP’s.
3. Schedule of instrument installation related to significant activities or milestones in the overall project.
4. Manufacturer's literature describing installation, operation, and maintenance procedures for all instruments, materials, readout units, and accessories.
5. Conduct factory calibration on all instruments at the manufacturer facility prior to shipment. Include calibration curve with data points clearly indicated and a tabulation of the data. Mark each instrument with a unique identification and/or serial number.

6. Perform Pre-Installation Tests for acceptance (see below) and submit test record.
7. Example installation logs for VWP installations prepared by the instrumentation specialist.

A.3.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

1. Installation logs, and soil profile data.
2. Contractor shall submit documentation of VWP abandonment.

A.3 Locations

Install the VWPs at the base of the LTP prior to the start of LTP construction, in coordination with the engineer at the locations and elevations shown on the plans.

B Materials

B.1 Vibrating Wire Piezometers:

Provide a VWP from a supplier listed below or an approved equal.

- Geokon Model 4500S, 100 psi range (Geokon Incorporated, 48 Spencer Street, Lebanon, NH 03766, (603) 448-1562)
- Slope Indicator Part Number 52611030 (Slope Indicator Company, 316 Forsyth Street, Raleigh, NC 27609-6314, (800) 929-4712)

Provide vibrating wire piezometers meeting the following specifications and include compatible appurtenances as necessary (cables, filter stones, splice kits, connectors, etc.).

Pressure Range (psi):	0-100
Over Range/Maximum Pressure:	1.5X rated pressure range
Resolution:	0.025% full scale (F.S.) minimum
Accuracy:	±0.1% of F.S.
Operating Temperature:	-20 °C to 80 °C
Thermal Zero Shift:	<0.05% F.S./°C or <0.04 psi/°C
Diameter of piezometer:	~ 0.75 inches

B.2 Readout Box

Equip each vibrating wire piezometer with a readout box. Ensure the readout box is water resistant and capable of automatically collecting measurements at scheduled intervals as frequently as one reading per minute. Equip the readout box with onboard storage adequate to store all readings collected prior to regularly scheduled downloads. Propose alternative data collection systems if desired and submit for approval by the department.

C Construction

C.1 Pre-Installation Tests for Acceptance

When instruments are received at the site, perform pre-installation tests for acceptance to ensure the instrument and readout units are functioning correctly before installation. Include the following relevant items in pre-installation testing:

1. Confirm each VWP is the product of an acceptable manufacturer currently engaged in manufacturing and installing settlement gauges as specified herein.
2. Examine factory calibration curve and tabulated data to verify completeness.
3. Examine manufacturer's final quality assurance inspection checklist to verify completeness.
4. Check cable length on non-wireless devices.
5. Check identification and/or serial numbers on instrument and cable.

6. By comparing with procurement document, check that the model, dimensions, materials, etc. are correct.
7. On any non-wireless devices, at point of connection to instrument, bend cable back and forth while reading the instrument to verify connection integrity.
8. Verify all components fit together in correct configuration; check all components for signs of damage in transit.
9. Check that quantities received correspond to quantities ordered.

C.2 Quality Assurance

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

C.3 Installation and Protection

Install VWP prior to the start of load transfer platform installation.

Drill, sample, and log borings in soil drilled for the purpose of installing vibrating wire piezometers, as located in the plans. Drill borings using 4-inch minimum outside diameter hollow stem auger per ASTM D6151. Drill the borings so as not to damage adjacent utilities. Perform a standard penetration test at 5.0-foot depth intervals in accordance with ASTM D1586.

Install the vibrating wire piezometer tip, filter pack, filter pack seal, and annular space seal as determined by contractor's engineer or approved alternatives. The engineer will determine the depth of the sensing zone for each vibrating wire piezometer installed based upon observations of retained soil samples. Withdraw the drill casing in small increments as the backfill materials are placed, so that collapse of the borehole does not occur. Do not rotate casing during withdrawal.

Place filter pack material slowly so that bridging does not occur in the boring and to prevent the instrument from being lifted as the casing is withdrawn. Use a measuring rod or similar device to measure the height of the filter pack to ensure that the filter pack is installed over the proper depth interval. Carefully raise and lower the measuring rod while the filter pack is installed, to prevent bridging and to tamp the filter pack in place.

Place a filter pack seal above the filter pack. Place the filter pack seal in a similar manner as for filter pack material. Place a bentonite seal above the filter pack seal.

Place the annular space seal by tremie grouting. Place the grout in such a manner as to not disturb the integrity of the filter pack and seal.

Supply a grout for the annular space seal for piezometers consisting of a bentonite to cement ratio of 0.15/1 by weight, with sufficient water to allow pumping. Mix bentonite and water first.

Install readout boxes within stainless steel enclosure backfilled with granular material at location agreed upon by contractor and engineer that is protected from construction traffic and easily accessible for measurement download. Record location of readout boxes and show on working plans.

Ensure cable is sleeved and protected and covered by minimum 8 inches of fill before construction traffic is allowed to cross cable location.

C.4 Tolerances

Install VWP's within 2 feet of the horizontal locations and 1 foot of the vertical locations as indicated in the plans.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

C.5 Project Conditions

Provide the engineer and the department access to the instruments at all times.

Protect all readout boxes and data cables from construction traffic and accidental damage.

C.6 Abandonment

At the end of the monitoring period or evaluation of the piezometer data, contact the department and coordinate the removal or abandonment of instrumentation. If directed to abandon, remove the readout box and cables as able and backfill with granular material or grout. Supply grout consisting of cement and

water, with the minimum amount of water necessary to allow pumping. If not directed to abandon, leave the instrumentation intact and operable so subsequent readings can be taken by others.

D Measurement

The department will measure Vibrating Wire Piezometer as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0910	Vibrating Wire Piezometer	EACH

Payment is full compensation for furnishing and placing vibrating wire piezometers; protecting the vibrating wire piezometer, cables, and readout boxes; repairing or replacing instruments, and maintaining through the duration of the monitoring period, either left in place or abandoned.

12.4 Inclinometer Casing, Item SPV.0060.0915.

A Description

This special provision describes furnishing, delivering and installing inclinometer casing. Deliver the inclinometer equipment before the start of MSE Wall Construction. The purpose of the geotechnical instrumentation is to monitor the slope in front of the wall for excessive deformation that could impact the rigid inclusion system, or the storm sewer pipe installed in front of the MSE Wall.

A.1 General

Install, protect, and abandon the inclinometer as specified herein.

Maintain fully operational all instrumentation installed under this article for the duration of the monitoring period as identified in “Geotechnical Instrumentation Monitoring and Reporting” special provision.

A.2 Equipment and Personnel Qualification

A.2.1 Prior to Installation

Submit the following specific information at least 30 calendar days prior to the start of inclinometer casing installation.

1. Confirm each inclinometer casing and probe is the product of an acceptable manufacturer currently engaged in manufacturing these products as specified herein.
2. Submit qualifications and experience of instrumentation specialists and personnel and drilling firm completing the installation. Requirements include technicians with a minimum of 5 years of experience in the installation of inclinometer casing similar to those specified herein.
3. Description of methods for installing and protecting inclinometer casings and all other in-place instrumentation that could be impacted due to installation.
4. Schedule of inclinometer casing installation related to significant activities or milestones in the overall project.
5. Materials and mix portions for cement-bentonite grout for installing inclinometer casing.
6. Manufacturer's literature describing installation of inclinometer casing.
7. Submit for each instrument to be installed, as applicable, a certificate issued by the instrument's manufacturer stating that the manufacturer has inspected and tested each instrument before it leaves the factory to confirm that the instrument is working correctly and has no defects or missing parts.
8. Example installation logs for inclinometer casings prepared by the instrumentation specialist.
9. Submit permits and consents from authority having jurisdiction, if applicable, for drilling holes from ground surface and conducting monitoring activities.

A.2.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

1. Following installation of the inclinometers and fifteen calendar days prior to the start of MSE wall construction, submit as-built drawings showing the exact installed location (coordinates and elevation), inclinometer’s groove orientation relative to the shaft, the instrument identification

number, the instrument type, the installation date and time, the heading station or portal or shaft excavation depth on the installation date, when applicable, and the gauge, anchor or tip elevation and instrument length, when applicable, and installed locations of control points and benchmarks associated with surveys for monitoring geotechnical instrumentation.

2. Include details of installed instruments, accessories, and protective measures including all dimensions and materials used.
3. Submit documentation of inclinometer casing or benchmark abandonment.

A.3 Locations

Install the inclinometer casings prior to the start of MSE wall construction, after completion of the load transfer platform, in coordination with the engineer at the locations and elevations shown on the plans.

B Materials

B.1 Protective Cover

Provide protective covers from guard casings or valve boxes depending upon installation location, as specified in this special provision. Supply protective covers 2 inches larger than the instrument within, or a minimum of 4 inches in inside diameter. Use guard casings consisting of Schedule 40 PVC pipe or equal, and of such length that it will have a minimum depth below ground surface of 2 feet, and of a height above ground surface of 2 feet to 4 feet, or as instructed by the engineer. Provide a guard casing that has a bolting or screw-type cover that is free of sharp edges and burrs and is easy to remove for monitoring. Use valve boxes that are cast iron or steel designed to resist traffic loading typical for roadway installation, and of such length to have a minimum depth below ground surface of 1.5 feet when installed flush with the ground surface. Provide a bolting cover for the valve box.

B.2 Inclinometers Casing

Provide inclinometer casings of grooved plastic 2.75-inch OD casing that is compatible with the inclinometer probe as identified in the “Geotechnical Instrumentation Monitoring and Reporting” special provision. Provide a casing complete with the necessary rigid self-aligning couplings and end plugs.

C Construction

C.1 Quality Assurance

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

C.2 Installation and Protection

Use hollow-stem augers per ASTM D6151, as the drilling method utilized for inclinometer casing installation. Drill borings for inclinometers using 6-inch minimum inside diameter casing and water or, where ground conditions permit, drilling mud in a 6-inch minimum diameter borehole. During the drilling, perform soil sampling at intervals of 2.5 feet or less using standard penetration tests in accordance with ASTM D1586. Note rock excavation may be required to meet the required tip elevation and embedment. Rock excavation can be completed to the required diameter by method deemed suitable to the contractor including but not limited to: air rotary methods, tricone bit advancement, rock core sampling. Sampling in the portion of the inclinometer casing embedded into rock is not required.

Install the inclinometer casing completed with end plug and to the elevations shown on the plans. Carefully orient the casing grooves as instructed by the instrumentation engineer. Grout the inclinometer casing in place. Place grout by tremie method. If steel drill casing has been used to support the borehole, remove the drill casing in increments, and top off the grout level with each increment.

Perform tremie grouting by pumping grout through a tremie pipe positioned 3 to 5 feet above the bottom of the space to be grouted. Keep the bottom end of the tremie pipe submerged in grout as the grout level is brought up to the ground surface. Maintain the density of the grout flowing from the space at the ground surface the same as the density of the grout being placed. Allow the grout to set for a minimum 12-hour period before additional materials are placed on top of the grout. Top off any settling of grout.

Supply a grout with a water to cement ratio ranging from 0.6 to 0.8 to 1, by weight; use a specific ratio determined by the instrumentation engineer. Add bentonite with a bentonite to cement ratio approximately 0.4 to 1, by weight, adjusted to produce grout with the consistency of heavy cream. Mix cement and water first. Add bentonite as necessary to achieve the specified consistency.

Provide the top of each inclinometer casing with an easily removable cap.

Perform a groove tracking test after the installation has been completed to ensure that the inclinometer casing has been properly installed. Lower the inclinometer sensor to the bottom of the casing in all four possible orientations, verifying that on rising to the top of the casing the inclinometer orientation is unchanged.

C.3 Tolerances

Install inclinometer casings within 2 feet of the horizontal locations and 1 foot of the vertical locations as indicated in the plans.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

C.4 Project Conditions

Provide the engineer and the department access to the instruments at all times.

C.5 Abandonment

At the end of the monitoring period or evaluation of the inclinometer data, contact the engineer and coordinate the removal or abandonment of instrumentation. If directed to abandon, grout the full depth of instrument casing and pipes by tremie method or by pressure injection from the ground surface. Grout shall consist of cement and water, with the minimum amount of water necessary to allow pumping. If not directed to abandon, leave the instrumentation intact and operable so subsequent readings can be taken by others.

Abandonment shall consist of removal of the cover and top portion of the casing, backfilling with granular material, and restoring the finished grade condition, or as directed by the engineer.

D Measurement

The department will measure Inclinometer Casing as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0915	Inclinometer Casing	EACH

Payment is full compensation for furnishing and installing inclinometer casing, protecting, maintaining for the duration of the monitoring period; and replacement or repair of damaged instruments if required; either left in place or abandoned.

12.5 Earth Pressure Cell, Item SPV.0060.0920.

A Description

This special provision describes furnishing, delivering, installing, protecting, and abandoning of earth pressure cells. Install earth pressure cells before the start of load transfer platform construction. The purpose of the geotechnical instrumentation is for design verification of the load sharing mechanisms calculated for design.

A.1 General

Install, protect, and abandon the earth pressure cells as specified herein.

Maintain fully operational all instrumentation installed under this article for the duration of the monitoring period as identified in the “Geotechnical Instrumentation Monitoring and Reporting” special provision.

A.2 Definitions

Earth Pressure Cells: Designed to measure earth pressures distributed to the pile caps through compression of hydraulic fluid between two stainless steel plates.

Readout Box: Instrument connected to each earth pressure cell or series of earth pressure cells that allows for the automatic collection of readings at programmed intervals, stores the readings in a format that can be downloaded and processed.

A.3 Equipment and Personnel Qualification

A.3.1 Prior to Installation

Submit the following specific information at least 30 calendar days prior to the start of earth pressure cell installation:

1. Submit qualifications and experience of technicians and instrumentation specialists and personnel. Requirements include a minimum of 5 years of experience in the installation of earth pressure cells or instrumentation similar to those specified herein.
2. Description of methods for installing and protecting earth pressure cells and dataloggers and all other in-place instrumentation that could be impacted due to installation.
3. Schedule of earth pressure cell installation related to significant activities or milestones in the overall project.
4. Submit for each instrument to be installed, as applicable, a certificate issued by the instrument's manufacturer stating that the manufacturer has inspected and tested each instrument before it leaves the factory to confirm that the instrument is working correctly and has no defects or missing parts.
5. Conduct factory calibration on all instruments at the manufacturer facility prior to shipment. Include calibration curve with data points clearly indicated and a tabulation of the data. Mark each instrument with a unique identification and/or serial number.
6. Perform Pre-Installation Tests for acceptance (see below) and submit test record.
7. Example installation logs for earth pressure cells prepared by the instrumentation specialist.

A.3.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

1. Following installation of the earth pressure cells and prior to the start of load transfer platform construction, submit as-built drawings showing the exact installed location (coordinates and elevation), the instrument identification number, the instrument type, the installation date and time, and installed locations of control points and benchmarks associated with surveys for monitoring geotechnical instrumentation.
2. Include details of installed instruments, accessories, and protective measures including all dimensions and materials used.
3. Submit documentation of earth pressure cell and/or readout box abandonment.

A.4 Locations

Install the earth pressure cells prior to the start of load transfer platform construction, as shown in the plans.

B Materials

B.1 Protective Cover

Provide protective covers for the readout boxes from valve boxes, as specified in this special provision. Supply each protective covers 2 inches larger than the instrument within, or a minimum of 4 inches in inside diameter. Use valve boxes that are cast iron or steel designed to resist traffic loading typical for roadway installation, and of such length to have a minimum depth below ground surface of 1.5 feet when installed flush with the ground surface. Provide a bolting cover for the valve box.

B.2 Earth Pressure Cell

Geokon Model 4815, Granular Soil Type VW (Geokon Incorporated, 48 Spencer Street, Lebanon, NH 03766, (603) 448-1562), or an approved equal.

Provide earth pressure cells meeting the following specifications and include compatible appurtenances as necessary (cables, connectors, etc.).

Pressure Range (psi):	0-100
Over Range/Maximum Pressure:	1.5X rated pressure range
Resolution:	±00.025% full scale (F.S.) minimum
Accuracy:	±0.1% of F.S.
Operating Temperature:	-20 °C to 80 °C
Thermal Effect on Zero:	<0.05% F.S
Cell Dimensions (height x Diameter) (in)	1 x 9
Material	Stainless Steel

B.3 Readout Box

Equip each earth pressure cell or series of earth pressure cells with a readout box. Ensure the readout box is water resistant and capable of automatically collecting measurements at scheduled intervals as frequently as one reading per minute. Equip the readout box with onboard storage adequate to store all readings collected prior to regularly scheduled downloads. Propose alternative data collection systems if desired and submit for approval by the department.

C Construction

C.1 Pre-Installation Tests for Acceptance

When instruments are received at the site, perform pre-installation tests for acceptance to ensure the instrument and readout units are functioning correctly before installation. Include the following relevant items in pre-installation testing:

1. Confirm each earth pressure cell and readout box is the product of an acceptable manufacturer currently engaged in manufacturing these products as specified herein.
2. Examine factory calibration curve and tabulated data to verify completeness.
3. Examine manufacturer’s final quality assurance inspection checklist to verify completeness.
4. Check cable length on non-wireless devices.
5. Check identification and/or serial numbers on instrument and cable.
6. By comparing with procurement document, check that the model, dimensions, materials, etc. are correct.
7. On any non-wireless devices, at point of connection to instrument, bend cable back and forth while reading the instrument to verify connection integrity.
8. Verify all components fit together in correct configuration; check all components for signs of damage in transit.
9. Check that quantities received correspond to quantities ordered.
10. Record and document reading at zero pressure.

C.2 Quality Assurance

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

C.3 Installation and Protection

Affix the earth pressure cell at the locations shown on the plans with the flat surface horizontal (pressure measured perpendicular to cell plates). Position the cell on a thin layer of non-shrink, sand-cement grout, or quick setting mortar to ensure uniform contact. Affix the cell and pressure transducer with nails using the lugs on the cells provided for this purpose.

Protect the cable from damage by angular particles in which it is embedded or from contact pressure at the edge of the cap. Ensure the minimum loose lift thickness of material in place overlying the earth pressure cell and cables is no less than 8 inches before construction equipment can operate over the equipment.

Install datalogger within stainless steel enclosure backfilled with granular material at location agreed upon by contractor and engineer that is protected from construction traffic and easily accessible for measurement download at the frequency identified in “Geotechnical Instrumentation Monitoring and Reporting” special provision.

Record location of datalogger on working plans.

C.4 Tolerances

Install earth pressure cells within 2 feet of the horizontal locations and 1 foot of the vertical locations as indicated in the plans.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

C.5 Project Conditions

Provide the engineer and the department access to the readout boxes at all times.

Protect all readout boxes and data cables from construction traffic and accidental damage.

C.6 Abandonment

At the end of the monitoring period or evaluation of the earth pressure cell data, contact the department and coordinate the removal or abandonment of instrumentation. If directed to abandon, remove readout boxes and cables as able and backfill with granular material or grout. Supply grout consisting of cement and water, with the minimum amount of water necessary to allow pumping. If not directed to abandon, leave instrument the instrumentation intact and operable so subsequent readings can be taken by others.

D Measurement

The department will measure Earth Pressure Cell as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0920	Earth Pressure Cell	EACH

Payment is full compensation for furnishing and installing instruments, protecting, maintaining for the duration of the monitoring period; and replacement or repair of damaged instruments if required; either left in place or abandoned.

12.6 Geotechnical Instrumentation, R-44-28, Item SPV.0060.0925; Geotechnical Instrumentation, R-44-52, Item SPV.0060.0926.

A Description

A.1 General

This special provision describes contractor requirements for monitoring the geotechnical instrumentation and collecting and reporting data for a particular structure. The purposes of obtaining and reporting geotechnical instrumentation data are to monitor ground movements during and after the placement of wall fills, to evaluate appropriateness of design assumptions related to distribution of load transfer to the rigid inclusion system under wall R-44-28, to determine the magnitude and rate of settlement beneath and behind walls, and to estimate post-construction settlement prior to final pavement construction. This special provision is also intended to provide monitoring of wall R-44-52 and embankment fill for the ramps WNA and WND. The instrumentation program specified herein and shown on the plans is not intended to be used to ensure the safety of the work.

Threshold values are provided which, if encountered, require increased monitoring and reporting frequencies. Shutdown values are also provided. If monitoring detects a shutdown value exceeded at any instrument, immediately report to the engineer and cease filling or other construction operations that would result in further movement until additional operational changes are made.

Do not resume the construction until the ground movement is stabilized, as determined by the Engineer. If the contractor has exhausted all measures within the contract and is not able to stabilize the ground movement, submit a correction plan to the department and engineer. Upon acceptance of the correction plan by the Department, the contractor shall implement the correction plan immediately.

The cost of actions required for complying with threshold and shutdown values and to repair any damage to adjacent structures shall be borne by the contractor with no additional cost to the department.

The instrumentation program required by this article does not relieve the contractor of responsibility for providing additional instrumentation and monitoring if, in the contractor's opinion, such additional instrumentation and monitoring are necessary to accomplish the work.

This article covers taking initial and subsequent instrument readings, and reporting data obtained from the readings through the completion of the specified monitoring period.

A.2 Personnel Qualification

Perform monitoring of settlement gauges by a licensed surveyor and have relevant experience obtaining readings from geotechnical instrumentation similar to the settlement gauges specified herein.

Perform monitoring of inclinometers, vibrating wire piezometers, and earth pressure cells by a qualified technician or geoprofessional having a minimum of 2 years of experience, or at least three projects of similar size, collecting data and interpreting the results for projects utilizing similar instruments and equipment to those specified for this project.

Perform monitoring of other geotechnical instruments by a geotechnical professional experienced in reading instruments and interpreting the results similar to those described herein.

Submittals shall be reviewed prior to submittal by a geoprofessional having at least 2 years of experience, or involvement in at least 3 projects of similar size and that utilized similar geotechnical instrumentation to those specified for this project.

A.3 Submittals

Submittals are required in electronic format and may be transmitted to the engineer via email.

1. After taking readings, the contractor shall submit monitoring data within the timeframe indicated in the table below.

Instrument	Initial Readings	First two weeks after installation	Subsequent Monitoring Performed that Indicates Values Below Thresholds	Monitoring Performed after Threshold Value is exceeded for Any Single Instrument
Settlement Gauges (SG)	24 hours	48 hours	24 hours	12 hours
Vibrating Wire Piezometers (VWP)	24 hours	48 hours	24 hours	12 hours
Inclinometers (INC)	24 hours	48 hours	24 hours	12 hours
Earth Pressure Cells (EPC)	24 hours	48 hours	24 hours	12 hours
Survey Targets (ST)	24 hours	48 hours	24 hours	12 hours

2. Submit all data in Microsoft Excel spreadsheet format and PDF format for the frequency of readings listed in subsection C.5.
3. Submit ground surface elevations at instrument locations corresponding to frequencies listed in subsection C.5.
4. For inclinometer data submit plots in .pdf format showing cumulative displacement, incremental displacement, and displacement vs. time. For inclinometer readings that indicate movement exceeding the threshold value, or if requested by the department or engineer, provide pdf plots showing cumulative deviation, incrementation deviation, checksums, and difference checksums to confirm accuracy of measurements.
5. For all other monitoring data, submit graphical plots in both Microsoft Excel and .pdf format of recorded values (Y-axis) versus time (x-axis) using arithmetic scale. Include ground surface elevations that correspond to the date, time, and location on each plot.

A.4 Locations and Definitions

A.4.1 Locations

Refer to the plans for location of geotechnical monitoring instruments.

A.4.2 Definitions

Monitoring Period: The monitoring period for all geotechnical instruments shall extend 2 months after concrete pavement installation in the areas supported by R-44-28 and R-44-52.

Geotechnical Instrumentation: Installations and equipment used to measure subsurface properties, monitor soil consolidation and settlement, and monitor performance of the rigid inclusion system. Geotechnical instrumentation consists of settlement gauges, vibrating wire piezometers, earth pressure cells, inclinometers, and survey targets. Includes ancillary equipment required to record measurements (i.e., inclinometer probes, readout boxes, survey equipment, etc.).

Inclinometer Probe: Digital probe with instrumented spring-loaded wheels, reel mounted cable, pulley assembly, and readout instrument compatible with the inclinometer casing type installed.

Monitoring: Act of obtaining data from geotechnical instrumentation. Synonymous with performing, taking and obtaining readings.

Shutdown Value: Value for data at which, if recorded for any geotechnical instrumentation, project work representative of that instrumentation shall be halted until directed otherwise by Department.

Threshold Value: Value for data at which, if recorded for any geotechnical instrumentation, an increased frequency of readings and submittals will be required for that geotechnical instrumentation.

B Materials

B.1.1 Software

Use an inclinometer monitoring system that includes a probe, 50 feet of cable, cable relief, pulley assembly, cable hold, and readout. Use an inclinometer readout that measures inclinations at any depth selected by the operator and digitally stores, processes, and reports the data (by display and downloadable digital files) as lateral movements from a stored baseline reading. Use a cable that connects the sensor and indicator that has a stranded steel core to take the stress of pulling so as not to break any connectors or wires. Jacket the cable with a waterproof material and mark externally at 1-foot intervals for accurate depth determination. Mount the cable guide pulley to the top of the inclinometer casing.

B.1.2 Equipment

Use inclinometer probe, Geokon Model GK-604D (Geokon Incorporated, 48 Spencer Street, Lebanon, NH 03766, (603) 448-1562) or an approved equal.

C Construction

C.1 General

Obtain data from the geotechnical monitoring instrumentation in accordance with the frequencies identified in C.5 of this article.

C.2 Quality Assurance

Notify the engineer at least 24 hours prior to all instrumentation calibration and/or initial readings. Notify the engineer when initial readings will be made; the engineer may elect to observe the initial readings.

C.3 Threshold and Shutdown Values for Geotechnical Monitoring

Threshold and Shutdown Values for Geotechnical Instrumentation monitoring are presented in the tables below.

Item	Instrumentation ID Name	Threshold Value (feet)	Shutdown Value (feet)
R-44-28 Settlement Gauges (SG)	SG-01	0.33	0.58
	SG-02	0.05	0.17
	SG-03	0.44	0.65
	SG-04	0.25	0.38
	SG-05	0.05	0.17
	SG-06	0.33	0.48
	SG-07	0.15	0.21
	SG-08	0.05	0.17
	SG-09	0.35	0.52
	SG-10	0.13	0.21
	SG-11	0.05	0.17
	SG-12	0.21	0.29
	SG-13	0.08	0.21
	SG-14	0.05	0.17
	SG-15	0.25	0.38
	SG-16	0.08	0.21
	SG-17	0.25	0.35
	SG-18	0.06	0.17
R-44-52 Settlement Gauges (SGs)	SG-19	0.21	0.38
	SG-20	0.21	0.38
	SG-21	0.13	0.25

Item	Instrumentation ID Name	Threshold Value (excess head from initial baseline prior to filling, in ft.)	Shutdown Value (excess head in ft.)
Vibrating Wire Piezometers (VWP)	VWP-01	2 ft.	10 ft.
	VWP-02	3 ft	12 ft
	VWP-03	4 ft.	21 ft.
	VWP-04	5 ft.	24 ft.
	VWP-05	5 ft.	24 ft.
	VWP-06	4 ft.	22 ft.
	VWP-07	4 ft.	20 ft.

Item	Instrumentation ID Name	Threshold Value (psf)	Shutdown Value (psf)
Earth Pressure Cells (EPC)	EPC-01	3,394	4,957
	EPC-02	5,064	7,220
	EPC-03	7,435	10,560
	EPC-04	7,435	10,560
	EPC-05	7,435	10,560
	EPC-06	3,718	5,280
	EPC-07	3,718	5,280
	EPC-08	3,718	5,280

Item	Instrumentation ID Name	Threshold Value (inches)	Shutdown Value (inches)
Inclinometer Casing (INC)	INC-01	0.55	1.44
	INC-02	0.55	1.44

Item	Instrumentation ID Name[1]	Threshold Value Vertical (feet)	Shutdown Value Vertical (feet)	Threshold Value Horizontal (feet)	Shutdown Value Horizontal (feet)
Survey Targets (ST)	ST-01-T ST-01-B	0.08	0.17	0.02	0.08
	ST-02-T ST-02-B	0.08	0.17	0.03	0.08
	ST-03-T ST-03-B	0.08	0.17	0.04	0.08
	ST-04-T ST-04-B	0.08	0.17	0.05	0.08
	ST-05-T ST-05-B	0.08	0.17	0.05	0.08
	ST-06-T ST-06-B	0.08	0.17	0.05	0.08
	ST-07-T ST-07-B	0.08	0.17	0.04	0.08

[1] "T" indicates top of wall location, "B" indicates bottom of wall location

Provide equipment for measuring structure targets that have a horizontal and vertical tolerance of 0.01 feet or less.

C.4 Control Points

Reference surveys for monitoring structure survey targets to the same control points and benchmarks established for setting out the work. Tie control points to benchmarks and other monuments outside of the zone of ground movements that might result from underground excavations or embankment placement.

C.5 Initial and Subsequent Readings

Obtain and record data readings at regular intervals as specified herein.

Perform baseline surveys and obtain initial readings of geotechnical instrumentation before commencing any filling work for the retaining walls and embankments. Perform initial and subsequent monitoring as described below.

C.5.1 Monitor Settlement Gauges

Perform initial survey (horizontal and vertical) of the settlement plate and subsequent survey of riser cap as fill embankment is placed.

Prior to placing fill above settlement gauge elevation as shown the plans, obtain initial survey readings of plate at 4 corners, top of riser cap, and adjacent ground surface. Take a minimum of two sets of initial readings. After initial readings are approved by the engineer, the average from the initial readings shall be used to establish the baseline reading.

Obtain subsequent readings of settlement gauge consisting of survey of riser cap and adjacent ground surface.

Monitor settlement gauges 2 times per week, separated by a minimum of 3 calendar days between readings, during fill placement or construction related to the rigid inclusion system. Additionally monitor after 5 feet of vertical retaining wall and embankment construction if that occurs sooner.

After retaining wall construction is completed and embankment construction is completed to finished roadway subgrade elevations, record a minimum of one reading per instrument every three days for the first month and once per week thereafter until the end of the monitoring period, unless directed otherwise by the engineer.

Monitor twice daily if any geotechnical instrumentation indicates a value that meets or exceeds the threshold value.

C.5.2 Monitor Vibrating Wire Piezometers

Perform a calibration reading, initial readings to verify instrument settings and subsequent readings through the duration of the monitoring period.

Record initial vibrating wire piezometer readings a minimum of 48 hours after completing installation and testing of each piezometer. Take two sets of vibrating wire piezometer readings, at least 4 hours apart. If the variation in vibrating wire piezometer readings exceeds 0.1 foot, repeat the two sets of readings. Use the arithmetic average of the two sets of vibrating wire piezometer readings that do not vary by more than 0.1 foot as the initial baseline vibrating wire piezometer readings.

After initial readings are approved by the engineer, use the average from the initial readings to establish the baseline reading.

Set the frequency of readings to record porewater pressures once every 4 hours.

Download data from the readout box 2 times per week, separated by a minimum of 3 calendar days between download, during the applicable construction stage. Additionally monitor after 5 feet of vertical retaining wall and embankment construction if that occurs sooner.

After completion of wall and embankment fill to finished subgrade, download data every three days for the first month and once per week thereafter for remainder of the monitoring period, unless directed otherwise by the engineer.

Download data twice daily if any geotechnical instrumentation indicates a value that meets or exceeds the threshold value.

C.5.3 Monitor Inclinometers

At 48 hours after installation, perform initial survey (horizontal and vertical) of the top of casing and ground surface at casing location.

Take a minimum of two sets of initial readings at time of initial survey. Evaluate quality of data using checksum and other data-plotting tools. After initial readings are approved by the engineer, use the average from the initial readings to establish the baseline reading.

Monitor 2 times per week, separated by a minimum of 3 calendar days between readings, during fill placement or construction related to the rigid inclusion system. Additionally monitor after 5 feet of vertical retaining wall and embankment construction if that occurs sooner.

After retaining wall and embankment construction is completed, record a minimum of one reading per instrument every three days for the first month and once per week thereafter for remainder of the monitoring period, unless directed otherwise by the engineer.

Monitor twice daily if any geotechnical instrumentation indicates a value that meets or exceeds the threshold value.

C.5.4 Monitor Earth Pressure Cells

Perform a calibration reading, initial readings to verify instrument settings and subsequent readings.

Record initial reading after installation and prior to any load being placed on top of earth pressure cell. Record a second reading a minimum of 48 hours after completing installation of each earth pressure cell. Take two sets of readings, at least 4 hours apart.

Set the frequency of readings to record pressures once every 4 hours.

Download data from the readout box 2 times per week, separated by a minimum of 3 calendar days between download, during the applicable construction stage. Additionally monitor after 5 feet of vertical retaining wall and embankment construction if that occurs sooner.

After completion of wall and embankment fill to finished subgrade, download data every three days for the first month and once per week thereafter for the remainder of the monitoring period, unless directed otherwise by the engineer.

Download data twice daily if any geotechnical instrumentation indicates a value that meets or exceeds the threshold value.

C.5.5 Monitor Survey Targets

Perform initial survey (horizontal and vertical) of the survey targets withing 24 hours after wall panel facing are placed at each survey target location.

Obtain a second reading of horizontal and vertical location of survey targets within 24 hours of installation at each location.

Monitor survey targets 2 times per week,

After embankment construction is completed to finished subgrade elevations: Record a minimum of one reading per instrument every three days for the first month and once per week thereafter for the remainder of the monitoring period, unless directed otherwise by the engineer.

Monitor twice daily if any geotechnical instrumentation indicates a value that meets or exceeds the threshold value.

C.6 Acceptance

The engineer will evaluate the submittals. Within 7 calendar days after receipt of each submittal, the engineer will notify the contractor of submittal acceptance (e.g., no exception taken), or if additional information and/or changes are required. Resubmit the submittal with the required information and/or changes. The engineer will notify the contractor of resubmittal acceptance within 7 calendar days after its receipt.

After the submittal acceptance by the engineer, no changes to the submittal can be made without written consent of the engineer.

D Measurement

The department will measure Geotechnical Instrumentation, (Location) as a single unit, acceptably completed for each location.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0925	Geotechnical Instrumentation, R-44-28	EACH
SPV.0060.0926	Geotechnical Instrumentation, R-44-52	EACH

Payment is full compensation for obtaining readings and reporting data at the indicated frequencies from all geotechnical instruments associated with a particular structure through the duration of the monitoring period at locations indicated in the plans; providing submittals as required; and obtaining survey data of ground surface elevations at instruments at time of readings.

Payment for furnishing, installing, maintaining throughout the monitoring period, and abandonment (if required) will be paid for separately under each specific instrument special provision.

12.7 Structure Survey Target, Item SPV.0060.0930.

A Description

This special provision describes furnishing, delivering, installing, protecting, and abandoning structure survey targets. Supply structure survey targets after retaining wall construction is complete. The purpose of the structure survey target is to verify rate and magnitude of structure settlement.

A.1 General

Install, protect, and abandon the survey target as specified herein.

Maintain fully operational all instrumentation installed under this article for the duration of the monitoring period as identified in the “Geotechnical Instrumentation Monitoring and Reporting” special provision.

A.2 Equipment and Personnel Qualification

A.2.1 Prior to Installation

Submit the following specific information at least 30 calendar days prior to the start of survey target installation:

1. Submit qualifications and experience of instrumentation specialists and personnel. Requirements include a minimum of 2 years of experience in the installation of geotechnical instrumentation similar to those specified herein.
2. Description of methods for installing, protecting, and maintaining the survey target.
3. Schedule of instrument installation related to significant activities or milestones in the overall project.

A.2.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

1. Following installation of the survey target, submit as-built shop drawings showing the exact installed location, the instrument identification number, the installation date and time, and installed locations of control points and benchmarks associated with surveys for monitoring survey targets.
2. Contractor shall submit documentation of survey target or benchmark abandonment.

A.3 Locations

Install the survey target at the top wall facing panel and the bottom of the lowest wall facing panel near finished grade elevation as shown on the plans.

B Materials

B.1 General

Provide reflective targets affixed to concrete or concrete panels.

C Construction

C.1 Quality Assurance

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

C.2 Tolerances

Install the survey target within 2 feet of the horizontal location and 1 foot of the vertical location as indicated in the plans.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

Ensure equipment for measuring the survey target has a horizontal and vertical tolerance of 1/8 inch or less.

C.3 Project Conditions

Provide the engineer and the department access to the instruments at all times.

Protect all structure survey targets from construction traffic or accidental damage.

D Measurement

The department will measure Structure Survey Target as each target, 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.0060.0930	Structure Survey Target	EACH

Payment is full compensation for each survey target affixed, maintained for the duration of the monitoring period, protected, either left in place or abandoned; and providing installed location data to the department.

12.8 Wall Concrete Panel Mechanically Stabilized Earth R-44-28, Item SPV.0165.0900; Wall Concrete Panel Mechanically Stabilized Earth R-44-52, Item SPV.0165.0905; Wall Concrete Panel Mechanically Stabilized Earth R-44-53, Item SPV.0165.0910.

A Description

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

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

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

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

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Concrete Panel Mechanically Stabilized Earth Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract.

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

To be eligible to provide wall facing panels for this project, a precast concrete manufacturing plant must be pre-approved by the Bureau of Technical Services under standard specification 106.3.3.3.1 prior to the bid closing date. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Technical Services at the following email address: DOTProductSubmittal@wisconsin.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings.

Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

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

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

Design and construct the walls in accordance with the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. Where walls or wall sections intersect with an included angle of 130 degrees or less, a vertical corner element separate from the standard panel face shall abut and interact with the opposing standard panels. The corner element shall have ground reinforcement connected specifically to that panel and shall be designed to preclude lateral spread of the intersecting panels. If the wall is installed in front of a bridge abutment or wing, it shall also be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf in accordance with Chapter 14 of the WisDOT LRFD Bridge Manual or as stated on the plans.

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

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

The design of the wall by the Contractor shall consider the internal and compound stability of the wall mass in accordance with AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and panel-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The value of the pullout resistance factor, F*, used in design calculations shall be obtained from the AASHTO LRFD Figure 11.10.6.3.2-2 as appropriate to the proposed reinforcement type. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

The wall facing shall be designed in accordance with AASHTO LRFD 11.10.2.3. The facing panels shall also be designed to resist compaction stresses that occur during the wall erection. The minimum thickness of the facing panel shall be 5.5 inches. The surface area of a standard single panel cannot exceed 60 square feet. The maximum height of a standard panel shall be 5 feet. The top and bottom panels may exceed 5 foot in height based on site topography subject to the approval by the Structures Design Section. The design of the steel reinforcement within the panels shall be based on one-way bending action. Design the wall panels and joints between panels to accommodate a maximum differential settlement of 1 foot over a 100-foot length with ¾-inch joint widths, unless the plans indicate other maximum differential settlement requirements.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 8 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be 31 inches. The uppermost layer of the reinforcement shall be located between 6 inches and 18 inches below the bottom of an overlying slab, footing or top of the wall. The upper layers of the soil reinforcement shall also be checked to verify that they have sufficient tensile resistance against traffic barrier impact where applicable.

All soil reinforcement required for the reinforced soil zone shall be connected to the face panels. The reinforcement and the reinforcement/facing connection strength shall be designed to resist maximum factored reinforcement loads in accordance with AASHTO LRFD Section 11.10.6. Facing connection strength shall be defined as the resistance factor times the failure load, or the load at 0.5 inch deformation times 0.9, whichever is less. The nominal long term design strength in steel reinforcement and connections shall be based upon assumed conditions at the end of the design life.

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

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

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

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

B.3.1 Wall Facing

Wall facing shall consist of modular precast concrete face panels produced by a wet cast process. The concrete panels shall have a minimum strength of 4000 psi at 28 days. The concrete for the panels shall be air entrained, with an air content of 6% +/- 1.5%. All materials for the concrete mixture for the panels shall meet the requirements of standard spec 501. The panel edges shall be configured so as to conceal the joints. The detail shall be a shiplap, tongue and groove or other detail adequate to prevent vandalism or ultraviolet light damage to the backside of the wall joint covering. Joint widths between panels shall be uniform and ¾-inch, unless noted otherwise on the plans. Use full wall height slip joints at points of differential settlement when detailed on the plan. Horizontal joints must be provided with a compressible bearing material to prevent concrete to concrete contact. Panels shall be reinforced using coated high-strength bar steel or welded steel wire fabric conforming to standard spec 505. Welded steel wire fabric shall be epoxy-coated in accordance with ASTM A884 or galvanized in accordance with AASHTO M 111 or ASTM A641. Panel dowels for cast-in-place copings shall be coated high-strength bar steel conforming to standard spec 505. Unless approved by the Bureau of Structures, adhesive anchors are prohibited.

For reinforced cast-in-place concrete cap or coping, use poured Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast-in-place cap and coping concrete as specified in standard spec 716, Class II Concrete. Use coated high-strength bar steel conforming to standard spec 505.

Provide a minimum of two bearing pads per panel. The allowable bearing stress shall not exceed 900 psi. The bearing pads shall be preformed EPDM rubber conforming to ASTM D2000, Grade 2, Type A, Class A with a Durometer Hardness of 80 +/-5, or high- density polyethylene pads with a minimum density of 0.034 lb/in^3 in accordance with ASTM D1505.

An 18-inch wide geotextile shall be used on the backface of the wall panels to cover all panel joints. The geotextile shall meet the physical requirements stated in standard spec 645.2.4 for Geotextile, Type DF, Schedule B, except that the grab tensile strength shall be a minimum of 180 pounds in both the machine and cross-machine directions. The geotextile shall be attached with a standard construction adhesive suitable for use on concrete surfaces and cold temperatures. The adhesive shall be applied to the panels, not to the geotextile.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad. Use Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

The minimum width of the leveling pad shall be 12-inches. The minimum thickness of the leveling pad shall be 6-inches.

B.3.3 Backfill

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

Place backfill in a zone extending horizontally from the back face of the wall facing to 1 foot minimum beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

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

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

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

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

In addition, backfill material shall meet the following requirements.

Test	**Method**	**Value**	
		(Galvanized)	**(Aluminized Type 2)**
pH	AASHTO T-289	5.0-10.0	5.0 – 9.0
Sulfate content	AASHTO T-290	200 ppm max.	
Chloride content	AASHTO T-291	100 ppm max.	
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.	1500 ohm-cm min.
Organic Content	AASHTO T-267	1.0% max.	
Angle of Internal Friction	AASHTO T-236[1]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2.)	

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

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

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

B.3.4 Soil Reinforcement

All steel portions of the wall system exposed to earth shall be galvanized. All soil reinforcement and attachment devices shall be carefully inspected to ensure they are true size and free from defects that may impair the strength and durability. Soil reinforcement shall be galvanized or aluminized Type 2. Galvanized soil reinforcement shall be in accordance with AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be in accordance with ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be in accordance to Section 11.10.6.4.2 of the current AASHTO LRFD Specifications. The design life of steel soil reinforcements shall comply with AASHTO LRFD. Aluminized soil reinforcement shall be limited 16 years of steel protection. Aluminized steel shall only be used on soil reinforcement elements and shall not be used on facing connections or any other steel portion of the wall system. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be in accordance with standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction.

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

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

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

C.2 Compaction

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

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

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the panels. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 3 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Wall Components

C.3.1 General

Erect panel facing and other associated elements according to the wall manufacturer's construction guide. Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing.

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

C.3.2 Leveling Pad

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

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad. Rubber or plastic shims may be used to level the wall facing units at the leveling pad. No more than 2 shims (each 3/16-inch thick) shall be used to level the wall facing.

C.3.3 Steel Layers

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

C3.4 Panel Tolerances

As backfill material is placed behind a panel, maintain the panel in its proper inclined position according to the supplier specifications and as approved by the engineer. The supplier shall specify the back batter so that the final position of the wall is vertical. Vertical tolerances and horizontal alignment tolerances shall not exceed ¾-inch when measured along a 10-foot straight edge. The maximum allowable offset in any panel joint shall be ¾-inch. The overall vertical tolerance of the wall (plumbness from top to bottom) shall not exceed ½-inch per 10 feet of wall height. Erect the precast face panels to ensure that they are located within 1 inch from the contract plan offset at any location to ensure proper wall location at the top of the wall. Provide a uniform joint width between all adjacent face panels to prevent direct concrete-to-concrete contact. Maintain this width by the use of bearing pads and/or alignment pins. The final joint width shall be within ¼-inch of the design joint width. Failure to meet this tolerance shall cause the engineer to require the contractor to disassemble and re-erect the affected portions of the wall. In addition, imperfect molding, honeycombing, cracking or severe chipping of panels shall be cause of panel rejection.

C.4 Quality Management Program

C.4.1 Quality Control Plan

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

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

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

C.4.2 Quality Control Personnel

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

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

C.4.3 Equipment

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

Furnish nuclear gauges from the department's approved product list at:

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

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to AASHTO T310 and CMM 8-15 for density testing and gauge monitoring methods.

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

C.4.4 Documentation

1. Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.
2. Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.
3. Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

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

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

C.4.6 Department Testing

C.4.6.1 General

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

C.4.6.2 Quality Verification (QV) Testing

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

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

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

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

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

C.4.6.3 Independent Assurance (IA)

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

That review may include one or more of the following:

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

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

C.4.6.4 Dispute Resolution

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.

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

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

C.5 Geotechnical Information

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

D Measurement

The department will measure Wall Concrete Panel Mechanically Stabilized Earth by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.0900	Wall Concrete Panel Mechanically Stabilized Earth R-44-28	SF
SPV.0165.0905	Wall Concrete Panel Mechanically Stabilized Earth R-44-52	SF
SPV.0165.0910	Wall Concrete Panel Mechanically Stabilized Earth R-44-53	SF

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

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

BOS (20230502)

12.9 Load Transfer Platform, Item SPV.0195.0105.

A Description

This special provision describes furnishing and installing the load transfer platform at the locations and to the dimensions shown on the plan and as hereinafter provided.

A.1 General

Construct a load transfer platform as part of the ground improvement system. The purpose of the load transfer platform is to transfer the loads above to the rigid inclusion caps and then to the rigid inclusions, thereby providing adequate support above and between rigid inclusions.

A.2 Definitions

Ground Improvement System: A ground improvement system is composed of a load transfer platform on top of rigid inclusion caps, on top of rigid inclusions – driven piles.

Load Transfer Platform: A load transfer platform is constructed on top of the rigid inclusion caps and consisting of load transfer platform aggregate. Geosynthetic reinforcement or separation/filtration geotextile is prohibited at the base of the load transfer platform.

Rigid Inclusion Cap: Rigid inclusion caps are installed on top of the rigid inclusions and used to decrease the clear spacing between rigid inclusions. The caps are constructed from cast-in-place concrete with steel reinforcement. Rigid inclusion caps are paid for separately under standard bid items 502.0100 Concrete Masonry Bridges and 505.0400 Bar Steel reinforcement HS structures.

Rigid Inclusion - Driven Pile: Rigid inclusion is comprised of closed-ended cast in place concrete piles, driven to the required bearing resistance provided in the plans. Rigid inclusion – driven piles are paid for separately under the standard bid item 550.2126 Piling CIP Concrete 12 ¾ x 0.375-inch.

Working Platform: A working platform is typically constructed of compacted aggregate or granular fill with or without geosynthetic reinforcement layers to support equipment during construction of the ground improvement system. A working platform is part of the contractor means and methods and is considered incidental to this “Load Transfer Platform” pay item.

Load Transfer Platform Aggregate: Compacted crushed stone aggregate meeting requirements of section B.1.

Material Qualification Tests: Suite of laboratory tests performed on representative samples of crushed stone aggregate that will be used for construction of the load transfer platform. Each suite of tests consists of direct shear, gradation analysis, and moisture-density relationship as indicated in section B. Contact the engineer to collect sample aggregates proposed for the project. The engineer and the contractor will jointly obtain samples.

Production Material Tests: Laboratory tests performed on representative samples of load transfer platform aggregate produced at the source location before delivery to the site that verifies conformance with project requirements. Tests consist of direct shear, gradation analysis, and moisture-density relationship as indicated in section C.

Placement Material Tests: Laboratory tests performed on representative samples of load transfer platform aggregate delivered to the site during construction of the load transfer platform that verifies conformance with project requirements. Tests consist of gradation analysis, and moisture-density relationship as indicated in section C.

Direct Shear Test: Laboratory test to determine the effective friction angle of the load transfer platform aggregate. Perform test in accordance with AASHTO T236 and as indicated in section B.

Gradation Test: Laboratory or field tests to determine particle size distribution of load transfer platform aggregate. Perform test in accordance with WTM 11 and AASHTO T27.

Moisture-Density Relationship Test: Laboratory test to determine moisture-density relationship of material densified in laboratory using impact compaction effort in accordance with WTM T180, Modified Proctor.

Compaction Tests: In-place field density tests to determine degree of compaction of placed load transfer platform aggregate as indicated in section C.

A.3 Submittals

The department will evaluate the submittals for conformance with the requirements of this special provision. Any unacceptable submittals will require revision and resubmission. The engineer will provide a written notice of acceptance or rejection of the contractor’s material qualifications and quality control plan submittals within 14 calendar days after receipt of the submitted plans. Acceptance is required prior to beginning any construction in the field.

The accepted ground improvement system installation and quality control plans will become final after acceptance by the engineer of the Material Qualification Tests submittal. After these plans become final, no changes to the plans can be made without written consent of the engineer.

Submit documents in electronic format and transmitted to the engineer via email. No later than 30 days prior to beginning installation of load transfer platform, submit the following information to the engineer for approval.

A.3.1 Ground Improvement System Installation and Quality Control Plan

Acknowledge that the job site was visited to verify the site conditions regarding entrance, access, working adjacent to IH 41 and Ramp WND, subsurface features, clearing, permitting and other information necessary to plan and execute the ground improvement system installation.

Describe the equipment, installation technique(s), installation sequence, and construction procedures to be used, including a plan to address any water or spoils, as required to meet the project schedule.

Provide details of environmental protection provisions during installation of the load transfer platform.

Provide site grading/preparation requirements prior to installation of each ground improvement system component.

Provide a sample of the daily report form to be used by the contractor to document the adequacy of each day's work.

Provide name(s) and qualifications of on-site full-time representative(s) who will verify that ground improvement system component installation procedures conform with the plan and will oversee the quality control and verification program.

Submit a quality control plan (see section C.4) to monitor and document the installation of all load transfer platform elements to verify they satisfy the design and performance requirements.

A.3.2 Material Qualification Tests

For each material source, submit results of Material Qualification Tests for load transfer platform aggregate 14 days prior to starting load transfer platform construction.

Provide plan for sampling and testing of load transfer platform aggregate for production material tests and placement material tests during construction.

A.3.3 Production Material Tests

Submit production material tests on load transfer platform aggregate at the frequency indicated in this special provision at least 14 days prior to placement.

A.4.4 Placement Material Tests

Submit placement material tests at the frequency indicated in this special provision. Submit results no later than 1 day after completing the tests, submit the following information to the engineer for approval:

1. Placement Material Tests
2. Compaction Tests
3. Clearly indicate in each submittal if any tests indicate non-conformance, corrective work performed, and associated retest.

B Materials

B.1 Load Transfer Platform Aggregate

Provide dense-graded base for the load transfer platform aggregate specified in the plans and that conforms to standard spec 305 except as modified below.

Provide crushed stone aggregate that provides a peak effective friction angle of at least 38 degrees.

Do not use recycled concrete, and reclaimed, reprocessed, blended, or by-product materials.

Retain at the project site for the duration of project a split sample of material representative of each material qualification test and each subsequent production material test. Retain an amount of sample equal to greater than the amount required for each test, or a minimum of two 5-gallon buckets.

Gradation is modified as indicated in the table below:

PERCENT PASSING BY WEIGHT

SIEVE	Percent Passing
3-inch	---
1 1/2 inch	---
1 1/4 inch	95 - 100
1-inch	---
3/4 -inch	70 - 93
3/8-inch	42 - 80
No.4	25 - 63
No.10	16 - 48
No.40	8 - 28
No. 200	2.0 - 8.0

Provide material meeting a minimum peak effective friction angle of 38 degrees when tested for direct shear in accordance with the table below:

Direct Shear Test Parameters[1]

Test Identification	Test Sample Density[2] (pcf)	Test Sample Moisture content[2] (%)	Test Sample Normal Confining Pressure (psf)	Percent passing No. 200 Sieve (%)	Required Peak Effective Friction Angle (degrees)
Direct Shear	92% (minimum)	2% above	1,750	2.0	38
Direct Shear	92% (minimum)	2% above	1,750	8.0[3]	38

[1] Submit additional test results for approval if test sample density and/or test sample moisture content varies from values noted in table above. Refer to Article C for compaction requirements during placement of load transfer platform aggregate if test sample density and/or test sample moisture content varies from values noted in table above.

[2] Referenced to maximum dry density and optimum moisture content determined by Modified Proctor test (WTM T180).

[3] Required maximum percentage of fines limited to maximum percent fines of sample tested that meets all other requirements of this subsection.

C Construction

C.1 General

Coordinate the installation of storm sewer planned between the rigid inclusion production zone and Westfield Drive.

Prepare site grading as needed for ground improvement system installation, including installation of working platform, prior to ground improvement system construction, if required. Notify the engineer to allow visual inspection of the prepared subgrade prior to working platform installation (if applicable). Maintain prepared subgrade to prevent excessive rutting as directed by the engineer.

Waste generated during construction of the ground improvement system will be handled per standard spec 205. Waste generated is incidental to this load transfer platform pay item.

C.2 Equipment

Use machines or combinations of machines and equipment that are in good working condition, are safe to operate and will produce the results specified herein without disturbing the underlying subgrade material.

C.3 Load Transfer Platform Installation

Install in accordance with the installation and quality control plan and as noted in this article.

C.4 Quality Control

Maintain the quality control plan to monitor and document the installation of all load transfer platform elements to verify they satisfy the design and performance requirements.

Provide qualified personnel and equipment to continuously observe construction of the load transfer platform, perform tests and record the required information as described in this article. Ensure the plan provides, at a minimum, the following:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
2. Description of the process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
3. Provide details on load transfer platform construction, including aggregate lift thicknesses and compaction requirements.
4. Description and details of proposed equipment to be used, installation techniques, installation sequence, proposed construction procedures and other parameters required to document construction of the load transfer platform.
5. A list of source locations for all aggregate materials requiring QC testing.
6. Descriptions of stockpiling and hauling methods.
7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
8. Locations of qualified QC laboratories, including their effective expiration dates and tests qualified to perform, retained sample storage, and other documentation.
9. Lot layout plan.
10. Description of placement methods and operations. Including, but not limited to staging, construction of an initial working platform, lift thicknesses and equipment.
11. Describe how spoils generated during load transfer platform installation will be disposed, and that the proposed disposal plan conforms with standard spec 205.3.

C.4.1 Ground Improvement System Kick-Off Meeting

No less than 14 days prior to the start of the ground improvement system installation, attend an in-person ground improvement kick-off meeting at the project field office that includes the engineer, the department's geotechnical engineer(s), prime contractor, ground improvement contractor and ground improvement design engineer prior to mobilizing equipment to the project site. Present and discuss the ground improvement installation plan, quality control and quality assurance plans, acceptance/rejection procedures, testing, monitoring, subgrade preparation/protection, temporary shoring plans, rigid inclusion cap construction, and load transfer platform construction procedures. Update ground improvement plans to address comments or questions discussed during the meeting to the department's satisfaction.

Attendance at the pre-placement meeting is mandatory for the project superintendent, quality control manager, project inspection and testing staff, all appropriate contractor personnel involved in the sampling, testing, and quality control including subcontractors, and the engineer or designated representatives.

C.4.2 Personnel

Perform the quality control sampling, testing, and documentation required under this provision using technician certified by the department's Highway Technician Certification Program (HTCP). Have a HTCP Nuclear Density Technician I, or Assistant Certified Technician (ACT), perform field density and field moisture content testing. Have an Aggregate Technician I (AGGTEC-1) certified technician perform aggregate sampling and testing.

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

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods.

The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the construction and materials manual (CMM) and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at:

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

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to AASHTO T310 and CMM 815 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in direct transmission position. Direct transmission tests must be performed at the greatest possible probe depth of 2 inches, 4 inches, or 6 inches, but not to exceed the depth of the compacted layer being tested. Perform each test for at least one minute of nuclear gauge count time.

C.4.4 Load Transfer Platform Aggregate Placement and Contractor Quality Requirements

Place material in accordance with standard spec 301.3.4.3, Special Compaction and in horizontal lifts having a maximum loose lift thickness of 10 inches. Place material in loose lifts not exceeding 6 inches in thickness in areas where hand-operated compaction equipment is used.

Control moisture content of material during placement and compaction to within 2 percent of the optimum moisture content determined by the Modified Proctor test (WTM T180).

Compact each lift to a minimum of 92 percent of the material's maximum modified proctor dry density (WTM T180), or to minimum dry density and maximum moisture content as determined from approved material qualification tests and production material tests to provide a peak effective friction value of 38 degrees.

For each material source, perform the following minimum number of production material tests for each 1,500 tons of load transfer platform aggregate:

1. One moisture-density relationship test.
2. One gradation test.
3. One direct shear test.

Divide load transfer platform into four lots, each corresponding to approximately 270 feet of wall length. Divide sublots into areas no greater than 300 square yards for each lift of load transfer platform aggregate. For the first lift of load transfer platform aggregate, testing locations will be determined by the engineer and the contractor through mutual agreement by random numbers per ASTM Method D3665 and adjusted to avoid rigid inclusion cap locations. Determine testing locations for subsequent lifts by random numbers.

Perform the following minimum number of placement material tests for each lift within each sublot of load transfer platform aggregate:

1. One compaction test.
2. One gradation test.

Perform additional gradation or moisture-density relationship tests during placement when:

1. The gradation on any one gradation test differs from the original gradation test result for that sieve, by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to create a moisture-density relationship test. Each moisture-density relationship test will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test.

2. Percent target density exceeds 103.0% on two consecutive compaction tests.
3. In the judgement of the engineer the material being placed is not representative of the material qualification and material production tests.

C.5 Department Testing

C.5.1 General

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

C.5.2 Quality Verification (QV) Testing

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

The department will conduct QV tests at the minimum frequency of 20% of the required gradation, compaction tests, and moisture-density relationship contractor tests.

The department will utilize contractor's moisture-density relationship test results for determination of the material target density. The department will verify moisture-density relationship test values by testing split-sample retained by the contractor. The department will use QC moisture-density relationship test results as a target density if the QC and QV Proctor test results meet the tolerance requirements specified in this section herein.

The department will locate gradation and nuclear density test samples, at locations independent of the contractor's QC work, collecting one sample at each QV location. Sampling for gradation may be done independently of nuclear density tests before watering and before compacting. The department will split each QV sample, test half for QV, and retain the remaining half for 10 calendar days.

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

The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If QV test results are nonconforming, take corrective actions in accordance with C.12 until the requirements of this special provision are met. Differing QC and QV moisture density relationship test values of more than 3.0 pcf will be investigated and resolved.

C.6 Independent Assurance (IA) Testing

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

1. Split-sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Requesting that testing personnel perform additional sampling and testing.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken.

C.7 Daily Installation Reports and Final As-Builts

Provide a completed daily report form signed by the contractor's qualified and authorized personnel to the engineer documenting the work performed each day and that each aggregate lift was installed according to requirements in the approved plan. Provide the following information, at a minimum, on daily reports:

1. Date constructed.
2. Average lift thickness.
3. Description of soil and groundwater conditions.
4. Details of obstructions, delays, and any unusual issues.
5. Estimated weight or volume of aggregate delivered and placed.
6. Documentation of placement material tests completed, as required, associated with load transfer platform aggregate placement.

C.8 Tolerances

Install load transfer platform at the locations shown on the approved plans within the following tolerances:

1. Minimum dimensions as shown on the plans.

C.9 Installation Sequence

Install the load transfer platform according to the sequence detailed in the approved installation plan. Prevent rutting or other disturbance to the underlying subgrade or damage to geotechnical instrumentation.

C.10 Acceptance of Load Transfer Platform

C.10.1 General

Consider the load transfer platform acceptable if construction and quality control plan requirements are completed in accordance with this specification.

C.10.2 Based on Specifications

Material placed within the load transfer platform that does not conform with the approved installation and quality control plan or specified materials will not be paid for and are subject to removal and replacement with acceptable materials.

Alternate remedial measures other than removal and replacement may be proposed by the contractor. The acceptability of alternate remedial measures will be determined by and at the sole discretion of the engineer. Perform any remedial measures, up to and including abandonment and replacement, at no additional cost to the department.

C.11 Dispute Resolution

The engineer and the contractor should make every effort to avoid conflict. If a dispute between some aspect of the of the contractor’s testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor shall review the data, examine data reduction and analysis methods, evaluate sampling and testing methods/procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

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

If project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating a non-conforming product or work, the department will use independent assurance testing to resolve the dispute. The department’s central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third-party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third-party test results to evaluate the quality of questionable materials and determine the appropriate payment.

C.12 Corrective Action

Lots not achieving the minimum density requirements and moisture control requirements may be addressed and accepted for compaction in accordance with the requirements of this section. Unless directed by the engineer, corrective actions taken to address an unacceptable lot must be applied to the entire lot corresponding to the non-conforming test.

Investigate the moisture content of material in an unacceptable lot. Moisture content testing/samples collected under the QC testing articles of this specification may be used to complete this investigation. Obtain moisture content readings in accordance with ASTM D 6938.

Unacceptable lots shall receive contractor-performed and documented corrective action, including additional density testing.

Density tests completed after any corrective action will replace previous field density test results for that lot. Continue corrective actions until the minimum density requirement is achieved or an alternate compaction acceptance criteria is met in accordance with this section.

D Measurement

The department will measure Load Transfer Platform by the ton of aggregate placed and acceptably installed. Any load transfer platform installed beyond the limits shown on the plans will not be measured for payment unless agreed to and authorized in advance of placement by the engineer.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.0105	Load Transfer Platform	TON

Payment is full compensation for submittals; furnishing materials; preparing the subgrade to support construction equipment (including excavation for and placement of a working platform if required); material testing; installing the load transfer platform; submittals; and for QC/QA testing.

Separate payment will not be made for any disposal of water or spoils, drainage layers, working platforms, or other activity taken to facilitate construction.

Removal of unknown man-made subsurface obstructions for the “Load Transfer Platform” pay item will be measured and paid for separately under the pay item “Obstructions Foundation Drilling” included in the contract.

13. Drainage and Erosion Control.

13.1 Erosion Control.

Supplement standard spec 107.20 as follows:

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

Re-topsoil finished graded areas within 24 hours, or as designated by the engineer. Seed, fertilize, and mulch or erosion mat all topsoiled areas within five working days after placement of topsoil.

At a minimum or as the engineer directs, for every 10 feet of fill placed or cut created, measured vertically, the contractor shall finish grade to the lines and sections the plans show and place permanent erosion control items including out to the slope intercepts. Permanent erosion control includes, but is not limited to, topsoil, mulch, matting, rip rap, and seeding. Do not construct the subsequent 10-foot fill or cut section until the previous 10-foot fill or cut section is restored.

Prepare an Erosion Control Implementation Plan (ECIP) amendment detailing an over-winter erosion control plan. Present this ECIP amendment at a pre-winter shut down meeting with Wisconsin DNR and department staff prior to October 15th, 2025.

13.2 Storm Sewer.

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 608.3.1.1 *with the following:*

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

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

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 and lubrication of rubber gaskets; mastic joint; 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 joint seals, wraps and couplers; for concrete collars not required under 520.3.1(5) or 608.3.3(10); 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.

13.3 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.

Prior to ordering drainage pipes and structures, verify related drainage information in the plan. 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 611.3.3 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.

13.4 Notice to Contractor, Pond APC Dewatering.

The construction of the APC Pond is expected to encounter groundwater during construction. Dewatering effort should be anticipated during pond excavation to maintain stable slopes and for the installation of the pond clay liner.

Prior to construction, lower the groundwater table to below the bottom of the clay liner elevation to allow for the construction of the pond liner in accordance with Article 13.8, Pond Liner Clay, of the special provisions. Continue dewatering after installation of the clay liner until the pond reaches its normal operating water level, as identified in the plans, to prevent loss of liner integrity due to hydrostatic uplift.

If the pond does not reach the normal operating water level through natural means while dewatering is occurring, fill the pond mechanically. This could include discharging water from the dewatering operations into the pond. Damage to the clay liner, if the pond is filled mechanically, will be repaired at no cost to the department. Dewatering and pond filling is incidental to Pond Liner Clay bid item.

13.5 Inlet Covers Type VV-B.

Supplement standard spec 611.3.6.2 with the following:

(2) Place a manufacturer recommended anti-seize compound on the bolt threads prior to installing.

(3) Remove bolts as directed by the engineer.

Supplement standard spec 611.5.4 with the following:

(2) Payment for Inlet Covers VV-B also includes full compensation for providing required materials, including bolts; for installing the bolts; and for removing and disposing of the bolts when no longer required.

13.6 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)

13.7 Pipe Grates 30-Inch, Item 611.9850.S.0001.

A Description

This special provision describes providing pipe grates for pipe apron endwalls as detailed in the plans.

B Materials

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel pipe conforming to the requirements of standard spec 506.2.3.6.

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged according to the requirements of AASHTO M36.

D Measurement

The department will measure Pipe Grates 30-Inch in units of work, where one unit is one grate, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9850.S.0001	Pipe Grates 30-Inch	EACH

Payment is full compensation for furnishing and installing all materials; and for drilling and connecting grates to apron endwalls.

stp-611-010 (20230113)

13.8 Silt Fence Heavy Duty, Item 628.1530.S; Silt Fence Heavy Duty Maintenance, Item 628.1535.S.

A Description

This special provision describes furnishing, installing, maintaining, repairing, and removing heavy duty silt fence as the plans show, as directed by the engineer, and as hereinafter described.

B Materials

Provide Silt Fence Heavy Duty consisting of a composite of fence posts, fence fabric, geotextile fabric, sand bags or rock bags, and fasteners to be assembled by the contractor.

Furnish new or salvaged notched conventional metal “T” or “U” shaped fence posts with a length of 8 feet and minimum weight of 1.25 lb/ft.

Furnish new fence fabric, or salvaged fence fabric that is free of rust or other structural defects, conforming to standard spec 616.2.2.1 or 616.2.3.2, or one of the following alternatives:

- Woven wire fence - Standard field fence type, minimum 14-½ gauge wire, maximum mesh spacing of 6 inches, and a height of 4 feet.
- Chain link fence – minimum 12-½ gauge, maximum 2.5-inch diamond pattern, and a height of 4 feet.
- Welded wire fence – minimum 14 gauge, maximum mesh spacing of 4 inches, and a height of 4 feet.

Furnish Geotextile Fabric Type HR according to standard spec 645.2.2.7.

Furnish sand bags according to standard spec 628.2.8 or rock bags according to standard spec 628.2.13.

Furnish wire ties, nylon zip ties, or other engineer approved materials.

C Construction

Complete the installation prior to any ground disturbing activities within the drainage area adjacent to the required location. Construct according to the plan details and as described below.

Install posts with a minimum embedment of two feet and as necessary to provide a stable fence system.

Attach fence fabric to posts with at least three ties on each post (top, middle, bottom).

Attach geotextile fabric to fence fabric and/or posts at a maximum spacing of every 2 feet along the top and additionally as necessary to prevent displacement or damage by wind and wave actions. Overlap joints in the geotextile fabric by a minimum of 12 inches. Excess geotextile fabric may be cut or draped over the backside of the fence system.

Secure the bottom of the geotextile fabric by either of the following methods:

- For installation in wet conditions, anchor the lower flap of the geotextile fabric to the ground using a continuous line of sand bags or rock bags. The lower flap shall be a minimum width of 1 foot.
- For installation in dry conditions, bury the bottom edge in a trench that is a minimum of 4 inches wide and 6 inches deep. Fold material to fit trench and backfill and compact trench with excavated soil.

Maintain the fence throughout construction and until removal. Repair or replace fence materials as necessary. Remove sediment whenever it accumulates to approximately one-half the original fence height and as directed by the engineer. Remove all sediment prior to final stabilization.

Keep system in place until the site is permanently vegetated and is ordered for removal by the engineer. Clean up and restore the surface after removal.

D Measurement

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

The department will measure Silt Fence Heavy Duty Maintenance by the linear foot, acceptably completed, measured along the base of the fence, end-to-end of the section maintained, for each time a section of fence is cleaned and repaired.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
628.1530.S	Silt Fence Heavy Duty	LF
628.1535.S	Silt Fence Heavy Duty Maintenance	LF

Payment for Silt Fence Heavy Duty is full compensation for erecting fence, including excavating or trenching, posts, geotextile fabric, sand bags or rock bags, backfilling, removal, restoration, and disposal.

Payment for Silt Fence Heavy Duty Maintenance is full compensation for required cleaning and repairing; for removing and disposing sediment or spreading accumulated sediment to form a surface suitable for seeding; and for replacing fence and damages caused by overloading sediment material or ponding water adjacent to fence.

stp-628-005 (20220628)

13.9 Pond Liner Clay, Item 640.1303.S.

A Description

This special provision describes furnishing and installing clay liner in areas shown on the plans.

B Materials

For each source, prior to excavating and hauling the clay liner to the project, submit the results of the laboratory source screening tests described in Table 1. Laboratory test results of the clay must meet or exceed the requirements before placing material.

Submit source screening test results to the engineer for review, two weeks prior to clay placement.

C Construction

C.1 Clay Liner

C.1.1 Subgrade

Compact the subgrade to the minimum density using standard spec 207.3.6.2 Standard Compaction, or as otherwise specified in the contract requirements.

C.1.2 Erosion Protection

Do not place the clay liner until after all adjacent site grading has been completed and only after silt fence has been installed completely around the area of clay liner placement.

C.1.3 Clay Placement

After the fine grading is complete, place and compact clay liner in compacted 6-inch lifts. Place each lift of clay liner in one continuous lift. See plans for clay liner construction limits. Measure the thickness of the clay, as shown in the plans, perpendicular to the surface.

Notify the engineer at least three days before starting construction of clay liner.

Table 1

Reference	Number	Test Title	Requirements	Testing Frequency	
				Source Screening	Project Testing
AASHTO[1]	T99-01	Moisture –Density Relationships of Soils Using a 2.5-kg (5.5 lb) Rammer a 305 mm (12-in.) Drop (Standard Proctor)	NA	1/source	NA
AASHTO	T-88-00	Particle Size Analysis of Soils	P200[3] $\geq$ 50%	2/source	1/lift
AASHTO	T-89-02	Determining the Liquid Limit of Soils	LL[4] $\geq$ 22%	2/source	1/lift
AASHTO	T-90-00	Determining the Plastic Limit and Plasticity Index of Soils	PI[5] $\geq$ 12%	2/source	1/lift
AASHTO	T310-03	In-Place Density and Moisture Content of Soils and Soil-Aggregates by nuclear Methods (Shallow Depth)	DD[6] $\geq$ 95% of the MDD[7]	NA	100'x100' Grid/lift
ASTM[2]	D5084-03	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	K[8] $\leq$ 1 x 10^{-7} cm/sec	1/source[9]	1/site[10]

Notes:

1. AASHTO = American Association of State Highway and Transportation Officials
2. ASTM = American Society of Testing and Materials
3. P200 = Percent by weight passing the #200 sieve (%)
4. LL = Liquid Limit (%)
5. PI = Plasticity Index (%)
6. DD = Dry Density (pcf)
7. MDD = Maximum Dry Density (pcf) as determined by the Standard Proctor Test
8. K = Hydraulic Conductivity (cm/sec)
9. The sample for the test shall be remolded at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test.
10. An undisturbed sample from a thinned walled sampler (Shelby tube)

Compact the clay liner to a minimum of 95% Standard Proctor AASHTO T-99 Maximum Dry Density with footed compaction equipment having feet at least as long as the loose lift height. As needed, clay shall be disked or otherwise mechanically processed before compaction to break up clods and allow moisture content adjustment. Clod size shall be no greater than 4 inches. All compaction equipment utilized shall have a minimum static weight of 30,000 pounds.

Provide all equipment necessary to adjust clay liner to the proper moisture content for compaction.

Make sufficient number of passes of the compaction equipment over each lift of clay to ensure complete remolding of the clay.

Do not proceed with placement of additional lifts until all required clay liner testing and documentation has been completed for the previous lift.

During placement of the clay liner the minimum moisture content shall be as defined by the testing performed in the source screening evaluation and with the following limits:

- No drier than the optimum moisture content as determined by the Standard Proctor test.

If the in-place clay liner fails to meet the requirements of Table 1, then remove and replace or rework any portion of the clay liner not meeting the project requirements until project specifications are met. There shall be no compensation for removing, replacing and reworking clay not meeting the requirements in Table 1.

C.1.4 Project Testing and Acceptance

Perform all project testing at the frequency shown in Table 1 except for project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter, which will be done by the department. Record clay liner thickness on a 100 foot x 100 foot grid pattern.

Provide the following:

- Access for on-site testing, inspection, and documentation.
- Machinery required to grade/blade density test locations.
- Machinery required to collect undisturbed clay samples (i.e., with Shelby tubes).
- Replace and recompact clay material removed for testing purposes.

Perform sampling, testing, and documentation for project testing in Table 1, required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at each grading site during all clay liner placement, compaction, and sampling/testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

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

Perform all project testing with a department approved laboratory.

C.1.5 Department Testing

The department will perform the project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.

D Measurement

The department will measure Pond Liner Clay in volume by the cubic yards, 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
640.1303.S	Pond Liner Clay	CY

Payment is full compensation for dewatering areas of site where the clay liner is to be placed; for furnishing, placing and compacting the clay liner; and for performing all tests.

stp-640-016 (20210113)

13.10 Temporary Ditch Checks.

Complete work in accordance to standard spec 628 and as herein provided. Erosion bales will not be allowed for construction of temporary ditch checks.

Delete standard spec 628.3.14(2) and replace it with the following:

(2) Construct temporary ditch checks per guidance provided in the Wisconsin Erosion Control Product Acceptability List (PAL). Place temporary ditch checks across ditches at locations the plans show or as the engineer directs immediately after shaping the ditches or slopes. Excavate upstream sumps as the engineer directs.

Delete standard spec 628.4.17 and replace it with the following:

(1) The department will measure Temporary Ditch Checks by the linear foot, acceptably completed.

13.11 Stone Ditch Checks, Item 628.7515.S.

A Description

This special provision describes furnishing, installing, maintaining, and removing stone ditch checks, either temporary or permanent, as the plans show or as the engineer directs.

B Materials

Furnish materials conforming to the requirements for Riprap Extra Light according to standard spec 606.2.1.

C Construction

Place stone ditch checks immediately after shaping of the ditches is completed. Place stone ditch checks perpendicular to the direction of flow. Construct according to the plan details.

During construction, maintain stone ditch checks by removing sediment whenever it accumulates to one half of the original ditch check height. Remove all accumulated sediment prior to final stabilization.

For temporary installations, remove all materials incorporated into the work when directed by the engineer. Restore areas with topsoil, seed, fertilizer, and other erosion control items as directed by the engineer.

D Measurement

The department will measure Stone Ditch Checks by the cubic yard of material, 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
628.7515.S	Stone Ditch Checks	CY

Payment is full compensation for excavating, furnishing, placing, and shaping Stone Ditch Checks.

Removal of sediment and removal of temporary stone ditch checks will be paid under the Excavation Common bid item by multiplying the measured removal quantity by a factor of ten.

The department will pay separately for restoration and erosion control items under the appropriate contract bid items.

The department will pay separately for Geotextile Type R fabric.

stp-628-050 (20210708)

13.12 Pond APC Outlet Storm Sewer Structure, Item SPV.0060.0205.

A Description

This special provision describes furnishing and installing manhole structures with baffle walls for storm sewer in-line detention at Pond APC. Conform to standard spec 501 and 611 and as below.

B (Vacant)

C Construction

Field verify all existing connections. Ensure the sump depth as shown on the plans is 2 feet below the lowest pipe invert.

D Measurement

The department will measure Pond APC Outlet Storm Sewer Structure as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0205	Pond APC Outlet Storm Sewer Structure	EACH

Payment is full compensation for furnishing and installing the outlet structure and all incidentals to complete the work.

13.13 Storm Sewer Plug, Item SPV.0060.0210.

A Description

Install a Storm Sewer Plug at locations specified in the plans

B Materials

Provide a precast reinforced concrete plug or an engineer approved alternative, conforming to the inside diameter of the corresponding pipe as shown on the plan.

All materials, if concrete, must conform to standard spec 501 and 611.

C Construction

Place a watertight plug in the end of the storm sewer pipe in a manner that seals the pipe but allows for future removal of plug without damaging the storm sewer pipe.

D Measurement

The department will measure Storm Sewer Plug as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0210	Storm Sewer Plug	EACH

Payment is full compensation for furnishing and installing all required materials; and removal in subsequent stage.

13.14 Reconnect Storm Sewer, Item SPV.0060.0215.

A Description

This special provision describes connecting proposed storm sewer pipe/structures to existing storm sewer pipe/structures or proposed pipe/structures.

B Materials

Furnish concrete for concrete collar conforming to standard spec 520.2.4.

Furnish storm sewer pipe in accordance to standard spec 608.2

C Construction

Remove existing concrete collars, pipe seals or end walls constructed under previous projects or in earlier stages of this project as necessary to reconnect storm sewer. Ensure that positive drainage is achieved when connecting proposed pipe to existing structures or storm sewer. Salvage any structurally sound pipe that requires removal if prior approval is granted by the engineer. Make all necessary connections using the appropriate coupling, concrete collar, or by means approved by the engineer.

D Measurement

The department will measure Reconnect Storm Sewer as each location as specified in the plans, 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.0060.0215	Reconnect Storm Sewer	EACH

Payment is full compensation for performing all work; removing seals, end walls and concrete collars; providing all materials; coring or sawing; and couplings, concrete collars. Any additional pipe or materials required to reconnect the storm sewer shall be considered incidental to this bid item.

13.15 Fastening Sewer Access Covers, Item SPV.0060.0220.

A Description

This special provision describes sealing and bolting sewer access covers.

B Materials

Furnish preformed butyl rubber-based sealant conforming to ASTM C990 Section 6.2. Size the preformed joint sealant to fill the joint to 50% of its annular volume when assembled. If provision of bolts is not included in the standard specifications or construction details associated with the casting, furnish bolts which meet casting manufacturer specifications for permanent fastening of lid.

C Construction

Open the sewer access cover, inspect the frame and grate, and remove material that will interfere with the sealant application from the cover and casting. Apply sealant in a continuous ring around the frame without stretching. Knead the ends together with no overlap.

Bolt the lid to the frame in accordance with the standard specifications and construction details associated with the casting. If the standard specifications and construction details do not include bolting instructions, bolt the lid to the frame in accordance with the manufacturer specifications or as instructed by the engineer.

Monitor performance during the project and maintain as needed for the duration of the project. After completion of the project, perform final maintenance of sealant and bolt the lid to the frame according to the instructions above.

D Measurement

The department will measure Fastening Sewer Access Covers as each individual cover, 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.0060.0220	Fastening Sewer Access Covers	EACH

Payment is full compensation for furnishing and installing all required materials.

13.16 Cover Plates, Item SPV.0060.0225.

This special provision describes providing steel plates to cover and support construction and traffic loadings at existing field inlets. Conform to standard spec 611, as the plans show, and as follows.

B Materials

Provide a 0.5-inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C Construction

Cover the portion of existing field inlets where proposed grading covers the existing grate. Cover plates will remain in place after completion of this project.

Clean out all soil, debris, other accumulated matter, and materials deposited or lodged due to the contractor’s operations from the structure before placing the cover plate on the structure. Place cover plate over portion of existing field inlet which is below the proposed ditch flow line elevation. Do not extend covers above the proposed flow line to prevent flow bypass of the inlet.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0225	Cover Plates	EACH

Payment is full compensation for cleaning out; and furnishing and installing the cover plate.

ner-611-015 (20171213)

13.17 Inlet Covers Type Y, Item SPV.0060.0230.

A Description

This special provision describes providing and installing Inlet Covers Type Y as shown on the plans. Conform to standard spec 611.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Inlet Covers Type Y as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0230	Inlet Covers Type Y	EACH

Payment is full compensation for providing new covers, including frames, grates or lids, and other required materials and for installing and adjusting each cover.

13.18 Detention Pond Anti-Seep Collar, Item SPV.0060.0235.

A Description

This special provision describes furnishing and installing low permeable clay around pipes at pond outlet control structures at the locations shown on the plans.

B Materials

Furnish materials and testing of materials as specified in Item 640.1303.S of these special provisions.

C Construction

Construct clay anti-seep collars to the locations and extents as shown in the plans. Construct, place, and compact clay for anti-seep collars as specified in Item 640.1303.S of these special provisions.

D Measurement

The department will measure Anti-Seep Collar as each individual collar, 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.0060.0235	Detention Pond Anti-Seep Collar	EACH

Payment is full compensation for dewatering areas of site where the low permeable clay is to be placed; for furnishing and placing and compacting the low permeable clay and all incidentals to complete the work.

13.19 Sealing Storm Structure, Item SPV.0060.0240.

A Description

This special provision describes constructing a wall to fill and seal the void created in an existing storm sewer structure from removing an existing storm sewer pipe. The wall can be constructed of concrete, brick masonry, concrete brick, or block masonry.

B Materials

Furnish concrete conforming to standard spec 501. Furnish brick masonry, concrete brick, block masonry, or mortar conforming to standard spec 519.

C Construction

Construct concrete as specified in standard spec 501. Construct brick masonry, concrete brick, or block masonry as specified in standard spec 519.

Place concrete to conform to the inside diameter of the existing storm sewer structure in a manner that fills and seals to make watertight the void created from the removed pipe.

D Measurement

The department will measure Sealing Storm Structure as each individual sealed storm structure 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.0060.0240	Sealing Storm Structure	EACH

Payment is full compensation for providing all materials, including concrete; for furnishing, placing, finishing, protecting, and curing concrete blocks; for sawing as necessary; and for disposing of surplus material, and all incidentals necessary to complete the work.

13.20 Inlets 2.25x3.5-FT, Item SPV.0060.0245.

A Description

This special provision describes providing inlets, as detailed in the plans, according to standard spec 611, and as hereinafter provided.

B Materials

Furnish materials that conform to standard spec 611.2.

C Construction

Construct the inlet according to standard spec 611.3. Size of the inlet shall follow the Department's Standard Detail Drawing SDD 08C07 with the exception of utilizing an inside width and length dimension of 2.25 feet and 3.5 feet, respectively.

D Measurement

The department will measure the bid items under this section as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0245	Inlets 2.25x3.5-FT	EACH

Payment for the Inlets bid item is full compensation for providing materials, including masonry, conduit and sewer connections, steps, and other fittings; for excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the site; except that the department will pay for covers, including frames, grates and lids separately; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

13.21 Temporary Water Diversion B-44-347 Station 670SB+71, Item SPV.0060.0255; Temporary Water Diversion B-44-347 Station 669NB+80, Item SPV.0060.0260; Temporary Water Diversion B-44-348 Station 665NB+92, Item SPV.0060.0265.

A Description

This special provision describes providing temporary water diversion for B-44-347 and B-44-348 during construction. Conform to the required Standard Specifications, Plan and the methods used must be approved in the Erosion Control Implementation Plan (ECIP).

B Materials

Furnish materials conforming to the necessary Standard Specifications based on the method of construction.

C Construction

C.1 General

The temporary diversion shall accommodate the 2-year, 24-hour duration storm. Provide overflow through the work zone for storms that exceed the 2-year, 24-hour duration storm. The 2-year recurrence interval stream discharges are as follows:

B-44-347 Station 670SB+71 76 cubic feet per second.

B-44-347 Station 669NB+80 25 cubic feet per second.

B-44-348 Station 665NB+92 144 cubic feet per second.

Provide hydraulic calculations and temporary water diversion plan details at each required location. Include a summary of the Temporary Water Diversion duration at each required location. All methods of diversion, calculations and plans are subject to approval as part of the ECIP.

Maintain channel flow at all times and minimize erosion into the existing stream using appropriate erosion control measures. Inspect Temporary Water Diversion(s) daily to ensure proper functioning and within 24 hours after every precipitation event that produces 0.5 inches or rain or more during a 24-hour period. Maintenance shall be completed as soon as possible with consideration to site conditions.

C.2 Bypass Pumping

If bypass pumping is used for temporary diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP for each location bypass pumping is required. Bypass pumping used for temporary diversion shall conform to requirements identified in the article titled Environmental Protection, Bypass Pumping.

C.3 Temporary Channel

If a channel is used for temporary diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP. The plan shall include the following:

- Diversion location
- Channel grade or elevations
- Typical cross section
- Channel stabilization

The diversion channel shall have stable side slopes and shall not be overtopped during a 2-year, 24-hour duration storm. The berm cross section elements shall be:

- Side slopes 2:1 or flatter
- Berm width of 2’ (minimum)
- Berm height of 1.5’ (minimum)

Protect diversion channels from construction activities. Locations where diversion berms or channels will be crossed by construction equipment shall be stabilized or shaped appropriately. Temporary culverts of adequate capacity may be used.

Stabilize the side slopes, including the top of the berm, as soon as they are constructed.

Sediment-laden runoff from areas disturbed by construction activities shall be diverted into sediment control measures before leaving the project area. If the channel to be diverted hasn’t passed through areas disturbed by construction activities, stabilize the diversion channel and outfall before beginning construction activities and diverting the clean water.

Stabilize the diversion channel with select crushed material, or other methods approved by the engineer. Unless directed otherwise, place select crushed material at least one foot thick, as measured perpendicular to the slope. Place the select crushed material over polyethylene sheeting. The polyethylene sheeting should be of sufficient strength so that is not damaged during placement of select crushed or other slope stabilizing material. Place polyethylene sheeting in accordance to 628.3.9 of the Standard Specification.

Remove accumulated sediment when it reaches one half the height of the diversion berm or as directed by the engineer. Properly dispose of any sediment removed from the diversion channel.

C.4 Restoration

Remove the temporary water diversion after it is no longer required. Restore the area in accordance with the plan.

D Measurement

The department will measure Temporary Water Diversion as 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.0060.0255	Temporary Water Diversion B-44-347 Station 670SB+71	EACH
SPV.0060.0260	Temporary Water Diversion B-44-347 Station 669NB+80	EACH
SPV.0060.0265	Temporary Water Diversion B-44-347 Station 665NB+92	EACH

Payment is full compensation for providing hydraulic calculations, plans, installation, daily inspections, maintenance, disposal of accumulated sediment, any necessary modifications or repairs to the temporary diversion channel, removal of the temporary diversion operation is no longer needed, and re-grading the area to finished grade.

The department will pay separately for salvaged topsoil, seed mixture, fertilizer, e-mat, and any other items needed for permanent restoration.

If the contractor fails to begin corrective action within 24 hours of the engineers written order, or fails to promptly install the required corrective action, the department will deduct $500 per calendar day of delay under the Failing to Perform Corrective Action for Erosion Control administrative item. The engineer may extend the 24-hour period for delays not the contractor's fault.

NER-210-020 (20241031)

13.22 Street Sweeping, Item SPV.0075.0100.

A Description

This special provision describes removing small dirt and dust particles from the roadway using a street sweeper periodically during the project as the engineer directs.

B Materials

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.

Use a vacuum, water spray system, or other engineer-approved method to clear debris from scuppers in existing concrete barrier walls.

C Construction

Provide sweeping of pavement, sidewalk, driveways, curb lanes and gutters and as directed by the engineer.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0075.0100	Street Sweeping	HRS

Payment is full compensation for mobilization; sweeping, vacuuming and water spray; disposing of materials; and submitting the hourly meter tickets each day the sweeper is used.

13.23 Drain Slotted Vane Permanent, Item SPV.0090.0200.

A Description

This special provision describes providing slotted vane drain as the plans show conforming to standard spec 611, standard detail drawing “Slotted Vane Drain” and as modified in this special provision.

B (Vacant)

C Construction

Before encasing the pipe in concrete, cover the upper end of the slotted drain as the plans show, or as approved by the engineer.

Before construction operations adjacent to the slotted area of the slotted vane drain pipe, cover the slots on the top of the drain. Remove any material entering the pipe at the contractor’s expense.

Exercise care to avoid damage to the slotted vane drainpipe. If any section of pipe is damaged or is unsatisfactory as determined by the engineer, replace the drainpipe at contractor’s expense.

D Measurement

The department will measure Drain Slotted Vane Permanent by the linear foot, completed according to the contract 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.0090.0200	Drain Slotted Vane Permanent	LF

Payment is full compensation for furnishing all materials; hauling and placing the pipe; making connections to existing inlets; furnishing concrete masonry, end plug or cap; cleaning out and restoring site of work, removal and disposing of waste material, and all incidentals to complete the work.

13.24 Drain Slotted Vane Temporary, Item SPV.0090.0205.

A Description

This special provision describes providing and removing temporary slotted vane drain as the plans show conforming to standard spec 611 as modified in this special provision.

B (Vacant)

C Construction

Before encasing the pipe in concrete, cover the upper end of the slotted drain as the plans show, or as approved by the engineer.

Before construction operations adjacent to the slotted area of the slotted vane drain pipe, cover the slots on the top of the drain. Remove any material entering the pipe at the contractor’s expense.

Exercise care to avoid damage to the slotted vane drainpipe. If any section of pipe is damaged or is unsatisfactory as determined by the engineer, replace the drainpipe at contractor’s expense.

D Measurement

The department will measure Drain Slotted Vane Temporary by the linear foot, completed according to the contract 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.0090.0205	Drain Slotted Vane Temporary	LF

Payment is full compensation for furnishing all materials; hauling and placing the pipe; making connections to existing inlets; furnishing concrete masonry, end plug or cap; cleaning out and restoring site of work, removal and disposing of waste material, and all incidentals to complete the work.

13.25 Cured in Place Pipe Liner, 42-Inch, Item SPV.0090.0210.

A Description

This special provision describes furnishing and installing cured-in-place pipe (CIPP) liners for culvert or storm sewer.

B Materials

B.1 General

Provide a system that has a minimum of 500,000 feet or 1,000 lined sections of successful installations in the United States and that has been continuously available and in service for a minimum of 5 years.

Provide documentation of testing to confirm a minimum 50-year design life for the liner.

B.2 Flexible Tube

Furnish a flexible tube meeting the requirements of ASTM F1216 or ASTM F1743 consisting of one or more layers of flexible needled felt or an equivalent non-woven material, or a combination of non-woven and woven materials which are compatible with a resin impregnated curing process.

Construct the tube to; withstand installation pressures and curing temperatures, have sufficient strength to bridge missing pipe, stretch to fit irregular pipe sections, invert smoothly around bends, and be compatible with the chosen resin system.

Manufacture tube to a size that, once installed, will tightly fit the internal circumference and length of the original pipe as verified by the contractor. Make allowance for circumferential stretching during inversion. Fabricate seams in the tube stronger than the unseamed material. Do not utilize overlapped layers of felt in longitudinal seams that cause lumps in the final product. Form spirally formed and sewn joints for length as required. Do not form joints perpendicular to the long axis.

Mark the tube for distance at regular intervals along its entire length, not to exceed 5 feet. Include the manufacturers name or identifying symbol.

Coat the outside layer of the tube (before wetout) with an impermeable, flexible membrane that will contain the resin and facilitate monitoring of resin saturation during the resin impregnation (wetout) procedure.

B.3 Resin

Furnish a corrosion resistant polyester, vinyl ester, or epoxy and catalyst resin system that when properly cured within the tube creates a composite that meets the requirements of ASTM F1216, ASTM D5813, and ASTM F1743, the physical properties in this specification, and those requirements which are to be utilized in the design of the CIPP for the specific project.

Provide a resin and catalyst system that is compatible with the installation process, when cured will comply with the structural and chemical resistance requirements of this specification and can cure in the presence or absence of water. Provide quantities of liquid thermostatting materials per the manufacturer’s standards to provide lining thickness required.

The resin may contain fillers for viscosity control, fire retardance, air release, or extension of pot life. Viscosity can be controlled by adding thixotropic agents that do not interfere with visual inspection. The resin can contain pigments, dyes, or colors that do not interfere with visual inspection of the resin-impregnated pipe liner.

B.4 Structural Requirements

A minimum of 14 days prior to delivery of the liner materials, submit design calculations prepared by an engineer licensed in the State of Wisconsin that meet the requirements of the manufacturer and that are designed as per ASTM F1216, Appendix XI. For the fully deteriorated condition assume no bonding to the original pipe wall for the CIPP design. Verify the Long-Term Flexural Modulus used in design by independent testing and provide documentation to the Department. Do not exceed 50% of the short-term values for the Long-Term Modulus in design. CIPP thickness shall not be less than that which is computed from the design requirements in the table below, for resin systems with physical properties shown.

Follow the design equations outlined in ASTM F1216, Appendix X1 for cured-in-place-pipe liners (CIPP) installed by either the pulled-in-place or inversion method. Assume a partially deteriorated pipe condition.

CIPP Design Criteria and Minimum Physical Properties

Design Variable	Value
Culvert Inside Diameter	42-Inch
Soil Density: w	120 pcf
Live Load: Ws	Follow AASHTO LRFD Bridge Design Specifications (AASHTO, 2012) Article 3.6.1.2.6
Minimum Height of Water above Culvert Crown: Hw	1 Foot
Height of Soil above Culvert Crown: H	17 Feet
Culvert Deflection/Ovality:	2% minimum. To be verified by liner designer.
Enhancement Factor: 'K'	7
Modulus of Soil Reaction E's	Follow AASHTO LRFD Bridge Design Specifications (AASHTO, 2012) Article 12.12.3.5.1
Long-term Modulus of Elasticity of CIPP Liner: EL	125,000 psi minimum, 50% of initial value in ASTM F1216. Actual value per the manufacturer can be used. Provide supporting data verified by independent testing.
Factor of Safety: N	2
Flexural Stress	4,500 psi

Base the required structural CIPP wall thickness, at a minimum, on the physical properties listed in this section, under the liner thickness calculations noted above, and in accordance with the Design Equations in Appendix X1 of ASTM F1216.

B.5 Experience and Quality Control

Demonstrate a minimum of five (5) years experience in the installation of cured in place liners by the installation contractor with at least 5 projects in that time totaling over 5,000 feet of installed liner.

Provide an experienced inspector or supervisor, who completed the NASSCO cured-in-place-pipe inspector training class or equivalent and has at least three years experience with cured in place pipe liner installation, to observe the installation of CIPP liner.

Furnish a detailed installation and quality control plan, to be discussed at the preconstruction meeting outlining measures to assure the quality requirements of the contract are met including but not limited to;

- Method of installation including curing methods and resin type.
- Resin/catalyst product names and mixing ratios
- Manufacturer's product literature, and application and installation requirements for materials used in the liner including
    - Maximum, minimum and ideal installation temperatures.
    - Minimum pressure required to hold tube tight to the host conduit and maximum pressure so not damage the tube.
    - Curing times including heat sink effects
    - Maximum pulling forces as applicable
- Manufacturer's product certifications for materials used in the liner including documentation of testing to confirm a minimum 50-year design life for the liner, adherence to applicable ASTM standards and safety data sheets.
- Liner testing compliance.

- Resin to felt ratio by weight requirements.
- Proposed quality controls checks that will be performed and in place by the contractor.
- Product sampling, liner thickness compliance, and notification/resolution of observed liner defects and/or wrinkling observed by the contractor during post lining televising operations.
- Defined responsibilities, as assigned to specific contractor's personnel, for assuring that all the quality assurances are met.
- An outline of specific repair or replacement procedures for potential defects that may occur in the installed CIPP. Provide recommended repair/replacement procedures per the CIPP system manufacturer.
- An odor control plan that will show project specific odors will be minimized at the project site and surrounding area.

B.6 Quality and Inspection Report

Submit a report of the inspection and quality activities performed during and after lining. Complete the report in accordance with NASSCO PACP standards or engineer approved equal.

Provide pre and post lining video inspection files upon completion of the lining. Format files for viewing on a standard PC without additional media software. Perform video work in accordance with NASSCO PACP standards or engineer approved equal.

B.7 Wetout Tube

Provide a wetout tube that has a uniform thickness such that when compressed at installation pressures it will equal or exceed the minimum design CIPP wall thickness, is homogeneous across the entire wall thickness, and contains no intermediate or encapsulated elastomeric layers. Furnish a tube without material in the tube that may cause delamination in the cured CIPP and without dry or unsaturated layers.

B.8 Cured Liner Properties

B.8.1 Color

Provide a tube where the cured interior pipe surface after installation is a light reflective color so that a clear, detailed examination with closed circuit television inspection can be made.

B.8.2 Chemical Resistance

Provide a tube meeting the chemical resistance requirements of ASTM F1216, Appendix X2. Provide samples for testing of tube and resin similar to that proposed for actual construction. It is required that CIPP samples with and without plastic coating meets these chemical testing requirements.

B.8.3 Hydraulic Capacity

Maintain the overall hydraulic profile as large as possible with the CIPP having a minimum of the full flow capacity of the original pipe before rehabilitation. Calculated capacities may be derived using a commonly accepted roughness coefficient for the existing pipe material taking into consideration its age and condition. For this application assume a Manning's value of 0.013 for the existing pipe and 0.010 for the CIPP lined pipe.

B.9 Bypass Plan

Provide a plan of any proposed bypassing or water diversion operations. Size pump or bypass lines of adequate capacity to handle anticipated flows.

C Construction

C.1 General

The department will locate and designate all right of way areas open and accessible for the work and provide rights of access to these points. If a shoulder must be closed to traffic because of the work, institute the actions necessary to do this upon concurrence of the Department for the mutually agreed time period.

Bypass pumping or flow division is the responsibility of the contractor. If dewatering/bypass operations are required from one pipe structure to another 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 any erosion from the discharge velocity that would cause release of sediment downstream. 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 WDNR Technical Standards for Dewatering as applicable. https://dnr.wisconsin.gov/topic/Stormwater/standards/const_standards.html.

C.2 Inspection of Pipeline

Inspect the interior of the pipeline carefully to determine the location of any conditions which may prevent proper installation of CIPP into the pipelines, note these so that these conditions can be corrected. Keep a digital video and suitable log for later reference by the Department.

C.3 Removal of Damaged Culvert

Remove or repair any portion of the existing culvert protruding beyond the interior of the culvert to prevent loss of hydraulic capacity or damage to the installed liner.

C.4 Surface Preparation/Cleaning

Thoroughly clean the interior of the culvert prior the insertion of the liner. High pressure water is the most common method. Utilize hand operated power tools or mechanical equipment where high pressure water does not remove deposits or debris. Properly dispose of all sediment removed from the cleaning process.

C.5 Repair Techniques & Material Installation

Fill any voids in the host pipe that cannot be bridged by a preliner prior to the installation of the CIPP liner. Small gaps and offsets in the pipe culvert joints can be bridged by the CIPP liner. Repair significant gaps and offsets and stop water infiltration that may impact CIPP curing.

C.6 Installation

C.6.1 Preparation of Liner

Designate location where uncured resin in original containers and unimpregnated liner will be vacuum impregnated prior to installation. Allow the engineer to inspect materials and “wet out” procedure.

C.6.2 Resin Impregnation

Impregnate liner tube with resin in a controlled environmental not more than 24 hours before proposed time of installation and store it out of direct sunlight at temperature less than 40 degrees F. Transport resin impregnated liner to site immediately prior to inversion in suitable lightproof container with temperature maintained below 40 degrees F.

Use a sufficient quantity of resin for tube impregnation to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the loss of resin through cracks and irregularities in the original pipe wall. Use a vacuum impregnation process and rollers to thoroughly saturate the felt tube. Place the point of vacuum no further than 25 feet from the point of initial resin introduction to ensure thorough resin saturation throughout the length of the felt tube.

Place vacuum points no further than 75 feet from the leading edge of the resin after vacuum in the tube is established. The leading edge of the resin slug shall be as near to perpendicular as possible. Use a roller system to uniformly distribute the resin throughout the tube. When using an alternate method of resin impregnation, the method must produce the same results. Any alternate resin impregnation method must be documented by the manufacturer and approved by the Department. Keep the wetted-out tube in a refrigerated truck until it is inserted.

Do not deliver or install a resin impregnated liner with signs of premature curing.

C.6.3 Liner Insertion

Install cured-in-place pipe in accordance with ASTM F1216 or ASTM F1743.

Position the wetout tube in the pipeline using either inversion or a pull-in method. If pulled into place, utilize a power winch and exercise care so as not to damage the tube as a result of pull-in friction. The tube should be pulled-in or inverted through an existing sewer access structure or via end of pipe and fully extend to the designated termination point.

If required, provide only lubricants that are non-toxic, have no detrimental impacts on the liner, and will not support the growth of bacteria.

Place thermocouples or similar temperature gauges inside the tube at the invert level of each end to monitor the temperature during the cure cycle.

C.7 Curing Liner

After inversion is complete, provide a heat source with suitable monitors to gauge temperature of incoming and outgoing water supply and provide water recirculation equipment capable of delivering hot water throughout section to uniformly raise water temperature above temperature required to effect cure of resin. Cure and cool by utilizing circulated hot and cold water respectively under hydrostatic pressure in accordance with the manufacturer's recommended cure schedule. Monitor temperature to verify that the curing recommendations from the manufacturer are achieved.

Hold liner tight against the host pipe during curing within the minimum and maximum range of pressures provided by the manufacturer.

Initial cure is completed when inspection of exposed portions of liner are hard and sound and remote temperature sensor indicates that temperature is of magnitude to realize an exotherm. Cure for the duration recommended by resin manufacturer. After initial cure is reached raise and maintain the temperature to the post cure temperature called for by the manufacturer. Consider the existing pipe material, the resin system, and ground conditions (temperature, moisture level, thermal conductivity of the soil).

Cool hardened liner to temperature below 100 degrees F before relieving static head in inversion standpipe. Cool down by introduction of cool water into inversion standpipe to replace water being drained from downstream end. Take care in release of static head so that vacuum will not be developed that could damage newly installed liner.

Once cured, the cured-in-place pipe should be continuous and tight fitting. Cut the pipe liner neatly and smoothly at each end of the host pipe to prevent snagging and collection of debris.

C.8 Quality Control and Testing

Prepare cured liner samples and test physical properties in accordance to ASTM F1216 or ASTM F1743, Section 8, using either method proposed. Test for conformance with the manufacturer's final CIPP design values and the CIPP Design Criteria requirement of this special provision including flexural properties listed. CIPP products in which the pipe wall is cured while not in direct contact with the pressurizing fluid (e.g., a removable bladder) must be tested by an alternative method approved by the Department.

Provide documentation of quality checks performed according to this part and as described in the project quality control plan.

C.9 Workmanship and Inspection

Inspect the cured-in-place pipe for a strong and uniform bond between layers. Test that any two layers can not be separated with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between the layers. Cut new samples from the work if separation of the layers occurs during testing of field samples. Any reoccurrence may cause rejection of the work.

Perform an initial visual inspection with the Department in accordance to ASTM F1743, Section 8.6. Perform final inspection with closed circuit television. Inspect to determine if the CIPP is formed tightly against the pipe sidewall, free of significant visual defects, deflection, holes, leaks and other defects. Inspect for tight seals at the manhole or endwall openings with no annular gaps. Repair areas with evidence of any obstruction, uncured spots, infiltration of groundwater, lifts or incomplete repair by re-lining or spot repair–replacement including street repair with no additional payment. Any excavation or restoration necessary is incidental with no additional payment.

Upon acceptance of the installation work and testing, restore the project area affected by the operations to its original condition.

C.10 Environmental Considerations

CIPP installations involve the use of chemicals and temperatures that could be harmful to aquatic life. As a result, the installation of a CIPP liner requires careful planning and execution to reduce the potential for environmental impacts, especially to the downstream receiving waters. Capture all process water used in the curing. Once cured, thoroughly rinse the liner and properly dispose of the rinse water. Transport the captured waters to a local wastewater treatment facility capable of treating the impacted water. Verify that the local wastewater facilities have the capabilities and capacity to handle the impacted water.

D Measurement

The department will measure Cured in Place Pipe Liner, 42-Inch in place per linear foot.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0210	Cured in Place Pipe Liner, 42-Inch	LF

Payment is full compensation for furnishing all labor, tools, equipment, materials, reports and incidentals, including any required bypass pumping or flow diversion, cleaning of the host pipe, gap, void and offset repair in the host pipe, and disposal of curing and cleaning water necessary to complete the contract work according to the above stated specifications.

13.26 Topsoil Filled Riprap, Item SPV.0180.0200.

A Description

This special provision describes furnishing and placing salvaged topsoil in Riprap Extra-Light according to standard spec 625 and as hereinafter provided.

B Materials

Conform to standard spec 625.2(2).

C Construction

Replace standard spec 625.3.3(1) with the following:

After preparing areas of riprap designated for Topsoil Filled Riprap to the required lines, grades, slopes and cross section. Place salvaged topsoil over the top of riprap and tamp or track after placement to work topsoil into the voids of the riprap. After placement and consolidating, there should be a minimum of 2 inches of salvaged topsoil above the riprap to support vegetation growth.

Replace standard spec 625.3.3(3)

Provide a uniformly textured soil, in which 100 percent of the salvaged topsoil passes a one-inch sieve and at least 90 percent passes a No. 10 sieve.

D Measurement

The department will measure Topsoil Filled Riprap by the square 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.0180.0200	Topsoil Filled Riprap	SY

Payment for the Topsoil Filled Riprap bid item is full compensation for the work identified in this special provision and standard spec 625.5.2.

14. Miscellaneous Concrete.

14.1 Protection of Concrete.

Add to standard spec 415.3.14:

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

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

ner-415-015 (20180326)

14.2 Concrete Barrier Single Slope, Barrier Pad.

The concrete barrier pad placed under Concrete Barrier Type S42 Special and Concrete Barrier Type S56 Special will be paid for as the adjacent concrete pavement type.

15. Signing and Marking.

15.1 Blue Specific Service Signs.

Add the following to standard spec 638.3.4:

Do not remove or move blue specific service signs or their associated posts. Specific service signs are signs with logos that identify commercial entities providing gas, food, lodging, camping, or attractions. A separate contractor, Interstate Logos - Wisconsin, is responsible for these signs. Contact Interstate Logos - Wisconsin at (844) 496-9163 a minimum of 14 calendar days in advance to coordinate removing, moving, or re-installation of these signs.

The contractor is responsible for damage done to these signs due to contractor operations.

stp-638-010 (20150630)

15.2 Fixed Message Sign Portable Support, Item SPV.0060.0400.

A Description

This special provision describes the construction of special portable sign supports for fixed message signs for shielded applications only, as the plans show.

B Materials

Use lumber and hardware conforming to standard spec 634.2.1.

C Construction

Construct, place, maintain, move and remove sign supports at locations as shown in the plans and as directed by the engineer.

D Measurement

The department will measure Fixed Message Sign Portable Support as each individual portable support, 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.0060.0400	Fixed Message Sign Portable Support	EACH

Payment is full compensation for constructing, placing, maintaining, moving and removing the portable support.

15.3 Fire Hydrant Sign Mounting, Item SPV.0060.0405.

A Description

The work under this item shall consist of furnishing and installing a Fire Hydrant Sign Mounting at each fire hydrant hose access location. All work under this item shall conform to section 637 of the standard specifications, the plans and as hereinafter provided.

B Materials

B.1 Mounting Bracket

Provide a sign bracket from a supplier listed below or an approved equal.

Supplier	Product Name
TAPCO 5100 W. Brown Deer Road Brown Deer, WI 53223	Metro Wing Bracket
GRIMCO N16W23390 Stone Ridge Dr. Suite A Waukesha, WI 53188	Metro Wing Street Sign Brackets
SafetySign 64 Outwater Lane Garfield, NJ 07026	Street Name Sign Wing Bracket

B.2 Mounting Hardware

Attach the mounting bracket to the noise wall using stainless steel bolts with self-locking nuts. Provide the following:

- Stainless steel bolts and washers conforming to standard spec 513.2.1.
- Stainless steel self-locking nuts conforming to ASME B18.16.6.

Provide components in accordance to standard spec 637.2.4.2.1 for attaching the sign the mounting bracket.

C Construction

Two mounting brackets are required for each sign location. One bracket to support the top of the sign and the other to support the bottom of the sign.

Attach the mounting bracket to the noise wall in a stable position. Locate the mounting bracket as follows, or as directed by the engineer:

- No more than 2’ from the top of the structure.
- No more than 5’ on either side of a vertical line extending up from the actual fire hydrant access point.

Attach the sign to the mounting bracket in accordance to standard spec 637.3.3.3.

D Measurement

The department will measure Fire Hydrant Sign Mounting as each individual sign mounting, 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.0060.0405	Fire Hydrant Sign Mounting	EACH

Payment is full compensation for furnishing, installing mounting bracket and installing sign in bracket.

The department will pay separately for the sign.

15.4 Removing Pavement Marking.

Perform this work in accordance with standard spec 646.3.1.4 and as hereinafter provided.

Pavement markings required to be removed on permanent pavement (pavement that will remain at the completion of the contract) will be water blasted off the pavement. Other methods of removing the markings off the permanent pavement will not be allowed.

16. Lighting and Electrical.

16.1 General Requirements for Electrical Work.

Contact information for the Wisconsin Department of Transportation Northeast Region

- ITS - Kimberly Bradley, (920) 366-7521 kimberly.bradley@dot.wi.gov
- Traffic Signals – Kimberly Bradley, (920) 366-7521 kimberly.bradley@dot.wi.gov
- Lighting – Matthew Talcott, (920) 360-4749 matthew.talcott@dot.wi.gov

Notify the department's Northeast Region Electrical Unit at (920) 366-7521 at least three (3) weeks prior to beginning the electrical work.

16.2 Notice to Contractor, STH 96 Signal Retiming.

The signal timings at the STH 96 ramp intersections will be modified when Ramp WNA and Ramp WND are closed to traffic. The retiming of the signals will be completed by the Northeast Region's Electrical Unit.

Notify the electrical unit at (920) 366-7521 at least three weeks prior to closing a ramp.

16.3 Notice to Contractor, Coordination with Project 4570-40-71 (S44-0309).

The work required to the IH 41 NB and STH 96 traffic signal (S44-0309) requires coordination with Project 4075-40-71. Signal work in Project 4075-40-71 is expected to occur in Spring of 2026 will include placement of conduit beneath STH 96 and a new traffic signal control cabinet to the west of the existing control cabinet. It is anticipated this work will be completed before June 1, 2026. Modifications to this signal that are part of this contract cannot begin until after work under Project 4570-40-71 is completed and the northbound entrance ramp to IH 41 is closed to traffic.

When the IH 41 northbound entrance ramp is closed, the existing signals for STH 96 eastbound, STH 96 westbound and IH 41 northbound exit ramp traffic shall be maintained at all times.

16.4 Electrical Meetings.

Electrical Kick Off Meeting

No later than 5 working days prior to starting any electrical installation construction activities, arrange and conduct an Electrical Kick Off Meeting between the department, the engineer, and electrical subcontractors to discuss the construction of the electrical elements of the project including traffic signals, roadway lighting systems, Intelligent Transportation Systems (ITS), and all other electrical facilities.

During the electrical kick off meeting, the contractor may be requested to provide additional workplan information related to the electrical installation activities. Upon completion of the electrical kick off meeting and acceptance of any additional requested workplan information, the contractor will be given authorization to proceed with electrical construction activities. The contractor shall not start work on electrical installation activities until after authorization has been given by the engineer.

Additional Electrical Meetings

Arrange and conduct additional electrical progress meetings between the department, the engineer, and electrical subcontractors no later than 5 working days prior to:

1. Energizing new systems.
2. Opening roadway
3. Final inspection

Electrical Meeting Requirements

The contractor shall make meeting requests through the engineer not later than 10 working days prior starting any electrical installation construction activities. The engineer will arrange the meeting location and time. Electrical meetings shall be held during regular working hours between 9:00 AM and 5:00 PM Monday through Friday.

The department shall prepare and distribute an agenda 3 working days prior to the electrical meeting.

At the electrical meeting, prepare to discuss the following information as applicable to the electrical work included in the project:

1. Inspection Expectations.
    a. Project walk-throughs.
    b. Staking and verification of locations.
    c. Location and orientation of cabinet bases.
2. Contractor Work Operations.
    a. Provide names and qualifications of personnel that will be working on the project.
    b. Provide shop drawings, materials documentation, and lead times.
    c. Coordination of electrical service application, installation, and reimbursement.
    d. Locations and elevations of electrical work.
    e. Schedule and operations for contract work – include critical path items and responsible parties.
    f. Electrical work completed by others.
    g. Temporary installations and connections.
    h. End of shift site requirements.
    i. Process for energizing new facilities.
    j. Timely measurement and agreement of quantities.
3. Traffic Control Requirements.
    a. Traffic control requirements.
    b. Roadway lighting requirements for opening roadways.
    c. Staged ITS requirements.
4. Safety

The department will prepare meeting minutes.

The contractor and electrical subcontractor are required to attend all electrical meetings. Electrical meetings are considered incidental to the electrical work.

16.5 Removing Anchor Bolt Cover Shrouds, Item 204.9060.S.0600.

A Description

This special provision describes removing anchor bolt cover shrouds conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Anchor Bold Cover Shrouds by each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.0600	Removing Anchor Bolt Cover Shrouds	EACH

stp-204-025 (20230113)

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

A Description

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

B Materials

Use conduits, 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, or holes, 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 respective 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 installing 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 (20230629)

16.7 Electrical Service for IH 41 NB and STH 96.

A Description

Work under this item shall be in accordance with Section 656 of the Standard Specifications with the following addition.

B Materials

Amend standard spec 656.2.3, Meter Breaker Pedestal Service, paragraph (1) to read as follows:

(1) Furnish an approved service having a meter breaker pedestal, 22,000-AIC circuit breakers unless the local utility requires otherwise, grounding electrodes and connections, conduit and fittings, and all necessary conductors and equipment required by the WSEC and the utility for a service connection. Furnish a pedestal with one (1) 30 A 2-Pole breaker, one (1) 30 A and one (1) 20 A single pole breakers for any meter with shared uses which are intended to provide electrical service for a WisDOT street lighting system as well as a WisDOT traffic signal system. When the meter breaker pedestal is energized, install an approved meter seal at all access points on the meter trough. Meter shall be time of use type.

Amend standard spec 656.2.3, Meter Breaker Pedestal Service, by adding the following paragraph:

(2) Feeder wire between meter pedestal and main panel board shall be routed through the bottom of the cabinet enclosure and within conduit. Entry through the side of the cabinet enclosure is not allowed.

C Construction

The contractor is responsible for making early application for the installation of the electric service lateral.

Contact the local electric company to make application and request a time of use meter. The future monthly invoices can go to the following address:

IH 41 NB and STH 96:

WisDOT Expenditure Acct (S44-0309)

P.O. Box 7366

Madison, WI 53707-7366

Amend standard spec 656.3.2, Service Lateral, paragraph (1) to read as follows:

(1) The local utility shall furnish and install a 200 A, 120/240 volt AC, single phase, 3-wire underground electrical service lateral. Arrange and assume responsibility for the timely installation of the service lateral by the utility. The lateral shall be terminated at a meter pedestal as the plans show.

D Measurement

The department will measure the Electrical Service Meter Breaker Pedestal bid item as each individual service, acceptably completed.

E Payment

In accordance with the plans and standard spec 656.5 of the standard.

16.8 Poles Type 5 Aluminum, Item 657.0322; Poles Type 17 Aluminum, 657.0337.

Replace standard spec 657.2.1.1(6) and add 657.2.1.1(7):

(6) Furnish identification plaques in accordance with the plan numbering. Coordinate with the Northeast Region Electrical Unit for information to be included with pole plaques.

(7) Install PVC rodent screens according to the WisDOT qualified products list https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/prods/misc.aspx for all structure mounted light poles, FTMS cameral poles, monotubes or as directed by the engineer in the field.

16.9 Luminaires Utility LED B, Item 659.1120; Luminaires Utility LED C, Item 659.1125.

Add the following to standard spec 659.2 Materials:

Furnish luminaires capable of operating at 480V.

16.10 Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.

A Description

This special provision describes the detachment and packaging of lamps, ballasts, LEDs, and mercury containing switches (e.g., overhead roadway lighting, underdeck bridge, wall packs, pedestrian signals, traffic control stop lights and warning flashers, fluorescent bulbs, and thermostats) removed under this contract for disposal as hazardous materials.

For Lamp, Ballast, LED, Switch Disposal by Contractor, coordinate removal from the work site by the department's hazardous waste disposal vendor. Disposal will be billed to the department by the hazardous waste disposal vendor.

B Materials

B.1 Disposal by Contractor

Items removed under this contract will be considered the property of the department for waste generator identification. The contractor is responsible for coordinating with the department's hazardous waste vendor for disposal:

https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/hazwaste-contacts.pdf

C Construction

C.1 Removal

Arrange for the de-energizing of luminaires after receiving approval from the engineer that the existing luminaires can be removed. Do not remove luminaires that cannot be replaced with proposed LED units and operational within the same workday. The new LED units need to be operational prior to sunset of the same workday.

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure. Avoid breaking fixtures whenever possible.

Lamps, ballasts, LED, and switches will become property of the department, and will be disposed of in an environmentally sound manner.

C.2 Packaging of Hazardous Materials

Provide a secure, level location removed from the travelled way for storage of the material for disposal.

Pack intact fixtures in the packaging of the new lamps used to replace them, or packaging affording the equivalent protection. Place in full, closed stackable cartons.

Pile cartons no more than four high if palletized and secure cartons with shrink wrap to prevent shifting or falling of the loads. Clearly mark each pallet with the words “Universal Waste Lamps” or “Universal Waste Ballasts”, the date, and the number of fixtures on each pallet.

Pack broken fixtures into (min.) 6 mil thick plastic bags and place inside sturdy cardboard boxes or the equivalent. Mark the outer packaging with the term “Broken Fixtures/Lamps”, the date and the number of broken fixtures clearly marked on the box.

The hazardous waste vendor will not accept fixtures improperly packaged. The vendor will reject any fixtures not removed as part of a contract pay item or otherwise required under this contract.

Pack ballasts and mercury containing switches in appropriate containers.

C.3 Disposal by Contractor

Complete the lamp and ballast inventory (https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/dotlampballastinventory.dotx) and contact the hazardous waste vendor to coordinate pickup and disposal at a location specified by the contractor. Consolidate all pallets and boxes from one project at a single location. Contact the hazardous waste vendor to set up an appointment for pickup. The hazardous waste vendor requires a minimum of one week advance notice to schedule pickup.

D Measurement

The department will measure Lamp, Ballast, LED, Switch Disposal by Contractor as each individual unit removed and received by the hazardous waste vendor, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

The department will measure Lamp, Ballast, LED, SWITCH Disposal by Department as each individual unit removed and delivered to the department, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH

Payment for Lamp, Ballast, LED, Switch Disposal by Contractor is full compensation for detachment, handling, packaging, labeling and scheduling disposal with the hazardous waste vendor; and scrapping and disposal of all other materials.

stp-659-500 (20220628)

16.11 Anchor Bolt Cover Shroud, Item SPV.0060.0500.

A Description

This work shall be in accordance with the requirements of standard spec 657, the plans, standard detail drawings, and as hereinafter provided.

B Materials

Furnish aluminum cover shroud in accordance with the plans and standard spec 657.2.6 and as hereinafter provided:

Housing and cover plate shall be 12-gauge aluminum. Rivets for attaching the cover plate to the housing shall be aluminum and sized in accordance with the specifications determined by the fabricator of the unit. Provide nonmetallic washers between cover shroud and steel lock washer.

C Construction

In accordance with the plans and standard spec 657.3 and as hereinafter provided:

Follow all manufacturer installation guidelines for installation of cover shroud and accessories. Apply silicone sealant between the top of the cover shroud body and the aluminum cover plate.

Cover shrouds shall be installed at the locations noted on the plans for streetlights 200, 201 and 202.

D Measurement

The item will be measured Anchor Bold Cover Shroud as each individual shroud, 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.0060.0500	Anchor Bolt Cover Shroud	EACH

Payment is full compensation for transporting all materials and installing a complete unit.

16.12 Remove Traffic Signal IH 41 NB and STH 96 (S44-0309), Item SPV.0060.0600; Remove Traffic Signal IH 41 SB and STH 96 (S44-1403), Item SPV.0060.0605.

A Description

This work shall consist of removing the existing traffic signal equipment from the intersection of IH 41 SB & STH 96 and IH 41 NB & STH 96 in accordance with the requirements of standard spec 657 and 658, standard detail drawings, and as hereinafter provided.

B (Vacant)

C Construction

After coordination with the NE Region Electrical Unit, Kim Bradley (920) 366-7521, the existing traffic signal equipment shall be disconnected from the concrete bases and transported off site to the electrical subcontractor facilities and/or to a recycling/garbage facility.

D Measurement

The department will measure Remove Traffic Signal bid item as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0600	Remove Traffic Signal IH 41 NB and STH 96 (S44-0309)	EACH
SPV.0060.0605	Remove Traffic Signal IH 41 SB and STH 96 (S44-1403)	EACH

Payment is full compensation for removal and transporting to the appropriate facility.

16.13 Concrete Bases Type 7 Tall, Item SPV.0060.0615.

A Description

This special provision describes constructing Concrete Bases Type 7 Tall mainline median mounted lighting units. This work shall be in accordance with the requirements of section 654 of the Standard Specifications, the plans, standard detail drawings, and as hereinafter provided.

B Materials

In accordance with the plans and standard spec 654.2.

C Construction

In accordance with the plans and standard spec 654.3.

D Measurement

The department will measure Concrete Bases Type 7 Tall as each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0615	Concrete Bases Type 7 Tall	EACH

Payment for the bases bid item is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor rods, nuts and washers; for bar steel reinforcement; for excavating, backfilling, restoring asphaltic surfaces, and disposing of surplus materials.

17. ITS.

17.1 Intelligent Transportation Systems (ITS), Control of Materials.

Standard spec 106.2 – Supply Source and Quality

Add the following to standard spec 106.2:

The department will furnish a portion of equipment to be installed by the contractor. This department-furnished equipment includes the following:

Department-Furnished Items
Camera Assembly
Microwave Detector Assembly
Pole Mounted Cabinet
Small Pole Mounted Cabinet
Ethernet Switch
Small Form Pluggable
Ethernet Extender
Fiber Optic Termination (12-CT Panel)
Fiber Optic Cable Outdoor Plan 12-CT
Fiber Optic Cable Outdoor Plan 72-CT

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Traffic Management Center (TMC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the Statewide ITS Engineer, Dean Beekman at (414) 227-2154 to coordinate pick-up of equipment.

Pick up cabinets and solar power systems, including batteries, at the department's TMC equipment storage facility at 633 W. Wisconsin Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact Dean Beekman to coordinate pick-up of equipment.

Large department-furnished equipment, such as camera poles and dynamic message signs will be delivered by the supplier to a contractor-controlled site identified by the contractor. Delivery will not necessarily be in a "just in time" manner. Store the equipment until field installation.

Within two weeks of Notice to Proceed, contact the engineer and Dean Beekman. Provide the address and contact information for the contractor-controlled location for delivery and the desired delivery schedule for the large state-furnished materials.

Transportation of the equipment between the electric shop and the field or interim locations are the responsibility of the contractor.

Standard spec 106.3 – Approval of Materials

Add the following to standard spec 106.3:

Design/Shop Drawings

Before the purchase and/or fabrication of any of the components listed herein, and for any non-catalog item shown on the Material and Equipment List specified above, and no more than 30 days after notice to proceed, submit five copies of design drawings and shop drawings, as required, to the department for

review. The items and the drawings that represent them shall meet the requirements of the standard specifications.

Design drawing submissions shall consist of signed and certified designs, design drawings, calculations, and material specifications for required items.

Shop drawings will be required for, but not limited to the following:

1. Mounting assemblies for the vehicle speed and classification sensors, including their attachment to the structure.
2. Mounting LED warning signs to the sign structure.
3. Mounting detail for dynamic message signs.
4. Any contractor-designed structure or foundation.

The department will complete its review of the material within 30 days from the date of receipt of the submission, unless otherwise specified. The department will advise the contractor, in writing, as to the acceptability of the material submitted. The department may determine that if no exceptions were taken for the item, it is approved, and no further action is required by the contractor; or the item may be partially or totally rejected, in which case modify and/or amend the submittal as required by the department and resubmit the item within 14 days. At this time, the review and approval cycle described above will begin again.

stp-670-005 (20230629)

17.2 Intelligent Transportation Systems, General Requirements.

A Description

A.1 General

This special provision describes providing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as the plans show.

Unusual aspects of this project include:

1. The project includes working on cables and equipment that are carrying data between roadside equipment and the department's Traffic Management Center (TMC). Interruption of this service is not expected to perform this work. If an interruption is determined necessary, it must be done on a weekend, and must be done in a way that minimizes communication outages for the existing equipment. Notify the department's TMC at least 48 hours in advance of the planned interruption.
2. The department will furnish some of the equipment to be installed. Make a reasonable effort to discover defects in that equipment before installing it.

A.2 Surge Protection

Equip every ungrounded conductor wire entering or leaving any equipment cabinet with a surge protector. For purposes of this section, multiple cabinets on a single pole or foundation are considered a single cabinet.

B Materials

B.1 General

Only furnish equipment and component parts for this work that are new and have high quality workmanship. All controls, indicators, and connectors shall be clearly and permanently labeled in a manner approved by the engineer. All equipment of each type shall be identical.

All electrical equipment shall conform to the standards and requirements of the Wisconsin Electrical Code, the National Electrical Manufacturers Association (NEMA), National Electric Safety Council (NESC), Underwriter's Laboratory Inc. (UL) or the Electronic Industries Association (EIA), when applicable. All materials and workmanship shall conform to the requirements of the National Electrical Code (NEC), Rural Electrification Administration (REA), Standards of the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), requirements of the plans these special provisions, the standard specifications, and to any other codes, standards, or ordinances that may apply. All system wiring, conduit, grounding hardware and circuit breakers shall be in conformance with the National Electrical Code. Whenever reference is made to any of the standards mentioned, the reference shall be considered to mean the code, ordinance, or standard that is in effect at the time of the bid advertisement.

B.2 Outdoor Equipment

All conductive connectors, pins (except pins connected by soldering), and socket contacts shall be gold plated. Acrylic conformal coating shall protect each circuit board side that has conductive traces. Except for integrated circuits containing custom firmware, all components shall be soldered to the printed circuit board.

To prevent galvanic corrosion, all connections between dissimilar metals shall incorporate a means of keeping moisture out of the connection. Where the connection need not conduct electricity, interpose a non-absorbing, inert material or washer between the dissimilar metals. Use nonconductive liners and washers to insulate fasteners from dissimilar metals. Where the connection must conduct electricity, use a conductive sealant between the dissimilar metals. Alternatively, use an insulating gasket and a bond wire connecting the two metal parts.

B.3 Custom Equipment

Equipment that is not part of the manufacturer's standard product line, or that is made or modified specifically for this project, shall conform to the following requirements:

Where practical, electronics shall be modular plug-in assemblies to facilitate maintenance. Such assemblies shall be keyed to prevent incorrect insertion of modules into sockets.

All components shall be available from multiple manufacturers as part of the manufacturers' standard product lines. All must be clearly labeled with the value, part number, tolerance, or other information sufficient to enable a technician to order an exact replacement part.

Lamps used for indicator purposes shall be light-emitting diodes.

The printed circuit boards shall be composed of "two-ounce" copper on 1/16 inch thick fiberglass epoxy or equivalent type construction. Holes that carry electrical connections from one side of the boards to the other shall be completely plated through. Multilayer printed circuit boards shall not be used. The name or reference number used for the board in the drawings and maintenance manuals supplied to the department shall be permanently affixed to each board.

All components shall be mounted so that the identifying markings are visible without moving or removing any part, if practical.

B.4 Environmental Conditions

Equipment shall continue to operate as specified under the following ranges of environmental conditions, except as noted in the specifications for individual pieces of equipment.

1. **Vibration and Shock:** Vehicle speed and classification sensors and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2. **Duty Cycle:** Continuous
3. **Electromagnetic Radiation:** The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.
4. **Electrical Power:**
    - 4.1. **Operating power:** The equipment shall operate on 120-volts, 60-Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies +3 Hz.
    - 4.2. **High frequency interference:** The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and 10 microseconds duration.
    - 4.3. **Line voltage transients:** The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.
5. **Temperature and Humidity:**
    - 5.1. **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.
    - 5.2. **Equipment in Controlled Environments:** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity's between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

B.5 Patch Cables and Wiring

All cables and wiring between devices installed in a single cabinet, or in separate cabinets sharing a single concrete base, will be considered incidental to the installation of the devices and no separate payment will be made for them. It is anticipated that this will include fiber optic patch cables between termination panels and Ethernet switches, 10 / 100 MBPS Ethernet cables, RS-232 cables between individual devices and terminal servers, and power cables between individual devices and power sources within the cabinets.

B.6 Surge Protection

Low-voltage signal pairs, including twisted pair communication cable entering each cabinet shall be protected by two-stage, plug-in surge protectors and shall be installed on both ends of camera control cables. The protectors shall meet or exceed the following minimum requirements:

1. The protectors shall suppress a peak surge current of up to 10k amps.
2. The protectors shall have a response time less than one nanosecond.
3. The protector shall clamp the voltage between the two wires at a voltage that is no more than twice the peak signal voltage and clamp the voltage between each wire and ground at 50 volts.
4. The first stage of protection shall be a three-element gas discharge tube, and the second stage shall consist of silicon clamping devices.
5. The protector shall also contain a resettable fuse (PTC) to protect against excessive current.
6. There shall be no more than two pairs per protector.
7. It shall be possible to replace the protector without using tools.

Cables carrying power to curve signs shall be protected at the cabinet by grounded metal oxide varistors of appropriate voltages. The varistors must be at least 0.8 inch in diameter.

C Construction

C.1 Thread Protection

Provide rust, corrosion, and anti-seize protection at all thread assemblies of metallic parts by coating (non-spray) the mating surfaces with an approved compound. Failure to use an approved compound will result in no payment for the items to which coating was to have been applied.

C.2 Cable Installation

When installing new cables into conduits containing existing cables, remove the existing cables and reinstall the existing cables simultaneously with the new cables. Take every precaution necessary to protect the existing cables. In the event of avoidable damage to the existing cables, replace all damaged cables, in-kind, at no additional expense to the department. When cables are pulled into conduit, use a cable pulling lubricant approved by the cable manufacturer. Submit documentation supporting manufacturer approval of the lubricant to the engineer.

C.3 Wiring

Every conductor, except a conductor contained entirely within a single piece of equipment, must terminate either in a connector or on a terminal block. Provide and install the connectors and terminal blocks where needed, without separate payment. Use approved splice kits instead of connectors and terminal blocks for underground power cable splices.

Permanently label and key connectors to preclude improper connection. Obtain prior engineer approval for labeling methods before use.

Terminal blocks must be affixed to panels that permanently identify the block and what wire connects to each terminal. This may be accomplished by silk screening or by installing a laminated printed card under the terminal block, with the labels on portions of the card that extend beyond the block. Installation of terminal blocks by drilling holes in the exterior wall of the cabinet is not acceptable.

Use barriers to protect personnel from accidental contact with all dangerous voltages.

Do not install conductors carrying AC power in the same wiring harness as conductors carrying control or communication signals.

Arrange wiring, including fiber optic pigtails, so that any removable assembly can be removed without disturbing wiring that is not associated with the assembly being removed.

Communication and control cables may not be spliced underground, except where indicated on the plans.

Cables in the Traffic Management Center (TMC) or in communication hubs, which are not contained within a single cabinet, shall have at least 10 feet of slack.

C.4 System Operations

If the contractor's operations unexpectedly interrupt Intelligent Transportation Systems (ITS) service, notify the engineer immediately and restore service within 24 hours. Repair all damaged facilities to the condition existing before the interruption. If service is not restored within 24 hours, the department may restore service to any operating device and deduct restoration costs from payments due the contractor.

C.5 Surge Protection

Arrange the equipment and cabinet wiring to minimize the distance between each conductor's point of entry and its protector. Locate the protector as far as possible from electronic equipment. Ensure that all wiring between the surge protectors and the point of entry is free from sharp bends.

D Measurement

The department will not measure the work performed under this special provision.

E Payment

The department will pay for the work performed under this special provision under the contract ITS bid items.

stp-670-010 (20230629)

17.3 Removing Communication Vault, Item 204.9060.S.0700.

A Description

This special provision describes removing Communication Vaults conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Communication Vault by the unit, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.0700	Removing Communication Vault	EACH

stp-204-025 (20230113)

17.4 Ramp Closure Gates 37-FT, Item 662.1037.S; Ramp Closure Gates 40-FT, Item 662.1040.S.

A Description

This special provision describes providing freeway on-ramp closure gates on type 5 steel luminaire poles.

B Materials

B.1 General

Provide five user manuals and a listing of vendors and contact information for each manufactured component including flasher electrical components.

The engineer may allow alternates equal to specified manufactured components. The engineer may require plan detail modifications to accommodate alternates. The engineer may accept alternate arms or mounting adaptors only if the contractor can demonstrate that the department can easily remove and replace the arms.

B.2 Components

Furnish type 5 steel poles designed to carry twin 15-foot luminaire arms and conforming to standard spec 657 and with dimensions for acceptable installation of the ramp gate hardware as shown on the detail. Ensure a contiguous pole by eliminating the hand hole near base of pole, thus allowing uninhibited mounting of the gate pivot assembly.

Furnish galvanized steel nuts and bolts conforming to ASTM A307 except where designated as high strength (HS), conform to ASTM F3125. For the ramp closure gate locking mechanism, furnish a 3/4-inch handle nut.

Furnish grade A36 steel for the gate supports, gate pivot assembly, and associated hardware galvanized after fabrication by either a mechanical or hot-dip process. Grind welded connections, rough edges, and burrs smooth before galvanizing to ensure a finished appearance. Ensure that the galvanized coating conforms to ASTM A 153.

Provide aluminum/fiberglass gate arms of the nominal length the bid item indicates and conforming to plan dimensions. Cover gate arms on two sides with alternating red and white shop-applied type H reflective from the department's approved products list. Also provide a shear pin base that is the manufacturer’s "permanent pivot" style. Obtain components from:

B&B Roadway
15191 Hwy 243
Russellville, AL 35654
Tel: (888) 560-2060
Gate arm: Model MU605

Furnish a worm gear winch with a single line vertical lift capacity of 2000 lbs. Ensure that the winch has hardened steel gears, a handgrip, permanently lubricated bearings, a reinforced arc-welded reel assembly, and mounting plate. Ensure that the winch can be mounted to the winch mount plate shown on the construction details and the handgrip can be operated without conflict with the pole or ramp gate assembly. Furnish a 2-inch outdoor rated, rot resistant polyester strap for the connection between the worm gear winch and the gate arm pivot assembly.

C Construction

Provide ramp closure gate at the locations the plans show. Apply marine grade anti seize compound to all bolt threads and to the interface between the aluminum base and steel pole. The engineer may direct adjustment of the gate arm assembly to ensure the correct vertical and angular orientation of the completed closure gate.

Install structure identification plaques in the location the plan details show.

D Measurement

The department will measure the Ramp Closure Gates bid items as each individual installation, 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
662.1037.S	Ramp Closure Gates 37-FT	EACH
662.1040.S	Ramp Closure Gates 40-FT	EACH

Payment for the Ramp Closure Gate bid items is full compensation for providing ramp closure gates including support poles; for gate arm assemblies including guides, collars, and gate arms; and for structure identification plaques.

stp-662-005 (20191121)

17.5 Install Pole Mounted Cabinet, Item 673.1225.S.

A Description

This special provision describes installing department furnished aluminum enclosures on poles for intelligent transportation systems equipment.

B Materials

Use stainless steel bolts, nuts, and washers unless otherwise specified.

All conductors, terminals, and parts that could be hazardous to maintenance personnel shall be protected with suitable insulating material.

The cabinet will be equipped with service panels. Two panels shall be provided and mounted on the cabinet sidewalls. The left side panel shall be designated as "Input/Communications," and the right side panel shall be designated as the "Service Panel."

The service panel will be equipped with a four-outlet handi-box. Wire the handi-box to the series portion of the filtering surge protector.

Use metallic conduit, fittings, and adapters required from the underground conduit transition point to the cabinet as part of this item. A typical installation requires on 2-inch conduit. Use metallic conduit conforming to standard spec 652.

C Construction

Coordinate receiving the cabinet from the department's vendor and protect and store the cabinet between receiving the cabinet and installing as shown on the plans. Note and photograph any damage to the cabinet upon receipt and notify the engineer and the Statewide ITS Engineer of any damage.

Fasten the field cabinet securely onto a pole. Provide bolted stainless steel connections with lock washers, locking nuts, or other engineer-approved means to prevent the connection nuts from backing off. Isolate dissimilar materials from one another using stainless steel fittings. Make all power connections to the cabinet as specified in standard spec 656.

Drill and tap the cabinet, as necessary, to mount the terminal blocks and other attachments to the service panel, to provide an entrance on the back of the cabinet for cable from the pole mounted intelligent transportation systems equipment, and to mount the service panel to the cabinet as shown in the details. Remove all sharp edges or burrs, or both, caused by the cutting or drilling process. Seal all openings to prevent water from entering the cabinet. Mount the surge protector to the service panel.

Install metallic conduit on the exterior of the pole (for entrance to the cabinet from the ground) as the plans show, and according to the applicable requirements of standard spec 652.

D Measurement

The department will measure Install Pole Mounted Cabinet as each individual assembly, 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
673.1225.S	Install Pole Mounted Cabinet	EACH

Payment is full compensation for storing the pole mounted cabinet, installing the pole mounted cabinet; for making all connections and conduit/wire entrances; and for all testing.

stp-673-010 (20230629)

17.6 Salvaging Ramp Gate System, Item SPV.0060.0700.

A Description

This special provision describes salvaging a ramp gate system.

B Materials

The existing ramp gate system consists of a transformer base, pole, gear winch with cable, yoke assembly, gate pivots, supports, guides, collar, gate arm, bumper rods, and flashing LED lights, pedestal base, traffic signal standards, cabinets, solar power system, and all associated hardware.

C Construction

The department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, and found to be damaged or not working shall be replaced by the contractor at no cost to the department.

Disconnect all cables and remove the ramp gate system from the concrete base. Associated traffic signal standard, pole mounted cabinet, and solar power system are included with the salvaging ramp gate system item. Dispose of the underground cable. Safeguard all parts from damage or loss. Collect the materials as follows:

- Poles – laid on an even, horizontal surface.
- Winches, pivots, guides and transformer bases – neatly bound on pallets.
- Cable and wire – coiled on a cable reel or neatly coiled on pallets.
- Hardware – in 5-gallon pails or burlap sacks.

Contact Kimberly Bradley at 920-492-4174 to make delivery arrangement at least 5 working days prior to delivery of salvaged materials. Deliver salvaged materials to the department at 944 Vanderperren Way, Green Bay, WI 54304.

Dispose of all materials not designated for salvage as specified for disposing of materials under standard spec 203.3.5. Removal and disposal of the components is incidental to the work.

D Measurement

The department will measure Salvaging Ramp Gate System as each individual salvaged system, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0700	Salvaging Ramp Gate System	EACH

Payment is full compensation for collecting, removing, storing, and disconnecting, disposing of cabling, disposal of damaged or non working equipment, and hauling and unloading to the designated location.

17.7 Adjusting Communication Vault, Item SPV.0060.0705.

A Description

This special provision describes Adjusting Communication Vaults.

B Materials

Furnish adjustment materials in conformance with the QPL for Communication Vault Type Round.

C Construction

Extension option of up to 12 inches as shown in Communication Vault Type Round Standard Detail Drawing.

Excavate, adjust subsurface components, and backfill as required to bring vault to level grade. Dispose of surplus or unsuitable material as specified under standard spec 205.3.12.

D Measurement

The department will measure Adjusting Communication Vaults as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0705	Adjusting Communication Vaults	EACH

Payment is full compensation for providing required materials for adjusting; resetting the vault elevation; and for removing, reinstalling and adjusting covers. Replace covers rendered unusable by the contractor’s operations.

17.8 Install Ethernet Extender, Item SPV.0060.0710.

A Description

This special provision describes installing an ethernet extender.

B Materials

The department will furnish ethernet extenders.

Furnish cables and connectors required to connect department-furnished ethernet switches and ethernet extenders or other devices.

C Construction

Install ethernet extenders in new or existing field cabinets. Connect to the devices the plans show or engineer directs.

D Measurement

The department will measure install Ethernet Extender as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0710	Install Ethernet Extender	EACH

Payment is full compensation for installing the devises; for cables and connectors; and connecting the devises.

17.9 Salvaging Microwave Detector Equipment, Item SPV.0060.0715.

A Description

This special provision describes removing and salvaging a mounted controller microwave detector assembly.

B (Vacant)

C Construction

Carefully remove the existing microwave detector assembly at the location indicated on the drawings. Remove mounting hardware associated with the microwave detector assembly. Disconnect all wiring connected to the microwave detector assembly back to the control cabinet. Use caution not to damage any existing devices or processor assembly.

Prior to salvaging, the Field System Integrator must determine if the ITS equipment is fully functional. If any part of the ITS equipment is found to not meet original manufacturer's specifications, contact the department's Traffic Management Center at (414) 227-2166.

Disconnect all cables and wiring. Salvage and store the microwave detector equipment. The department will pick up to the microwave detector equipment. Contact Traffic Management Center staff at (414) 227-2166 at least 5 working days prior to when material is ready to be picked up. Properly dispose of the cabling and wiring away from the project site.

Storage and protection of the salvaged materials prior to pickup is the responsibility of the contractor and is included with this item.

Any materials which are lost or damaged during salvaging or storage shall be repaired or replaced by the contractor at the expense of the contractor or will be repaired or replaced by the department at the expense of the contractor, as determined by the engineer.

D Measurement

The department will measure Salvaging Microwave Detector Equipment as each unit, acceptably salvaged.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0715	Salvaging Microwave Detector Equipment	EACH

Payment is full compensation for removing of the microwave detector assembly; disconnecting any necessary wiring; removing the equipment mounted on the existing pole; and disposing of cabling and wiring.

17.10 Salvaging Wireless Antennas, Item SPV.0060.0720.

A Description

This special provision describes removing and salvaging wireless antennas.

B (Vacant)

C Construction

Carefully remove the existing wireless antennas at the location indicated on the drawings. Remove mounting hardware associated with the wireless antenna. Disconnect all wiring connected to the antenna back to the control cabinet. Use caution not to damage any existing devices or processor assembly.

Prior to salvaging, the Field System Integrator must determine if the ITS equipment is fully functional. If any part of the ITS equipment is found to not meet original manufacturer's specifications, contact the department's Traffic Management Center at (414) 227-2166.

Disconnect all cables and wiring. Salvage and store the wireless antenna equipment. The department will pick up to the wireless antenna equipment. Contact Traffic Management Center staff at (414) 227-2166 at least 5 working days prior to when material is ready to be picked up. Properly dispose of the cabling and wiring away from the project site.

Storage and protection of the salvaged materials prior to pickup is the responsibility of the contractor and is included with this item.

Any materials which are lost or damaged during salvaging or storage shall be repaired or replaced by the contractor at the expense of the contractor or will be repaired or replaced by the department at the expense of the contractor, as determined by the engineer.

D Measurement

The department will measure Salvaging Wireless Antennas as each unit, acceptably salvaged.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0720	Salvaging Wireless Antennas	EACH

Payment is full compensation for removing of the wireless antenna; disconnecting any necessary wiring; removing the equipment mounted on the existing pole; and disposing of cabling and wiring.

18. Miscellaneous and Incidental Construction.

18.1 Noise Barriers Double-Sided Sound Absorptive N-44-11, Item 541.0300.S.0951; Noise Barriers Double-Sided Sound Absorptive N-44-20, Item 541.0300.S.0952.

A Description

This special provision describes designing, fabricating, transporting, and erecting composite concrete double-sided sound absorptive noise barriers as the plans show and conforming to department-approved installation specifications.

B Noise Wall System

B.1 System Pre-Qualification and Selection

The noise wall system supplied must be pre-qualified by the department. The department maintains a list of pre-qualified systems which can be viewed online at:

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

Systems eligible for use on this project shall be pre-qualified before the award of this contract.

Provide the name of the selected system, and the intended fabricator to the engineer within 25 days after award of the contract. Schedule a pre-design meeting with the engineer subsequent to award of the contract and before beginning design of the noise barrier. A representative of the fabricator of the noise barrier components shall attend this meeting.

B.2 Design

B.2.1 Structural and Foundation Design

The structural and foundation design of the noise barrier system shall conform to the current edition of "AASHTO LRFD Bridge Design Specifications" published by the American Association of State Highway and Transportation Officials (AASHTO), 444 North Capitol Street, NW, Suite 225, Washington, DC 20001, with the following exceptions:

The minimum design wind pressure shall be 35 pounds per square foot (Strength III) for ground mounted noise barriers and 40 pounds per square foot (Strength III) for structure mounted noise barriers, unless specified otherwise on the plans. For ground and structure mounted noise barriers, the minimum Service I design wind pressure shall be 15 pounds per square foot. All wind loads shall be applied perpendicular to the barrier, alternately in each direction.

Design drilled shaft foundations using the Broms Method or the p-y Method. Ignore the top 1 foot of supporting soil in the design of ground-mounted barrier foundations.

In addition to wind loads, design the bottom noise barrier panel to support the dead load (weight) of the panels directly above it and its own dead load. Assume this dead load to be distributed uniformly across the bottom panel acting as a simple beam supported at the posts.

Bottom noise barrier panels shall have a minimum amount of perimeter reinforcement of a #4 bar which shall be continuous around the corners. Reinforcing steel in the concrete core of noise barrier panels shall have a minimum clear cover of 1 inch. Clear cover does not include sound absorptive material. Design the reinforced concrete core to resist the loads without considering any composite action from other material in the panel.

Provide a neoprene bearing pad or equivalent material of 1/4 inch minimum thickness between the foundation and the bottom panels. The allowable bearing stress shall not exceed 900 psi. Precast concrete pedestals placed between the foundation and bottom panels shall be reinforced if over 1’-0" high. The bearing pads shall be preformed EPDM rubber conforming to ASTM D-2000, Grade 2, Type A, Class A with a minimum Durometer Hardness of 80.

B.2.2 Fire Hose Access Openings

Design fire hose access openings, at locations the plans show, with additional reinforcement and clear cover around the opening as necessary to maintain structural integrity. Detail drawings shall show the additional reinforcement and method for attaching the Fire Hydrant Location Signs to the barrier panel.

B.2.3 Barrier Profile

Unless the plans show or the engineer approves otherwise, design the top of the noise barrier to be horizontal and at or above the acoustic elevation line the plans show. The bottom elevation of the noise barrier shall be as the plans show. Changes in elevation shall be accomplished by stepping sections at posts. Steps shall not exceed 3-feet in height. All joints shall be horizontal or vertical and shall be aligned with the adjacent panels.

B.2.4 Panel Orientation

Design the panels to prevent entrapment and ponding of water. Avoid inadvertently providing areas for perching, nesting of birds or collecting of dirt and debris in the design of the noise barrier system.

B.2.5 Sound Transmission Loss (TL)

Design the noise barrier panel material to achieve a transmission loss equal to or greater than 20 decibels in all test frequency bands, as referenced in ASTM E90.

B.2.6 Noise Reduction Coefficient (NRC)

Design the noise barrier system so that the highway sides of the noise barrier panels have a minimum NRC of 0.80 and the residential sides have a minimum NRC of 0.70 as referenced in ASTM C423.

B.2.7 Design Coordination

Design the noise barrier post spacing so as not to interfere with proposed utility and drainage facilities the plans show. This includes proposed roadway lighting and ITS facilities.

For noise barriers mounted behind or near proposed retaining walls, coordinate and design the noise barrier post spacing so as to not interfere with embedded portion of the proposed retaining walls, including MSE wall soil reinforcement and tieback anchors on soldier pile and timber lagging retaining walls.

For noise barriers mounted on proposed bridges and retaining walls, coordinate and design the noise barrier post spacing to coincide with noise barrier post and embedded noise barrier anchor assembly spacing shown on the bridge and retaining wall plans. Coordinate any required changes to the noise barrier post spacing and embedded noise barrier anchor assembly locations shown on the bridge and retaining wall plans, if required for the design of the noise barrier.

B.2.8 Weep Hole Openings

Design panels such that weep hole openings in noise wall to allow water to drain can be field installed per C.3 at locations the plans show.

B.2.9 Maintenance Doors

Design maintenance doors and door portals in noise walls, at locations the plans show, with additional reinforcement and clear cover around the opening as necessary to maintain structural integrity per B.2.1.

B.3 Materials

Required material certifications and testing are the responsibility of the contractor. All certifications and test reports shall carry the name and address of the fabrication facility where the specific material was produced.

B.3.1 Concrete Masonry

Provide grade A concrete conforming to standard spec 501 as modified in standard spec 716 for concrete posts and the core component of composite concrete sound absorbing panels. Provide QMP for class II ancillary concrete as specified in standard spec 716.

B.3.2 Materials Testing General

All test reports shall carry the name and address of the laboratory where testing was performed, and the name of the person in responsible charge of the specific tests for which data is presented. Materials tested shall be representative of materials manufactured for this specific contract. Panels tested or from which samples will be taken will be selected and appropriately marked by the engineer either at the manufacturer's plant or from panels delivered to the project at the engineer's option.

Testing as detailed below is required for each lot of material not to exceed 100,000 SF of noise barrier produced. Conduct testing on panels within the first 30,000 SF of production of each lot not exceeding 100,000 SF. For projects that do not exceed 100,000 SF, a minimum of two lots of material will represent the project, each lot representing equivalent square footage. The first set of tests conducted for projects that do not exceed 100,000 SF shall be within the first third of the total square footage of the project. Provide the shipping record of the samples to the laboratory within five days of sampling. Begin testing as soon as practicable after sampling.

Test all materials as fabricated, including any specified finishing.

B.3.2.1 Noise Reduction Coefficient (NRC)

Test noise barrier panels according to ASTM C423, and placed according to ASTM E795, mounting type A, to determine the noise reduction coefficient (NRC) of the material. Submit to the engineer an independent laboratory test report that shows that the noise barrier panels achieve an NRC as specified in B.2.6 for the highway side of the barrier.

B.3.2.2 Long-term Durability

Test all sound absorbing composite concrete and composite concrete components for long-term durability according to ASTM C672 and the following modifications and/or requirements:

B.3.2.2.1 Test Specimens

Three specimens of a full cross section of the composite panel at least 144 square inches in face area will be selected at random from the provided composite panel as defined in B.3. Sample specimens shall be representative of the manufacturer's continuous production operation, as selected and marked by the engineer. Specimens shall be 2D-symmetric and shaped according to the testing laboratory's accommodations.

Prepare the surfaces of the sample specimens for testing as follows. Brush the surfaces of the sample to remove any loose particles. Before testing, submerge the test specimens be submerged in water for a period of 24 hours before testing. Immediately following this, cover the specimens with the sodium chloride solution as stated below.

B.3.2.2.2 Test Procedure

Place samples in a 5 sided water tight container, fully submerged in a solution of sodium chloride (concentration 3% by mass). Maintain 1/4 inch of sodium chloride solution above the top surface of the fully submerged specimen within the container.

Subject the submerged specimens to continuous freeze-thaw cycles as follows:

After each five cycles, remove the salt solution and particles of deteriorated concrete from the slab and collect in a watertight container. The operation is best accomplished by tilting the slab in a funnel approximately 20 inches in diameter and washing the surface of the slab with a 3% sodium chloride solution. Continue this washing until all loose particles are removed from the sample. Strain the solution through a filter and dry the residue at 221 degrees Fahrenheit to a constant mass condition. Cumulatively weigh the residue after each five cycles. The dry residue is defined as the loss of mass. Calculate the loss of mass to the nearest 0.01 pounds per square foot, not including the exposed surface of any core material on the cast or cut edges. Visually rate the surfaces according to 10.1.5 of ASTM C672 including any delamination of the sound absorbing material from the concrete core for composite concrete materials. After each washing of each sample, re-establish the initial submerged condition with a new solution of 3% sodium chloride before continuing with freeze-thaw cycling.

Continue the test until 30 freeze-thaw cycles have been completed.

During the test position and support each specimen to allow free circulation of the test solution under, around, and over test pieces. Support the bottom of the specimens on blocks in a manner to facilitate movement of moisture through and around the test specimens.

B.3.2.2.3 Test Report

Submit to the engineer an independent testing laboratory test report which shows that all solid and composite concrete products meet or exceed the following criteria:

1. After 30 freeze-thaw cycles the test specimens shall not exhibit excessive deterioration in the form of cracks, spalls, aggregate disintegration, delamination or other objectionable features.
2. Compliance with the test requirements is based upon a loss of mass of not more than 0.2 pounds per square foot from the surface after 30 cycles of freezing and thawing.
3. The report shall include the following:
    3.1. Name of manufacturer.
    3.2. Location of production.
    3.3. Production description.
    3.4. Date product sample was cast.
    3.5. Date testing began.
    3.6. Specimen identification.
    3.7. 5x7-inch color photographs of the test specimens before and after the 30 cycles of freeze-thaw test showing both sound absorbing faces and at least one representative side view of a cut (not cast) face, and any defects.
    3.8. A graph of the cumulative mass loss of each specimen plotted against the number of freeze-thaw cycles for 5, 10, 15, 20, 25, and 30 freeze-thaw cycles.
    3.9. Visual rating according to ASTM C672 Section 10.1.5, including report of any delamination of the sound absorbing material from the concrete core for composite concrete components.

B.3.3 Materials Certification - General

Provide certification of compliance or sample fabrications as noted below. All material certifications shall reference the specific facility manufacturing the material and this contract. Certification is required for each lot of material not to exceed 100,000 SF of noise barrier produced and shall include dates of fabrication for the lot being certified. For projects that do not exceed 100,000 SF, a minimum of two lots of material will represent the project, each lot representing equivalent square footage.

B.3.3.1 Color and Surface Texture

Supply and deliver to the engineer a 3 foot x 5 foot minimum test panel for each panel type with the specified pattern and colors. Obtain the engineer’s acceptance of the panel’s pattern and color before production of the panels required for the contract. The accepted pattern and color test panels shall remain on the project site in a readily accessible location for the duration of the project. The accepted pattern and color sample panels will be the standard for all noise barriers on the project.

Manufacture noise barrier posts of the same materials throughout the project. Shop apply coating and coloring of the post and panels.

Unless otherwise shown and provided for in the plans, wall pattern shall contain textures with relief features of sufficient depth and quantity to be distinguishable at an observation distance of 500-feet. The colors and textures chosen will be within the following parameters; however, at the discretion of the engineer, a single color and/or a single texture may be selected for either side of the noise barrier.

	FREEWAY SIDE	RESIDENTIAL SIDE
Number of colors	2	2
In the proportion of	75:25 (+/- 5%)	75:25 (+/-5%)
Number of textures	2	2
In the proportion of	75:25 (+/- 5%)	75:25 (+/- 5%)

The engineer will visually inspect panels for color consistency upon arrival at the project. The panels shall have no substantial variation in color from the accepted sample panel submitted for the project. All panels with substantial color variation will be rejected and shall be removed from the project.

B.3.3.2 Structural Steel

Submit to the engineer certification of compliance, including mill certifications and heat numbers, that structural steel conforms to the properties required on the plans and shop drawings, and is galvanized after fabrication by the hot-dip process according to ASTM A123. Galvanize all steel hardware and threaded fasteners, bolts, nuts, and washers according to ASTM A153.

Shop coat all steel galvanized surfaces exposed to view with a department-approved paint system. Clean galvanizing surfaces to be painted according to SSPC-SP1 to remove, chlorides, sulfates zinc salts, oil, dirt, organic matter and other contaminants. Brush Blast clean the surfaces according to SSPC-SP7 to create a slight angular surface profile (1.0 – 1.5 mils suggested) for adhesion. Do not fracture the galvanized finish or remove any dry film thickness during these processes.

After cleaning, provide a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface. The tie coat shall etch the galvanized surface and prepare the surface for the top coat. Apply a top coat matching the finished color specified in B.3.2. Use a pre-approved top coat that is resistant to the effects of the sun, and is suitable for use in a marine environment. Exercise care so as not to damage the painted surfaces during shipment and erection of the noise barriers.

Use one of the qualified paint sources and products given below. An equivalent system may be used with the written approval of the engineer. Supply the engineer with the product data sheets before applying any coating. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, the minimum drying time for shop applied coats, and the recommended procedures for coating galvanized bolts, nuts, and washers.

Producer	Coat	Products	Dry Film Minimum Thickness (mils)	Minimum Time Between Coats (hours)
Sherwin Williams Co. (847) 330-1250	Tie	Recoatable Epoxy Primer B67-5 Series/B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
Carboline Co. (314) 644-1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Top	Carboline 133 LH	4	NA
Wasser Corp. (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA

B.3.3.3 Sound Transmission Loss (TL)

Submit to the engineer certification of compliance that the sound transmission loss of the panel material, when tested according to ASTM Standard E90, achieves a transmission loss as specified in B.2.5.

B.3.3.4 Accelerated Weathering

Submit to the engineer certification of compliance that all coatings on barrier components, with the exception of structural steel and wood components comply with the following requirements when tested according to ASTM Standard G155, G153, or G152 after 2400 hours of exposure on a cement based test specimens:

1. No checking when rated according to ASTM D660.
2. No cracking when rated according to ASTM D661.
3. No blistering when rated according to ASTM D714.
4. No difference in adhesion between the unexposed control sample and an exposed sample when tested according to ASTM D3359, Method A.
5. No chalking less than #7 rating when rated according to ASTM D4214.
6. No color change greater than 5 NBS units when measured according to ASTM D2244, using illuminant D65 and the 1964 10-degree standard observer.

B.3.3.5 Corrosion Resistance (Salt Fog Exposure)

Submit to the engineer certification of compliance that all coated steel components, with the exception of structural steel, has a coating system that has been tested for corrosion resistance according to ASTM B117 and comply with the following requirements:

1. No checking when rated according to ASTM D660.
2. No blistering when rated according to ASTM D714.
3. No loss of adhesion when tested according to ASTM D3359 with no evidence of corrosion along the edges of the samples or along the score lines or both or other defects.

B.4 Project Submittal Requirements

Furnish required submittals according to the following:

B.4.1 Pre-Construction Submittals

A minimum of 14 days before beginning any shop or field work, submit the following documents to the engineer conforming to standard spec 105.2 with electronic submittal to the fabrication library under standard spec 105.2.2.

1. Structural and foundation design calculations
2. Design calculations shall be on 8 1/2 x 11-inch sheets, neatly bound with a title sheet listing the complete project identification number and sound barrier designation. Structural and foundation calculations shall be signed, sealed, and dated by a professional engineer licensed in the State of Wisconsin.
3. Detailed design/shop drawings.
4. Design/shop drawings shall conform to the contract plans and the requirements of these special provisions. The design/shop drawings shall consist of plan and profile sheets, details, explanatory notes, erection diagrams, aesthetic treatments, and other working plans. All dimensions, sizes of material, material information and other information necessary for the complete fabrication and construction of the noise barrier shall be designated on the appropriate sheets. The design/shop drawings shall be drawn to an appropriate scale on reproducible sheets 11 x 17 inches including borders. Each sheet shall carry the complete project identification number and noise barrier designation. Design/shop drawings shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.
5. Specifications regarding installation requirements and sequence of construction, including a detailed bill of materials.
6. Detailed color plan of the aesthetic treatments and finishes for the entire noise barrier.
7. Shipping, handling, and storage plan identifying methods or practices to limit post production damage.

Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings.

B.4.2 Pre-Installation Submittals

Supply and deliver to the engineer the sample panel required under Section B.3.3.1 at least 14 calendar days before beginning production and/or installation of job materials. Acceptance of the sample panel will be by: Bryan Learst, (920) 366-5639, bryan.learst@dot.wi.gov. If the panel is not acceptable, a second panel shall be produced and submitted for acceptance. Sample panel to be representative of quality for precast panel work after acceptance. Deliver test panels to 3600 Commerce Court, Appleton, WI 54911, for comparison purposes during production of project panels.

B.4.3 Payment Submittals

Submit certifications and test data as required under B.3 for all materials, including trade name of the products along with the name and address of the manufacturers.

B.4.4 Submittal Review

The engineer's review and acceptance of the drawings, calculations, and related material, submitted by the contractor, is for compliance with design intent only, and does not relieve the contractor from responsibility in regard to errors or omissions on said submittals.

The final accepted design documents and/or shop drawings will become a part of the contract. Any substitution of materials or dimensions contemplated by the contractor's submitted documents, different from materials or dimensions shown on the contract plans, shall be made only when approved by the engineer, and in such case, additional costs resulting from such substitution shall be borne by the contractor.

Ordering materials before department acceptance of submittals is at the contractor's risk.

C Construction

C.1 General

Construct the noise barriers at the locations the plans show, according to the contract specifications and design drawings and/or as the engineer directs. Deliver all sound absorbing composite concrete components to the project site as a finished component. A sound absorbing composite concrete system, which has the sound absorbing material glue-laminated or alternately affixed by a secondary adhesion method on the project site, will not be allowed.

Provide a minimum 10 day notice to the engineer of the date that the fabrication of the noise barrier material will begin.

Inspect all materials delivered to the construction site for proper dimensions, honeycombing, cracks, voids, surface defects, consistency in color and texture, and any other damage or imperfections, before installation.

If any part of the noise barrier material fails to comply with any requirements of the contract specification, the component shall either be corrected, permanently marked as unacceptable and be disposed of by the contractor or accepted at a reduced price. The decision will be made by the engineer and is dependent on the severity of the specification deviation.

Erect noise barriers to avoid conflict with any existing facilities or utilities to remain in place. Any damage caused by construction activities shall be repaired by the contractor at no cost to the department.

C.2 Fire Hydrant Location Signs

Attach fire hydrant location signs to the noise barrier at each location the plans show by a method the department's approved drawings show. The signs shall conform and be of the type specified in the department's sign plate book, plate D9-54 and/or D9-54A.

C.3 Weep Hole Openings

Provide weep hole openings for drainage at the locations and sized as noted on the plan. Install weep holes by drilling through the wall after erection of the noise barrier. Use 6" PVC Schedule 40 pipe sleeve conforming to ASTM D-1785. Epoxy 6" PVC Schedule 40 pipe sleeve into bored weep hole. PVC pipe sleeve shall fit snugly in cored hole through wall. Epoxy PVC pipe sleeve into bored weep hole in noise barrier. Locate and construct weep holes according to the plans and as the engineer directs. Place weep holes at locations the plans show unless the engineer approves adjusting locations to fit field conditions. The engineer will field verify the height and location of the weep holes for positive drainage.

C.4 Name Plates

Provide name plates conforming to the requirements of standard spec 506.2.4. Install one name plate on each noise barrier at the location the plans show. Rigidly attach each plate to the barrier by a means approved by the engineer.

Compensation for furnishing and placing of name plates shall be included in the contract price for Noise Barriers Double-Sided Sound Absorptive Structure and no additional compensation therefore will be allowed.

C.5 Structure Mounted Noise Barriers

Do not erect noise barriers mounted to bridge or retaining wall structures until after the concrete for bridge decks and parapets or retaining wall moment slabs and parapets have attained their specified 28-day strength.

For noise barriers mounted to moment slabs and parapets on top of MSE retaining walls, erection of the noise barrier is limited to two-thirds the height of the noise barrier acoustical line the plans show before placement of earth fill or pavement over the top of the moment slab as the plans show. Erection of the noise barrier in excess of two-thirds its height to the full height of the noise barrier acoustical line the plans show may not occur until after the earth fill or pavement structure over the top of the moment slab the plans show is complete.

C.6 Construction Tolerances

Install the posts and panels comprising the noise barrier plumb within 1/2 inch in 15-feet. Locate the posts to the line and grades as the plans show to within +/- 3/4 inch. Align horizontal joints of adjacent panels to a vertical tolerance of 1/4 inch. Where vertical adjustments are required for alignment, use a mortar base or steel shims. Galvanize and prime coat steel shims according to B.3.3.2.

D Measurement

The department will measure Noise Barriers Double-Sided Sound Absorptive (Structure #) by the square foot, acceptably completed, as the area the original plans show plus engineer-approved modifications to the plan quantity caused by plan corrections or revisions.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
541.0300.S.0951	Noise Barriers Double-Sided Sound Absorptive N-44-11	SF
541.0300.S.0952	Noise Barriers Double-Sided Sound Absorptive N-44-20	SF

Payment is full compensation for providing noise barrier including coloring and aesthetic treatment on panels, preparing the design drawings and calculations, furnishing and delivering sample and test panels, materials testing, furnishing materials test reports and certifications, excavation, preparing the site, constructing foundations, erecting posts and panels, and disposing of waste materials.

stp-541-010 (20230113)

18.2 Midwest Guardrail System (MGS).

Add to standard spec 614.2.1 the following:

The Midwest Guardrail System installed along IH 41, STH 15, STH 96 and ramps shall be attached to steel posts and notched plastic blockouts.

Add to standard spec 614.3.2.1 the following:

All posts will be driven through the base aggregate dense and select crushed layers of the pavement structure.

18.3 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)

18.4 Seismograph 1130-64-72, Item 999.1001.S.

A Description

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

B Material

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

C Construction

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

During construction, place seismographs to monitor all vibration-inducing construction activities or as the engineer directs. At a minimum utilize one seismograph. If more than one major construction activity per day is taking place, multiple seismographs may be required. Place seismographs on a stable surface within 3 feet of the building/structure nearest to the construction operation. Provide data recorded for each vibration occurrence to the engineer which includes the following:

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

If construction activities generate ground vibration in excess of the peak particle velocity limits as shown in SPS 307.44, stop the construction operation in progress and implement alternate construction methods to produce results within the allowable peak particle velocity limits.

D Measurement

The department will measure Seismograph as a single unit of work for each project, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1001.S	Seismograph 1130-64-72	EACH

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

stp-999-005 (20210708)

18.5 Crack and Damage Survey, Item 999.1501.S.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located at:

3518 Northridge Court, Appleton, WI 54914

3520 Northridge Court, Appleton, WI 54914

3541 N. Northridge Court, Appleton, WI 54914

3720 N. Bluemound Drive, Appleton, WI 54914

3722 N. Bluemound Drive, Appleton, WI 54914

3717 N. Blueridge Drive, Appleton, WI 54914

3719 N. Blueridge Drive, Appleton, WI 54914

3120 W. Hiawatha Drive, Appleton, WI 54914

3122 W. Hiawatha Drive, Appleton, WI 54914

2671 W. Hiawatha Drive, Appleton, WI 54914

2770 W. Hiawatha Drive, Appleton, WI 54914

2772 W. Hiawatha Drive, Appleton, WI 54914

3782 W. Hiawatha Drive, Appleton, WI 54914

3784 W. Hiawatha Drive, Appleton, WI 54914

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

B (Vacant)

C Construction

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

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

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

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

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

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

D Measurement

The department will measure Crack and Damage Survey as single unit for each location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1501.S	Crack and Damage Survey	EACH

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

stp-999-010 (20210708)

18.6 Construction Staking Survey Project 1130-64-71, Item SPV.0060.0110; Construction Staking Survey Project 1130-64-72, Items SPV.0060.0115; Construction Staking Survey Project 1130-64-87, Item SPV.0060.0120.

A Description

This special provision describes providing all construction staking survey required to layout and construct the work. Conform to standard spec 650 and standard spec 105.6, and as follows.

B (Vacant)

C Construction

Perform all surveying required to construct the work under this contract as specified in standard spec 650. Include all other miscellaneous survey required to layout and construct all work under this contract.

Remove and replace standard spec 105.6 with the following:

105.6 Construction Staking

105.6.1 General

The department is responsible for errors or discrepancies found in previous department surveys, plans, specifications, special provisions, or work constructed under other department contracts. The department will pay for further studies and redesign required due to these errors or discrepancies.

The department will furnish data for the horizontal and vertical control points. Prosecute the work using these points for field control. The department is responsible for the accuracy of lines, slopes, and grades it provides. The engineer and contractor shall agree on the meaning of all stakes, measurements, and marks before the contractor begins work.

105.6.2 Contractor-Performed Staking

Provide the construction stakes or markings needed to prosecute the work as follows:

1. Additional staking or markings that might be needed to support the contractor's specific method of operations.
2. Staking required under standard spec 650 to lay out and construct the work for the individual construction bid items the contract includes.
3. Other staking or markings as required to successfully prosecute the work.

The contractor is responsible for the accuracy of lines, slopes, and grades the contractor provides. Construct the work conforming to the lines, grades, cross sections, and dimensions the contract specifies or the engineer establishes.

Notify the engineer immediately when finding errors or discrepancies in previous surveys, plans, specifications, special provisions, or work constructed under other contracts. Suspend related operations until the engineer gives approval to proceed.

The engineer may check the control of work, as established by the contractor, at any time. The engineer will provide the results of these checks to the contractor, but by doing so in no way relieves the contractor of the responsibility for the accuracy of their layout work.

Correct or replace deficient layout and construction work resulting from:

1. Inaccuracies in the contractor's staking operations.
2. Not reporting inaccuracies found in work done by the department or by others.

If, due to the inaccuracies in standard spec 105.6.2(5), the department is required to make further studies, redesign, or both, the department will deduct all expenses incurred from the payment due the contractor.

D Measurement

The department will measure Construction Staking Survey Project as a single unit, acceptably completed for the entire project.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0110	Construction Staking Survey Project 1130-64-71	EACH
SPV.0060.0115	Construction Staking Survey Project 1130-64-72	EACH
SPV.0060.0120	Construction Staking Survey Project 1130-64-87	EACH

Payment is full compensation for performing all survey work required to layout and construct all work under this contract.

ner-650-025 (20210716)

18.7 Concrete Barrier Transition, Item SPV.0060.0140.

A Description

This special provision describes construction Concrete Barrier Transition according to standard spec 603, details shown in the plans and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Concrete Barrier Transition by each individual unit, acceptably completed according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0140	Concrete Barrier Transition	EACH

Payment is full compensation for construction Concrete Barrier Transition.

18.8 Mobilizations Emergency Pavement Repair, Item SPV.0060.0160.

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.0060.0160	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.

18.9 Emergency Response to Traffic Involving Concrete Barrier Temporary, Item SPV.0060.0305.

A Description

This special provision describes providing prompt response to an emergency repair request for damaged and/or dislodged temporary concrete barrier installed under this project and for temporary concrete barrier left in place that are damaged or displaced due to a vehicular collision during the time this contract is in effect.

B Vacant

C Construction

The contractor shall provide staff, equipment, and materials to the incident site within one hour of receiving a repair request from the responding agency. The contractor shall consult with the department’s representative on potential repair or replacement options to restore the temporary concrete barrier to proper working condition. Staff and equipment deployed shall be capable of completing the needed repairs as quickly as possible once repair work is started. Repair work shall be completed off the traveled way to the maximum extent allowable. The contractor shall provide a time log of when the repair request was received and when staff arrived at the incident site. This information shall be submitted to the engineer, for verification, within 24 hours of the repair completion.

Contact information for the contractor's responsible party (the person or persons in charge of coordinating and completing repair efforts) shall be submitted to the engineer at the pre-construction meeting. This person(s) shall be available 24 hours a day, 7 days a week, during the duration of this contract. The contact information for the department's representative will be supplied to the contractor at the pre-construction meeting.

If the contractor fails to be on-site of an incident with appropriate staff and equipment within one hour of receiving a repair request, the department will assess the contractor $500 in liquidated damages for each 15-minute interval that the contractor is not present following the allotted one-hour response time. Increments of 15 minutes or less will be assessed as a 15-minute increment. The engineer, or designated representative, will be the sole authority in determining assessable 15-minute increments. Liquidated damages will be assessed under the administrative item Failing to Open Road to Traffic.

For contractor owned temporary concrete barrier and temporary concrete barrier left in place, repair work shall be completed according to standard spec 603 and 643, and as directed by the engineer. Additional traffic control measures may be required depending on the severity and duration of the incident. The contractor shall provide any needed traffic control measures as directed by the department's representative.

D Measurement

The department will measure Emergency Response to Traffic Involving Concrete Barrier Temporary as each individual response, 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.0060.0305	Emergency Response to Traffic Involving Concrete Barrier Temporary	EACH

Payment is full compensation for providing prompt response to an emergency repair request for damaged and/or dislodged temporary concrete barrier located within the project limits.

The cost of providing the appropriate level of on-call staff and equipment for 24 hour a day incident response availability shall be included in the Mobilization bid item for this project.

If the displaced barrier is damaged, replacement of the barrier is incidental to the items Concrete Barrier Temporary Precast Installed and Maintain and Remove Concrete Barrier Temporary Left in Place. If the displaced barrier is anchored, re-anchoring the barrier wall will be paid for under the Anchoring Concrete Barrier Temporary Precast bid item. The anchoring bid item will be used for both contractor owned temporary concrete barrier and temporary concrete barrier left in place that are anchored.

The department will pay for any additional traffic control measures, if required, under the respective traffic control bid items in the contract.

ner603 (20240111)

18.10 Emergency Response to Traffic Involving Crash Cushion Temporary, Item SPV.0060.0310.

A Description

This special provision describes providing prompt response to an emergency repair request involving a damaged temporary crash cushion installed under this project and for crash cushions temporary left in place that are displaced or damaged due to a vehicular collision during the time this contract is in effect.

B Vacant

C Construction

The contractor shall provide appropriate staff to the incident site within one hour of receiving a repair request from the responding agency. Staff deployed shall be capable of immediately assessing the severity of the damage to the device and consult with the department's representative on potential repair or replacement options and the projected timeline to restore the roadside device to its proper working condition. The contractor shall provide a time log of when the repair request was received and when staff arrived at the incident site. This information shall be submitted to the engineer, for verification, within 24 hours of the repair completion.

Contact information for the contractor's responsible party (the person or persons in charge of coordinating repair efforts) shall be submitted to the engineer at the pre-construction meeting. This person(s) shall be available 24 hours a day, 7 days a week, during the duration of this contract. The contact information for the department's representative will be supplied to the contractor at the pre-construction meeting.

If the contractor fails to be on-site of an incident with appropriate staff within one hour of receiving a repair request, the department will assess the contractor $500 in liquidated damages for each 15-minute interval that the contractor is not present following the allotted one-hour response time. Increments of 15 minutes or less will be assessed as a 15-minute increment. The engineer, or designated representative, will be the sole authority in determining assessable 15-minute increments. Liquidated damages will be assessed under the administrative item Failing to Open Road to Traffic.

Repair work shall be completed according to standard spec 614, and as directed by the engineer. Once repair work has been started, work shall continue until completion. Repair work shall be completed off the traveled way to the maximum extent allowable.

Additional traffic control measures may be required depending on the severity and duration of the incident. The contractor shall provide any needed traffic control measures as directed by the department's representative.

D Measurement

The department will measure Emergency Response to Traffic Involving Temporary Crash Cushion as each individual response, 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.0060.0310	Emergency Response to Traffic Involving Crash Cushion Temporary	EACH

Payment is full compensation for providing a prompt staff response to an emergency repair request for a damaged crash cushion device located within the project limits. If a crash cushion temporary requires replacement, payment for the installation and future removal of the new crash cushion is incidental to item Crash Cushions Temporary.

The cost of providing the appropriate level of on-call staff and equipment for 24 hour a day incident response availability shall be incidental to the Mobilization bid item for this project.

The department will pay for any additional traffic control measures, if required, under the respective traffic control bid items in the contract.

ner603 (20240111)

18.11 Maintain and Remove Crash Cushions Temporary Left In Place, Item SPV.0060.0315.

A Description

This special provision describes maintaining and removing temporary crash cushions left in place according to standard spec 614 and as hereinafter provided. Take ownership and responsibility of the temporary crash cushion at the notice to proceed, unless directed otherwise by the engineer. Upon taking ownership of the temporary crash cushion, maintain the Crash Cushions Temporary Left In Place for the duration of the contract.

B Materials

Furnish any replacement materials for the temporary crash cushions left in place by others according to standard spec 614.2.

C Construction

Maintain and remove the temporary crash cushions left in place by others according to standard spec 614.3.4.

D Measurement

The department will measure Maintain and Remove Crash Cushions Temporary Left In Place as each individual crash cushion location, 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.0060.0315	Maintain and Remove Crash Cushions Temporary Left In Place	EACH

Payment is full compensation for maintaining and removing the crash cushions.

18.12 Temporary Concrete Barrier Gate, 24-FT, Item SPV.0060.320.

A Description

Furnish and install a Temporary Concrete Barrier Gate and remove when project staging dictates.

B Materials

Furnish a Temporary Concrete Barrier Gate and all necessary hardware and materials to install the gate. The gate system shall be able to meet the recommended structural adequacy, occupant risk, and vehicle trajectory criteria set forth in the National Cooperative Highway Research Program Report (NCHRP) 350 for Test Level 3 for Longitudinal Barriers. The gate shall be capable of preventing vehicle penetration, vaulting, and under riding during Test Level 3 Length of Need with Transition (TL-3 LON/T) impacts and shall smoothly redirect the vehicle. The gate system shall be able to span a 24-foot minimum gap in concrete barrier. The gate system shall fasten only to the temporary concrete barrier wall. The gate system shall be able to be opened completely within 5 minutes once the moving process begins. The gate shall be able to be opened both by pivoting the gate on a hinge and by completely disconnecting the gate from the barrier wall and rolling it parallel to the temporary barrier wall. Tools and materials required to open the gate system must be physically fastened to, or stored within, the gate system in such a way that prevents such tools and materials from becoming hazards during a crash. Tools and material must be accessible and usable immediately upon need.

C Construction

Install the gate system according to manufacturer’s recommendations at contract-identified locations or as the engineer directs. Ensure that the gap between the traffic face of temporary barrier and the traffic face of the gate transition is to be less than ¼ of an inch. If manufacturer allows, the contractor may bolt thrie beam and thrie beam terminal connector to concrete barrier and the gate transition to bridge the gap in concrete barrier. Provide and maintain the gates throughout the duration of the project. Repair any damage to the gates within 48 hours. Once the gate is installed, a tutorial shall be given to the department and law enforcement at a time determined by the engineer. After completion of the tutorial, furnish written instructions to the department and law enforcement. Upon completion of the work, remove the gate system and properly dispose of all materials.

D Measurement

The department will measure Temporary Concrete Barrier Gate as each individual gate system, acceptably completed. The department will not make additional measurements for Temporary Concrete Barrier Gate if damaged during construction, including damage due to vehicular hits.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0320	Temporary Concrete Barrier Gate, 24-FT	EACH

Payment is full compensation for providing, installing, maintaining, and removing the gate system.

ner41-600 (05082024)

18.13 Crash Cushion Temporary Left in Place, Item SPV.0060.0325.

A Description

This special provision describes leaving in place temporary crash cushion in accordance to the pertinent provisions of standard spec 614 and as hereinafter provided.

Crash Cushions Temporary Left in Place become the property of the department after final acceptance by the engineer.

B Materials

Furnish materials in accordance with section 614.2.7 of the standard spec.

C Construction

Complete work in accordance with standard spec 614.3.4. Maintain the crash cushion until the department takes possession of it.

D Measurement

The department will measure Crash Cushions Temporary Left in Place as each individual unit, acceptably completed and left in place where indicated on the plans.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0325	Crash Cushion Temporary Left in Place	EACH

Payment is full compensation for providing and leaving Crash Cushion Temporary on the project site including any necessary anchoring and anchoring devices; and for maintaining and replacing damaged components.

18.14 Obstructions Foundation Drilling, Item SPV. 0075.0105.

A Description

A.1 General

The work included herein consists of removing, drilling, or coring through unknown, and unidentified, man-made subsurface obstructions when encountered for construction of rigid inclusions, bridge foundation pre-boring, drilled foundation shafts for noise walls, drilled foundations for sign structures, or drilling for other concrete masonry supports.

A.2 Definitions

Surface obstructions are defined as any objects, man-made or naturally deposited, encountered within 6 feet of the ground surface. Subsurface obstructions are defined as man-made obstructions that are encountered by the drilling equipment at a depth greater than 6 feet below the ground surface. Obstructions include only man-made materials, such as old concrete foundations or abandoned utilities. Known obstructions are man-made obstructions that are shown or identified in the plans. Unknown obstructions are man-made obstructions that are not shown or identified in the plans. Naturally occurring deposits such as rock, boulders, cobbles, nested cobbles, and nested boulders, are not considered obstructions and therefore are not applicable to the provision of this pay item.

B (Vacant)

C Construction

Remove surface and subsurface obstructions at drill locations. For rigid inclusions, bridge foundation pre-boring use special tools and/or procedures when the contractor cannot advance the hole more than 12 inches in 60 minutes using conventional rock augers fitted with teeth, drilling buckets, or under reaming tools operating at maximum power, torque, and down thrust. For drilled shaft installation associated with noise wall foundations, sign structure foundations foundation, or drilling associated with the construction of sign supports, use special tools and/or procedures when the contractor cannot advance the hole more than 12 inches in 60 minutes using conventional earth augers operating at maximum power, torque, and down thrust. Special procedures and/or tools may be required but are not limited to chisels, breakers, core barrels, air hammer tools, and hand excavation. Other methods for obstruction removal can be employed to aid in the removal if acceptable to the engineer, if applicable. Blasting is not permitted.

When an unknown subsurface obstruction is encountered, notify the engineer, prior to beginning any work to remove the obstruction.

D Measurement

The department will measure Obstructions Foundation Drilling by the hour for each hour the contractor actively spends removing or coring through unknown man-made subsurface obstructions. A quantity of one hour will be paid upon the determination that a subsurface obstruction is encountered based on lack of hole advancement with conventional tools as set forth in this specification. Upon removal of the

unknown man-made subsurface obstruction, portions of the final hour measured will be rounded up to the next whole hour. Down time spent planning for subsurface obstruction removal or delays caused by the mobilization of special equipment and tools not readily available at the site will not be measured for payment.

Measurement Example		Paid Obstruction Hours
1	Drilling encounters possible obstruction. Contractor notifies engineer. Start clock.	0.00
2	Conventional drilling equipment does not advance 12 inches after attempting to do so for at least 60 minutes.	1.00
3	Contractor resumes work clearing obstruction the following day. Assume the obstruction is cleared in aggregate total of 1 hour and 15 minutes of time. Obstruction is identified to be a previously unknown and unidentified man-made obstruction.	2.00

Only unknown (not identified in the plans), man-made subsurface obstructions, will be measured for payment. Work to clear and remove surface obstructions, known obstructions identified on the plans, and any natural deposits (rock, boulders, cobbles, nested cobbles, and nested boulders) will not be measured separately for payment and shall be included in the applicable items for Obstructions Foundation Drilling.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV. 0075.0105	Obstructions Foundation Drilling	HRS

Payment is full compensation for removal and disposal of unknown, man-made subsurface obstructions; and for furnishing all materials, labor, equipment, additional concrete, and incidentals necessary to complete the work.

18.15 Concrete Barrier Type S42 Special, Item SPV.0090.0115; Concrete Barrier Type S56 Special, Item SPV.0090.0120.

Construct the concrete barrier in accordance to standard spec 603 and in accordance to the plan details.

ner 41-403 (08262024)

18.16 Concrete Barrier Fixed Object Protection Type S56 Special, Item SPV.0090.0125.

A Description

This special provision describes constructing Concrete Barrier Fixed Object Protection Type S56 Special according to standard spec 603, details shown in the plans, and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Concrete Barrier Fixed Object Protection Type S56 Special, by the linear foot, acceptably placed according to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0125	Concrete Barrier Fixed Object Protection Type S56 Special	LF

18.17 Concrete Barrier Temporary Precast Left in Place, Item SPV.0090.0150.

A Description

This special provision describes leaving in place temporary concrete barrier conforming to the shape, dimensions, and details the plans show and in accordance to the pertinent provisions of section 603 of the standard spec and as modified in this special provision.

Concrete Barrier Temporary Precast Contractor Left in Place becomes the property of the department after final acceptance by the engineer. Ownership identification shall include the department (DOT).

B (Vacant)

C Construction

Complete work in accordance with standard spec 603.3.2.

Prior to the department taking possession of the barrier, all sections of temporary concrete barrier that do not conform to CMM 145 shall be replaced.

D Measurement

The department will measure Concrete Barrier Temporary Precast Left in Place by the linear foot, acceptably completed, measured along the base of the barrier after final installation in its left-in-place location.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0150	Concrete Barrier Temporary Precast Left in Place	LF

Payment is full compensation for leaving Concrete Barrier Temporary Precast on the project site including any necessary anchoring and anchoring devices; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Delivery, installation, and anchoring of the barrier will be paid for under the pertinent items included in the contract.

18.18 Maintain and Remove Concrete Barrier Temporary Left In Place, Item SPV.0090.0300.

A Description

This special provision describes receiving existing concrete barrier temporary precast including any attached temporary glare screen. The temporary barrier has been left in place under a previous contract. Take ownership and responsibility of the temporary barrier and temporary glare screen at the notice to proceed, unless directed otherwise by the engineer. Upon taking ownership of the temporary barrier and glare screen, maintain the Concrete Barrier Temporary Precast Left In Place for the duration of the contract.

The location of this temporary barrier is shown in the Traffic Control plans.

B Materials

Provide materials according to standard spec 603.2.

C Construction

Maintain, move and remove temporary barrier according to standard spec 603.3.2.

Remove the concrete barrier temporary precast left in place after it is no longer of use to the project.

D Measurement

The department will measure Maintain and Remove Concrete Barrier Temporary Precast Left In Place by the linear foot of concrete barrier temporary, acceptably maintained. Moving of temporary barrier, if necessary, will be paid for under the respective standard bid item(s) Concrete Barrier Temporary Precast Delivered or Concrete Barrier Temporary Precast Installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0300	Maintain and Remove Concrete Barrier Temporary Left In Place	LF

Payment is full compensation for receiving and maintaining concrete barrier temporary precast including any attached temporary glare screen or delineators, removing and disposing of all materials.

ner-41-643 (02122024)

18.19 Glare Screen Temporary, Item SPV.0090.0305.

A Description

This special provision describes furnishing, installing, maintaining, and removing a modular paddle glare guard system on concrete barrier temporary precast at the indicated locations according to the plans and standard specifications, as directed by the engineer and as hereinafter provided.

B Materials

Utilize modular glare guard units consisting of vertical blades, bases, and a horizontal base rail. Utilize paddle devices a minimum of 24-inches in height and constructed of durable, impact resistant, non-warping flexible materials.

Utilize modular units with cumulative nominal length equal to the length of the temporary barrier on which they are installed so that the joint between the barrier sections shall not be spanned by any one unit. Units shall not alter the design of the concrete barrier.

Design the relative connection strengths between various components of the assembly to minimize the potential impact and debris hazard to approaching traffic and to simplify repairs. Fabricate the modular units in a manner to allow replacement of individual blades while the modular unit remains in place.

The blade, base and rail shall be made of high impact materials with sufficient strength to withstand three impacts from a horizontal steel bar traveling at 40 mph and impacting at mid-height of the blade. After three impacts, there shall be no evidence of cracking, splitting, delaminating or separation from the system.

Provide a paddle glare guard from a manufacturer below or an approved equal:

Manufacturer	Address
Safe-Hit Corporation	2405 IH 35 West, New Braunfels, Texas, 78130
Carsonite International	2900 Lockhead Way, Carson City, Nevada, 89701
Flexstake Incorporated	2150 Andrea Lane, Fort Myers, Florida, 33912

C Construction

Attach the base rail to the top of the concrete barrier temporary precast by a mechanical or adhesive system with a minimum pullout and shear of 3000 psi. All mounting hardware shall be as specified by the manufacturer.

D Measurement

The department will measure Glare Screens Temporary by the linear foot of paddle glare guard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0305	Glare Screen Temporary	LF

Payment is full compensation for receiving and maintaining concrete barrier temporary precast including any attached temporary glare screen, delineators, or steel rail connections and steel cap rail installations abutting permanent barrier; removing and disposing of all materials..

ner41-600 (05082024)

ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including "pipeline" activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor's needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of $5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.
   Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.
   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __12____ *(number)* TrANS Graduate(s) be utilized on this contract.

2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of $5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).
   Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.
   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __7____ *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

II. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

<u>NOTE</u>: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups,

disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal

Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.

(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

(1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
(2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
(3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
(4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

(1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

(2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:

- Produce accurate and complete quotes
- Understand highway plans applicable to their work
- Understand specifications and contract requirements applicable to their work
- Understand contracting reporting requirements

(3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.

b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.

c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.

d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.

e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.

f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.

g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.

h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.

i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.

j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. Instructions for eSubmit.

**Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

(2) DBE Goal Not Met

a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.

b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:

1. *Approve* the request (adequate documentation of GFE has been submitted) - no conditions placed on the contract with respect to the DBE Commitment;
2. *Deny* the request (inadequate documentation of GFE has been submitted) - the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit.

3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract.

The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

(1) Documents that it has obtained enough DBE participation to meet the goal; OR

(2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

Appendix A of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

a. Solicitation Guidance for Prime Contractors:

(1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.

(2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: DBE_Alert@dot.wi.gov

(3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.

(4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in* Appendix B. Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to DBE_Alert@dot.wi.gov

ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): https://www.bidx.com/wi/main, postal mail, email, fax, and phone.

a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter,* Appendix B. This letter may be included as an attachment to the sub-quote request.

b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.

c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.

iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.

iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.

v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:

a. Email to all prospective DBE firms in relevant work areas

b. Phone call log to DBE firms who express interest via written response or call

c. Fax/letter confirmation

d. Signed copy of record of subcontractor outreach effort

b. Guidance for Evaluating DBE quotes

(1) Quote evaluation practices required to evaluate DBE quotes:

i. Reasonable Price**:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).

(2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:

i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, ***a discussion*** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.

a In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

b Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:

i Compare bid items common to both quotes, noting the reasonableness in the price comparison.

ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices.*

c. Requesting Good Faith Effort Evaluation At the time of bid- if the DBE goal is not met in full, the prime contractor must indicate they will file form DT1202- Documentation of Good Faith Effort within 24-hours of bid submission. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:

(1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.

(2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

(3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.

(4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.

(5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.

(6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials

(7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved DBE Commitment. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DBE Commitment unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE Commitment, **they will not be paid for the work**. Any changes to DBE Commitment after the approval of the DBE Commitment must be reviewed and approved by the DBE Office prior to the change (see Section 9).

Additional resources for demonstrating and tracking good faith effort can be found on the “Contracting with a DBE” webpage in the ASP-3 and Good Faith Effort Guidance section.

4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

5. Determining DBE Eligibility

Directory of DBE firms

a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx

b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.

c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

6. Counting DBE Participation

Assessing DBE Work

The Department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The Department only counts the value of the work a DBE actually performs towards the DBE goal. The Department assesses the DBE work as follows:

a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.

b. The Department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The Department also counts fees and commissions the DBE charges for providing bonds or insurance. The Department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.

c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.

d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.

e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.

f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.

h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: DBE_Alert@dot.wi.gov

*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf

See Section 8 for Broker credit.

8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506 or DBE Commitment submitted with the bid.

a. Manufacturers

(1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.

(2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

b. Regular Dealers of Material and/or Supplies

(1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications

and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

(2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.

(3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:

i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.

ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

(4) When DBE suppliers are contracted, additional documentation must accompany the DBE Commitment and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.

i. The bidder should respond to the following questions and include with submission of form DT1506 or the DBE Commitment entered with bid:

a. What is the product or material?

b. Is this item in the prime's inventory or was the item purchased when contract was awarded?

c. Which contract line items were referenced to develop this quote?

d. What is the amount of material or product used on the project?

(5) Supplies purchased in **bulk** from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.

i. To ensure that the appropriate credit is assigned, follow the procedure below:

a. When DBE suppliers are contracted for bulk supply or commodity purchases, an invoice or bill-of-sale that includes names of the contractor and the DBE supplier should be submitted to the DBE Office via eSubmit (preferred during letting) or the DBE_Alert email box. The supply/commodity credit may be applied during the federal fiscal year (October- September) in which the purchase was made.

b. When the contractor intends to apply the credit to a particular project, submit a copy of the original invoice, documentation of the calculations for supplies/commodities to be used on the project, and an Attachment A. Indicate on the Attachment A:

c. This supply/commodity is in the prime's inventory or pre-paid in case of commodities

d. The full value of the original invoice submitted to the DBE Office, above in (1)

e. The amount of material or product used on this project

f. Fuel estimate listed on Attachment A will be recorded as a deduction from the full fuel purchase amount shown on the invoice

ii. DBE Office Process (Applies only to bulk purchases)

a. Supply/Commodity commitment is received

b. Engineer verifies amount listed on invoice and enters the full amount into spreadsheet

c. The amount of credit applied for each project is updated on the spreadsheet until the bulk purchase is exhausted

d. Engineer informs contractor when full amount of bulk purchase has been applied

c. Brokers, Transaction Expediters, Packagers, Manufacturers' Representatives

(1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit. However, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies, or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions.

(2) Brokerage fees are calculated as **10%** of the purchase amount.

(3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.

(4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")

a. Issuing a Contract Change Order

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DBE Commitment *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE Commitment do not require advance notification of the DBE office. (see below e. DBE Utilization beyond the approved DBE Commitment)

b. Contractor Considerations

(1) A prime contractor cannot modify the DBE Commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DBE Commitment without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

(2) If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.

(3) The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.

(4) In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.

(5) The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.

i. Before the Prime Contractor can request modification to the approved DBE Commitment, the Prime Contractor must:

a. Make every effort to fulfill the DBE Commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.

b. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the Commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.

c. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.

d. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. EXCEPTION: The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.

e. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

c. Request to Modify DBE Subcontracting Commitment

The written request referenced above may be delivered by email or fax. The request must contain the following:

(1) Project ID number

(2) WisDOT Contract Project Engineer's name and contact information

(3) DBE subcontractor name and work type and/or NAICS code

(4) Contract's progress schedule

(5) Reason(s) for requesting that the DBE subcontractor be replaced or terminated

(6) Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: DBE_Alert@dot.wi.gov + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required

- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract.

d. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE Commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved DBE Commitment is the DBE Program Engineer who can be reached at DBE_Alert@dot.wi.gov or (414) 335-0413.

e. DBE Utilization beyond the approved DBE Commitment

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 or DBE Commitment submitted with bid at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

(1) Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DBE Commitment based on the email/discussion and the new Attachment A.

(2) When adding to an existing DBE Commitment, submit a new Attachment A to the DBE Alert mailbox

(3) OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: DBE_Alert@dot.wi.gov

Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. $1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting
- DBE truckers need to be added to the DBE commitment once. If the DBE trucker is on the initial commitment (DT1506/E1506) there is no requirement to submit another Attachment A for that trucker for that contract.

10. Commercially Useful Function

a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.

b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

c. A DBE firm is performing a commercially useful function if the following conditions are met:

(1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.

(2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

d. Offsite Hauling – when DBE truck will haul between a pit and plant or location other than the construction site associated with the commitment

(1) Indicate Offsite Hauling on Attachment A

(2) Discuss offsite hauling at weekly progress meetings with Project Engineer (PE)

(3) PE conducts spot checks of pits/plants to verify DBE truck is hauling and/or verifying hauling log

(4) Prime should be prepared to submit haul tickets, plant/pit tickets, timecards, and other pertinent documentation if requested by PE or DBE Office

11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

12. Joint Venture

A joint venture is an association of a DBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest. If a DBE performs as a participant in a joint venture, the Department will only credit the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces.

13. Mentor-Protégé

a. If a DBE performs as a participant in a mentor-protégé agreement, the Department will credit the portion of the work performed by the DBE protégé firm.

b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.

(1) DBE credit may only be awarded to a non-DBE mentor firm for using its own protégé firm for less than one half of its goal on any contract; and

(2) Not award DBE credit to a non-DBE mentor firm for using its own protégé firm for more than every other contract performed by the protégé firm.

c. A DBE protégé firm may be eligible for conditional NAICS code extension for training with the mentor. Request permission from the DBE Office- Certification area.

d. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.

(1) Request should be made when the DBE Commitment or the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.

(2) Approval/Permission must be granted prior to the issuance of any joint checks.

(3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.

(4) The joint check for supplies must be strictly for the cost of approved supplies.

b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an ‘extra participant’ in the transaction. The DBE firm’s role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor’s tasks should include the following:

(1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.

(2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.

c. The Prime contractor/payor acts solely as a guarantor.

(1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.

(2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor’s negotiated unit price.

15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

Appendix A
Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

<u>Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released weeks prior to each Let)</u>

1. Determine DBE subcontractor's interest in quoting
2. If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
3. Assess their interest and experience in the road construction industry by asking questions such as:

- Have you competed for other WisDOT contracts? Ratio of competed/to wins
- Have you performed on any transportation industry contracts (locally or with other states)?
- What the largest contract you've completed?
- Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
- Does this project fit into your schedule? Are you working on any contracts now?
- Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
- What region do you work in? Home base?
- Which line items are you considering?
- Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
- Do you understand where your work fits in the project schedule, project phases?

<u>Following Bid Opening- this discussion can happen at any time</u>

1. After reviewing their quote, note the following in your discussion:

- Does the quote look complete? Irregular?
- Are there errors in the quote? Are items very high or very low?
- In general, does the quote look competitive?

2. Questions and Advice for the bidder to share with the potential DBE subcontractor:

- What line items would typically be in a competitive quote for a subcontractor of their specialty?
- How many employees and what is their role/experience/expertise in your firm?
- Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
- Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
- Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
- Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
- Discussion of bonding, insurance, and overall business risk considerations.

Appendix B

Sample Contractor Solicitation Letter Page 1

(This sample is provided as a guide, not a formatting requirement)

DBE Solicitation - [Month] [Day], [Year] WisDOT Bid Letting

Attention all DBEs. [Prime Contractor] is actively seeking your quote for the [Month][Day], [Year] Bid Letting. [Prime Contractor] is considering bidding on the projects listed on page 2 as a prime contractor. Please see page 2 for instructions and the sub-contractable opportunities for each proposal.

Does [Prime Contractor] accept quotes in areas we might self-perform? Yes, we do! We support this federal rule and (if needed) we consider areas we might self-perform an opportunity to provide in the field assistance and training if we award your quote.

Where can DBEs find the plans, specifications & addenda? Please visit [Prime Contractor's] plan room [LINK] or on WisDOT's Highway Construction Contract Information HCCI website: Wisconsin Department of Transportation Highway Construction Contract Information (wisconsindot.gov). This same website can be checked for the contract status.

What should your quote include? All the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should also note items that you are DBE certified to perform, tied items, and any special terms. Please use page 2 as your cover sheet for your quote.

Do you have a question regarding bonding, credit, insurance, equipment, or supplies/materials? We welcome all DBE questions! Please call [Prime Contractor] and ask to speak with [Contact]. [Prime Contractor] can provide basic information as well as a referral to a trusted industry partner for insurance and bonding needs.

When are quotes due?

[Month] [Day], [Year] at [Time]. We accept quotes via SBN, email, or fax. Please make every effort to have your quotes in by this time or earlier. Quality check your quote so it includes the correct letting date, project ID, proposal number, unit price and extension.

Who can DBEs contact for questions, information, clarification or for a quote evaluation? [Project Manager Name] [Phone] [Email]. If you are quoting [Prime Contractor] for the first time, we encourage you to come meet with us in person to discuss the project. Our office hours are 7:30 a.m. – 5:00 p.m. On bid day, we are in the office by 6:30 a.m.

Why partner with [Prime Contractor]?

DBE partnership is a core part of [Prime Contractor's] mission. Including DBEs at the beginning of each project is essential in the success of each project. We consider DBEs to be important industry partners who bring dedication and knowledge at various stages during construction. We are proud to be an industry leader with our DBE partnership. Your success as a DBE is our success.

Sample Contractor Solicitation Letter Page 2

(This sample is provided as a guide, not a formatting requirement)

REQUEST FOR QUOTE

[Prime Contractor]
Letting Date: [Month] [Day], [Year]
Project IDs: 1234-56-00 (Proposal #1) & 1234-01-78 (Proposal #6)

Please check all that apply:
____Yes, we will be quoting the projects & items listed below
____ No, we are not interested in quoting on the letting or its items referenced below
____ Please take our name off your monthly DBE contact list
____ We have questions about quoting this letting. Please have someone contact me at this number:

Prime Contractor Contact:_____ DBE:_____
Phone:_____ Fax:_____
Email:_____

Please circle the proposals and items you will be quoting below and contact us with any questions

Proposal **County**	**1** **Dane County**	**6** **Crawford County**
Clearing & Grubbing	**X**	**X**
Dump Truck Hauling	**X**	**X**
Curb/Gutter/Sidewalk	**X**	
Erosion Control Items		**X**
Excavation	**X**	**X**
Pavement Marking		**X**
Traffic Control	**X**	
Sawing	**X**	**X**
QMP, Base		**X**
Pipe Underdrain	**X**	
Landscape		**X**
Beam Guard	**X**	
Electrical	**X**	
Signs/Posts/Markers		**X**
Survey/Staking		**X**

Again, please make every effort to have your quotes into our office by time deadline prior to the letting date.

Sample Contractor Solicitation Email - Simplified

(This sample is provided as a guide, not a formatting requirement)

ATTENTION DBEs

- **[Prime Contractor] specializes in municipal projects in the XX Region(s)**
- **We have successfully competed for *and* completed XX WisDOT projects over the past XX years**
- **Consider [Prime Contractor] your partner on WisDOT Projects**

[Prime Contractor] is seeking *your* subcontractor quote for the XX/XX/20XX WisDOT bid letting on the below projects:

Project	Proposal	County	Region
1234-56-00	**2**	**Dane**	**SW**
1234-01-78	**6**	**Crawford**	**SW**

- Please review the attachments **[attach Solicitation Letter]** and respond with your intent to quote (or not) along with the work items you are interested in performing and respond via fax or email by ***date***. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Please include labor, equipment, material, and related bonding or insurance.

- If you have any questions regarding bonding, credit, insurance, equipment and/or materials/supplies, please feel free to call [Prime Contractor] and ask for [Contact]. **(Include if your company is willing to answer these types of DBE questions)**

- Plans and Specifications can be found: **WisDOT HCCI Website: List webpage where plans are located**

- If you do choose to quote, please make every effort to have your quote into our office by ***time and date.*** Make sure the correct letting date, project number, unit price and extension are included in your quote.

- Should you have questions regarding the mentioned project, please call our office at (414) 555-5555 and we will direct you to the correct estimator/project manager.
  Our office hours are 7:30 a.m. - 5:00 p.m.

Thank you – we look forward to working with your company on this project!

Prime Contractor
Project Manager
Direct: 414-555-5555
Cell: 414-555-5556

Sample Contractor Solicitation Email to non-DBE WisDOT Subcontractors - Simplified

(This sample is provided as a guide, not a formatting requirement)

ATTENTION WisDOT SUBCONTRACTORS

[Prime Contractor] is considering bidding on the below projects for the XX/XX/20XX WisDOT Bid Letting:

Project	Proposal	County	Region	DBE Goal
1234-56-00	2	Dodge	SW	6.00%
1234-01-78	11	Adams	NC	3.00%
1234-00-99	20	Buffalo	NW	5.00%
1234-00-98	33	Portage	NC	6.00%

The above projects have DBE goals and [Prime Contractor] is committed to DBE inclusion with every project. As such, we are requesting:

- All WisDOT Subcontractors to **solicit and utilize** DBEs in your quotes.
- DBE participation can be achieved through purchasing materials from DBE suppliers, using DBE subcontractors and/or DBE trucking firms or any combination of these.
- If there is an opportunity to untie an item in your quote so a DBE can be utilized, please look for those opportunities as well.
- Your quote will be evaluated based on the amount of DBE participation your company is able to provide when compared to other quotes for the same work.

If you do choose to quote, please make every effort to have your quote into our office by **time and date.** Please submit all quotes to [Email]. Make sure the correct letting date, project number, unit price and extension are included in your quote.

Should you have questions regarding the mentioned project, the Project Manager contact is: [Name] [Phone Number] [Email]

Thank you for utilizing DBEs who are trusted industry partners with WisDOT projects.

Prime Contractor
Project Manager
Direct: 414-555-5555
Cell: 414-555-5556

Appendix C
Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
    a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
    a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
    b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
    c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
    d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
    a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
    b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
    a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
    b. Easily locate pre-qualified and certified small and disadvantaged businesses.
    c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
    d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. The DBE will provide free SBN accounts to DBEs when requested. Use DBE_Alert@dot.wi.gov to request an account. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
    a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
    a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
    b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes. c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
    a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
    a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
    b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
    c. Add attachments to a sub-quote.
    d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
    a. Receive a confirmation that your sub-quote was opened by a prime.
    b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
    c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
    a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select “Order Bid Express.” The Small Business Network is a part of the Bid Express Basic Service.

Appendix D

Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications,and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

GFE Evaluation Rubric – Phase 1 – Initial Review

DT1202	Examples	Rating	OBOEC Feedback
Solicitation Documentation	Identify all reasonable and available activities performed to solicit the interest of all certified DBEs who have capacity and ability to perform work on the project. *Such as: Updated solicitation letter and email, timely solicitation, and follow-up, and/or utilized various methods to communicate solicitation (ex: letter, email, publication, posting and/or website)*		
Selected Work Items Documentation	All work items are broken out into economically feasible units to facilitate DBE participation. *Such as: Selected work items are specific to each proposal and clearly identified in all solicitation(s)*		
Documentation of Project Information provided to Interested DBEs	Provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation. *Such as: Project information is clearly identified in all solicitation(s)*		
Documentation of Negotiation with Interested DBEs	Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting. *Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation*		
Documentation of Sound Reason for Rejecting DBEs	Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons. *Such as: Detailed and thoughtful analysis that considers both the percentage and dollar difference when rejecting a DBE including past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, and other tangible factors.*		
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials	Documented assistance in both solicitation(s) and outreach to DBEs.		
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support	Effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well participation in activities that support DBE business development. *Such as: Variety of activities that translate into meaningful DBE participation*		
Documentation of other GFE activities	*Such as: Used DT1202 Excel Workbook, Diversity & Inclusion company policy, Mentor-Protégé participant, awarded neutral DBE after bid submission, included company GFE overview/strategy information and/or company website highlights DBE opportunities and participation*		
Overall Demonstration of GFE			

GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review

Documentation provided by bidder is evaluated and rated on the rubric. Bidders should include activities characterized by the following types of effort:

ACTIVE & AGGRESSIVE: Demonstrated through engaged and assertive activity
QUALITY: Demonstrated through essential character of conscientious and serious activity
QUANTITY: Demonstrated through a measurable number of activities
SCOPE & INTENSITY: Demonstrated through a rigorous approach to an appropriate and purposeful range of activities
TIMING: Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process

GFE EVALUATION – PHASE 2 – Team Review

GFE Team completes:

- Review of activities included on the rubric
- Review of the intent to award and sound reasoning submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 constitute final GFE determination

Rating Scale:

- **GFE Approval:**
  Bona Fide = 6 or more categories color coded green.
  Genuine effort characterized by sincere and earnest activities – "Solicitation" and "Sound Reasoning" must be green

- **GFE Approval:**
  Sufficient = 5 or more categories color coded green or yellow
  Adequate effort documented with a variety of quality activities – "Solicitation" and "Sound Reasoning" must be green or yellow

- **GFE Denial:**
  Pro Forma efforts = 4 or less categories color coded green or yellow. Perfunctory effort characterized by routine or superficial activities

Green = Exceeds expectations
Yellow = Meets expectations
Red = Areas in need of attention and/or absence of documentation **See OBOEC Rubric Analysis_Feedback**

Excerpt from Appendix A to 49 CFR Part 26:
V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed

GFE RUBRIC ANALYSIS	
OBOEC DECISION	APPROVAL OR DENIAL
Prime Contractor	
Proposal	
Project	
Bid Letting	
DBE Goal Amount	
DBE Goal Amount Achieved	
Bid Analysis	
Goal %	Achieved %
Apparent Low Bidder	%
Bidder B	
Bidder C	
Average of OTHER Bidders (Not including Apparent Low Bidder)	
DBE Quotes Received	
DBE Quotes Awarded	
DBE Quote(s) Rejected	**Rejected Quote Analysis**
DBE Quote(s) Awarded	**Awarded DBE Amount**

Appendix E
Good Faith Effort Best Practices

This list is not a set of requirements; it is a list of potential strategies

Primes

- Prime contractor open houses inviting DBE firms to see the bid "war room" or providing technical assistance.
- Participate in speed networking and mosaic exercises as arranged by DBE office.
- Host information sessions not directly associated with a bid letting.
- Participate in a formal mentor protégé or joint venture with a DBE firm.
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Facilitate a small group DBE 'training session' clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications, and communication methods.
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Quality of communication, not quantity creates the best results. Contractors should be thorough in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the 'apparent low bidder' list and bid tabs at a minimum.
- Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation related projects of similar size and scope, firm expertise and staffing.
- Participate in DBE office assessment programs.
- Participate on advisory and mega-project committees.
- Sign up to receive the DBE Contracting Update.
- Consider membership in relevant industry or contractor organizations.
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the Department are the only ways to get work.

Appendix F
Good Faith Effort Evaluation Guidance
Appendix A of 49 CFR Part 26

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) Conducing market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. (1) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

Appendix G

(SAMPLE) Forms DT1506 and DT1202

Official Form DT1506 can be found here: https://wisconsindot.gov/Documents/formdocs/dt1506.pdf

COMMITMENT TO SUBCONTRACT TO DBE

Clear

Wisconsin Department of Transportation

DT1506 12/2021 s.84.06(2) Wis. Stats. ☐ Non-Traditional Project

Project ID: _____

Proposal # _____

Prime Contractor: _____

County: _____

Letting Date: _____

Total $ Value of Prime Contract: $ _____

DBE Contract Goal: _____ %

DBE Goal Achieved: 0.00 %

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. The submittal of this form with the bid proposal constitutes your DBE commitment. Include Attachment A for DBEs included on commitment.

This form must be completed and returned for this proposal. See page 2 for instructions.

1. DBE Firm	2. Work or Items to be subcontracted	3. Supplier Y/N	4. Trucking Only	5. DBE Full Subcontract $	6. DBE Amount for Credit $
			O# L#		
			O# L#		
			O# L#		
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			O# L#		
			O# L#		
			O# L#		
				$ 0.00	$ 0.00

Government Use Only Approved Amounts		
A =	$	%
V =	$	%
Total =	$	%

Signature:

Date:

Good faith effort approved: Yes ☐ No ☐

Prime Representative Signature & Date

DBE Office Signature & Date Approved

COMMITMENT TO SUBCONTRACT TO DBE
ATTACHMENT A

CONFIRMATION OF PARTICIPATION

Project I.D.:	Proposal Number:
Letting Date:	

Name of DBE Firm Participating in this Contract:	
Name of the Prime/Subcontractor who hired the DBE Firm: *(list all names of tiers if more than one)*	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

FOR PRIME CONTRACTORS ONLY: I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

FOR PARTICIPATING DBE FIRMS ONLY: I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
FOR DBE TRUCKING FIRMS ONLY: I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks as listed below.	Participating DBE Firm (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

☐ Off site Hauling

Official Form DT1506 can be found here: https://wisconsindot.gov/Documents/formdocs/dt1506.pdf

DOCUMENTATION OF GOOD FAITH EFFORT

Wisconsin Department of Transportation
DT1202 3/2020

Project ID	Proposal No.	Letting
Prime Contractor		County
Person Submitting Document		Telephone Number
Address		Email Address

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

Instructions: Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items, organized in the order listed below.

1. **Solicitation Documentation:**
   - a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
   - b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications; substantive conversations; pre-bid meetings; networking events; market research; advertising.
2. **Selected Work Items Documentation:**
   - a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
   - b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
3. **Documentation of Project Information provided to Interested DBEs:**
   - a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
   - b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

4. **Documentation of Negotiation with Interested DBEs:**
   a. **Purpose:** To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

   b. **Action:** Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

5. **Documentation of Sound Reason for Rejecting DBEs:**
   a. **Purpose:** To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

   b. **Action:** Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

6. **Documentation of Assistance to Interested DBEs - Bonding, Credit, Insurance, Equipment, Supplies/Materials:**
   a. **Purpose:** To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

   b. **Action:** Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

7. **Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:**
   a. **Purpose:** To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

   b. **Action:** Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:
Wisconsin Department of Transportation
DBE Program Office
PO Box 7965
Madison, WI 53707-7965
DBE_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

(Bidder/Authorized Representative Signature)

(Print Name)

(Title)

Good Faith Effort -- Sample Documentation Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote

SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email, left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: https://wisconsindot.gov/pages/global-footer/formdocs/default.aspx

ADDITIONAL SPECIAL PROVISION 4

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

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

Acceptance and Final Payment

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.

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 $2.55 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.

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107 Legal Relations and Responsibility to the Public

Add subsection 107.27 effective with the November 2024 letting.

107.27 Drones or Unmanned Aircraft Systems (UAS)

107.27.1 Licensing and Compliance

(1) Obtain and possess the necessary Federal Aviation Administration (FAA) licenses and certifications to operate drones commercially (https://www.faa.gov/uas).

(2) Comply with all FAA regulations, airspace restrictions, and local laws. Operators of small drones that are less than 55 pounds for work or business must follow all requirements as listed in Title 14, Chapter 1, Subchapter F, Part 107 of the Code of Federal Regulations (14 CFR) and obtain a remote pilot certificate (https://www.faa.gov/uas/commercial_operators).

(3) Comply with Wisconsin State Statute 942.10. Limit operations to the specific approved purpose and employ reasonable precautions to avoid capturing images of the public except those that are incidental to the project.

(4) Provide copies of waivers required for specific project conditions to the engineer prior to any flight.

107.27.2 Flight Approval, Safety, and Incident Reporting

(1) Submit information in 107.27.2(2) to obtain written drone flight approval from the engineer at least 3 business days prior to operating a drone within the right-of-way. Do not operate a drone within the right-of-way unless approved by the engineer.

(2) Drone flight application for review and approval must include:

- UAS pilot information and qualifications, images of certification
- UAS drone information and FAA tail numbers
- Max/ Min allowable flight parameters (weather)
- Specifics of flight mission: capture scope
- Estimated flight duration
- Pre-flight checklist
- Site-specific parameters
- Notification protocols - Federal/Local/Agency/Owner/Responsible in Charge
- Confirmation and verification of approved operators and hardware
- Flight plan map diagram (including launch and landing location)
- FAA-Airspace flight map classification and confirmation with graphics
- UAS incident management protocol

(3) If contractor is requesting multiple types of the same flight, a simplified request can be submitted listing weekly flight plan.

(4) Safety measures must include but are not limited to:

- Regular training and updates on drone regulations are required and must be provided upon request.
- Drones must be operated in accordance with safety guidelines, including maintaining a safe distance from people, structures, vehicles, etc.
- Conduct a pre-flight safety assessment, considering weather conditions, airspace restrictions, and potential hazards.
- Emergency procedures (e.g., drone malfunction, loss of control) must be documented and followed.
- All incidents must be reported to the engineer.

(5) If the drone has an incident during flight, report the following to the engineer:

- Incident background and details.
- FAA (14 CFR 107.9) and NTSB (49 CFR 870) notification protocol.
- Contractor internal notification protocol.

107.27.3 Insurance Requirements

(1) Maintain drone liability insurance with the following limits.

1. For drones weighing 10 pounds or less, a liability policy with a minimum limit of $1,000,000.00 is required.

2. For drones weighing more than 10 pounds and less than or equal to 20 pounds, a liability policy with a minimum limit of $2,000,000.00 is required.
3. For drones weighing more than 20 pounds, notify engineer and department will determine appropriate liability policy coverage levels based on size, use, location, and other risk factors.

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646 Pavement Markings

646.3.2.4 Black Epoxy

Replace paragraph (1) with the following effective with the November 2024 letting.

(1) Apply black epoxy in a grooved slot directly after the white marking. Apply epoxy at a wet mil thickness of 20. Apply black aggregate at or exceeding 25 pounds per gallon of epoxy. Do not apply glass beads to black epoxy.

ERRATA

204.3.1.3 Salvaging or Disposal of Materials

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.5.

204.3.2.3 Removing Buildings

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.5.

335.3.2 Rubblizing

Replace paragraph (6) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(6) Remove reinforcing steel exposed at the surface by cutting below the surface and disposing of the steel as specified in 203.3.5. Do not remove unexposed reinforcing steel.

335.3.3 Compacting

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Remove loose asphaltic patching material, joint fillers, expansion material, or other similar materials from the compacted surface. Also remove pavement or patches that have a maximum dimension greater than or equal to 6 inches that are either not well seated or projecting more than one inch. Dispose of removed material as specified in 203.3.5.

526.3.4 Construction, Backfilling, Inspection and Maintenance

Replace paragraph (3) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(3) Maintain temporary structures and approaches in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5. Contractor-furnished materials remain the contractor's property upon removal.

602.3.6 Concrete Rumble Strips

Replace paragraph (5) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(5) At the end of each workday, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.5; do not place on the finished shoulder surface.

604.2 Materials

Replace paragraph (1) with the following information to remove line and link for crushed aggregate effective with the November 2024 letting. The crushed aggregate gradation information for slope paving is now found in 604.2(3).

(1) Furnish materials conforming to the following:

Water	501.2
Select crushed material	312.2
Concrete	501
Reinforcement	505
Expansion joint filler	415.2.3
Asphaltic materials	455.2

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. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
6. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.

B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to 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

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

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Non-segregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
XI. Certification Regarding Use of Contract Funds for Lobbying
XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (*see* 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

> "It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:
(1) Withholding monthly progress payments;
(2) Assessing sanctions;
(3) Liquidated damages; and/or
(4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than $10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided,* That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH–1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to *DBAconformance@dol.gov*. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to *DBAconformance@dol.gov*, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided,* That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. *Basic record requirements* (1) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.,* the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH–347 or in any other format desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division website at *https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347/.pdf* or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3; and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH–347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 3729.

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or 29 CFR part 1 or 3; or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or 29 CFR part 1 or 3.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* $31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of $150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant 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 first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/). 2 CFR 180.300, 180.320, and 180.325.

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

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant 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 or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) 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, 2 CFR 180.800;

(3) 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 offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. 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 participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant 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 or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B) This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

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).

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

County	%	County	%	County	%
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

   As referred to in this section, the Director means:

   Director
   Office of Federal Contract Compliance Programs
   Ruess Federal Plaza
   310 W. Wisconsin Ave., Suite 1115
   Milwaukee, WI 53202

   The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

BUY AMERICA PROVISION

Buy America (as documented in 88 FR 57750 (2 CFR part 184 and 200) from the Office of Management and Budget: Federal Register: Guidance for Grants and Agreements) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

1. Iron and Steel

   All iron and steel manufacturing and coating processes (from the initial melting stage through the application of coatings) 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 the iron and steel manufacturing and coating processes Buy America 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.

2. Manufactured Product

   All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983 and are currently exempt from Buy America.

3. Construction Material

   All construction materials (as defined in 88 FR 57750 (2 CFR part 184 and 200) and as referenced in CMM 228.5) must comply with Buy America. All manufacturing process of construction materials must occur in the United States.

88 FR 55817 (DOT-OST-2022-0124) allows a limited waiver of Buy America requirements for de minimis costs and small grants.

- The Total value of the non-compliant products is no more than the lesser of $1,000,000 or 5% of total applicable costs for the project[1]; or
- The total amount of Federal financial assistance applied to the project, through awards or subaward, is below $500,000[2]

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Buy America provision.

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

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Attach a list of iron or steel and construction material exemptions and their associated costs to the certification form using the Buy America Exemption Tracking Tool, available at:

https://wisconsindot.gov/hccidocs/contracting-info/buy-america-exemption-tracking-tool.xlsx

1 The de minimis public interest waiver does not apply to iron and steel subject to the requirements of 23 U.S.C. 313 on financial assistant administered by FHWA. The de minimis threshold in 23 CFR 635.410(b)(4) continues to apply for iron and steel.
2 The small grant portion of the waiver does not apply to iron, steel, and manufactured goods subject to the requirements of 49 U.S.C. 22905(a).

CARGO PREFERENCE ACT REQUIREMENT

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses.* "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) *Contractor and Subcontractor Clauses.* "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS FOR PROJECTS WITH FEDERAL AID

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. Itis the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf

https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

"General Decision Number: WI20240010 09/06/2024

Superseded General Decision Number: WI20230010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

|_____|_____|

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024
1	01/26/2024
2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/24/2024
6	06/21/2024
7	06/28/2024
8	07/05/2024
9	08/02/2024
10	08/23/2024
11	09/06/2024

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 47.10	25.16

BRWI0002-005 06/01/2023

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,

CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.95	26.80

BRWI0008-002 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.96	25.67

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.00	26.06

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.32	26.74

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.56	26.19

CARP0068-011 05/02/2022

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

CARPENTER.....$ 41.91 29.72

CARP0310-002 06/03/2024

ADAMS, ASHLAND, BAYFIELD (Eastern 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (Western Portion of the County), TAYLOR, VILAS, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE,

WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1056-002 06/01/2024

ADAMS, ASHLAND, BARRON, BAYFIELD , BROWN, BUFFALO, BURNETT ,CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/03/2024

BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. of Hwy. 65), AND WASHBURN

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

ELEC0014-002 05/26/2024

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 42.73	23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area

networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/26/2024

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80

Electrical contracts under $180,000.....$ 31.75 21.73

ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 46.23	69.19%

ELEC0388-002 06/01/2023

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 46.70	25.02

ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 49.48	27.34

ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes

Electricians:.....$ 42.77 24.66

ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer	$ 36.03	18.87
Technician	$ 36.03	18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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* ELEC0577-003 05/26/2024

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	$ 40.00	22.69

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-005 06/01/2024

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 46.37	28.80
Group 2	$ 45.87	28.80
Group 3	$ 44.77	28.80
Group 4	$ 44.51	28.80
Group 5	$ 44.22	28.80
Group 6	$ 38.32	28.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or

cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminious paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender, day light machine

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

IRON0498-005 06/01/2023

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 45.18	47.08

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.14	34.00

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);

Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01
Group 5	$ 35.06	25.01
Group 6	$ 31.95	25.01

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

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* LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.32	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

 LABO0140-002 06/03/2024

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,

DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45
Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45
Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes

PAINTER
     Brush.....................$ 36.35   20.87

PREMIUM PAY:
  Structural Steel, Spray, Bridges = $1.00 additional per
  hour.

 PAIN0802-003 06/01/2024

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

                                  Rates   Fringes

PAINTER.........................$ 36.35   20.87

 PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

                                  Rates   Fringes

Painters:
     Brush.....................$ 38.67   26.32
     Spray.....................$ 39.67   26.32
     Structural Steel..........$ 38.82   26.32

 PAIN1011-002 06/02/2024

FLORENCE COUNTY

                                  Rates   Fringes

Painters:.......................$ 29.95   15.89

 PLAS0599-002 06/01/2023

                                  Rates   Fringes

CEMENT MASON/CONCRETE FINISHER
     Area A....................$ 45.17   27.27
     Area B....................$ 39.97   25.02
     Area C....................$ 40.40   25.25
     Area D....................$ 41.16   24.49

Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 37.57	27.41
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 37.72	27.41

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate

changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R ◆1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an

internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

NOTICE TO BIDDERS
WAGE RATE DECISION

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least $1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

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	201.0105 Clearing	528.000 STA	_____.____	_____.____
0004	201.0205 Grubbing	528.000 STA	_____.____	_____.____
0006	203.0100 Removing Small Pipe Culverts	3.000 EACH	_____.____	_____.____
0008	203.0220 Removing Structure (structure) 0001. 4' x 2.5' Box Culvert, STA 578+94 SB	1.000 EACH	_____.____	_____.____
0010	203.0220 Removing Structure (structure) 0802. Removing Structure C-44-0015	1.000 EACH	_____.____	_____.____
0012	203.0220 Removing Structure (structure) 0803. Removing Structure B-44-161	1.000 EACH	_____.____	_____.____
0014	203.0220 Removing Structure (structure) 0804. Removing Structure B-44-162	1.000 EACH	_____.____	_____.____
0016	203.0330 Debris Containment (structure) 0901. B-44-0339	1.000 EACH	_____.____	_____.____
0018	203.0330 Debris Containment (structure) 0902. B-44-0340	1.000 EACH	_____.____	_____.____
0020	204.0100 Removing Concrete Pavement	106,100.000 SY	_____.____	_____.____
0022	204.0115 Removing Asphaltic Surface Butt Joints	6.000 SY	_____.____	_____.____
0024	204.0120 Removing Asphaltic Surface Milling	3,618.000 SY	_____.____	_____.____
0026	204.0150 Removing Curb & Gutter	2,070.000 LF	_____.____	_____.____
0028	204.0157 Removing Concrete Barrier	8,171.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0030	204.0165 Removing Guardrail	6,253.000 LF	_____.____	_____.____
0032	204.0170 Removing Fence	25,680.000 LF	_____.____	_____.____
0034	204.0180 Removing Delineators and Markers	104.000 EACH	_____.____	_____.____
0036	204.0190 Removing Surface Drains	3.000 EACH	_____.____	_____.____
0038	204.0195 Removing Concrete Bases	8.000 EACH	_____.____	_____.____
0040	204.0210 Removing Manholes	1.000 EACH	_____.____	_____.____
0042	204.0220 Removing Inlets	31.000 EACH	_____.____	_____.____
0044	204.0245 Removing Storm Sewer (size) 0001. 12-Inch	230.000 LF	_____.____	_____.____
0046	204.0245 Removing Storm Sewer (size) 0002. 15-Inch	648.000 LF	_____.____	_____.____
0048	204.0245 Removing Storm Sewer (size) 0004. 18-Inch	1,232.000 LF	_____.____	_____.____
0050	204.0245 Removing Storm Sewer (size) 0006. 24-Inch	288.000 LF	_____.____	_____.____
0052	204.0245 Removing Storm Sewer (size) 0007. 30-Inch	225.000 LF	_____.____	_____.____
0054	204.0245 Removing Storm Sewer (size) 0008. 36-Inch	483.000 LF	_____.____	_____.____
0056	204.0245 Removing Storm Sewer (size) 0009. 42-Inch	106.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	204.0246 Removing Ancillary Structure (structure) 0001. S-44-016	1.000 EACH	_____.____	_____.____
0060	204.0270 Abandoning Culvert Pipes	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 0001. Abandoning Monitoring Well	4.000 EACH	_____.____	_____.____
0064	204.9060.S Removing (item description) 0103. Apron Endwalls	2.000 EACH	_____.____	_____.____
0066	204.9060.S Removing (item description) 0600. Anchor Bolt Cover Shrouds	3.000 EACH	_____.____	_____.____
0068	204.9060.S Removing (item description) 0700. Communication Vault	10.000 EACH	_____.____	_____.____
0070	205.0100 Excavation Common	247,651.000 CY	_____.____	_____.____
0072	205.0400 Excavation Marsh	100.000 CY	_____.____	_____.____
0074	206.1001 Excavation for Structures Bridges (structure) 0803. B-44-339	1.000 EACH	_____.____	_____.____
0076	206.1001 Excavation for Structures Bridges (structure) 0804. B-44-340	1.000 EACH	_____.____	_____.____
0078	206.2001 Excavation for Structures Culverts (structure) 0801. B-44-0347	1.000 EACH	_____.____	_____.____
0080	206.2001 Excavation for Structures Culverts (structure) 0802. B-44-0348	1.000 EACH	_____.____	_____.____
0082	209.0200.S Backfill Controlled Low Strength	13.000 CY	_____.____	_____.____
0084	209.1100 Backfill Granular Grade 1	150.000 CY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0086	210.1500 Backfill Structure Type A	12,715.000 TON	_____.____	_____.____
0088	210.2500 Backfill Structure Type B	10,800.000 TON	_____.____	_____.____
0090	211.0201 Prepare Foundation for Concrete Pavement (project) 0001. 1130-64-71	1.000 EACH	_____.____	_____.____
0092	213.0100 Finishing Roadway (project) 0001. Project 1130-64-71	1.000 EACH	_____.____	_____.____
0094	213.0100 Finishing Roadway (project) 0002. Project 1130-64-72	1.000 EACH	_____.____	_____.____
0096	305.0110 Base Aggregate Dense 3/4-Inch	3,360.000 TON	_____.____	_____.____
0098	305.0120 Base Aggregate Dense 1 1/4-Inch	102,859.000 TON	_____.____	_____.____
0100	310.0115 Base Aggregate Open-Graded	238.000 CY	_____.____	_____.____
0102	312.0110 Select Crushed Material	278,710.000 TON	_____.____	_____.____
0104	320.0105 Concrete Base 4-Inch	6,180.000 SY	_____.____	_____.____
0106	390.0100 Removing Pavement for Base Patching	50.000 CY	_____.____	_____.____
0108	390.0201 Base Patching Asphaltic	74.000 TON	_____.____	_____.____
0110	405.0100 Coloring Concrete WisDOT Red	51.000 CY	_____.____	_____.____
0112	415.0090 Concrete Pavement 9-Inch	16,160.000 SY	_____.____	_____.____
0114	415.0095 Concrete Pavement 9 1/2-Inch	1,230.000 SY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	415.0210 Concrete Pavement Gaps	1.000 EACH	_____.____	_____.____
0118	415.0410 Concrete Pavement Approach Slab	1,276.000 SY	_____.____	_____.____
0120	415.2010 Concrete Truck Apron 12-inch	40.000 SY	_____.____	_____.____
0122	416.0610 Drilled Tie Bars	1,376.000 EACH	_____.____	_____.____
0124	416.0620 Drilled Dowel Bars	234.000 EACH	_____.____	_____.____
0126	455.0605 Tack Coat	6,539.000 GAL	_____.____	_____.____
0128	460.2000 Incentive Density HMA Pavement	9,470.000 DOL	1.00000	9,470.00
0130	460.5223 HMA Pavement 3 LT 58-28 S	771.000 TON	_____.____	_____.____
0132	460.5224 HMA Pavement 4 LT 58-28 S	663.000 TON	_____.____	_____.____
0134	465.0105 Asphaltic Surface	5,167.000 TON	_____.____	_____.____
0136	465.0125 Asphaltic Surface Temporary	10,190.000 TON	_____.____	_____.____
0138	495.1000.S Cold Patch	10.000 TON	_____.____	_____.____
0140	501.1000.S Ice Hot Weather Concreting	23,545.000 LB	_____.____	_____.____
0142	502.0100 Concrete Masonry Bridges	2,233.000 CY	_____.____	_____.____
0144	502.3101 Expansion Device	440.000 LF	_____.____	_____.____
0146	502.3200 Protective Surface Treatment	4,720.000 SY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0148	502.3210 Pigmented Surface Sealer	1,817.000 SY	_____.____	_____.____
0150	502.4204 Adhesive Anchors No. 4 Bar	4.000 EACH	_____.____	_____.____
0152	503.0146 Prestressed Girder Type I 45W-Inch	3,578.000 LF	_____.____	_____.____
0154	504.0100 Concrete Masonry Culverts	1,558.000 CY	_____.____	_____.____
0156	504.0500 Concrete Masonry Retaining Walls	1,311.000 CY	_____.____	_____.____
0158	505.0400 Bar Steel Reinforcement HS Structures	497,894.000 LB	_____.____	_____.____
0160	505.0600 Bar Steel Reinforcement HS Coated Structures	621,730.000 LB	_____.____	_____.____
0162	505.0800.S Bar Steel Reinforcement HS Stainless Structures	5,100.000 LB	_____.____	_____.____
0164	506.2605 Bearing Pads Elastomeric Non-Laminated	48.000 EACH	_____.____	_____.____
0166	506.2610 Bearing Pads Elastomeric Laminated	32.000 EACH	_____.____	_____.____
0168	506.4000 Steel Diaphragms (structure) 0803. B-44-339	37.000 EACH	_____.____	_____.____
0170	506.4000 Steel Diaphragms (structure) 0804. B-44-340	28.000 EACH	_____.____	_____.____
0172	511.1200 Temporary Shoring (structure) 0801. B-44-0347	2,050.000 SF	_____.____	_____.____
0174	511.1200 Temporary Shoring (structure) 0802. B-44-0348	22,320.000 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

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	511.1200 Temporary Shoring (structure) 0803. B-44-339	6,900.000 SF	_____.____	_____.____
0178	511.1200 Temporary Shoring (structure) 0804. B-44-340	11,000.000 SF	_____.____	_____.____
0180	511.1200 Temporary Shoring (structure) 0901. R-44-28	22,452.000 SF	_____.____	_____.____
0182	513.2001 Railing Pipe	1,517.000 LF	_____.____	_____.____
0184	516.0500 Rubberized Membrane Waterproofing	670.000 SY	_____.____	_____.____
0186	520.2036 Culvert Pipe Temporary 36-Inch	150.000 LF	_____.____	_____.____
0188	520.8000 Concrete Collars for Pipe	4.000 EACH	_____.____	_____.____
0190	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	18.000 LF	_____.____	_____.____
0192	522.0415 Culvert Pipe Reinforced Concrete Class IV 15-Inch	115.000 LF	_____.____	_____.____
0194	522.0424 Culvert Pipe Reinforced Concrete Class IV 24-Inch	53.000 LF	_____.____	_____.____
0196	522.0442 Culvert Pipe Reinforced Concrete Class IV 42-Inch	53.000 LF	_____.____	_____.____
0198	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	12.000 EACH	_____.____	_____.____
0200	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	16.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0202	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	18.000 EACH	_____.____	_____.____
0204	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	5.000 EACH	_____.____	_____.____
0206	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	6.000 EACH	_____.____	_____.____
0208	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	4.000 EACH	_____.____	_____.____
0210	522.1072 Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	1.000 EACH	_____.____	_____.____
0212	522.2414 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	133.000 LF	_____.____	_____.____
0214	522.2614 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	7.000 EACH	_____.____	_____.____
0216	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	3.000 EACH	_____.____	_____.____
0218	522.2624 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	2.000 EACH	_____.____	_____.____
0220	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____.____	_____.____
0222	524.0618 Apron Endwalls for Culvert Pipe Salvaged 18-Inch	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0224	524.0630 Apron Endwalls for Culvert Pipe Salvaged 30-Inch	1.000 EACH	_____.____	_____.____
0226	524.0636 Apron Endwalls for Culvert Pipe Salvaged 36-Inch	1.000 EACH	_____.____	_____.____
0228	524.0642 Apron Endwalls for Culvert Pipe Salvaged 42-Inch	1.000 EACH	_____.____	_____.____
0230	531.1100 Concrete Masonry Ancillary Structures Type NS	76.200 CY	_____.____	_____.____
0232	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	6,642.000 LB	_____.____	_____.____
0234	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	6,630.000 LB	_____.____	_____.____
0236	531.2024 Drilling Shaft 24-Inch	143.000 LF	_____.____	_____.____
0238	531.2030 Drilling Shaft 30-Inch	60.000 LF	_____.____	_____.____
0240	531.2036 Drilling Shaft 36-Inch	402.000 LF	_____.____	_____.____
0242	531.2042 Drilling Shaft 42-Inch	158.000 LF	_____.____	_____.____
0244	531.2048 Drilling Shaft 48-Inch	46.000 LF	_____.____	_____.____
0246	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0248	531.5030 Foundation Two-Shaft Butterfly Type B-1 (structure) 1001. S-44-350	1.000 EACH	_____.____	_____.____
0250	531.5030 Foundation Two-Shaft Butterfly Type B-1 (structure) 1002. S-44-363	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0252	531.5330 Foundation Single-Shaft Type TC-III (structure) 1001. S-44-0333	1.000 EACH	_____.____	_____.____
0254	531.5330 Foundation Single-Shaft Type TC-III (structure) 1002. S-44-0334	1.000 EACH	_____.____	_____.____
0256	531.5420 Foundation Single-Shaft Type TF-II (structure) 0001. S-44-347	2.000 EACH	_____.____	_____.____
0258	531.6120 Foundation Two-Shaft Type FF-II (structure) 1001. S-44-348	2.000 EACH	_____.____	_____.____
0260	531.6120 Foundation Two-Shaft Type FF-II (structure) 1002. S-44-349	2.000 EACH	_____.____	_____.____
0262	531.6120 Foundation Two-Shaft Type FF-II (structure) 1003. S-44-0322	2.000 EACH	_____.____	_____.____
0264	531.6120 Foundation Two-Shaft Type FF-II (structure) 1004. S-44-0330	2.000 EACH	_____.____	_____.____
0266	531.6130 Foundation Two-Shaft Type FF-III (structure) 0001. S-44-0323	2.000 EACH	_____.____	_____.____
0268	531.8990 Anchor Assemblies Poles on Structures	5.000 EACH	_____.____	_____.____
0270	532.5030 Butterfly 2-Chord Type 1 (structure) 1001. S-44-350	1.000 EACH	_____.____	_____.____
0272	532.5030 Butterfly 2-Chord Type 1 (structure) 1002. S-44-363	1.000 EACH	_____.____	_____.____
0274	532.5220 Monotube Full Span Type II (structure) 0001. S-44-347	1.000 EACH	_____.____	_____.____
0276	532.5330 Truss Cantilever 2-Chord Type III (structure) 1001. S-44-0333	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0278	532.5330 Truss Cantilever 2-Chord Type III (structure) 1002. S-44-0334	1.000 EACH	_____.____	_____.____
0280	532.6120 Truss Full Span 4-Chord Type II (structure) 1001. S-44-348	1.000 EACH	_____.____	_____.____
0282	532.6120 Truss Full Span 4-Chord Type II (structure) 1002. S-44-349	1.000 EACH	_____.____	_____.____
0284	532.6120 Truss Full Span 4-Chord Type II (structure) 1003. S-44-0322	1.000 EACH	_____.____	_____.____
0286	532.6120 Truss Full Span 4-Chord Type II (structure) 1004. S-44-0330	1.000 EACH	_____.____	_____.____
0288	532.6120 Truss Full Span 4-Chord Type II (structure) 1005. S-44-332	1.000 EACH	_____.____	_____.____
0290	532.6130 Truss Full Span 4-Chord Type III (structure) 0001. S-44-0323	1.000 EACH	_____.____	_____.____
0292	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0951. N-44-0011	69,860.000 SF	_____.____	_____.____
0294	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0952. N-44-0020	55,530.000 SF	_____.____	_____.____
0296	550.0020 Pre-Boring Rock or Consolidated Materials	5,220.000 LF	_____.____	_____.____
0298	550.0500 Pile Points	228.000 EACH	_____.____	_____.____
0300	550.1120 Piling Steel HP 12-Inch X 53 Lb	9,870.000 LF	_____.____	_____.____
0302	550.2106 Piling CIP Concrete 10 3/4 X 0.365-Inch	15,081.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

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	601.0405 Concrete Curb & Gutter 18-Inch Type A	1,610.000 LF	_____.____	_____.____
0306	601.0409 Concrete Curb & Gutter 30-Inch Type A	1,129.000 LF	_____.____	_____.____
0308	601.0411 Concrete Curb & Gutter 30-Inch Type D	1,450.000 LF	_____.____	_____.____
0310	601.0501 Concrete Curb & Gutter Integral 4-Inch Sloped 36-Inch	62.000 LF	_____.____	_____.____
0312	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	1,270.000 LF	_____.____	_____.____
0314	601.0588 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	19.000 LF	_____.____	_____.____
0316	601.0600 Concrete Curb Pedestrian	72.000 LF	_____.____	_____.____
0318	602.0405 Concrete Sidewalk 4-Inch	4,290.000 SF	_____.____	_____.____
0320	602.0415 Concrete Sidewalk 6-Inch	111.000 SF	_____.____	_____.____
0322	602.0505 Curb Ramp Detectable Warning Field Yellow	80.000 SF	_____.____	_____.____
0324	602.3210 Concrete Rumble Strips, Shoulder Divided Roadway	52,255.000 LF	_____.____	_____.____
0326	603.0105 Concrete Barrier Single-Faced 32-Inch	2,850.000 LF	_____.____	_____.____
0328	603.1256 Concrete Barrier Type S56A	120.000 LF	_____.____	_____.____
0330	603.1442 Concrete Barrier Type S42C	228.000 LF	_____.____	_____.____
0332	603.1456 Concrete Barrier Type S56C	61.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0334	603.3113 Concrete Barrier Transition Type NJ32SF to S36	4.000 EACH	_____.____	_____.____
0336	603.3513 Concrete Barrier Transition Type S32 to S36	2.000 EACH	_____.____	_____.____
0338	603.3535 Concrete Barrier Transition Type S36 to S42	6.000 EACH	_____.____	_____.____
0340	603.3559 Concrete Barrier Transition Type S42 to S56	4.000 EACH	_____.____	_____.____
0342	603.8000 Concrete Barrier Temporary Precast Delivered	63,364.000 LF	_____.____	_____.____
0344	603.8125 Concrete Barrier Temporary Precast Installed	172,079.000 LF	_____.____	_____.____
0346	603.8500 Anchoring Concrete Barrier Temporary Precast	6,010.000 LF	_____.____	_____.____
0348	604.0600 Slope Paving Select Crushed Material	3,242.000 SY	_____.____	_____.____
0350	606.0050 Riprap Extra-Light	732.000 CY	_____.____	_____.____
0352	606.0200 Riprap Medium	1,231.000 CY	_____.____	_____.____
0354	606.0300 Riprap Heavy	193.000 CY	_____.____	_____.____
0356	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	26.000 LF	_____.____	_____.____
0358	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	471.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0360	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	867.000 LF	_____.____	_____.____
0362	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	1,588.000 LF	_____.____	_____.____
0364	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	1,007.000 LF	_____.____	_____.____
0366	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	889.000 LF	_____.____	_____.____
0368	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	92.000 LF	_____.____	_____.____
0370	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	581.000 LF	_____.____	_____.____
0372	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	4,620.000 LF	_____.____	_____.____
0374	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	4,954.000 LF	_____.____	_____.____
0376	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	472.000 LF	_____.____	_____.____
0378	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	2,428.000 LF	_____.____	_____.____
0380	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	1,618.000 LF	_____.____	_____.____
0382	608.0472 Storm Sewer Pipe Reinforced Concrete Class IV 72-Inch	75.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0384	608.2324 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	134.000 LF	_____.____	_____.____
0386	608.2414 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	438.000 LF	_____.____	_____.____
0388	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	115.000 LF	_____.____	_____.____
0390	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	613.000 LF	_____.____	_____.____
0392	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	733.000 LF	_____.____	_____.____
0394	611.0420 Reconstructing Manholes	100.000 EACH	_____.____	_____.____
0396	611.0430 Reconstructing Inlets	15.000 EACH	_____.____	_____.____
0398	611.0530 Manhole Covers Type J	18.000 EACH	_____.____	_____.____
0400	611.0535 Manhole Covers Type J-Special	16.000 EACH	_____.____	_____.____
0402	611.0606 Inlet Covers Type B	2.000 EACH	_____.____	_____.____
0404	611.0610 Inlet Covers Type BW	26.000 EACH	_____.____	_____.____
0406	611.0612 Inlet Covers Type C	10.000 EACH	_____.____	_____.____
0408	611.0624 Inlet Covers Type H	6.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0410	611.0627 Inlet Covers Type HM	4.000 EACH	_____.____	_____.____
0412	611.0636 Inlet Covers Type HM-S	2.000 EACH	_____.____	_____.____
0414	611.0639 Inlet Covers Type H-S	7.000 EACH	_____.____	_____.____
0416	611.0642 Inlet Covers Type MS	31.000 EACH	_____.____	_____.____
0418	611.0654 Inlet Covers Type V	1.000 EACH	_____.____	_____.____
0420	611.0656 Inlet Covers Type VV-B	233.000 EACH	_____.____	_____.____
0422	611.0666 Inlet Covers Type Z	5.000 EACH	_____.____	_____.____
0424	611.2004 Manholes 4-FT Diameter	4.000 EACH	_____.____	_____.____
0426	611.2005 Manholes 5-FT Diameter	188.000 EACH	_____.____	_____.____
0428	611.2006 Manholes 6-FT Diameter	33.000 EACH	_____.____	_____.____
0430	611.2007 Manholes 7-FT Diameter	16.000 EACH	_____.____	_____.____
0432	611.2008 Manholes 8-FT Diameter	4.000 EACH	_____.____	_____.____
0434	611.2010 Manholes 10-FT Diameter	2.000 EACH	_____.____	_____.____
0436	611.2033 Manholes 3x3-FT	3.000 EACH	_____.____	_____.____
0438	611.3003 Inlets 3-FT Diameter	12.000 EACH	_____.____	_____.____
0440	611.3004 Inlets 4-FT Diameter	6.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0442	611.3225 Inlets 2x2.5-FT	13.000 EACH	_____.____	_____.____
0444	611.3230 Inlets 2x3-FT	11.000 EACH	_____.____	_____.____
0446	611.3901 Inlets Median 1 Grate	11.000 EACH	_____.____	_____.____
0448	611.3902 Inlets Median 2 Grate	8.000 EACH	_____.____	_____.____
0450	611.8110 Adjusting Manhole Covers	44.000 EACH	_____.____	_____.____
0452	611.8115 Adjusting Inlet Covers	6.000 EACH	_____.____	_____.____
0454	611.8120.S Cover Plates Temporary	232.000 EACH	_____.____	_____.____
0456	611.9710 Salvaged Inlet Covers	2.000 EACH	_____.____	_____.____
0458	611.9850.S Pipe Grates (size) 0001. 30-Inch	1.000 EACH	_____.____	_____.____
0460	612.0106 Pipe Underdrain 6-Inch	7,858.000 LF	_____.____	_____.____
0462	612.0206 Pipe Underdrain Unperforated 6-Inch	60.000 LF	_____.____	_____.____
0464	612.0406 Pipe Underdrain Wrapped 6-Inch	7,131.000 LF	_____.____	_____.____
0466	614.0150 Anchor Assemblies for Steel Plate Beam Guard	1.000 EACH	_____.____	_____.____
0468	614.0397 Guardrail Mow Strip Emulsified Asphalt	387.000 SY	_____.____	_____.____
0470	614.0800 Crash Cushions Permanent	1.000 EACH	_____.____	_____.____
0472	614.0905 Crash Cushions Temporary	49.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0474	614.2300 MGS Guardrail 3	350.000 LF	_____.____	_____.____
0476	614.2340 MGS Guardrail 3 L	25.000 LF	_____.____	_____.____
0478	614.2500 MGS Thrie Beam Transition	197.000 LF	_____.____	_____.____
0480	614.2610 MGS Guardrail Terminal EAT	5.000 EACH	_____.____	_____.____
0482	616.0205 Fence Chain Link 5-FT	10.000 LF	_____.____	_____.____
0484	616.0206 Fence Chain Link 6-FT	21,344.000 LF	_____.____	_____.____
0486	616.0329 Gates Chain Link (width) 0001. 12-FT	1.000 EACH	_____.____	_____.____
0488	616.0700.S Fence Safety	1,300.000 LF	_____.____	_____.____
0490	616.0800.S Fence Track Clearance	560.000 LF	_____.____	_____.____
0492	618.0100 Maintenance and Repair of Haul Roads (project) 0001. Project 1130-64-71	1.000 EACH	_____.____	_____.____
0494	618.0100 Maintenance and Repair of Haul Roads (project) 0002. Project 1130-64-72	1.000 EACH	_____.____	_____.____
0496	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0498	620.0300 Concrete Median Sloped Nose	102.000 SF	_____.____	_____.____
0500	623.0200 Dust Control Surface Treatment	293,300.000 SY	_____.____	_____.____
0502	624.0100 Water	2,690.000 MGAL	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0504	625.0500 Salvaged Topsoil	185,200.000 SY	_____.____	_____.____
0506	628.1504 Silt Fence	10,270.000 LF	_____.____	_____.____
0508	628.1520 Silt Fence Maintenance	48,100.000 LF	_____.____	_____.____
0510	628.1530.S Silt Fence Heavy Duty	900.000 LF	_____.____	_____.____
0512	628.1535.S Silt Fence Heavy Duty Maintenance	13,500.000 LF	_____.____	_____.____
0514	628.1905 Mobilizations Erosion Control	63.000 EACH	_____.____	_____.____
0516	628.1910 Mobilizations Emergency Erosion Control	42.000 EACH	_____.____	_____.____
0518	628.2004 Erosion Mat Class I Type B	173,600.000 SY	_____.____	_____.____
0520	628.2008 Erosion Mat Urban Class I Type B	14,030.000 SY	_____.____	_____.____
0522	628.7005 Inlet Protection Type A	286.000 EACH	_____.____	_____.____
0524	628.7010 Inlet Protection Type B	349.000 EACH	_____.____	_____.____
0526	628.7015 Inlet Protection Type C	17.000 EACH	_____.____	_____.____
0528	628.7020 Inlet Protection Type D	16.000 EACH	_____.____	_____.____
0530	628.7504 Temporary Ditch Checks	3,105.000 LF	_____.____	_____.____
0532	628.7515.S Stone Ditch Checks	156.000 CY	_____.____	_____.____
0534	628.7555 Culvert Pipe Checks	169.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0536	628.7560 Tracking Pads	12.000 EACH	_____.____	_____.____
0538	628.7570 Rock Bags	895.000 EACH	_____.____	_____.____
0540	629.0210 Fertilizer Type B	83.000 CWT	_____.____	_____.____
0542	630.0130 Seeding Mixture No. 30	8,390.000 LB	_____.____	_____.____
0544	630.0200 Seeding Temporary	620.000 LB	_____.____	_____.____
0546	630.0500 Seed Water	4,300.000 MGAL	_____.____	_____.____
0548	633.0100 Delineator Posts Steel	81.000 EACH	_____.____	_____.____
0550	633.0500 Delineator Reflectors	81.000 EACH	_____.____	_____.____
0552	633.1000 Delineators Barrier Wall	165.000 EACH	_____.____	_____.____
0554	633.5200 Markers Culvert End	77.000 EACH	_____.____	_____.____
0556	634.0614 Posts Wood 4x6-Inch X 14-FT	12.000 EACH	_____.____	_____.____
0558	634.0616 Posts Wood 4x6-Inch X 16-FT	20.000 EACH	_____.____	_____.____
0560	634.0618 Posts Wood 4x6-Inch X 18-FT	11.000 EACH	_____.____	_____.____
0562	634.0808 Posts Tubular Steel 2x2-Inch X 8-FT	52.000 EACH	_____.____	_____.____
0564	635.0200 Sign Supports Structural Steel HS	10,730.000 LB	_____.____	_____.____
0566	637.1220 Signs Type I Reflective SH	3,926.500 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0568	637.1230 Signs Type I Reflective F	90.000 SF	_____.____	_____.____
0570	637.2210 Signs Type II Reflective H	804.750 SF	_____.____	_____.____
0572	637.2215 Signs Type II Reflective H Folding	20.720 SF	_____.____	_____.____
0574	637.2230 Signs Type II Reflective F	132.000 SF	_____.____	_____.____
0576	638.2102 Moving Signs Type II	52.000 EACH	_____.____	_____.____
0578	638.2601 Removing Signs Type I	12.000 EACH	_____.____	_____.____
0580	638.2602 Removing Signs Type II	58.000 EACH	_____.____	_____.____
0582	638.3000 Removing Small Sign Supports	73.000 EACH	_____.____	_____.____
0584	638.3100 Removing Structural Steel Sign Supports	16.000 EACH	_____.____	_____.____
0586	640.1303.S Pond Liner Clay	4,726.000 CY	_____.____	_____.____
0588	643.0300 Traffic Control Drums	247,951.000 DAY	_____.____	_____.____
0590	643.0410 Traffic Control Barricades Type II	330.000 DAY	_____.____	_____.____
0592	643.0420 Traffic Control Barricades Type III	10,809.000 DAY	_____.____	_____.____
0594	643.0500 Traffic Control Flexible Tubular Marker Posts	126.000 EACH	_____.____	_____.____
0596	643.0600 Traffic Control Flexible Tubular Marker Bases	126.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0598	643.0705 Traffic Control Warning Lights Type A	21,598.000 DAY	_____.____	_____.____
0600	643.0715 Traffic Control Warning Lights Type C	22,354.000 DAY	_____.____	_____.____
0602	643.0800 Traffic Control Arrow Boards	2,705.000 DAY	_____.____	_____.____
0604	643.0900 Traffic Control Signs	110,254.000 DAY	_____.____	_____.____
0606	643.0910 Traffic Control Covering Signs Type I	23.000 EACH	_____.____	_____.____
0608	643.0920 Traffic Control Covering Signs Type II	34.000 EACH	_____.____	_____.____
0610	643.1000 Traffic Control Signs Fixed Message	835.500 SF	_____.____	_____.____
0612	643.1050 Traffic Control Signs PCMS	2,292.000 DAY	_____.____	_____.____
0614	643.3165 Temporary Marking Line Paint 6-Inch	227,801.000 LF	_____.____	_____.____
0616	643.3170 Temporary Marking Line Epoxy 6-Inch	93,708.000 LF	_____.____	_____.____
0618	643.3265 Temporary Marking Line Paint 10-Inch	11,247.000 LF	_____.____	_____.____
0620	643.3270 Temporary Marking Line Epoxy 10-Inch	3,036.000 LF	_____.____	_____.____
0622	643.3760 Temporary Marking Raised Pavement Marker Type I	498.000 EACH	_____.____	_____.____
0624	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0626	644.1601 Temporary Pedestrian Curb Ramp	305.000 DAY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0628	644.1605 Temporary Pedestrian Detectable Warning Field	136.000 SF	_____.____	_____.____
0630	644.1810 Temporary Pedestrian Barricade	1,500.000 LF	_____.____	_____.____
0632	645.0111 Geotextile Type DF Schedule A	3,493.000 SY	_____.____	_____.____
0634	645.0120 Geotextile Type HR	10,790.000 SY	_____.____	_____.____
0636	645.0130 Geotextile Type R	165.000 SY	_____.____	_____.____
0638	646.2020 Marking Line Epoxy 6-Inch	84,460.000 LF	_____.____	_____.____
0640	646.2025 Marking Line Grooved Black Epoxy 6-Inch	300.000 LF	_____.____	_____.____
0642	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	4,010.000 LF	_____.____	_____.____
0644	646.2050 Marking Line Grooved Permanent Tape 6-Inch	300.000 LF	_____.____	_____.____
0646	646.4020 Marking Line Epoxy 10-Inch	7,629.000 LF	_____.____	_____.____
0648	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	261.000 LF	_____.____	_____.____
0650	646.4050 Marking Line Grooved Permanent Tape 10-Inch	1,574.000 LF	_____.____	_____.____
0652	646.5020 Marking Arrow Epoxy	13.000 EACH	_____.____	_____.____
0654	646.5120 Marking Word Epoxy	5.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0656	646.6120 Marking Stop Line Epoxy 18-Inch	60.000 LF	_____.____	_____.____
0658	646.7220 Marking Chevron Epoxy 24-Inch	156.000 LF	_____.____	_____.____
0660	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	244.000 LF	_____.____	_____.____
0662	646.9010 Marking Removal Line Water Blasting 4-Inch	35,683.000 LF	_____.____	_____.____
0664	646.9012 Marking Removal Line Water Blasting 6-Inch	3,963.000 LF	_____.____	_____.____
0666	652.0125 Conduit Rigid Metallic 2-Inch	420.000 LF	_____.____	_____.____
0668	652.0210 Conduit Rigid Nonmetallic Schedule 40 1-Inch	135.000 LF	_____.____	_____.____
0670	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	16,288.000 LF	_____.____	_____.____
0672	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,887.000 LF	_____.____	_____.____
0674	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	1,005.000 LF	_____.____	_____.____
0676	652.0615 Conduit Special 3-Inch	640.000 LF	_____.____	_____.____
0678	652.0700.S Install Conduit into Existing Item	14.000 EACH	_____.____	_____.____
0680	652.0800 Conduit Loop Detector	538.000 LF	_____.____	_____.____
0682	653.0154 Pull Boxes Non-Conductive 24x36-Inch	12.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0684	653.0164 Pull Boxes Non-Conductive 24x42-Inch	32.000 EACH	_____.____	_____.____
0686	653.0220 Junction Boxes 18x6x6-Inch	4.000 EACH	_____.____	_____.____
0688	653.0222 Junction Boxes 18x12x6-Inch	7.000 EACH	_____.____	_____.____
0690	653.0900 Adjusting Pull Boxes	1.000 EACH	_____.____	_____.____
0692	653.0905 Removing Pull Boxes	16.000 EACH	_____.____	_____.____
0694	654.0101 Concrete Bases Type 1	5.000 EACH	_____.____	_____.____
0696	654.0105 Concrete Bases Type 5	10.000 EACH	_____.____	_____.____
0698	654.0107 Concrete Bases Type 7	11.000 EACH	_____.____	_____.____
0700	654.0110 Concrete Bases Type 10	1.000 EACH	_____.____	_____.____
0702	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____
0704	655.0230 Cable Traffic Signal 5-14 AWG	5,449.000 LF	_____.____	_____.____
0706	655.0240 Cable Traffic Signal 7-14 AWG	31.000 LF	_____.____	_____.____
0708	655.0260 Cable Traffic Signal 12-14 AWG	1,397.000 LF	_____.____	_____.____
0710	655.0305 Cable Type UF 2-12 AWG Grounded	1,879.000 LF	_____.____	_____.____
0712	655.0515 Electrical Wire Traffic Signals 10 AWG	2,843.000 LF	_____.____	_____.____
0714	655.0610 Electrical Wire Lighting 12 AWG	24,665.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0716	655.0625 Electrical Wire Lighting 6 AWG	8,620.000 LF	_____.____	_____.____
0718	655.0630 Electrical Wire Lighting 4 AWG	24,553.000 LF	_____.____	_____.____
0720	655.0635 Electrical Wire Lighting 2 AWG	42,654.000 LF	_____.____	_____.____
0722	655.0700 Loop Detector Lead In Cable	3,067.000 LF	_____.____	_____.____
0724	655.0800 Loop Detector Wire	2,075.000 LF	_____.____	_____.____
0726	655.0900 Traffic Signal EVP Detector Cable	1,663.000 LF	_____.____	_____.____
0728	656.0201 Electrical Service Meter Breaker Pedestal (location) 0001. CB100	1.000 EACH	_____.____	_____.____
0730	656.0201 Electrical Service Meter Breaker Pedestal (location) 0002. MB2-2	1.000 EACH	_____.____	_____.____
0732	656.0501 Electrical Service Breaker Disconnect Box (location) 0001. CB2-2	1.000 EACH	_____.____	_____.____
0734	656.0501 Electrical Service Breaker Disconnect Box (location) 0002. CB2-3	1.000 EACH	_____.____	_____.____
0736	657.0100 Pedestal Bases	5.000 EACH	_____.____	_____.____
0738	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	44.000 EACH	_____.____	_____.____
0740	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	10.000 EACH	_____.____	_____.____
0742	657.0322 Poles Type 5-Aluminum	8.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0744	657.0337 Poles Type 17-Aluminum	44.000 EACH	_____.____	_____.____
0746	657.0350 Poles Type 10	1.000 EACH	_____.____	_____.____
0748	657.0420 Traffic Signal Standards Aluminum 13-FT	2.000 EACH	_____.____	_____.____
0750	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.____	_____.____
0752	657.0430 Traffic Signal Standards Aluminum 10-FT	2.000 EACH	_____.____	_____.____
0754	657.0520 Monotube Arms 20-FT	1.000 EACH	_____.____	_____.____
0756	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	74.000 EACH	_____.____	_____.____
0758	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	2.000 EACH	_____.____	_____.____
0760	657.0812 Luminaire Arms Steel 12-FT	1.000 EACH	_____.____	_____.____
0762	658.0173 Traffic Signal Face 3S 12-Inch	5.000 EACH	_____.____	_____.____
0764	658.0174 Traffic Signal Face 4S 12-Inch	1.000 EACH	_____.____	_____.____
0766	658.0416 Pedestrian Signal Face 16-Inch	6.000 EACH	_____.____	_____.____
0768	658.0500 Pedestrian Push Buttons	5.000 EACH	_____.____	_____.____
0770	658.5070 Signal Mounting Hardware (location) 0001. IH 41 NB & STH 96 (S44-0309)	1.000 EACH	_____.____	_____.____
0772	658.5070 Signal Mounting Hardware (location) 0002. IH 41 SB & STH 96 (S44-1403)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0774	659.1120 Luminaires Utility LED B	3.000 EACH	_____.____	_____.____
0776	659.1125 Luminaires Utility LED C	74.000 EACH	_____.____	_____.____
0778	659.2130 Lighting Control Cabinets 120/240 30-Inch	1.000 EACH	_____.____	_____.____
0780	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	20.000 EACH	_____.____	_____.____
0782	662.1037.S Ramp Closure Gates 37-FT	1.000 EACH	_____.____	_____.____
0784	662.1040.S Ramp Closure Gates 40-FT	1.000 EACH	_____.____	_____.____
0786	670.0101 Field System Integrator	1.000 EACH	_____.____	_____.____
0788	670.0201 ITS Documentation	1.000 EACH	_____.____	_____.____
0790	671.0132 Conduit HDPE 3-Duct 2-Inch	7,572.000 LF	_____.____	_____.____
0792	671.0232 Conduit HDPE Directional Bore 3-Duct 2-Inch	302.000 LF	_____.____	_____.____
0794	671.0300 Fiber Optic Cable Marker	12.000 EACH	_____.____	_____.____
0796	673.0105 Communication Vault Type 1	7.000 EACH	_____.____	_____.____
0798	673.0200 Tracer Wire Marker Posts	14.000 EACH	_____.____	_____.____
0800	673.1225.S Install Pole Mounted Cabinet	7.000 EACH	_____.____	_____.____
0802	674.0200 Cable Microwave Detector	10,812.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0804	674.0300 Remove Cable	10,205.000 LF	_____.____	_____.____
0806	675.0300 Install Mounted Controller Microwave Detector Assembly	7.000 EACH	_____.____	_____.____
0808	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0810	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0812	678.0012 Install Fiber Optic Cable Outdoor Plant 12-CT	4,140.000 LF	_____.____	_____.____
0814	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	8,342.000 LF	_____.____	_____.____
0816	678.0200 Fiber Optic Splice Enclosure	6.000 EACH	_____.____	_____.____
0818	678.0300 Fiber Optic Splice	166.000 EACH	_____.____	_____.____
0820	678.0400 Fiber Optic Termination	28.000 EACH	_____.____	_____.____
0822	678.0501 Communication System Testing	2.000 EACH	_____.____	_____.____
0824	678.0600 Install Ethernet Switches	3.000 EACH	_____.____	_____.____
0826	678.0700 Install Wireless Antennas	1.000 EACH	_____.____	_____.____
0828	690.0150 Sawing Asphalt	10,572.000 LF	_____.____	_____.____
0830	690.0250 Sawing Concrete	8,510.000 LF	_____.____	_____.____
0832	715.0502 Incentive Strength Concrete Structures	40,632.000 DOL	1.00000	40,632.00

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0834	715.0603 Incentive Strength Concrete Barrier	26,359.000 DOL	1.00000	26,359.00
0836	715.0715 Incentive Flexural Strength Concrete Pavement	67,905.000 DOL	1.00000	67,905.00
0838	740.0440 Incentive IRI Ride	105,621.000 DOL	1.00000	105,621.00
0840	801.0117 Railroad Flagging Reimbursement	125,300.000 DOL	1.00000	125,300.00
0842	999.1001.S Seismograph (project) 0001. 1130-64-72	1.000 EACH	_____._____	_____._____
0844	999.1501.S Crack and Damage Survey	14.000 EACH	_____._____	_____._____
0846	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000	10,500.00
0848	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	5,760.000 HRS	5.00000	28,800.00
0850	SPV.0035 Special 0100. Roadway Embankment	130,700.000 CY	_____._____	_____._____
0852	SPV.0035 Special 0800. HPC Masonry Structures	1,670.000 CY	_____._____	_____._____
0854	SPV.0060 Special 0100. Baseline CPM Progress Schedule	1.000 EACH	_____._____	_____._____
0856	SPV.0060 Special 0105. CPM Progress Schedule and Accepted Revisions	17.000 EACH	_____._____	_____._____
0858	SPV.0060 Special 0110. Construction Staking Survey Project 1130-64-71	1.000 EACH	_____._____	_____._____
0860	SPV.0060 Special 0115. Construction Staking Survey Project 1130-64-72	1.000 EACH	_____._____	_____._____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0862	SPV.0060 Special 0120. Construction Staking Survey Project 1130-64-87	1.000 EACH	_____.____	_____.____
0864	SPV.0060 Special 0125. Removing Cover Plates	56.000 EACH	_____.____	_____.____
0866	SPV.0060 Special 0126. Removing Storm Sewer Plug	5.000 EACH	_____.____	_____.____
0868	SPV.0060 Special 0127. Sawing Concrete Barrier Single Faced	3.000 EACH	_____.____	_____.____
0870	SPV.0060 Special 0140. Concrete Barrier Transition	1.000 EACH	_____.____	_____.____
0872	SPV.0060 Special 0160. Mobilizations Emergency Pavement Repair	2.000 EACH	_____.____	_____.____
0874	SPV.0060 Special 0205. Pond APC Outlet Storm Sewer Structure	1.000 EACH	_____.____	_____.____
0876	SPV.0060 Special 0210. Storm Sewer Plug	96.000 EACH	_____.____	_____.____
0878	SPV.0060 Special 0215. Reconnect Storm Sewer	130.000 EACH	_____.____	_____.____
0880	SPV.0060 Special 0220. Fastening Sewer Access Covers	21.000 EACH	_____.____	_____.____
0882	SPV.0060 Special 0225. Cover Plates	8.000 EACH	_____.____	_____.____
0884	SPV.0060 Special 0230. Inlet Covers Type Y	13.000 EACH	_____.____	_____.____
0886	SPV.0060 Special 0235. Detention Pond Anti Seep Collar	1.000 EACH	_____.____	_____.____
0888	SPV.0060 Special 0240. Sealing Storm Structure	19.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0890	SPV.0060 Special 0245. Inlets 2.25X3.5-FT	8.000 EACH	_____.____	_____.____
0892	SPV.0060 Special 0255. Temporary Water Diversion B-44-0347	1.000 EACH	_____.____	_____.____
0894	SPV.0060 Special 0260. Temporary Water Diversion B-44-0347	1.000 EACH	_____.____	_____.____
0896	SPV.0060 Special 0265. Temporary Water Diversion B-44-0348	1.000 EACH	_____.____	_____.____
0898	SPV.0060 Special 0305. Emergency Response to Traffic Involving Concrete Barrier Temporary	33.000 EACH	_____.____	_____.____
0900	SPV.0060 Special 0310. Emergency Response to Traffic Involving Crash Cushion Temporary	23.000 EACH	_____.____	_____.____
0902	SPV.0060 Special 0315. Maintain and Remove Crash Cushions Temporary Left In Place	17.000 EACH	_____.____	_____.____
0904	SPV.0060 Special 0320. Temporary Concrete Barrier Gate, 24-FT	4.000 EACH	_____.____	_____.____
0906	SPV.0060 Special 0325. Crash Cushion Temporary Left In Place	1.000 EACH	_____.____	_____.____
0908	SPV.0060 Special 0400. Fixed Message Sign Portable Support	8.000 EACH	_____.____	_____.____
0910	SPV.0060 Special 0405. Fire Hydrant Sign Mounting	12.000 EACH	_____.____	_____.____
0912	SPV.0060 Special 0500. Anchor Bolt Cover Shroud	13.000 EACH	_____.____	_____.____
0914	SPV.0060 Special 0600. Remove Traffic Signal IH 41 NB & STH 96 (S44-0309)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0916	SPV.0060 Special 0605. Remove Traffic Signal IH 41 SB & STH 96 (S44-1403)	1.000 EACH	_____.____	_____.____
0918	SPV.0060 Special 0615. Concrete Base Type 7 Tall	38.000 EACH	_____.____	_____.____
0920	SPV.0060 Special 0700. Salvaging Ramp Gate System	1.000 EACH	_____.____	_____.____
0922	SPV.0060 Special 0705. Adjusting Communication Vault	1.000 EACH	_____.____	_____.____
0924	SPV.0060 Special 0710. Install Ethernet Extender	8.000 EACH	_____.____	_____.____
0926	SPV.0060 Special 0715. Salvaging Microwave Detector Equipment	1.000 EACH	_____.____	_____.____
0928	SPV.0060 Special 0720. Salvaging Wireless Antennas	2.000 EACH	_____.____	_____.____
0930	SPV.0060 Special 0900. MSE Wall Sleeve Type 7	4.000 EACH	_____.____	_____.____
0932	SPV.0060 Special 0905. Settlement Gauge, R-44-28	18.000 EACH	_____.____	_____.____
0934	SPV.0060 Special 0906. Settlement Gauge, R-44-52	3.000 EACH	_____.____	_____.____
0936	SPV.0060 Special 0910. Vibrating Wire Piezometers	7.000 EACH	_____.____	_____.____
0938	SPV.0060 Special 0915. Inclinometers Casing	2.000 EACH	_____.____	_____.____
0940	SPV.0060 Special 0920. Earth Pressure Cell	8.000 EACH	_____.____	_____.____
0942	SPV.0060 Special 0925. Geotechnical Instrumentation, R-44-28	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0944	SPV.0060 Special 0926. Geotechnical Instrumentation, R-44-52	1.000 EACH	_____.____	_____.____
0946	SPV.0060 Special 0930. Structure Survey Target	14.000 EACH	_____.____	_____.____
0948	SPV.0060 Special 1200. Connect to Existing Water Main	2.000 EACH	_____.____	_____.____
0950	SPV.0060 Special 1205. Remove Water Valve and Box	1.000 EACH	_____.____	_____.____
0952	SPV.0060 Special 1210. Furnish and Install Insulation Over Water Main	7.000 EACH	_____.____	_____.____
0954	SPV.0060 Special 1215. Furnish and Install 16-Inch Water Valve in Manhole	1.000 EACH	_____.____	_____.____
0956	SPV.0060 Special 1220. Furnish and Install 16-Inch Water Valve In Manhole With Water Meter	1.000 EACH	_____.____	_____.____
0958	SPV.0060 Special 1225. Wastewater Control	1.000 EACH	_____.____	_____.____
0960	SPV.0060 Special 1230. Connect to Existing Sanitary Sewer Force Main	4.000 EACH	_____.____	_____.____
0962	SPV.0060 Special 1235. Furnish and Install Insulation Over Sanitary Sewer Force Main	7.000 EACH	_____.____	_____.____
0964	SPV.0060 Special 1240. Air Valves In Manhole	1.000 EACH	_____.____	_____.____
0966	SPV.0060 Special 1245. Adjusting Sanitary Manhole Cover	1.000 EACH	_____.____	_____.____
0968	SPV.0075 Special 0100. Street Sweeping	80.000 HRS	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0970	SPV.0075 Special 0105. Obstructions Foundation Drilling	45.000 HRS	_____.____	_____.____
0972	SPV.0090 Special 0100. HMA Longitudinal Joint Repair	1,500.000 LF	_____.____	_____.____
0974	SPV.0090 Special 0115. Concrete Barrier Type S42 Special	22,650.000 LF	_____.____	_____.____
0976	SPV.0090 Special 0120. Concrete Barrier Type S56 Special	26,560.000 LF	_____.____	_____.____
0978	SPV.0090 Special 0125. Concrete Barrier Fixed Object Protection Type S56 Special	35.000 LF	_____.____	_____.____
0980	SPV.0090 Special 0150. Concrete Barrier Temporary Precast Left in Place	1,930.000 LF	_____.____	_____.____
0982	SPV.0090 Special 0200. Drain Slotted Vane Permanent	1,207.000 LF	_____.____	_____.____
0984	SPV.0090 Special 0205. Drain Slotted Vane Temporary	1,301.000 LF	_____.____	_____.____
0986	SPV.0090 Special 0210. Cured In Place Pipe Liner 42-Inch	262.000 LF	_____.____	_____.____
0988	SPV.0090 Special 0300. Maintain and Remove Concrete Barrier Temporary Left in Place	29,800.000 LF	_____.____	_____.____
0990	SPV.0090 Special 0305. Glare Screen Temporary	17,095.000 LF	_____.____	_____.____
0992	SPV.0090 Special 0800. Abutment Anchorage	430.000 LF	_____.____	_____.____
0994	SPV.0090 Special 1200. Remove Water Main 16-Inch	188.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0996	SPV.0090 Special 1205. 16-Inch Water Main and Fittings	136.000 LF	_____.____	_____.____
0998	SPV.0090 Special 1210. 16-Inch Water Main and Fittings With 30-Inch Steel Casing	50.000 LF	_____.____	_____.____
1000	SPV.0090 Special 1215. Remove Sanitary Sewer Force Main 6-Inch	212.000 LF	_____.____	_____.____
1002	SPV.0090 Special 1220. Remove Sanitary Sewer Force Main 8-Inch	212.000 LF	_____.____	_____.____
1004	SPV.0090 Special 1225. 6-Inch Sanitary Sewer Force Main and Fittings	166.000 LF	_____.____	_____.____
1006	SPV.0090 Special 1230. 8-Inch Sanitary Sewer Force Main and Fittings	163.000 LF	_____.____	_____.____
1008	SPV.0090 Special 1235. 6-Inch Sanitary Sewer Force Main and Fittings With 18-Inch Steel Casing	50.000 LF	_____.____	_____.____
1010	SPV.0090 Special 1240. 8-Inch Sanitary Sewer Force Main and Fittings With 20-Inch Steel Casing	50.000 LF	_____.____	_____.____
1012	SPV.0165 Special 0800. Longitudinal Grooving Bridge Deck	32,760.000 SF	_____.____	_____.____
1014	SPV.0165 Special 0900. Wall Concrete Panel Mechanically Stabilized Earth R-44-28	29,741.000 SF	_____.____	_____.____
1016	SPV.0165 Special 0905. Wall Concrete Panel Mechanically Stabilized Earth R-44-52	18,400.000 SF	_____.____	_____.____
1018	SPV.0165 Special 0910. Wall Concrete Panel Mechanically Stabilized Earth R-44-53	18,710.000 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1020	SPV.0180 Special 0100. Concrete Pavement 10 1/2-Inch Special	207,860.000 SY	_____._____	_____._____
1022	SPV.0180 Special 0200. Topsoil Filled Riprap	977.000 SY	_____._____	_____._____
1024	SPV.0195 Special 0105. Load Transfer Platform	6,462.000 TON	_____._____	_____._____
	Section: 0001		**Total:**	_____._____
			Total Bid:	_____._____

PLEASE ATTACH ADDENDA 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

December 3, 2024

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of December 10, 2024

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01 – 07, and 09 – 40; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposal 40. These wage rates are effective for all proposals they are included in in the December 10, 2024 letting. The updated wage rates are dated November 8, 2024 and are effective on or after November 18, 2024.

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

Sincerely,

Mike Coleman
Proposal Development Specialist
Proposal Management Section

"General Decision Number: WI20240010 11/08/2024

Superseded General Decision Number: WI20230010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024

1	01/26/2024
2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/24/2024
6	06/21/2024
7	06/28/2024
8	07/05/2024
9	08/02/2024
10	08/23/2024
11	09/06/2024
12	11/08/2024

* BRWI0001-002 06/03/2024

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.86	27.00

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* BRWI0002-002 06/01/2024

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 46.60	27.01

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* BRWI0002-005 06/01/2024

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 41.62	27.03

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* BRWI0003-002 06/01/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

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* BRWI0004-002 06/01/2024

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 43.21	27.90

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* BRWI0006-002 06/01/2024

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,

ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.33	27.53

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* BRWI0007-002 06/01/2024

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.34	28.15

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* BRWI0008-002 06/01/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 46.16	27.33

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* BRWI0011-002 06/01/2024

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

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* BRWI0019-002 06/01/2024

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.18	27.68

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* BRWI0034-002 06/01/2024

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.17	27.32

CARP0068-011 05/02/2022

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
CARPENTER	$ 41.91	29.72

CARP0310-002 06/03/2024

ADAMS, ASHLAND, BAYFIELD (Eastern 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (Western Portion of the County), TAYLOR, VILAS, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1056-002 06/01/2024

ADAMS, ASHLAND, BARRON, BAYFIELD , BROWN, BUFFALO, BURNETT ,CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU,

KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/03/2024

BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. of Hwy. 65), AND WASHBURN

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

ELEC0014-002 05/26/2024

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	$ 42.73	23.99

ELEC0014-007 05/26/2024

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	$ 30.27	19.11

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 46.05	30%+13.15

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* ELEC0158-002 06/01/2024

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	$ 40.25	29.75%+11.17

ELEC0159-003 05/26/2024

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN.....	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes

Electricians:
Electrical contracts over $180,000.....$ 33.94 21.80
Electrical contracts under $180,000.....$ 31.75 21.73

ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	$ 46.23	69.19%

ELEC0388-002 06/01/2023

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	$ 46.70	25.02

ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	$ 49.48	27.34

ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	$ 42.77	24.66

ELEC0494-013 05/26/2024

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		

Installer	$ 36.03	18.87
Technician	$ 36.03	18.87

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

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ELEC0577-003 05/26/2024

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians	$ 40.00	22.69

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians	$ 43.65	25.95%+12.26

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-005 06/01/2024

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 46.37	28.80

Group 2	$ 45.87	28.80
Group 3	$ 44.77	28.80
Group 4	$ 44.51	28.80
Group 5	$ 44.22	28.80
Group 6	$ 38.32	28.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminious paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill

operator; Oiler, pump (over 3 inches); Drilling Machine Tender, day light machine

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

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* IRON0498-005 06/01/2024

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 46.59	48.80

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* IRON0512-008 04/28/2024

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.85	35.22

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* IRON0512-021 04/28/2024

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 41.19	34.68

LABO0113-002 06/03/2024

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.61	25.01
Group 2	$ 35.76	25.01
Group 3	$ 35.96	25.01
Group 4	$ 36.11	25.01
Group 5	$ 36.26	25.01
Group 6	$ 32.10	25.01

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/03/2024

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.86	25.01
Group 2	$ 34.96	25.01
Group 3	$ 35.01	25.01
Group 4	$ 35.21	25.01

Group 5	$ 35.06	25.01
Group 6	$ 31.95	25.01

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/03/2024

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 34.67	25.01
Group 2	$ 34.82	25.01
Group 3	$ 35.02	25.01
Group 4	$ 34.99	25.01
Group 5	$ 35.32	25.01
Group 6	$ 31.81	25.01

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/03/2024

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 40.57	19.45
Group 2	$ 40.67	19.45
Group 3	$ 40.72	19.45
Group 4	$ 40.92	19.45
Group 5	$ 40.77	19.45
Group 6	$ 37.20	19.45

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/03/2024

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 40.85	19.45
Group 2	$ 40.95	19.45
Group 3	$ 41.00	19.45
Group 4	$ 41.20	19.45
Group 5	$ 41.05	19.45
Group 6	$ 37.20	19.45

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/06/2024

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 36.16	26.27
Spray, Sandblast, Steel	$ 36.76	26.27
Repaint:		
Brush, Roller	$ 34.66	26.27
Spray, Sandblast, Steel	$ 35.26	26.27

PAIN0108-002 06/01/2024

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 42.04	22.95
Spray & Sandblast	$ 43.04	22.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes

PAINTER.....$ 22.03 12.45

PAIN0781-002 06/01/2024

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 41.39	24.92
Brush	$ 40.64	24.92
Spray & Sandblast	$ 41.39	24.92

PAIN0802-002 06/01/2024

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 36.35	20.87

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2024

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER	$ 36.35	20.87

PAIN0934-001 06/01/2024

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 38.67	26.32
Spray	$ 39.67	26.32
Structural Steel	$ 38.82	26.32

PAIN1011-002 06/02/2024

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 29.95	15.89

PLAS0599-002 06/01/2023

	Rates	Fringes

CEMENT MASON/CONCRETE FINISHER

Area A	$ 45.17	27.27
Area B	$ 39.97	25.02
Area C	$ 40.40	25.25
Area D	$ 41.16	24.49
Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 37.57	27.41
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 37.72	27.41

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information

on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R ?1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WI20240008 11/08/2024

Superseded General Decision Number: WI20230008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024
1	01/19/2024

2	02/02/2024
3	02/16/2024
4	03/15/2024
5	05/24/2024
6	06/14/2024
7	06/21/2024
8	06/28/2024
9	07/05/2024
10	07/26/2024
11	08/23/2024
12	09/06/2024
13	11/08/2024

* BRWI0001-002 06/03/2024

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.86	27.00

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* BRWI0002-002 06/01/2024

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 46.60	27.01

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* BRWI0002-005 06/01/2024

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 41.62	27.03

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* BRWI0003-002 06/01/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

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* BRWI0004-002 06/01/2024

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 43.21	27.90

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* BRWI0006-002 06/01/2024

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,

ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.33	27.53

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* BRWI0007-002 06/01/2024

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 39.34	28.15

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* BRWI0008-002 06/01/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 46.16	27.33

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* BRWI0009-001 06/01/2024

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

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* BRWI0011-002 06/01/2024

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

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* BRWI0013-002 06/01/2024

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.17	27.32

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* BRWI0019-002 06/01/2024

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.18	27.68

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* BRWI0021-002 06/01/2024

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 39.10 28.37

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* BRWI0034-002 06/01/2024

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.17	27.32

CARP0068-011 05/02/2022

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 41.19	27.05

CARP0231-002 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
CARPENTER	$ 41.91	29.72

CARP0310-002 06/03/2024

ADAMS, ASHLAND, BAYFIELD (Eastern 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (Western Portion of the County), TAYLOR, VILAS, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0314-001 06/05/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES

	Rates	Fringes
CARPENTER	$ 38.86	27.06
Piledriver	$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern

Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/03/2024

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1056-002 06/01/2024

ADAMS, ASHLAND, BARRON, BAYFIELD , BROWN, BUFFALO, BURNETT ,CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX (E. of Hwy. 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/03/2024

BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. of Hwy. 65), AND WASHBURN

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1143-002 06/03/2024

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP1146-002 06/03/2024

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO,

AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
CARPENTER	$ 42.44	28.44
PILEDRIVER	$ 42.44	28.44

CARP2337-009 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN	$ 42.21	34.07

CARP2337-010 06/03/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
MILLWRIGHT	$ 42.31	32.21

ELEC0014-002 05/26/2024

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 42.73	23.99

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 46.05	30%+13.15

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* ELEC0158-002 06/01/2024

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 40.25	29.75%+11.17

ELEC0159-003 05/26/2024

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK

COUNTIES

	Rates	Fringes
ELECTRICIAN.....	$ 48.55	25.91

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000.....	$ 33.94	21.80
Electrical contracts under $180,000.....	$ 31.75	21.73

ELEC0242-005 06/02/2024

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	$ 46.23	69.19%

ELEC0388-002 06/01/2023

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	$ 38.74	26%+11.76

ELEC0430-002 06/01/2023

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	$ 46.70	25.02

ELEC0494-005 05/26/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	$ 49.48	27.34

ELEC0494-006 05/26/2024

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 42.77	24.66

ELEC0577-003 05/26/2024

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:	$ 40.00	22.69

ELEC0890-003 06/01/2024

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ENGI0139-003 06/03/2024

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 48.78	27.14
Group 2	$ 47.53	27.14
Group 3	$ 44.23	27.14
Group 4	$ 43.70	27.14
Group 5	$ 41.63	27.14
Group 6	$ 40.10	27.14

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing

Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweeeprs; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freese Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3""; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

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ENGI0139-007 06/03/2024

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 45.04	26.80
Group 2	$ 44.26	26.80
Group 3	$ 43.31	26.80
Group 4	$ 42.26	26.80
Group 5	$ 40.86	26.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour

EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and\or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket; Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame andWinch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches, Small Electric; Oiler and Greaser; Conveyor; High pressure utility locating machine (daylighting machine).

IRON0008-002 06/02/2024

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 43.02	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/02/2024

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.79	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/02/2024

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 42.00	31.93

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* IRON0498-005 06/01/2024

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 46.59	48.80

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* IRON0512-008 04/28/2024

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 44.85	35.22

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* IRON0512-021 04/28/2024

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,

PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 41.19	34.68

LABO0113-004 06/03/2024

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 19.14	23.90
Group 2	$ 21.61	23.90
Group 3	$ 25.47	23.90
Group 4	$ 35.66	23.90
Group 5	$ 35.83	23.90
Group 6	$ 35.89	23.90
Group 7	$ 40.09	23.90
Group 8	$ 43.16	23.90
Group 9	$ 43.85	23.90

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc; Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner; Pipe Layer; Rock Driller and Joint Man; Timber Man and Concrete Brusher; Bracer in Trench Behind Machine & Tight Sheeting; Concrete Formsetter and Shoveler; Jackhammer Operator

GROUP 9: Blaster

LABO0113-005 06/03/2024

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 26.40	23.90
Group 2	$ 32.87	23.90
Group 3	$ 37.44	23.90
Group 4	$ 39.37	23.90

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30

lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LABO0113-008 06/03/2024

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 25.47	23.90
Group 2	$ 35.83	23.90
Group 3	$ 35.89	23.90
Group 4	$ 40.09	23.90
Group 5	$ 40.23	23.90
Group 6	$ 43.15	23.90
Group 7	$ 43.85	23.90

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

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* LABO0113-009 06/03/2024

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		

*COMPRESSED AIR 0 - 15 lbs.)

Group 1	$ 25.47	23.90
Group 2	$ 35.83	23.90
Group 3	$ 40.67	23.90
Group 4	$ 41.54	23.90
Group 5	$ 41.68	23.90
Group 6	$ 44.62	23.90
Group 7	$ 45.29	23.90

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add $2.00 to all classifications
*Compressed Air over 30 lbs add $3.00 to all classifcations

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder & Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pielayer and Joint Man; Bracerman; Nozzle Man on Gunite; Timber Man; Concrete Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add $0.15 per hour.

LABO0140-005 06/03/2024

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE,FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMMPEALEAU, VERNON, VILAS, WALWWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 35.63	19.45
Group 2	$ 37.48	19.45
Group 3	$ 37.68	19.45
Group 4	$ 38.43	19.45

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LABO0464-002 06/03/2024

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 35.53	19.45
Group 2	$ 37.73	19.45
Group 3	$ 37.93	19.45
Group 4	$ 38.68	19.45

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add $1.00, 15- 30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LABO1091-010 06/03/2024

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1	$ 35.32	19.45
Group 2	$ 37.38	19.45
Group 3	$ 37.58	19.45
Group 4	$ 38.33	19.45

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A	$ 45.17	27.27
Area B	$ 39.97	25.02
Area C	$ 40.40	25.25
Area D	$ 41.16	24.49
Area E	$ 40.50	25.14
Area F	$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST. CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2024

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 37.57	27.41
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 37.72	27.41

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R ◆1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for

the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

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

November 8, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #14: **1130-64-71, WISC 2025135**
Appleton – De Pere
I-41 Mainline, STH 96 – RR Bridge
IH 041
Outagamie

1130-64-72, WISC 2025136
Appleton – De Pere
I-41 Mainline, RR Bridge – Lynndale
IH 041
Outagamie

1130-64-71, WISC 2025137
Appleton – De Pere
Railroad Structures
IH 041
Outagamie

Letting of December 10, 2024

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

Revised Special Provisions	
Article No.	Description
3.1	Non-Mandatory Pre-Bid Meeting

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

1130-64-71, 1130-64-72 and 1130-64-87

November 8, 2024

Special Provisions

3.1 Non-Mandatory Pre-Bid Meeting

Replace entire article language with the following:

Add the following to standard spec 102.3.1:

Prospective bidders are invited to attend a pre-bid meeting on Tuesday, November 19, 2024 at 2:00 PM. The meeting will be held at the IH 41 primary field office, 3600 Commerce Court, Appleton, WI 54911.

No meeting minutes will be prepared. Issues discovered at the meeting which may impact the contract will be handled by addendum.

ner41-102 (12052023)

END OF ADDENDUM

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

November 26, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #14: **1130-64-71, WISC 2025135**
Appleton – De Pere
I-41 Mainline, STH 96 – RR Bridge
IH 041
Outagamie County

1130-64-72, WISC 2025136
Appleton – De Pere
I-41 Mainline, RR Bridge – Lynndale
IH 041
Outagamie County

1130-64-71, WISC 2025137
Appleton – De Pere
Railroad Structures
IH 041
Outagamie County

Letting of December 10, 2024

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
4.2	Notice to Contractor, Coordination with Project ID 1130-64-76/81 (STH 15 Interchange/Capitol Drive project)
10.2	QMP Ride for PCC Riding Surfaces
13.21	Temporary Water Diversion B-44-347 Station 670SB+71, Item SPV.0060.0255; Temporary Water Diversion B-44-347 Station 669SB+80, Item SPV.0060.0260; Temporary Water Diversion B-44-348 Station 665NB+92, Item SPV.0060.0265

Added Special Provisions	
Article No.	Description
15.5	Inlet Marker, Item SPV.0060.0270

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
205.0100	Excavation Common	CY	247,651	4,300	251,951
611.8110	Adjusting Manhole Covers	Each	44	1	45
611.8120.S	Cover Plates Temporary	Each	232	2	234
SPV.0035.0100	Roadway Embankment	CY	130,700	-3,700	127,000

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
SPV.0060.0270	Inlet Marker	Each	0	229	229

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
99	Construction Details – Drainage: updated note (1) to refer to standard spec.
101	Construction Details – Drainage: Updated location for removing casting bolts.
468	Stormwater Management – Pond APC Details: Revised name of outlet control structure.
829	Miscellaneous Quantities: Updated/added quantities
862	Miscellaneous Quantities: Updated Excavation Common and Roadway Embankment for Pond APC.
1630	Earthwork Data: Updated end areas and volumes for Pond APC.

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
97A	Construction Details: Provides details for installation of inlet marker.
832A	Miscellaneous Quantity: Added quantity for Inlet Marker.
950A	Miscellaneous Quantities: Added quantity for Inlet Marker.
1315A	Standard Sign: Added to provide details for inlet marker sign referred to in sheet 97A.

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

1130-64-71, 1130-64-72 and 1130-64-87

November 26, 2024

Special Provisions

4.2 Notice to Contractor, Coordination with Project ID 1130-64-76/81 (STH 15 Interchange/Capitol Drive project).

Replace the third paragraph with the following:

Concrete barrier temporary precast and temporary crash cushions identified as left in place in the 1130-64-76 project will become property of the 1130-64-71/72/87contractor. The below table identifies the estimated dates this equipment will become the property of this contract; however, the actual date ownership of the barrier and crash cushion transfers occur will be finalized during the weekly traffic meeting.

Roadway	Estimated Station		Offset	Estimated Date of Transfer to 1130-64-71/72/84
	Start	End		
IH 41 NB	570NB+87	595NB+00	Right	June 2025
IH 41 NB	595NB+00	616NB+35	Right	March 2025
IH 41 NB	564NB+20	585NB+00	Left	Notice to Proceed (NTP)
IH 41 NB	585NB+00	593NB+40	Left	June 2025
IH 41 NB	593NB+40	681NB+49	Left	NTP
IH 41 SB	570SB+00	673SB+53	Right	NTP
IH 41 SB	579SB+53	584SB+01	Left	March 2025
IH 41 SB	584SB+01	602SB+45	Left	NTP
IH 41 SB	615SB+70	622SB+19	Left	NTP
STH 15/CTH OO Ramp A	1600NLA+00	616NB+35	Right	June 2025

Maintain and remove the left in place devices per the requirements identified in special provision Maintain and Remove Crash Cushions Temporary Left in Place and Maintain and Remove Concrete Barrier Temporary Precast Left in Place.

10.2 QMP Ride for PCC Riding Surfaces.

*In **Table 4: Exclusions**, replace the seventh exclusion in the **Excluded Areas from Smoothness and Localized Roughness** column with the following:*

Pavements within 25 feet of bridges or bridge approaches not constructed under the contract or 25 feet from terminal headers tying into existing pavement.

13.21 Temporary Water Diversion B-44-347 Station 670SB+71, Item SPV.0060.0255; Temporary Water Diversion B-44-347 Station 669NB+80, Item SPV.0060.0260; Temporary Water Diversion B-44-348 Station 665NB+92, Item SPV.0060.0265.

Replace entire article language with the following:

A Description

This special provision describes providing temporary water diversion for B-44-347 and B-44-348 during all stages of construction. Conform to the required Standard Specifications, Plan and the methods used must be approved in the Erosion Control Implementation Plan (ECIP).

B Materials

Furnish materials conforming to the necessary Standard Specifications based on the method of construction.

C Construction

C.1 General

Maintain channel flow at all times and minimize erosion into the existing stream using appropriate erosion control measures. Inspect Temporary Water Diversion(s) daily to ensure proper functioning and no erosion is occurring.

Ensure all portions of Temporary Water Diversion(s) accommodate the 2-year recurrence interval stream discharge. Provide overflow through the work zone for storms that exceed the 2-year flow. The 2-year recurrence interval stream discharges are as follows:

B-44-347 Station 670SB+71 76 cubic feet per second.

B-44-347 Station 669NB+80 25 cubic feet per second.

B-44-348 Station 665NB+92 144 cubic feet per second.

Provide hydraulic calculations and temporary water diversion plan details at each required location. Include a summary of the Temporary Water Diversion duration at each required location. All methods of diversion, calculations and plans are subject to approval as part of the ECIP.

C.2 Bypass Pumping

If bypass pumping is used for Temporary Water Diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP for each location it is required. Include the following in the ECIP: how the intake will be managed to not cause an increase in the background level turbidity during pumping, equipment pumping rate capabilities, discharge energy dissipation, and erosion controls. For bypass pumping that will extend beyond one working day, the ECIP should also include how the work zone will be managed and protected, should the pump fail, be shut down due to unacceptable water quality, or storm water flows exceed the pumping rate of equipment. After the installation of the approved bypass pumping operation, the contractor shall demonstrate that the means and methods will pump the water at an acceptable water quality prior to starting work that necessitates the bypass pumping.

C.3 Temporary Channel

If a temporary channel is used for Temporary Water Diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP. Properly size pipes and channels to maintain channel flow. At a minimum, line the channel with select crushed material or other means approved by the engineer to stabilize the excavated channel at each end of the temporary bypass structure. Install an impervious barrier to isolate the connection of the temporary bypass channel from the existing channel and to isolate the new culvert work area from the temporary and existing channel to prevent the 2-year storm interval from back flowing in the work area.

C.4 Restoration

Once water flow has been restored to the final location, grade, shape and finish all disturbed areas to their original existing contours or what is shown in the plan.

D Measurement

The department will measure temporary water diversion as 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.0060.0255	Temporary Water Diversion B-44-347 Station 670SB+71	EACH
SPV.0060.0260	Temporary Water Diversion B-44-347 Station 669NB+80	EACH
SPV.0060.0265	Temporary Water Diversion B-44-347 Station 665NB+92	EACH

Payment is full compensation for providing hydraulic calculations, plans, installation, daily inspections, any necessary modifications to the Temporary Water Diversion operation and removal when Temporary Water Diversion operation is no longer needed and grading to finished grade.

The department will pay separately for topsoil, seeding, fertilizer, e-mat, mulch and any other items needed for permanent restoration.

NER-210-020 (20210716)

15.5 Inlet Marker, Item SPV.0060.0270.

A Description

This special provision describes furnishing and installing a Type II W5-53S sign to mark inlet locations adjacent to barrier wall or parapets as shown in the plans, in accordance with standard spec 637, and as hereinafter provided.

Refer to WisDOT Sign Plate Manual for details of W5-53S (Low Inlet Marker).

B Materials

Furnish sheet aluminum conforming to standard spec 637.2.1.3.

Furnish reflective sheeting conforming to standard spec 637.2.2.2.

Furnish stainless steel anchors and washers conforming to standard spec 513.2.1.

C Construction

Manufacture, assemble and install inlet marker in accordance with 637.3 of the standard spec.

Install inlet marker against a clean and flat surface.

D Measurement

The department will measure Inlet Marker as each individual marker 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.0060.0270	Inlet Marker	EACH

Payment is full compensation for providing sign including mounting hardware; and for installing barrier wall inlet marker.

ner41-633 (20241104)

Schedule of Items
Attached, dated November 26, 2024, are the revised Schedule of Items Pages 3, 17, 30, and 37.

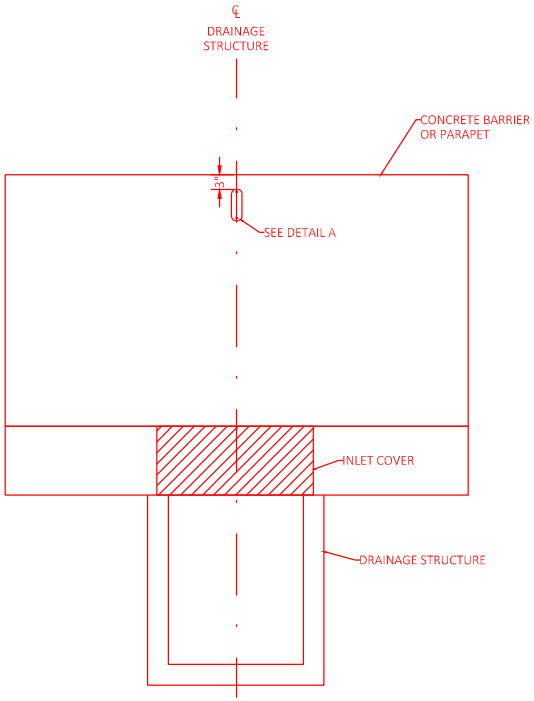
Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 99, 101, 468, 829, 862, and 1630
Added: 97A, 832A, 950A, and 1315A

END OF ADDENDUM

2

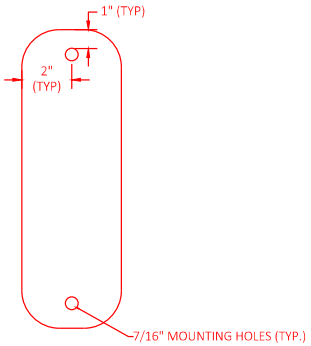
2

Addendum No. 02
ID 1130-64-71/72
Added Sheet 97A
November 26, 2024



INLET MARKER

NOT TO SCALE



DETAIL A - MARKER MOUNTING

MARKER MOUNTING NOTES:

STANDARD SIGN W5-53S, SIZE 2M (SIGN PLATE W5-53S, LOW INLET MARKER)

3/8" X 1" STAINLESS STEEL ANCHOR WITH NYLON AND STAINLESS STEEL WASHERS.

ANCHORS SHALL HAVE HEXAGONAL HEADS.

SEE SIGN PLATE A4-8 FOR ADDITIONAL INFORMATION REGARDING WASHERS.

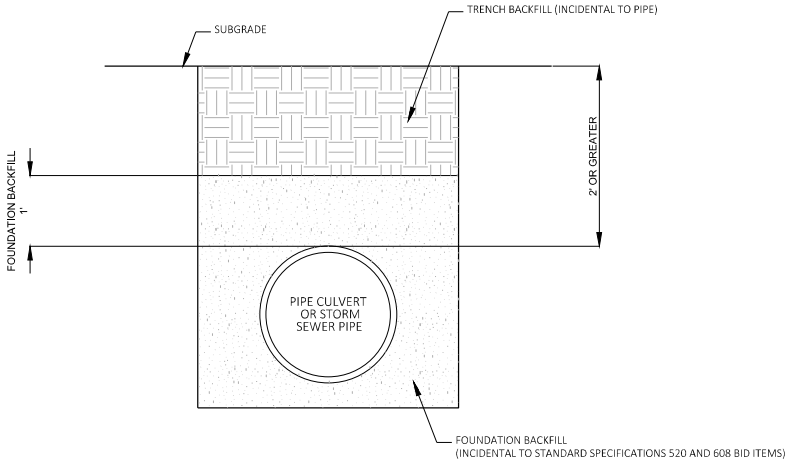
PROJECT NO: 1130-64-71/72	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 97A	E

FILE NAME : C:\USERS\NGRADY\ONEDRIVE - HNTB\DESKTOP\TEMP\WORKING\2024 11 04 INLET MARKER\RDWY22-INLET-MARKER.DWG
LAYOUT NAME - 001

PLOT DATE : 11/19/2024 4:26 PM PLOT BY : NED GRADY PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRENCH BACKFILL DETAIL FOR NORMAL DEPTH PIPE CULVERTS
AND STORM SEWER PIPE INSTALLATIONS

Addendum No. 02
ID 1130-64-71/72
Revised Sheet 99
November 26, 2024

NOTES: 2

1) REFER TO STANDARD SPECIFICATIONS 209.2, 520.2.5, 520.3.4, 608.2.2, AND 608.3.5 FOR MORE INFORMATION

PROJECT NO: 1130-64-71/72	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - DRAINAGE	SHEET 99	E

FILE NAME : C:\USERS\EREGIER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021002-CD-SS.DWG
LAYOUT NAME - CD_SS_07
PLOT DATE : 11/19/2024 10:33 AM PLOT BY : ELIZABETH REGIER PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

SPECIAL PROVISION ARTICLE 13.11 - REMOVING CASTING BOLTS LOCATIONS - PROJECT 1130-64-72

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4		
	R/L SB	6145-S2
	R/L SB	6146-S2
	R/L SB	6149-S2
	R/L SB	6406-S4
	R/L SB	6407-S3
	R/L SB	6408-S2
	R/L SB	6409-S2
	R/L SB	6411-S2
	R/L SB	6412A-S2
	R/L SB	6412-S2
	R/L SB	6413-S3
	R/L SB	6414-S4
	R/L SB	6421-S2
	R/L SB	6422-S2
	R/L SB	6426-S3
	R/L SB	6427-S3
	R/L SB	6431A-S3
	R/L SB	6432A-S3
	R/L SB	6432-S3
	R/L SB	6433-S3
	R/L SB	6434A-S2
	R/L SB	6434-S3
	R/L SB	6435A-S3
	R/L SB	6435-S3
	R/L SB	6436-S3
	R/L SB	6437-S3
	R/L SB	6438-S2
	R/L SB	6442-S3
	R/L SB	6443-S3
	R/L SB	6444-S3
	R/L SB	6445-S3
	R/L SB	6446-S3
	R/L SB	6481-S3
	R/L SB	6482-S3
	R/L SB	6484-S3
	R/L SB	6485-S3
	R/L SB	6486-S3
	R/L SB	6487-S3
	NLA	6491A-S4
	R/L SB	6491-S3

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6492-S2
	R/L SB	6493A-S4
	R/L SB	6493-S2
	NLA	6494A-S4
	NLA	6494B-S4
	NLA	6494D-S4
	R/L SB	6494-S3
	R/L SB	6495-S2
	R/L SB	6496-S2
	R/L SB	6497-S2
	R/L SB	6501-S2
	R/L SB	6502-S2
	R/L SB	6503A-S4
	R/L SB	6503-S3
	R/L SB	6505-S2
	R/L SB	6507-S2
	R/L SB	6508A-S4
	R/L SB	6508-S3
	R/L SB	6511-S4
	R/L SB	6512-S4
	R/L SB	6513-S4
	R/L SB	6514-S4
	R/L SB	6515-S2
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	R/L SB	6527-S2
	R/L SB	6534-S2
	R/L SB	6536-S4
	R/L SB	6538-S4
	R/L SB	6539-S3
	R/L SB	6540-S2
	R/L SB	6542-S2
	R/L SB	6543-S3
	R/L SB	6544-S2

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6545-S2
	R/L SB	6550-S2
	R/L SB	6552-S4
	R/L SB	6553-S3
	R/L SB	6555-S2
	R/L SB	6556-S2
	R/L SB	6560-S2
	R/L SB	6561-S2
	R/L SB	6562-S4
	R/L SB	6563-S3
	R/L SB	6565-S2
	R/L SB	6566-S4
	R/L SB	6567-S3
	R/L SB	6568-S2
	R/L SB	6570-S2
	R/L SB	6571-S2
	R/L SB	6572-S4
	R/L SB	6573-S3
	R/L SB	6575-S2
	R/L SB	6576-S2
	R/L SB	6577-S4
	R/L SB	6578-S3
	R/L SB	6579-S2
	R/L SB	6580-S2
	R/L SB	6581-S2
	R/L SB	6582-S4
	R/L SB	6583-S3
	R/L SB	6585-S2
	R/L SB	6590-S2
	R/L SB	6591-S2
	R/L SB	6592-S4
	R/L SB	6593-S3
	R/L SB	6594-S2
	R/L SB	6595-S2
	R/L SB	6596-S2
	R/L SB	6597-S4
	R/L SB	6598-S3
	R/L SB	6599-S2
	R/L SB	6600-S2
	R/L SB	6601-S2

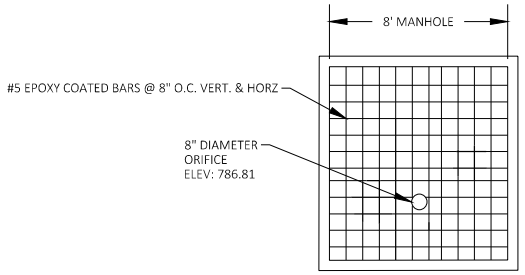
STAGE	ROADWAY	STRUCTURE ID	
1130-64-72 STAGE 4 CONT.			
	R/L SB	6602-S4	
	R/L SB	6603-S3	
	R/L SB	6605-S2	
	R/L SB	6610-S2	
	R/L SB	6611-S2	
	R/L SB	6612-S4	
	R/L SB	6613-S3	
	R/L SB	6614-S2	
	R/L SB	6615-S2	
	R/L SB	6616-S2	
	R/L SB	6617-S4	
	R/L SB	6618-S3	
	R/L SB	6619-S4	
	R/L SB	6620-S2	
	R/L SB	6625-S2	
	R/L SB	6626-S2	
	R/L SB	6627-S4	
	R/L SB	6628-S3	
	R/L SB	6629-S2	
	R/L SB	6631-S2	
	R/L SB	6632-S4	
	~~R/L SB~~	~~6633-S3~~	2
	R/L SB	6639-S2	
	R/L SB	6641-S4	
	~~R/L SB~~	~~6642-S3~~	2
	~~R/L SB~~	~~6643-S3~~	
	R/L SB	6646-S2	
	R/L SB	6651-S2	
	R/L SB	6652-S2	
	R/L SB	6654-S2	
	R/L SB	6655B-S2	
	R/L SB	6655-S2	
	~~R/L SB~~	~~6666-S3~~	
	~~R/L SB~~	~~6667-S3~~	2
	~~R/L SB~~	~~6668-S3~~	
	R/L SB	6675-S1	
	R/L SB	6677-S4	
	R/L SB	6678-S4	
	R/L SB	6679-S1	
	R/L SB	6692-S2	

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6693-S4
	R/L SB	6694-S2
	R/L SB	6697-S4
	R/L SB	EX 6451
	R/L SB	EX 6452
	R/L SB	EX 6453
	R/L SB	EX 6454
	R/L SB	EX 6455
	R/L SB	EX 6458
	R/L SB	EX 6459
	R/L SB	EX 6460
	R/L SB	EX 6461
	R/L SB	EX 6463
	R/L SB	EX 6464
	R/L SB	EX 6465
	R/L SB	EX 6466
	R/L SB	EX 6467
	R/L SB	EX 6470
	R/L SB	EX 6471
	R/L SB	EX 6472
	R/L SB	EX 6476
	R/L SB	EX 6477
	R/L SB	EX 6526

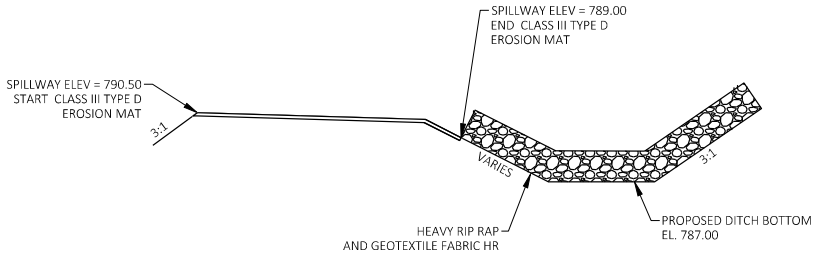
Addendum No. 02
ID 1130-64-71/72
Revised Sheet 101
November 26, 2024

Addendum No. 02
ID 1130-64-72
Revised Sheet 468
November 26, 2024

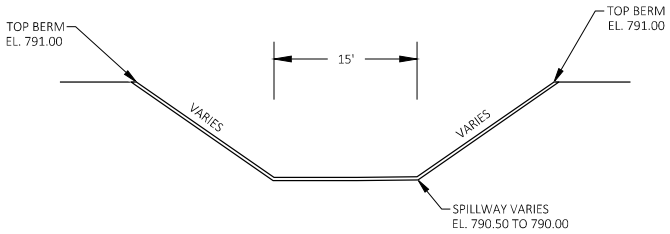
2



BAFFLE WALL DETAIL
SECTION C-C
NOT TO SCALE



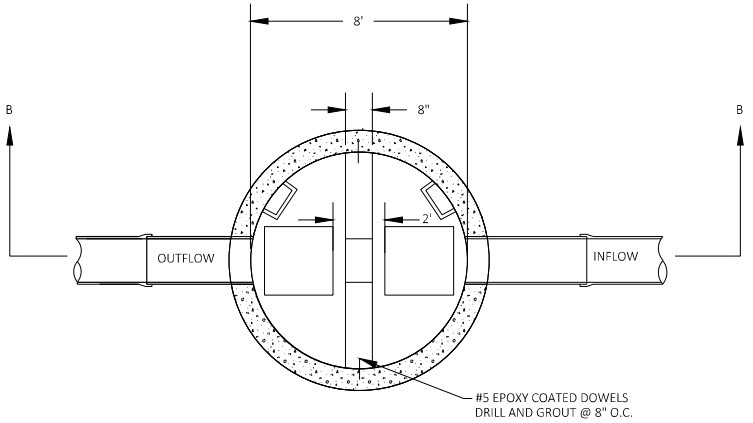
TYPICAL SECTION POND - EMERGENCY SPILLWAY
SECTION D-D
NOT TO SCALE

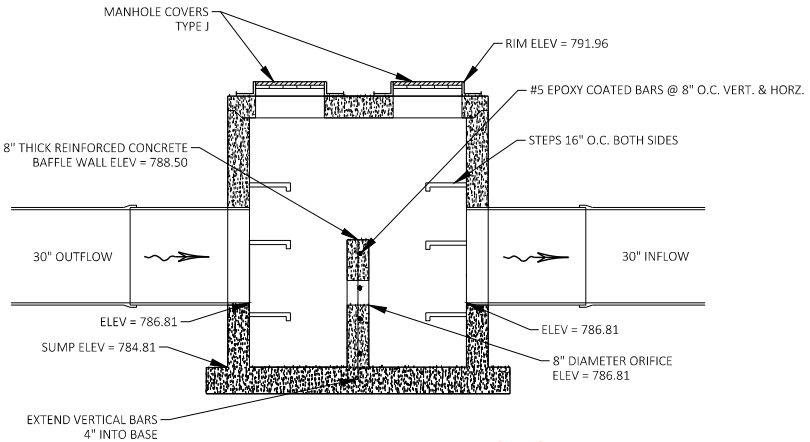


TYPICAL SECTION POND - EMERGENCY SPILLWAY
SECTION E-E
NOT TO SCALE

NOTES:

DETAILS FOR CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS





POND APC OUTLET STORM SEWER STRUCTURE 2
SECTION B - B
STRUCTURE #6655A-S2
NOT TO SCALE

NOTES:

DETAILS FOR CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS

RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	TO	PROPOSED RIM ELEVATION	ELEVATION INCREASE	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH
1000	1130-64-71 STAGE 3											
	R/L WND	140-S2	1543+75.00	40.00' RT	799.45		800.78		--	--	1	--
							STAGE 3 SUBTOTALS		--	--	1	--
1000	1130-64-71 STAGE 4											
	R/L SB	125.2-S2*	538+31.14	21.15' RT	801.02		801.02	--	--	--	--	1
	R/L NB	125.3-S3	538+31.14	21.14' LT	800.96		802.63	1.67	--	1	--	--
	R/L SB	135.2-S2	541+05.00	21.83' RT	802.33		805.92	3.59	1	--	--	--
	R/L SB	145.2-S2	544+00.00	21.83' RT	804.63		807.46	2.83	1	--	--	--
	R/L SB	150.4-S2*	547+30.90	21.83' RT	807.68		810.03	2.35	1	--	--	--
	R/L NB	150.5-S3	547+30.90	21.83' LT	807.71		810.16	2.45	1	--	--	--
	R/L SB	160.2-S2	549+99.99	21.83' RT	808.54		812.12	3.58	1	--	--	--
	R/L SB	170-S2	553+15.00	21.83' RT	811.23		814.57	3.34	--	1	--	--
	R/L SB	220.2-S2	559+00.00	21.83' RT	813.21		816.79	3.58	1	--	--	--
	R/L SB	230.2-S2	561+25.00	21.83' RT	812.23		815.57	3.34	--	1	--	--
	R/L SB	240.2-S2	563+50.00	21.83' RT	809.76		813.13	3.37	1	--	--	--
	R/L SB	250.2-S2	565+75.00	21.83' RT	805.89		809.47	3.58	1	--	--	--
	R/L SB	260.2-S2	568+00.00	21.83' RT	801.12		804.71	3.59	1	--	--	--
							STAGE 4 SUBTOTALS		9	3	--	1
							PROJECT 1130-64-71 TOTALS		**9**	**3**	**1**	**1**

*SEE BW TO VV-B RECONSTRUCTING INLET CONSTRUCTION DETAIL

COVER PLATES

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	NOTES
1000	1130-64-71 STAGE 2			
	R/L SB	135.2-S2	2	REMOVE IN STAGE 4
	R/L WND	140-S2	2	REMOVE IN STAGE 3
	R/L SB	145.2-S2	2	REMOVE IN STAGE 4
	R/L SB	160.2-S2	2	REMOVE IN STAGE 4
	R/L SB	170-S2	2	REMOVE IN STAGE 4
	R/L SB	220.2-S2	2	REMOVE IN STAGE 4
	R/L SB	230.2-S2	2	REMOVE IN STAGE 4
	R/L SB	250.2-S2	2	REMOVE IN STAGE 4
	R/L SB	260.2-S2	2	REMOVE IN STAGE 4
		STAGE 2 SUBTOTAL	18	
		PROJECT 1130-64-71 TOTAL	**18**	

Addendum No. 02
ID 1130-64-71
Revised Sheet 829
November 26, 2024

INLET MARKER

CATEGORY	LOCATION	STRUCTURE	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-71 STAGE :		
	R/L WND	110.2-S2	1
	R/L SB	125.1-S2	1
	R/L SB	125.2-S2	1
	R/L WND	130.1-S2	1
	R/L WND	130.2-S2	1
	R/L SB	135.1-S2	1
	R/L SB	135.2-S2	1
	R/L WND	140.1-S2	1
	R/L WND	140.2-S2	1
	R/L SB	145.1-S2	1
	R/L SB	145.2-S2	1
	R/L WND	150.1-S2	1
	R/L SB	150.2-S2	1
	R/L SB	150.4-S2	1
	R/L WND	160.1-S2	1
	R/L SB	160.2-S2	1
	R/L WND	170.1-S2	1
	R/L SB	170-S2	1
	R/L SB	220.1-S2	1
	R/L SB	220.2-S2	1
	R/L SB	230.1-S2	1
	R/L SB	230.2-S2	1
	R/L SB	240.1-S2	1
	R/L SB	240.2-S2	1
	R/L SB	250.1-S2	1
	R/L SB	250.2-S2	1
	R/L SB	260.1-S2	1
	R/L SB	260.2-S2	1
	STAGE 2 SUBTOTALS		28

INLET MARKER

CATEGORY	LOCATION	STRUCTURE	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-71 STAGE :		
	R/L NB	125.3-S3	1
	R/L NB	150.5-S3	1
	STAGE 3 SUBTOTALS		2
1000	PROJECT 1130-64-71 STAGE :		
	R/L NB	135.4-S4	1
	R/L NB	145.3-S4	1
	R/L NB	160.3-S4	1
	R/L WNA	160.4-S4	1
	R/L NB	170.3-S4	1
	R/L WNA	170.4-S4	1
	R/L NB	220.3-S4	1
	R/L NB	220.4-S4	1
	R/L NB	230.4-S4	1
	R/L NB	230.5-S4	1
	R/L NB	240.3-S4	1
	R/L NB	240.4-S4	1
	R/L NB	250.3-S4	1
	R/L NB	250.4-S4	1
	R/L NB	260.3-S4	1
	R/L NB	260.4-S4	1
	R/L NB	415.1-S4	1
	R/L NB	425.1-S4	1
	R/L WNA	430.3-S4	1
	R/L NB	435.1-S4	1
	R/L WNA	440.1-S4	1
	R/L WNA	450.1-S4	1
	STAGE 4 SUBTOTALS		22
	PROJECT 1130-64-71 SUBTOTALS		52
	PROJECT 1130-64-71 TOTALS		**52**

Addendum No. 02
ID 1130-64-71
Added Sheet 832A
November 26, 2024

PROJECT	From/To Station	Location	Excavation Common (CY) ** (1) 205.0100		Excavation Marsh (CY) 205.0400	Roadway Embankment (CY) (4) SPV.0035.0100	Mass Ordinate +/- (5)
			Cut (CY) (2)	EBS (CY) (3)			
1130-64-72							
	569NB+00.00 - 672NB+55.51, 672NBT+55.51 - 683NBT+15.07	IH 41 NB STAGE 1	13,352	0	0	3,555	9,797
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 2	31,867	0	50	24,046	7,871
	673SBT+44.55 - 678SBT+64.05	IH 41 SB INTERIM STAGE 2	1,691	0	0	315	1,376
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 3	7,806	0	0	1,493	6,313
	591SB+50.00 - 601SB+03.00	IH 41 SB STAGE 3 SHOULDER	1,839	0	0	509	1,330
	569NB+00.00 - 672NB+55.51	IH 41 NB STAGE 4	56,300	0	50	19,168	37,182
	672NBT+55.51 - 677NBT+75.00	IH 41 NB INTERIM STAGE 4	1,952	0	0	264	1,688
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 5	1,236	0	0	128	1,108
	619NB+92.47 - 658NB+21.92	NB EBS	0	9,899	0	0	9,899
	605SB+11.74 - 660SB+96.69	SB EBS	0	8,075	0	0	8,075
	1599NLA+97.39 - 1604NLA+78.94	RAMP NLA	865	0	0	222	643
	1576NLB+09.24 - 1578NLB+77.48	RAMP NLB	688	0	0	44	644
	1578NLC+03.23 - 1585NLC+00.00	RAMP NLC	2,736	0	0	2,040	696
	1600NLD+25.00 - 1602NLD+70.21	RAMP NLD	266	0	0	2,650	2,384
	0APC+00.00 - 9APC+35.50	POND APC	23,566	0	0	311	23,255
	199CA+40+60 - 207CA+80.28	LYNNDALE CHANNEL	2,612	0	0	164	2,448
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 2 DITCH	0	0	0	7,539	-7,539
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 3 DITCH	14,942	0	0	1,580	13,362
	2607+97.49 - 2613+15.80, 613NB+15.80 - 617NB+30.03	SB - 15 RAMP STAGE 2 CROSSOVER	570	0	0	348	222
	2672+64.22 - 2689+40.98	SB STAGE 2 CROSSOVER	1,356	0	0	123	1,233
	569NB+00.00 - 574NB+50.00, 2574+50.00 - 2583+18.17	NB STH15 RAMP NLB - STAGE 4A CROSSOVER	1,023	0	0	333	690
	2595+70.74 - 2600+66.29	NB - STH15 RAMP NLA STAGE 4B CROSSOVER	160	0	0	906	-746
	2673+44.49 - 2687+44.15	NB STAGE 4 CROSSOVER	1,503	0	0	150	1,353
	10DAB+00.00 - 11DAB+62.30	LYNNDALE DITCH B	292	0	0	0	292
	569NB+00.00 - 672NB+55.51	IH 41 RELIEF TRENCHES	1,352	0	0	0	1,352
	Totals		168,000	18,000	100	65,900	120,200
			186,000				

2

2

1) Excavation Common = Cut + EBS Excavation. Item number 205.0100.
2) Cut volume includes existing concrete and asphaltic surface material.
3) EBS Excavation to be backfilled with select crushed material unless otherwise noted in the plans. All EBS material is assumed to be wasted offsite.
4) Roadway Embankment = Fill
5) Mass Ordinate = Excavation Common + Excavation Marsh - Fill. The Mass Ordinate is for information purposes only.

**Additional Quantities Shown Elsewhere

Addendum No. 02
ID 1130-64-72
Added Sheet 862
November 26, 2024

INLET MARKERS

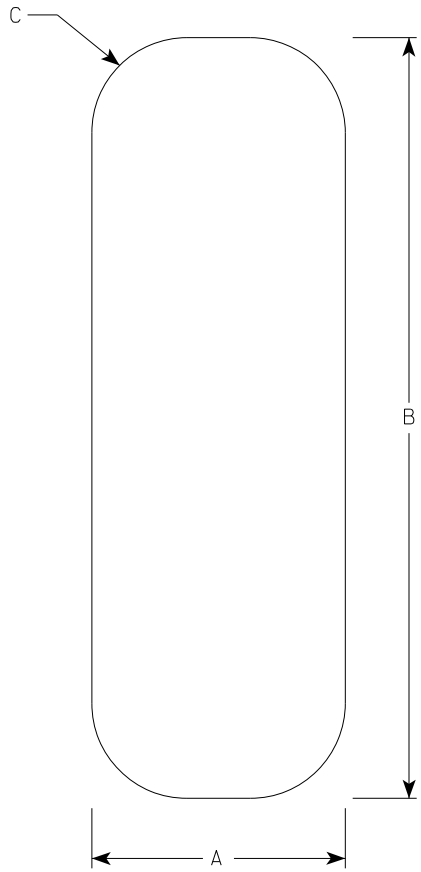
CATEGORY	LOCATION	STRUCTURE ID	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-72		
	R/L SB	6145-S2	1
	R/L SB	6146-S2	1
	R/L SB	6149-S2	1
	R/L SB	6406-S4	1
	R/L SB	6407-S3	1
	R/L SB	6408-S2	1
	R/L SB	6409-S2	1
	R/L SB	6411-S2	1
	R/L SB	6412A-S2	1
	R/L SB	6412-S2	1
	R/L SB	6413-S3	1
	R/L SB	6414-S4	1
	R/L SB	6421-S2	1
	R/L SB	6422-S2	1
	R/L SB	6426-S3	1
	R/L SB	6427-S3	1
	R/L SB	6431A-S3	1
	R/L SB	6432A-S3	1
	R/L SB	6432-S3	1
	R/L SB	6433-S3	1
	R/L SB	6434A-S2	1
	R/L SB	6434-S3	1
	R/L SB	6435A-S3	1
	R/L SB	6435-S3	1
	R/L SB	6436-S3	1
	R/L SB	6437-S3	1
	R/L SB	6438-S2	1
	R/L SB	6442-S3	1
	R/L SB	6443-S3	1
	R/L SB	6444-S3	1
	R/L SB	6445-S3	1
	R/L SB	6446-S3	1
	R/L SB	6481-S3	1
	R/L SB	6482-S2	1
	R/L SB	6484-S3	1
	R/L SB	6485-S2	1
	R/L SB	6486-S2	1
	R/L SB	6487-S3	1
	NLA	6491A-S4	1
	R/L SB	6491-S3	1
	R/L SB	6492-S2	1
	R/L SB	6493A-S4	1
	R/L SB	6493-S2	1
	NLA	6494A-S4	1
	NLA	6494B-S4	1
	NLA	6494D-S4	1
	R/L SB	6494-S3	1
	R/L SB	6495-S2	1
	R/L SB	6496-S1	1
	R/L SB	6497-S2	1

CATEGORY	LOCATION	STRUCTURE ID	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-72		
	R/L SB	6501-S2	1
	R/L SB	6502-S2	1
	R/L SB	6503A-S4	1
	R/L SB	6503-S3	1
	R/L SB	6505-S2	1
	R/L SB	6507-S2	1
	R/L SB	6508A-S4	1
	R/L SB	6508-S3	1
	R/L SB	6511-S4	1
	R/L SB	6512-S4	1
	R/L SB	6513-S4	1
	R/L SB	6514-S4	1
	R/L SB	6515-S2	1
	R/L SB	6517-S2	1
	R/L SB	6518-S2	1
	R/L SB	6520-S2	1
	R/L SB	6521-S3	1
	R/L SB	6522-S3	1
	R/L SB	6523-S3	1
	R/L SB	6524-S2	1
	R/L SB	6525-S2	1
	R/L SB	6534-S2	1
	R/L SB	6536-S4	1
	R/L SB	6538-S4	1
	R/L SB	6539-S3	1
	R/L SB	6540-S2	1
	R/L SB	6542-S2	1
	R/L SB	6543-S3	1
	R/L SB	6544-S2	1
	R/L SB	6545-S2	1
	R/L SB	6550-S2	1
	R/L SB	6552-S4	1
	R/L SB	6553-S3	1
	R/L SB	6555-S2	1
	R/L SB	6556-S2	1
	R/L SB	6560-S2	1
	R/L SB	6561-S2	1
	R/L SB	6562-S4	1
	R/L SB	6563-S3	1
	R/L SB	6565-S2	1
	R/L SB	6566-S4	1
	R/L SB	6567-S3	1
	R/L SB	6568-S2	1
	R/L SB	6570-S2	1
	R/L SB	6571-S2	1
	R/L SB	6572-S4	1
	R/L SB	6573-S3	1
	R/L SB	6575-S2	1
	R/L SB	6576-S2	1
	R/L SB	6577-S4	1

CATEGORY	LOCATION	STRUCTURE ID	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-72		
	R/L SB	6578-S3	1
	R/L SB	6579-S2	1
	R/L SB	6580-S2	1
	R/L SB	6581-S2	1
	R/L SB	6582-S4	1
	R/L SB	6583-S3	1
	R/L SB	6585-S2	1
	R/L SB	6590-S2	1
	R/L SB	6591-S2	1
	R/L SB	6592-S4	1
	R/L SB	6593-S3	1
	R/L SB	6594-S2	1
	R/L SB	6595-S2	1
	R/L SB	6596-S2	1
	R/L SB	6597-S4	1
	R/L SB	6598-S3	1
	R/L SB	6599-S2	1
	R/L SB	6600-S2	1
	R/L SB	6601-S2	1
	R/L SB	6602-S4	1
	R/L SB	6603-S3	1
	R/L SB	6605-S2	1
	R/L SB	6610-S2	1
	R/L SB	6611-S2	1
	R/L SB	6612-S4	1
	R/L SB	6613-S3	1
	R/L SB	6614-S2	1
	R/L SB	6615-S2	1
	R/L SB	6616-S2	1
	R/L SB	6617-S4	1
	R/L SB	6618-S3	1
	R/L SB	6619-S4	1
	R/L SB	6620-S2	1
	R/L SB	6625-S2	1
	R/L SB	6626-S2	1
	R/L SB	6627-S4	1
	R/L SB	6628-S3	1
	R/L SB	6629-S2	1
	R/L SB	6631-S2	1
	R/L SB	6632-S4	1
	R/L SB	6639-S2	1
	R/L SB	6641-S4	1
	R/L SB	6646-S2	1
	R/L SB	6651-S2	1
	R/L SB	6652-S2	1
	R/L SB	6654-S2	1
	R/L SB	6655B-S2	1
	R/L SB	6655-S2	1
	R/L SB	6675-S1	1
	R/L SB	6677-S4	1

CATEGORY	LOCATION	STRUCTURE ID	SPV.0060.0270 INLET MARKER EACH
1000	PROJECT 1130-64-72		
	R/L SB	6678-S4	1
	R/L SB	6679-S1	1
	R/L SB	6692-S2	1
	R/L SB	6693-S4	1
	R/L SB	6694-S2	1
	R/L SB	6697-S4	1
	R/L SB	EX 6451	1
	R/L SB	EX 6452	1
	R/L SB	EX 6453	1
	R/L SB	EX 6454	1
	R/L SB	EX 6455	1
	R/L SB	EX 6458	1
	R/L SB	EX 6459	1
	R/L SB	EX 6460	1
	R/L SB	EX 6461	1
	R/L SB	EX 6463	1
	R/L SB	EX 6464	1
	R/L SB	EX 6465	1
	R/L SB	EX 6466	1
	R/L SB	EX 6467	1
	R/L SB	EX 6470	1
	R/L SB	EX 6471	1
	R/L SB	EX 6472	1
	R/L SB	EX 6476	1
	R/L SB	EX 6477	1
	R/L SB	EX 6526	1
	R/L SB	EX 6527	1
	PROJECT 1130-64-72 TOTAL		177

Addendum No. 02
ID 1130-64-72
Added Sheet 950A
November 26, 2024



W5-53S

NOTES

1. Sign is Type II -Type H Reflective
2. Color:
   Background - Green
3. Base material shall be .040" aluminum.
   Corners shall be rounded.

Addendum No. 02
ID 1130-64-71/72
Added Sheet 1315A
November 26, 2024

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	4	12	1 1/2																								.33
2M	4	12	1 1/2																								.33
3																											
4																											
5																											

STANDARD SIGN
W5-53S

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W5-53S.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1315A | E

R/L APC - POND APC

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	FILL	MARSH EXC	EBS	CUT	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00	EXPANDED EBS BACKFILL 1.00	MASS ORDINATE
0+00.00	0.00	0.00	678.35	18.69	0.00	0.00	0	0	0	0	0	0	0	0	0
0+50.00	50.00	50.00	737.41	27.39	0.00	0.00	1311	43	0	0	1311	43	0	0	1268
1+00.00	100.00	50.00	803.70	36.67	0.00	0.00	1427	59	0	0	2738	102	0	0	2636
1+50.00	150.00	50.00	865.20	48.19	0.00	0.00	1545	79	0	0	4283	181	0	0	4102
2+00.00	200.00	50.00	704.69	0.01	0.00	0.00	1454	45	0	0	5737	226	0	0	5511
2+50.00	250.00	50.00	575.89	0.01	0.00	0.00	1186	0	0	0	6923	226	0	0	6697
3+00.00	300.00	50.00	1054.29	0.00	0.00	0.00	1509	0	0	0	8432	226	0	0	8206
3+50.00	350.00	50.00	968.11	0.47	0.00	0.00	1873	0	0	0	10305	226	0	0	10079
4+00.00	400.00	50.00	886.90	0.65	0.00	0.00	1718	1	0	0	12023	227	0	0	11796
4+50.00	450.00	50.00	782.19	0.01	0.00	0.00	1545	1	0	0	13568	228	0	0	13340
5+00.00	500.00	50.00	700.66	0.00	0.00	0.00	1373	0	0	0	14941	228	0	0	14713
5+50.00	550.00	50.00	642.06	0.00	0.00	0.00	1243	0	0	0	16184	228	0	0	15956
6+00.00	600.00	50.00	570.16	0.00	0.00	0.00	1122	0	0	0	17306	228	0	0	17078
6+50.00	650.00	50.00	486.85	0.00	0.00	0.00	979	0	0	0	18285	228	0	0	18057
7+00.00	700.00	50.00	389.01	0.00	0.00	0.00	811	0	0	0	19096	228	0	0	18868
7+50.00	750.00	50.00	389.80	4.94	0.00	0.00	721	5	0	0	19817	233	0	0	19584
8+00.00	800.00	50.00	483.48	9.20	0.00	0.00	809	13	0	0	20626	246	0	0	20380
8+50.00	850.00	50.00	562.81	12.10	0.00	0.00	969	20	0	0	21595	266	0	0	21329
9+00.00	900.00	50.00	633.69	13.90	0.00	0.00	1108	24	0	0	22703	290	0	0	22413
9+35.50	935.50	35.50	678.35	18.69	0.00	0.00	863	21	0	0	23566	311	0	0	23255
							23,566	311	0	0					

2 2 2 2

Addendum No. 02
ID 1130-64-72
Revised Sheet 1630
November 26, 2024

9 9

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	EARTHWORK DATA	SHEET 1630	E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 49

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	204.0246 Removing Ancillary Structure (structure) 0001. S-44-016	1.000 EACH	_____.____	_____.____
0060	204.0270 Abandoning Culvert Pipes	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 0001. Abandoning Monitoring Well	4.000 EACH	_____.____	_____.____
0064	204.9060.S Removing (item description) 0103. Apron Endwalls	2.000 EACH	_____.____	_____.____
0066	204.9060.S Removing (item description) 0600. Anchor Bolt Cover Shrouds	3.000 EACH	_____.____	_____.____
0068	204.9060.S Removing (item description) 0700. Communication Vault	10.000 EACH	_____.____	_____.____
0070	205.0100 Excavation Common	251,951.000 CY	_____.____	_____.____
0072	205.0400 Excavation Marsh	100.000 CY	_____.____	_____.____
0074	206.1001 Excavation for Structures Bridges (structure) 0803. B-44-339	1.000 EACH	_____.____	_____.____
0076	206.1001 Excavation for Structures Bridges (structure) 0804. B-44-340	1.000 EACH	_____.____	_____.____
0078	206.2001 Excavation for Structures Culverts (structure) 0801. B-44-0347	1.000 EACH	_____.____	_____.____
0080	206.2001 Excavation for Structures Culverts (structure) 0802. B-44-0348	1.000 EACH	_____.____	_____.____
0082	209.0200.S Backfill Controlled Low Strength	13.000 CY	_____.____	_____.____
0084	209.1100 Backfill Granular Grade 1	150.000 CY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0442	611.3225 Inlets 2x2.5-FT	13.000 EACH	_____.____	_____.____
0444	611.3230 Inlets 2x3-FT	11.000 EACH	_____.____	_____.____
0446	611.3901 Inlets Median 1 Grate	11.000 EACH	_____.____	_____.____
0448	611.3902 Inlets Median 2 Grate	8.000 EACH	_____.____	_____.____
0450	611.8110 Adjusting Manhole Covers	45.000 EACH	_____.____	_____.____
0452	611.8115 Adjusting Inlet Covers	6.000 EACH	_____.____	_____.____
0454	611.8120.S Cover Plates Temporary	234.000 EACH	_____.____	_____.____
0456	611.9710 Salvaged Inlet Covers	2.000 EACH	_____.____	_____.____
0458	611.9850.S Pipe Grates (size) 0001. 30-Inch	1.000 EACH	_____.____	_____.____
0460	612.0106 Pipe Underdrain 6-Inch	7,858.000 LF	_____.____	_____.____
0462	612.0206 Pipe Underdrain Unperforated 6-Inch	60.000 LF	_____.____	_____.____
0464	612.0406 Pipe Underdrain Wrapped 6-Inch	7,131.000 LF	_____.____	_____.____
0466	614.0150 Anchor Assemblies for Steel Plate Beam Guard	1.000 EACH	_____.____	_____.____
0468	614.0397 Guardrail Mow Strip Emulsified Asphalt	387.000 SY	_____.____	_____.____
0470	614.0800 Crash Cushions Permanent	1.000 EACH	_____.____	_____.____
0472	614.0905 Crash Cushions Temporary	49.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0834	715.0603 Incentive Strength Concrete Barrier	26,359.000 DOL	1.00000	26,359.00
0836	715.0715 Incentive Flexural Strength Concrete Pavement	67,905.000 DOL	1.00000	67,905.00
0838	740.0440 Incentive IRI Ride	105,621.000 DOL	1.00000	105,621.00
0840	801.0117 Railroad Flagging Reimbursement	125,300.000 DOL	1.00000	125,300.00
0842	999.1001.S Seismograph (project) 0001. 1130-64-72	1.000 EACH	_____._____	_____._____
0844	999.1501.S Crack and Damage Survey	14.000 EACH	_____._____	_____._____
0846	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000	10,500.00
0848	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	5,760.000 HRS	5.00000	28,800.00
0850	SPV.0035 Special 0100. Roadway Embankment	127,000.000 CY	_____._____	_____._____
0852	SPV.0035 Special 0800. HPC Masonry Structures	1,670.000 CY	_____._____	_____._____
0854	SPV.0060 Special 0100. Baseline CPM Progress Schedule	1.000 EACH	_____._____	_____._____
0856	SPV.0060 Special 0105. CPM Progress Schedule and Accepted Revisions	17.000 EACH	_____._____	_____._____
0858	SPV.0060 Special 0110. Construction Staking Survey Project 1130-64-71	1.000 EACH	_____._____	_____._____
0860	SPV.0060 Special 0115. Construction Staking Survey Project 1130-64-72	1.000 EACH	_____._____	_____._____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1020	SPV.0180 Special 0100. Concrete Pavement 10 1/2-Inch Special	207,860.000 SY	_____.____	_____.____
1022	SPV.0180 Special 0200. Topsoil Filled Riprap	977.000 SY	_____.____	_____.____
1024	SPV.0195 Special 0105. Load Transfer Platform	6,462.000 TON	_____.____	_____.____
1026	SPV.0060 Special 0270. Inlet Marker	229.000 EACH	_____.____	_____.____
	Section: 0001		**Total:**	_____.____
			Total Bid:	**_____.____**

Wisconsin Department of Transportation

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

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

December 5, 2024

NOTICE TO ALL CONTRACTORS:

Proposal #14: **1130-64-71, WISC 2025135**
Appleton – De Pere
I-41 Mainline, STH 96 – RR Bridge
IH 041
Outagamie County

1130-64-72, WISC 2025136
Appleton – De Pere
I-41 Mainline, RR Bridge – Lynndale
IH 041
Outagamie County

1130-64-71, WISC 2025137
Appleton – De Pere
Railroad Structures
IH 041
Outagamie County

Letting of December 10, 2024

This is Addendum No. 03, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
1.4	Work by Others
2.1	Prosecution and Progress
4.5	Traffic
10.7	Concrete Pavement 10 1/2-Inch Special, Item SPV.0180.0100

Added Special Provisions	
Article No.	Description
13.27	Structure Lids, Item SPV.0060.0275
18.20	Connected Work Zone Start and End Location Markers, Item SPV.0045.0300
18.21	Connected Arrow Boards, Item SPV.0045.0305
18.22	Fence Temporary, Item SPV.0090.0155

Deleted Special Provisions	
Article No.	Description
9.1	Notice to Contractor, Salvaged Topsoil

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
204.0170	Removing Fence	LF	25,680	-2,600	23,080
204.0210	Removing Manholes	Each	1	1	2
205.0100	Excavation Common	CY	251,951	3,800	255,751
415.0095	Concrete Pavement 9 1/2-Inch	SY	1,230	20	1,250
505.0400	Bar Steel Reinforcement HS Structures	LB	497,894	5,712	503,606
505.0600	Bar Steel Reinforcement HS Coated Structures	LB	621,730	21,740	643,470
506.2605	Bearing Pads Elastomeric Non-Laminated	Each	48	16	64
506.4000	Steel Diaphragms (structure) 0803. B-44-339	Each	37	-9	28
513.2001	Railing Pipe	LF	1,517	1	1,518
516.0500	Rubberized Membrane Waterproofing	SY	670	-321	349
611.2007	Manholes 7-FT Diameter	Each	16	1	17
611.8120.S	Cover Plates Temporary	Each	234	2	236
SPV.0035.0100	Roadway Embankment	CY	127,000	1,100	128,100
SPV.0060.0215	Reconnect Storm Sewer	Each	130	1	131
SPV.0060.0240	Sealing Storm Structure	Each	19	-1	18

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
550.2126	Piling CIP Concrete 12 3/4 x 0.375-Inch	LF	0	15,081	15,081
603.3255	Concrete Barrier Transition Type F42SF to S42	Each	0	1	1
SPV.0045.0300	Connected Work Zone Start and End Location Markers	Day	0	1,340	1,340
SPV.0045.0305	Connected Arrow Boards	Day	0	1,340	1,340
SPV.0060.0275	Structure Lids	Each	0	28	28
SPV.0090.0155	Fence Temporary	LF	0	2,755	2,755

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
550.2106	Piling CIP Concrete 10 3/4 x 0.365-Inch	LF	15,081	-15,081	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
36	Typical Finished Sections: Updated location of concrete barrier.
51	Construction Details: Added note indicating dowel bars not required beneath concrete barrier.
67	Construction Details: Updated dimensions.
75	Construction Detail-Ground Improvement Detail: Added note identifying cutoff elevation.
76	Construction Details-Rigid Inclusion Cap Details: Removed note making reinforcement incidental to cap
92	Construction Detail-Drainage: Removed note for monolithic shimming.
97	Construction Detail-Drainage: Added detail and notes for monolithic shimming.
100-101	Construction Details-Drainage: Updated heading of table.
145-146	Removal Plan-Stage 2-Mainline: Updated location of fence removal.
191	Plan Details–IH 41 Mainline: Updated location of Concrete Barrier Type S56A.
257-258	Plan Details-Lynndale Drive: Updated location of barrier wall and added a concrete barrier transition.
443	Storm Sewer Plan and Profile IH 41-Mainlie Temporary Drainage Stage 1: Update fence location
445	Storm Sewer Plan and Profile IH 41-Mainlie Temporary Drainage Stage 1: Added pipe dimensions in profile view
451	Storm Sewer Plan and Profile IH 41-Mainlie Temporary Drainage Stage 2: Changed 6540-S2 to 6540T-S2. A temporary structure is required during this stage.
548-549	Traffic Control-Stage 1A: Added installation of Fence Temporary.
829	Miscellaneous Quantities: Adjusted quantity for Cover Plates and added bid item for Adjusting Manhole Covers.
857	Miscellaneous Quantities: Updated quantities for removing fence.
862	Miscellaneous Quantities: Updated earthwork volumes for different roadways.
866	Miscellaneous Quantities: Adjusted quantity for Concrete Pavement 9 1/2-Inch bid item.
873-874	Miscellaneous Quantities: Added quantity for concrete barrier transition.
899	Miscellaneous Quantities: Added bid item and quantity for Fence Temporary
907	Miscellaneous Quantities: Added quantity for removing manholes.
910-911	Miscellaneous Quantities: Update station/offset of structure.
912-914	Miscellaneous Quantities: Added manhole quantity and notes for structure 6540T-S2.
920	Miscellaneous Quantities: Updated total quantity for Manholes 7-FT Diameter.
924-926	Miscellaneous Quantities: Update table for staged drainage and to include 6540T-S2.
928-930	Miscellaneous Quantities: Moved quantities for 6482-S2 to storm sewer pipes table for Stage 3.
939-940	Miscellaneous Quantities: Added temporary cover plate for 6540T-S2 and adjusted total for 1130-64-72.
941-944	Miscellaneous Quantities: Added notes providing dimensions of existing structures and adjusted the top of structure and rim elevation for several structures. Added bid item for placing concrete covers on drainage structures placed in a previous contract.
945-946	Miscellaneous Quantities: Added quantity for reconnecting storm sewers to include 6540T-S2.

947-948	Miscellaneous Quantities: Removed storm sewer plug quantity during Stage 2 and adjusted the total.
1347	Structure B-44-339, General Notes & Quantities: Revised total estimated quantities for several items.
1387	Structure B-44-0340: Revised total estimated quantity for Rubberized Membrane Waterproofing.
1403	Structure B-44-340, Pier: Updated location of reference line for SB and girder orientation at pier.
1486	Structure R-44-28, Wall Geometry and Design Data: Removed note about using only wall panels with hinged strips.

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
538A	Traffic Control Details: Added detail for using work zone location markers during lane closures.
808A	Miscellaneous Quantities: Added table for connected work zone devices
901A	Miscellaneous Quantities: Added table for connected work zone devices
1057A	Standard Detail Drawing: Added SDD 8D14, Slotted Vane Drain
1649A-B	Earthwork Data: Added end area for Lynndale Drive (CTH A).

Deleted Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
93	Construction Details-Drainage: The monolithic shimming detail was added to the Double Grate Inlet Section (p. 97 of plan) in this addendum. Additionally, concrete shimming is only required at VV-B Inlet Covers on IH 41.

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. 03

1130-64-71, 1130-64-72 and 1130-64-87

December 5, 2024

Special Provisions

1.4 Work by Others.

Add the following section after the Automatic Traffic Recorder (ATR) section.

The **Appleton Area Metropolitan Fiber Optic Network (AAMFON)** has existing underground communication lines crossing IH 41 at Station 592NB+45, AAMFON will discontinue this line in place under project 1130-64-76 prior to this project. AAMFON will install a new line along the northwest right of way of STH 15 crossing under IH 41 at Station 604SB+50.

AAMFON will connect to Wisconsin Department of Transportation ITS line handhole at Station 604SB+50 left, continuing northerly and easterly to a Wisconsin Department of Transportation ITS handhole at Station 657SB+25 left.

AAMFON will place a new handhole at Station 657SB+25 left, continuing along the north right of way to a new handhole placed at Station 666SB+40 left.

AAFMON has existing overhead communication lines on We Energies poles crossing IH 41 at Station 667SB+00 crossing over the end of proposed box culvert B-44-348. This facility will be discontinued, removed and jointly relocated with We Energies under IH 41 west of existing overhead line out of conflict prior to construction.

2.1 Prosecution and Progress.

*Delete the section titled **Interim Completion and Liquidated Damages – Ramp WND Closure, Stage 2A** and replace with the following:*

Interim Completion and Liquidated Damages – Ramp WND Closure, August 8, 2025

Complete all Stage 2A work required to reopen the SB IH 41 exit ramp to STH 96 (Ramp WND) as shown with Stage 2B traffic control configuration or as approved by the engineer by August 8, 2025.

A contractor designed, engineer approved, temporary traffic signals and lighting systems may be installed to reopen the interchange. Temporary systems installation, maintenance, and removal, mobilization and traffic control costs are incidental to the electrical bid items.

If the contractor fails to complete all Stage 2A work necessary to fully reopen the WND Ramp to traffic by August 8, 2025, the department will assess the contractor $4,500 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on August 8, 2025. 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.

4.5 Traffic

*In the **Traffic Operations During Construction** section, under **Stage 4A**, replace the STH 15 section with the following:*

STH 15

- All lanes of STH 15 are open to traffic.
- The IH 41 northbound entrance ramp will utilize the temporary widening along the outside shoulder of IH 41 northbound, merging onto IH 41 to the east of the Lynndale Drive overpass.
- The NLB, NLC and the NLD ramps are open to traffic.

*In the **Traffic Operations During Construction** section, under **Stage 4B**, replace the STH 15 section with the following:*

STH 15

- All lanes of STH 15 are open to traffic.
- Ramp NLA will use the temporary ramp crossover build in the previous stage. Traffic merging onto IH 41 northbound will utilize the new IH 41 northbound pavement and merge onto IH 41 to the west of Lynndale Drive overpass.
- Ramp NLB, NLC and NLD ramps are open to traffic.

9.1 Deleted

10.7 Concrete Pavement 10 1/2-Inch Special, Item SPV.0180.0100.

Delete the sixth paragraph of Section 501.2.7.3.1 and replace with the following:

The department will randomly sample coarse aggregate for lightweight pieces testing at least once per 10,000 cubic yards during placement of concrete pavement.

13.27 Structure Lids, Item SPV.0060.0275.

A Description

This special provision describes installing a concrete lid on a drainage structure placed in a previous contract. Conform to standard spec 611, the plans, as directed by the engineer and as herein provided.

B Materials

Provide a precast reinforced concrete flat slab top for a circular manhole, circular inlet or rectangular inlet. Confirm the lid is compatible with the existing drainage structure and proposed inlet or manhole cover prior to ordering.

C (Vacant)

D Measurement

The department will measure Structure Lids by the 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.0060.0275	Structure Lids	EACH

Payment is full compensation for providing, cleaning and installing the structure lid; for excavating and backfilling, and for cleaning out and restoring the site.

18.20 Connected Work Zone Start and End Location Markers, Item SPV.0045.0300.

A Description

This special provision describes providing, repositioning, operating, maintaining, monitoring, and removing a system of connected markers capable of identifying the start and end of a work zone, reporting real-time work zone location information to Wisconsin 511, and for third party vendors.

B Materials

Furnish items from the department's approved products list for Signing and Marking, Work Zone Traffic Control, Connected Work Zone Location Markers: https://wisconsindot.gov/pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx.

Ensure the work zone location markers and connected arrow board are from the same manufacturer.

C Construction

C.1 General

Follow all requirements in standard spec 643.3.

Place work zone start location marker at the beginning of the work zone per plan or as the engineer directs. Clearly label the work zone start location marker so that it is easily distinguished by field personnel.

Place work zone end location marker at the end of the work zone per plan or as the engineer directs. Clearly label the work zone end location marker so that it is easily distinguished by field personnel.

Ensure the connected work zone start and end location markers operates continuously when deployed on the project. Provide free standing, self-powered work zone start and end location markers per the manufacturer requirements.

Provide a local specialist, to respond to emergency situations within 2 hours of being notified. Equip the specialist with sufficient resources to correct deficiencies in the connected work zone start and end location markers.

C.2 Testing and Configuration

Prior to deployment, test the connected work zone start and end location markers with the engineer to ensure devices are showing in the WZDx Device Feed. Send an email to DOTBTOworkzone@dot.wi.gov to notify BTO that the devices have been turned on.

C.3 Programming

When the work zone start and end location markers are switched to the ON mode, the location markers transmit to the data feed their location and identity as a work zone start and end.

The connected work zone start and end location markers and their remote management software shall provide a public GeoJSON/API feed, updated at least every minute, compliant with FHWA's Work Zone Data Exchange (WZDx) v4.2 (https://www.transportation.gov/av/data/wzdx) Device Feed specification.

Switch the work zone start and end location markers to the OFF mode when temporary traffic control is removed, and traffic is restored to two lane operation.

C.4 Reporting

If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text and/or email. Send an alert each time the connected work zone start and end location markers are switched between operating modes (i.e., each time a work zone start/end location marker is switched between ON mode and OFF mode). Include the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

D Measurement

The department will measure each system of Connected Work Zone Start and End Location Markers by the day.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.0300	Connected Work Zone Start and End Location Markers	DAY

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, testing, relocating and removing the complete system consisting of connected work zone start and end location markers.

The department will deduct one day for each calendar day the Connected Work Zone Start and End Location Markers is required but out of service for more than 2 hours.

18.21 Connected Arrow Boards, Item SPV.0045.0305.

A Description

This special provision describes providing, repositioning, operating, maintaining, monitoring, and removing connected arrow board(s) capable of reporting real-time work zone lane closure information to Wisconsin 511 and third-party vendors.

B Materials

Furnish items from the department's approved products list for Signing and Marking, Work Zone Traffic Control, Connected Arrow Boards: https://wisconsindot.gov/pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx.

Ensure the connected arrow board and work zone location markers are from the same manufacturer.

C Construction

C.1 General

Follow all requirements in standard spec 643.3.

Place connected arrow board per plan or as the engineer directs.

Ensure the connected arrow board operates continuously when deployed on the project.

Provide a local specialist to respond to emergency situations within 2 hours of being notified. Equip local specialist with sufficient resources to correct deficiencies in the connected work zone start and end location markers.

C.2 Testing and Configuration

Prior to deployment, test the connected arrow board with the engineer to ensure the device is showing in the WZDx Device Feed. Send an email to DOTBTOworkzone@dot.wi.gov to notify BTO that the devices have been turned on.

C.3 Programming

Connected arrow board may be switched between the following pattern displays per the plan:

- Blank
- Right Arrow Static
- Right Arrow Flashing
- Right Arrow Sequential
- Left Arrow Static
- Left Arrow Flashing

- Left Arrow Sequential

When the connected arrow board is not displaying a pattern, the display shall be blank and the connected arrow board transmits its status to the data feed. When a connected arrow board is switched to a pattern, the connected arrow board transmits its location and its current operating mode to the data feed.

The connected arrow board and the remote management software shall provide a public GeoJSON/API feed, updated at least every minute, compliant with FHWA's Work Zone Data Exchange (WZDx) v4.2 (https://www.transportation.gov/av/data/wzdx) Device Feed specification.

C.4 Reporting

If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text and/or email. Send an alert each time a connected arrow board is switched between operating modes (e.g., each time a connected arrow board is switched between blank, flashing left arrow mode and flashing right arrow mode). Include the current operating mode, the previous operating mode, the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

D Measurement

The department will measure the connected arrow boards by the day, 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.0045.0305	Connected Arrow Boards	DAY

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, testing, relocating and removing the connected arrow board.

The department will deduct one day for each calendar day the connected work zone start and end location markers is required but out of service for more than 2 hours.

18.22 Fence Temporary, Item SPV.0090.0155.

A Description

This special provision describes furnishing, erecting and maintaining temporary chain link fence as shown on the plans and as directed by the engineer, according to standard spec 616, and as hereinafter provided.

B Materials

Fencing parts furnished do not have to be new materials. Used, re-rolled and open seam materials will be permitted.

No specific metallic coating will be required for the chain link fencing materials. Materials furnished do not have to be of the same type. Fence height shall be a minimum of 4 feet.

The engineer may reject fencing materials which, in the engineer's opinion, are too damaged or misaligned to provide acceptable closure.

C Construction

Fence posts may be driven into the ground or set in augered holes, backfilled and compacted. Where fence is installed in areas that are not to be disturbed by subsequent construction activities, the disturbed area shall be restored in kind at no additional cost to the department.

D Measurement

The department will measure Fence Temporary in place by the linear foot from end posts, center to center, along the ground line, acceptably completed. Temporary fence will be measured once for payment. Additional measurement for fence maintenance and removal will not be made.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.0155	Fence Temporary	LF

Payment is full compensation for furnishing all materials; erecting posts, gates and fence; maintaining fencing; removing and disposing of fencing; and for restoring disturbed areas.

Schedule of Items
Attached, dated December 5, 2024, are the revised Schedule of Items Pages 1 – 37.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 36, 51, 67, 75, 76, 92, 97, 100-101, 145-146, 191, 257-258, 443, 445, 451, 548-549, 829, 857, 862, 866, 873-874, 899, 907, 910-914 920, 924-926, 928-930, 939-948,1347, 1387, 1403 and 1486
Added: 538A, 808A, 901A, 1057A, and 1649A-B

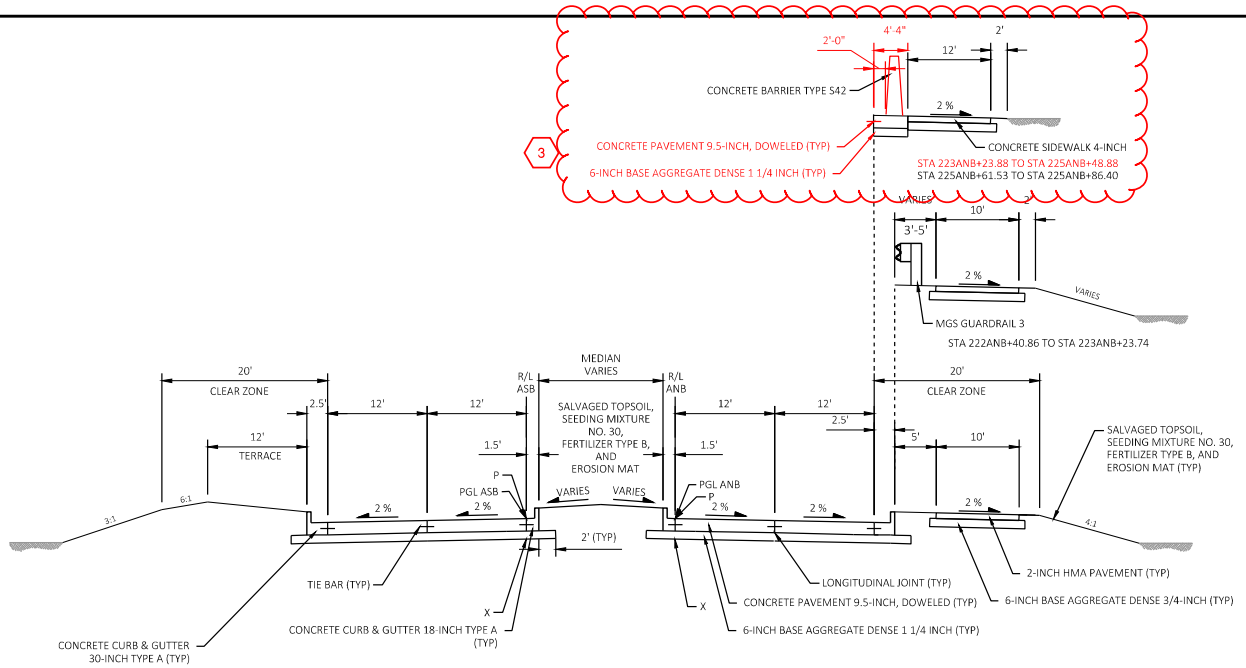
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END OF ADDENDUM

LEGEND

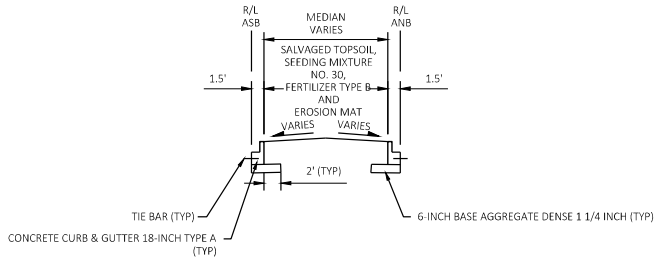
"P" - POINT REFERRED TO ON PROFILE

"X" - SUBGRADE POINT REFERRED TO ON CROSS SECTIONS



TYPICAL FINISHED SECTION
CTH A/N LYNNDALE DR

STA 220ANB+99.01 TO STA 223ANB+48.89
STA 225ANB+61.53 TO STA 225ANB+86.40



TYPICAL FINISHED SECTION
CTH A/N LYNNDALE DR

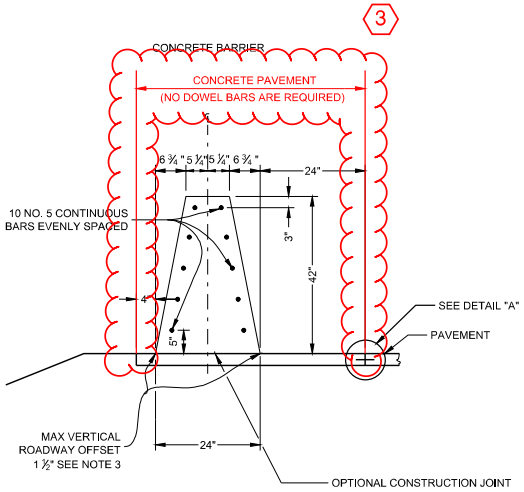
STA 218ANB+76.88 TO STA 220ANB+99.01
STA 226ANB+61.89 TO STA 229ANB+59.48

Addendum No. 03
ID 1130-64-72
Revised Sheet 36
December 5, 2024

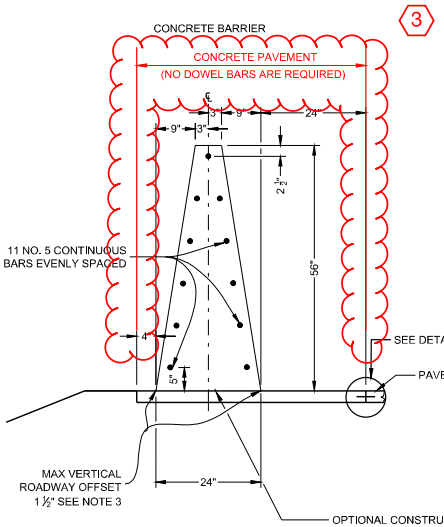
PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	TYPICAL FINISHED SECTIONS	SHEET 36	E

GENERAL NOTES

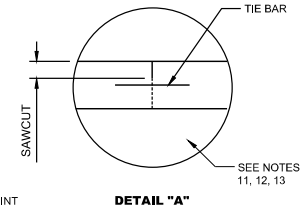
1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK AND PRINCIPAL WALL JOINTS. FILL EXPANSION JOINT WITH EXPANSION JOINT MATERIAL. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OF ½" MINIMUM. SEAL THE EXPANSION JOINT CONFORMING TO STANDARD SPEC 415.2.6.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1 1/2", USE TYPE A SINGLE SLOPE BARRIER.
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. STAGGER LAPPING OF LONGITUDINAL STEEL, MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
6. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
7. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
8. 2" CLEAR COVER TYPICAL.
9. PROVIDE 1" DEEP CONTRACTION JOINT IN BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. IF ADJACENT TO ASPHALT, CONTRACTION JOINT IS REQUIRED EVERY 15'.
10. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON SDD 14B32 OR SDD 14B33. ANCHORS INCIDENTAL TO CBSS.
11. CONCRETE PAVEMENT UNDER CBSS MAY BE PLACED WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED 1/3 DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAVEMENT BENEATH BARRIER IS EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER AND PAID FOR WITH APPLICABLE CONCRETE PAVEMENT BID ITEM IN CONTRACT WHEN ADJACENT TO CONCRETE PAVEMENT.
12. CONSTRUCTION JOINT (DETAIL A) CAN BE ELIMINATED IN CONCRETE SHOULDERS (MEASURED FROM EDGE OF PAVEMENT TO FRONT FACE OF BARRIER) LESS THAN 10'.
13. SEE SDD 13C1 FOR DETAILS TYING CONCRETE BARRIER TO ADJACENT CONCRETE.
14. ALL REBAR SHALL BE EPOXY COATED M31 TYPE S. SEE STANDARD SPEC 505.



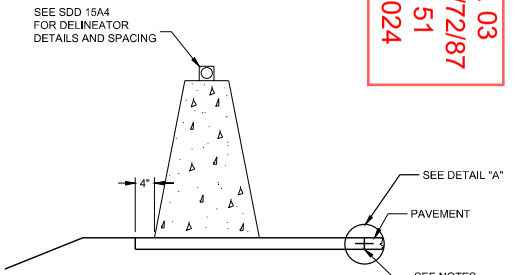
CONCRETE BARRIER TYPE S42 SPECIAL



CONCRETE BARRIER TYPE S56 SPECIAL



DETAIL "A"

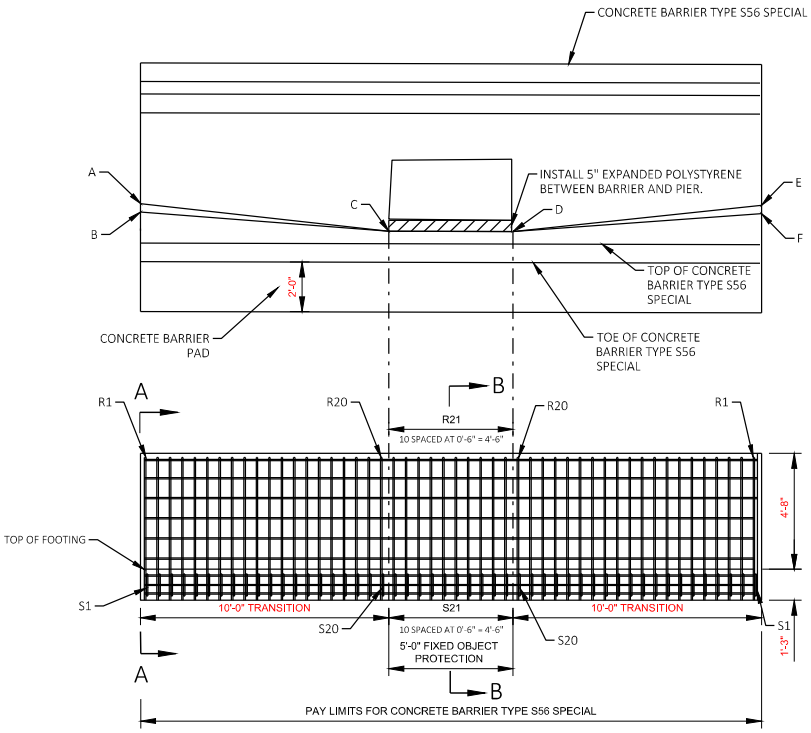


DELINEATION

Addendum No. 03
ID 1130-64-71/72/87
Revised Sheet 51
December 5, 2024

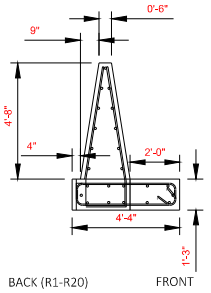
PROJECT NO: 1130-64-71/72/87	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 51	E

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PLOT BY : DAN CARY
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

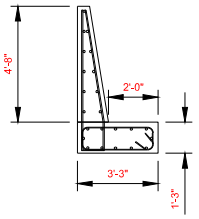


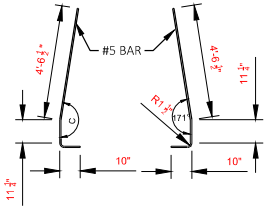
CONCRETE BARRIER TYPE S56 SPECIAL STA/OFF TABLE		
A	575+59.67	26.33 LT
B	575+59.54	26.00 LT
C	575+69.54	25.25 LT
D	575+74.54	25.25 LT
E	575+84.54	26.00 LT
F	575+84.54	26.33 LT

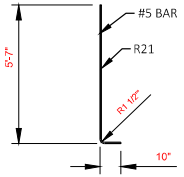
SECTION A-A

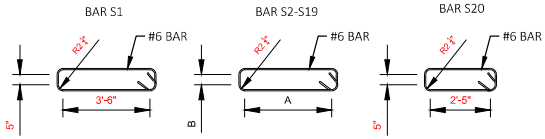


SECTION B-B









BAR POSITION	A	B
S1	3'-6"	5"
S2	3' 5-1/4"	5"
S3	3' 4-1/2"	5"
S4	3' 4"	5"
S5	3' 3-1/4"	5"
S6	3' 2-1/2"	5"
S7	3' 2"	5"
S8	3' 1-1/4"	5"
S9	3' 0-1/2"	5"
S10	3' 0"	5"
S11	2' 11-1/4"	5"

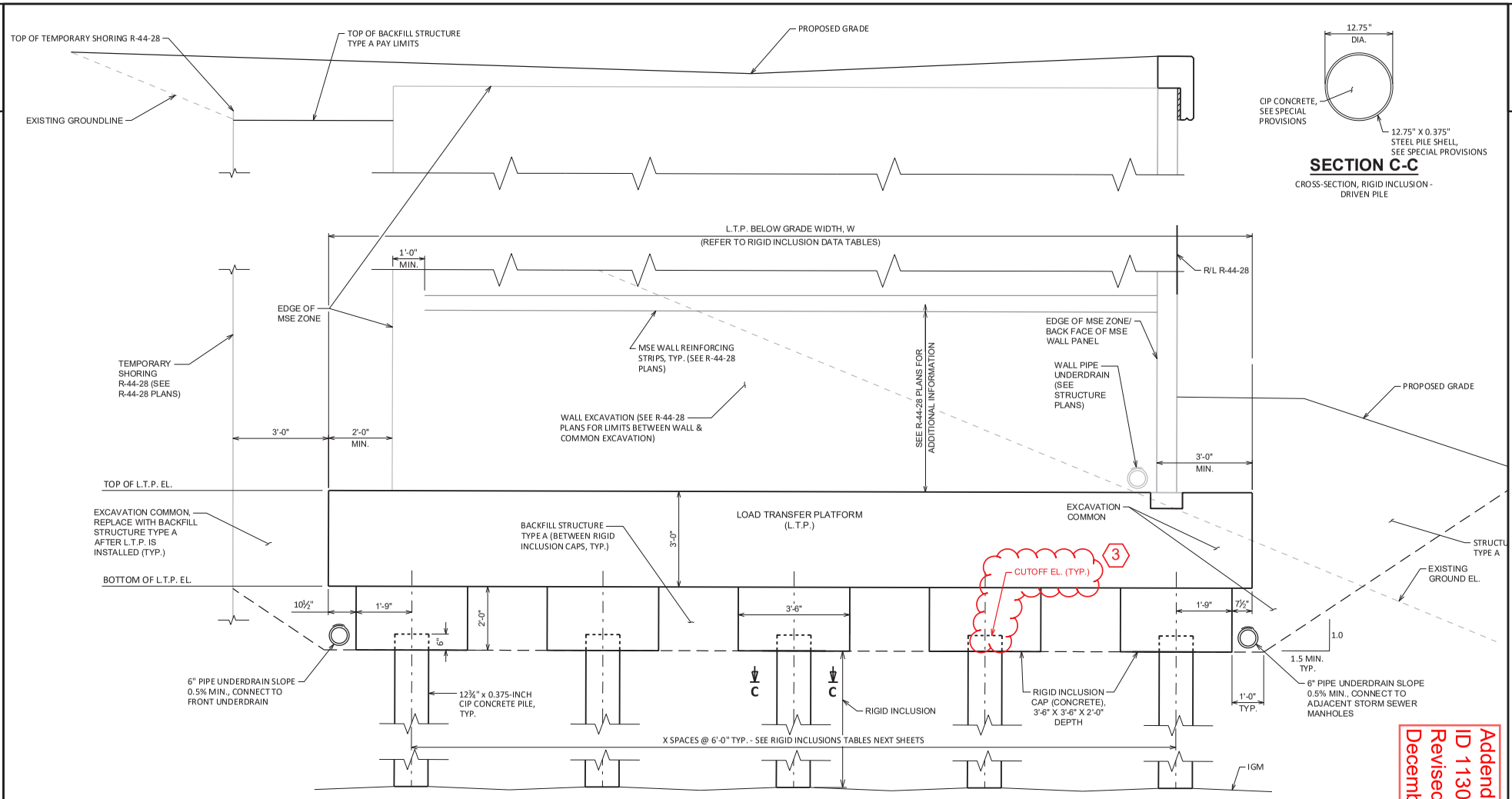
BAR POSITION	A	B
S12	2' 10-1/2"	5"
S13	2' 9-3/4"	5"
S14	2' 9"	5"
S15	2' 8-1/2"	5"
S16	2' 7-3/4"	5"
S17	2' 7"	5"
S18	2' 6-1/2"	5"
S19	2' 5-3/4"	5"
S20	2'-5"	5"

BAR POSITION	C
R1	180
R2	179
R3	179
R4	178
R5	178
R6	177
R7	177
R8	177
R9	176
R10	176
R11	175

BAR POSITION	C
R12	175
R13	174
R14	174
R15	174
R16	173
R17	173
R18	172
R19	172
R20	171

CONCRETE BARRIER FIXED OBJECTION PROTECTION TYPE S56 SPECIAL

Addendum No. 03
ID 1130-64-72
Revised Sheet 67
December 5, 2024



SECTION C-C

CROSS-SECTION, RIGID INCLUSION - DRIVEN PILE

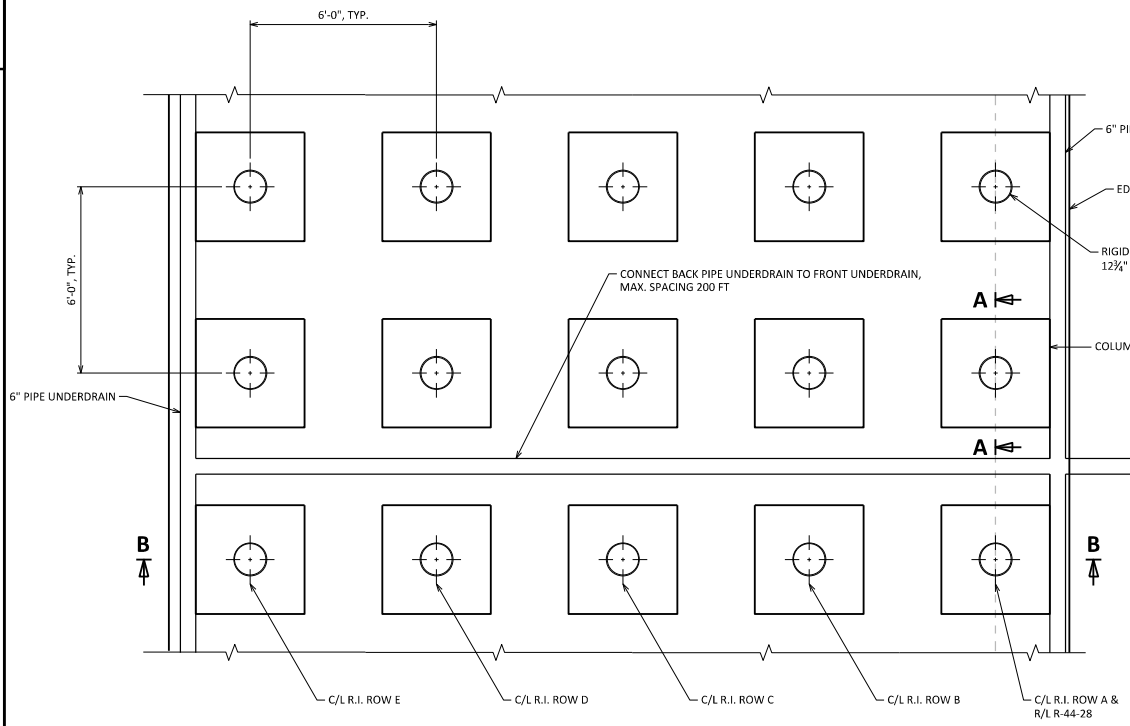
RIGID INCLUSION - DRIVEN PILE

TYPICAL SECTION
GROUND IMPROVEMENT BELOW RETAINING WALL R-44-28

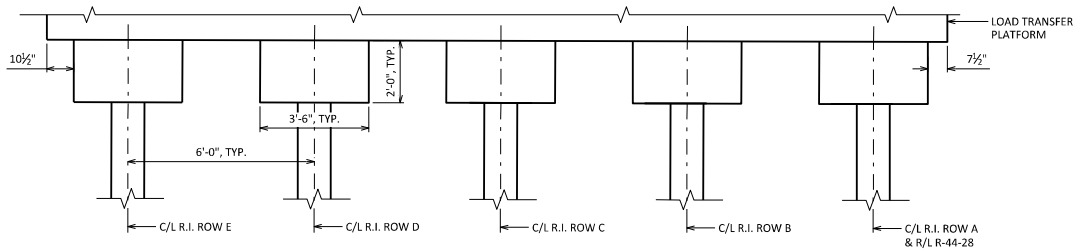
Addendum No. 03
ID 1130-64-71
Revised Sheet 75
December 5, 2024

PROJECT NO: 1130-64-71	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL: GROUND IMPROVEMENT DETAILS	SHEET 75	E

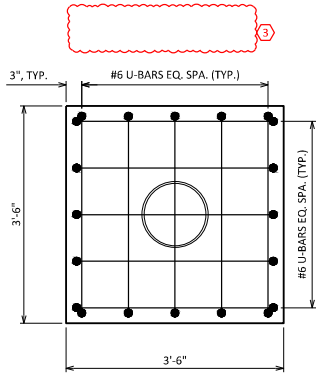
FILE NAME : C:\USERS\FGILLEN\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306471\STRC\R-44-0028\SHEETS\GI_PLAN_DETAIL_ADD3.DWG PLOT DATE : 3/4/2024 12:18 PM PLOT BY : FAITH GILLEN PLOT NAME :



GROUND IMPROVEMENT
RIGID INCLUSION LAYOUT

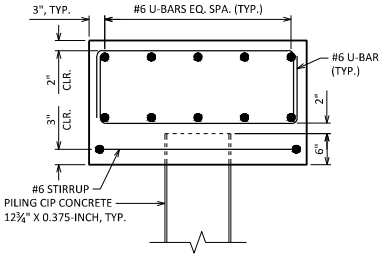


SECTION B-B



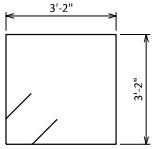
RIGID INCLUSION CAP (CONCRETE) PLAN

FOR RIGID INCLUSION - DRIVEN PILE

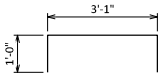


SECTION A-A

Addendum No. 03
ID 1130-64-71
Revised Sheet 76
December 5, 2024



#6 STIRRUP BAR BEND

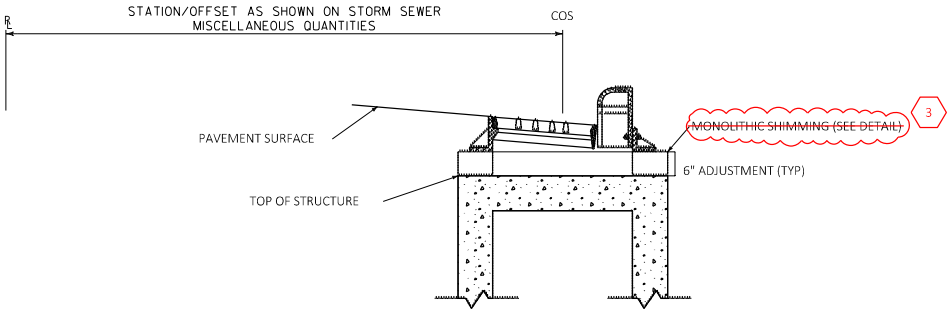


#6 U-BAR BEND

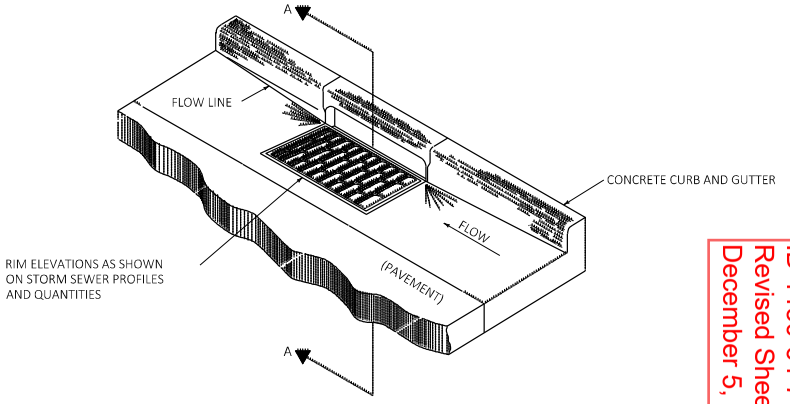
PROJECT NO: 1130-64-71	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL: RIGID INCLUSION CAP DETAILS	SHEET 76	E

FILE NAME : C:\USERS\FGILLEN\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306471\STRC\R-44-0028\SHEETS\CAP DETAIL.DWG
LAYOUT NAME - Cap Details
PLOT DATE : 5/9/2018 2:47 PM
PLOT BY : FAITH GILLEN
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

2



SECTION A-A



STORM SEWER STRUCTURES

STATION/OFFSET LOCATION AND RIM ELEV

REPLACES STANDARD DETAIL 08D01-23B - DETAIL OF CURB AND GUTTER AT INLETS

Addendum No. 03
ID 1130-64-71/72
Revised Sheet 92
December 5, 2024

NOTES

DETAILS FOR CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS

EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE COVER.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING ARE INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

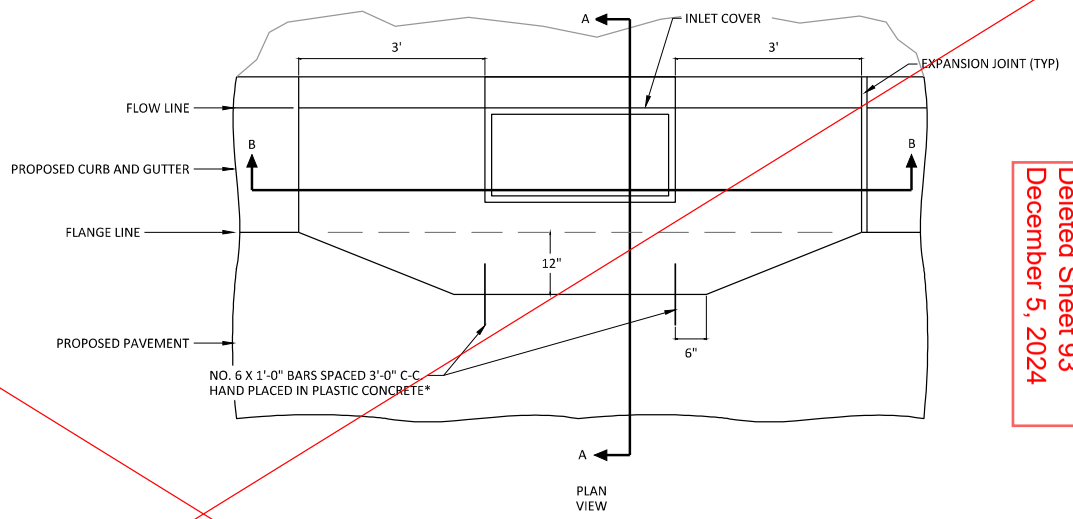
PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

* TIE BARS ARE INTENDED TO BE PLACED IN PLASTIC CONCRETE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DRILLING TIE BARS IF THE CONTRACTOR ELECTS TO DRILL BARS AFTER CONCRETE HAS HARDENED.

MONOLITHIC CONCRETE

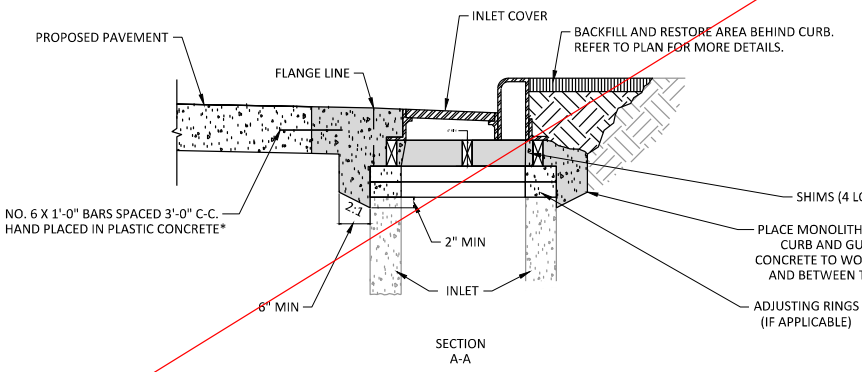
CONCRETE



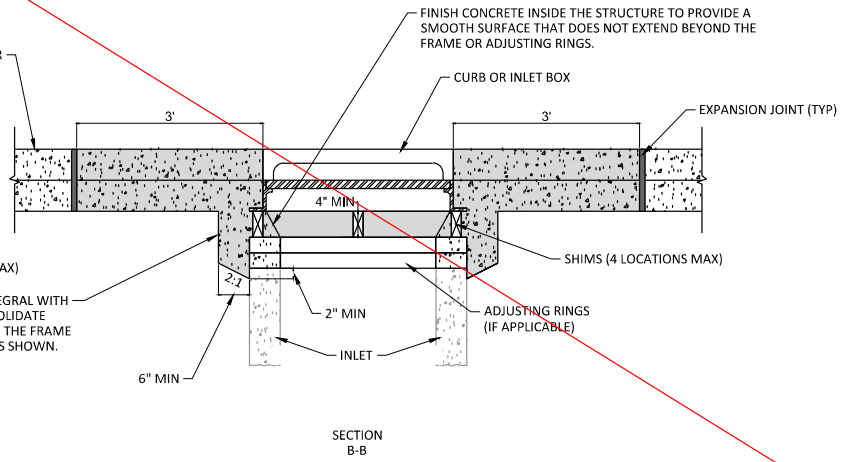
PLAN VIEW

Addendum No. 03
ID 1130-64-71/72
Deleted Sheet 93
December 5, 2024

3



SECTION A-A

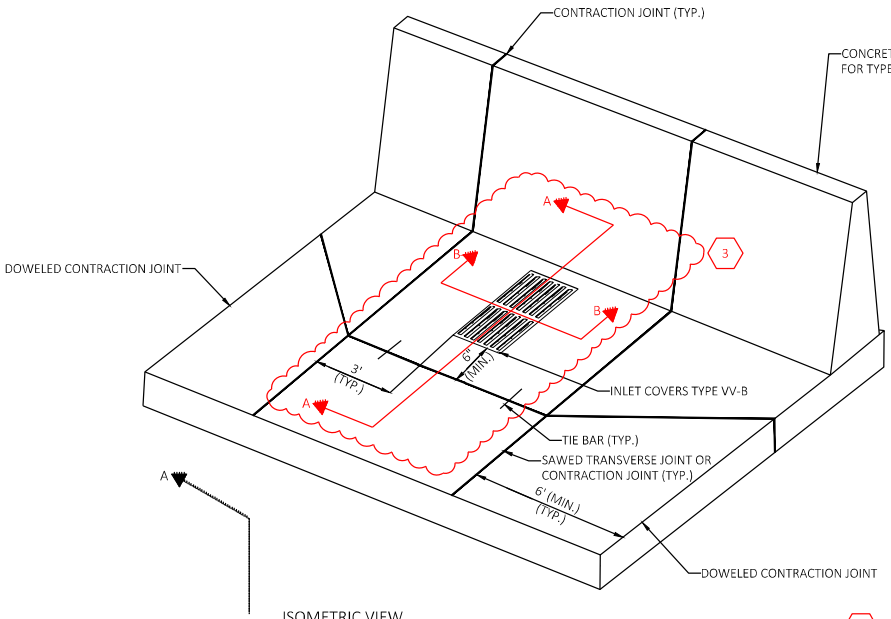


SECTION B-B

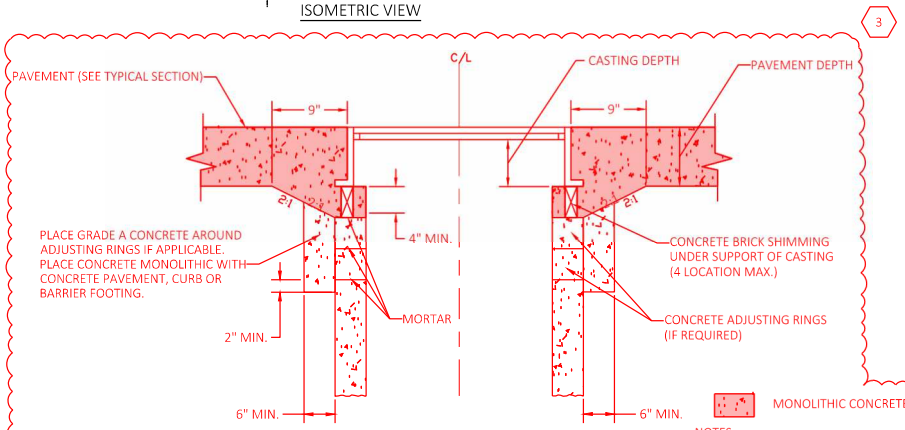
CATCH BASINS & INLETS - MONOLITHIC SHIM

PROJECT NO: 1130-64-71/72	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - DRAINAGE	SHEET 93	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021002-CD-SS.DWG
LAYOUT NAME - CD_SS_01
PLOT DATE : 12/3/2024 3:19 PM
PLOT BY : AARON SCHMITT
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



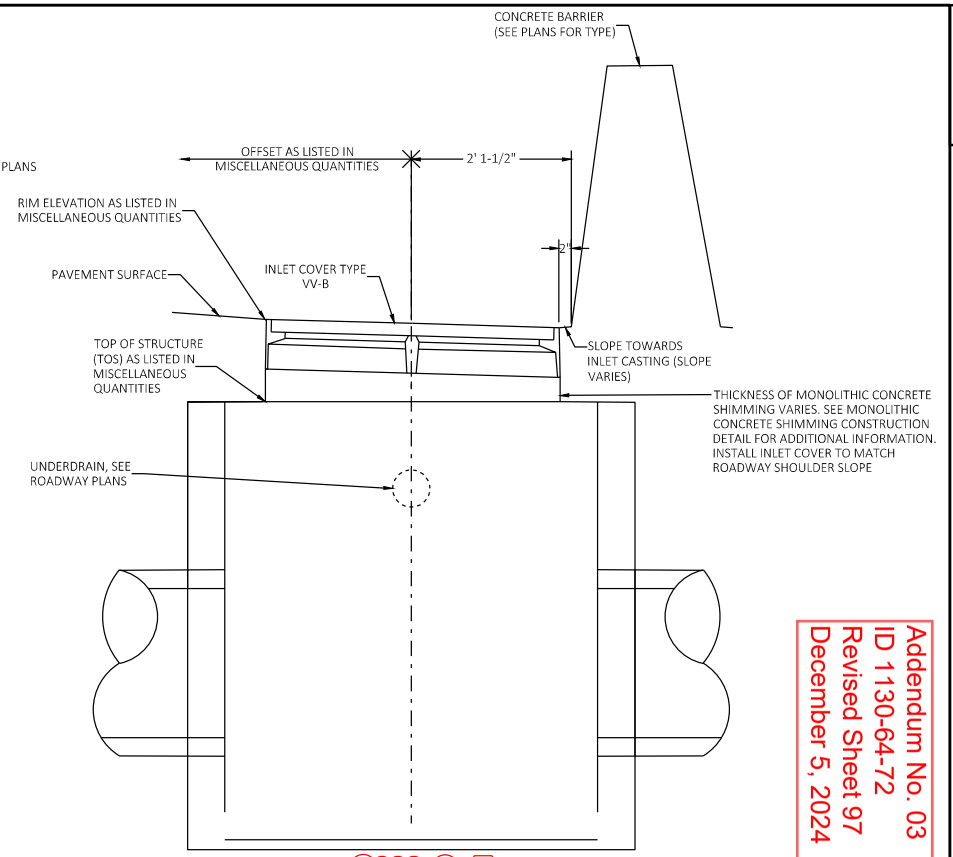
ISOMETRIC VIEW



SECTION B-B: MONOLITHIC CONCRETE SHIMMING DETAIL

NOTES

(1) PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE BARRIER.



SECTION A-A 3

(MANHOLE 5-FT DIAMETER WITH INLET COVER TYPE VV-B SHOWN)

SEE SDD 'MANHOLES, 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER' FOR ADDITIONAL INFORMATION.

DOUBLE GRATE INLET SECTION

NOTES

SEE SDD "CONCRETE BARRIER SINGLE SLOPE (CBSS)" DRAINAGE DETAIL AND EXPANSION JOINT DETAIL FOR ADDITIONAL INFORMATION.

SEE SDD "INLET COVERS TYPE V, V-B, AND VV-B" FOR INLET COVER DETAILS

SEE SDD "CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES" FOR ADDITIONAL INFORMATION ON PLACEMENT OF TIE BARS.

SEE SDD "RURAL DOWELED CONCRETE PAVEMENT" FOR ADDITIONAL INFORMATION.

LOCATE TRANSVERSE JOINT A MINIMUM OF 6' FROM THE NEAREST CONTRACTION JOINT. DO NOT EXCEED THE MAXIMUM SPACING OF CONTRACTION JOINTS IDENTIFIED IN SDD "RURAL DOWELED CONCRETE PAVEMENT"

MONOLITHIC CONCRETE SHIMMING IS ONLY REQUIRED FOR VV-B INLETS ON IH-41. 3

Addendum No. 03
ID 1130-64-72
Revised Sheet 97
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - DRAINAGE	SHEET 97	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021002-CD-SS.DWG
LAYOUT NAME - CD_SS_05
PLOT DATE : 12/4/2024 10:30 AM PLOT BY : AARON SCHMITT PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

3

REMOVING CASTING BOLTS LOCATIONS - PROJECT 1130-64-71

SEE SPECIAL PROVISIONS "INLET COVERS TPE VV-B"

STAGE	ROADWAY	STRUCTURE ID
1130-64-71 STAGE 5		
	R/L SB	125.1-S2
	R/L SB	125.2-S2
	R/L WND	130.2-S2
	R/L SB	135.1-S2
	R/L SB	135.2-S2
	R/L WND	140.2-S2
	R/L SB	145.1-S2
	R/L SB	145.2-S2
	R/L WND	150.1-S2
	R/L SB	150.2-S2
	R/L SB	150.4-S2
	R/L WND	160.1-S2
	R/L SB	160.2-S2
	R/L WND	170.1-S2
	R/L SB	170-S2
	R/L SB	220.1-S2
	R/L SB	220.2-S2
	R/L SB	230.1-S2
	R/L SB	230.2-S2
	R/L SB	240.1-S2
	R/L SB	240.2-S2
	R/L SB	250.1-S2
	R/L SB	250.2-S2
	R/L SB	260.1-S2
	R/L SB	260.2-S2
	R/L NB	125.3-S4
	R/L NB	135.4-S4
	R/L NB	145.3-S4
	R/L NB	150.5-S4
	R/L NB	160.3-S4
	R/L NB	170.3-S4
	R/L NB	220.3-S4
	R/L NB	230.4-S4
	R/L NB	240.3-S4
	R/L NB	250.3-S4
	R/L NB	260.3-S4
	R/L NB	415.1-S4
	R/L NB	425.1-S4
	R/L NB	435.1-S4

Addendum No. 03
ID 1130-64-71
Revised Sheet 100
December 5, 2024

3 **REMOVING CASTING BOLTS LOCATIONS - PROJECT 1130-64-72**
SEE SPECIAL PROVISIONS "INLET COVERS TYPE VV-B"

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4		
	NLC	6145-S2
	NLC	6146-S2
	NLC	6149-S2
	NLC	6406-S4
	NLC	6407-S3
	R/L SB	6408-S2
	R/L SB	6409-S2
	R/L SB	6411-S2
	R/L SB	6412A-S2
	R/L SB	6412-S2
	R/L SB	6413-S3
	R/L SB	6414-S4
	R/L SB	6421-S2
	R/L SB	6422-S2
	R/L SB	6426-S3
	R/L SB	6427-S3
	R/L SB	6431A-S3
	R/L SB	6432A-S3
	R/L SB	6432-S3
	R/L SB	6433-S3
	R/L SB	6434A-S2
	R/L SB	6434-S3
	R/L SB	6435A-S3
	R/L SB	6435-S3
	R/L SB	6436-S3
	R/L SB	6437-S3
	R/L SB	6438-S2
	R/L SB	6442-S3
	R/L SB	6443-S3
	R/L SB	6444-S3
	R/L SB	6445-S3
	R/L SB	6446-S3
	R/L SB	6481-S3
	R/L SB	6482-S3
	R/L SB	6484-S3
	R/L SB	6485-S3
	R/L SB	6486-S3
	R/L SB	6487-S3
	R/L SB	6491A-S4
	R/L SB	6491-S3

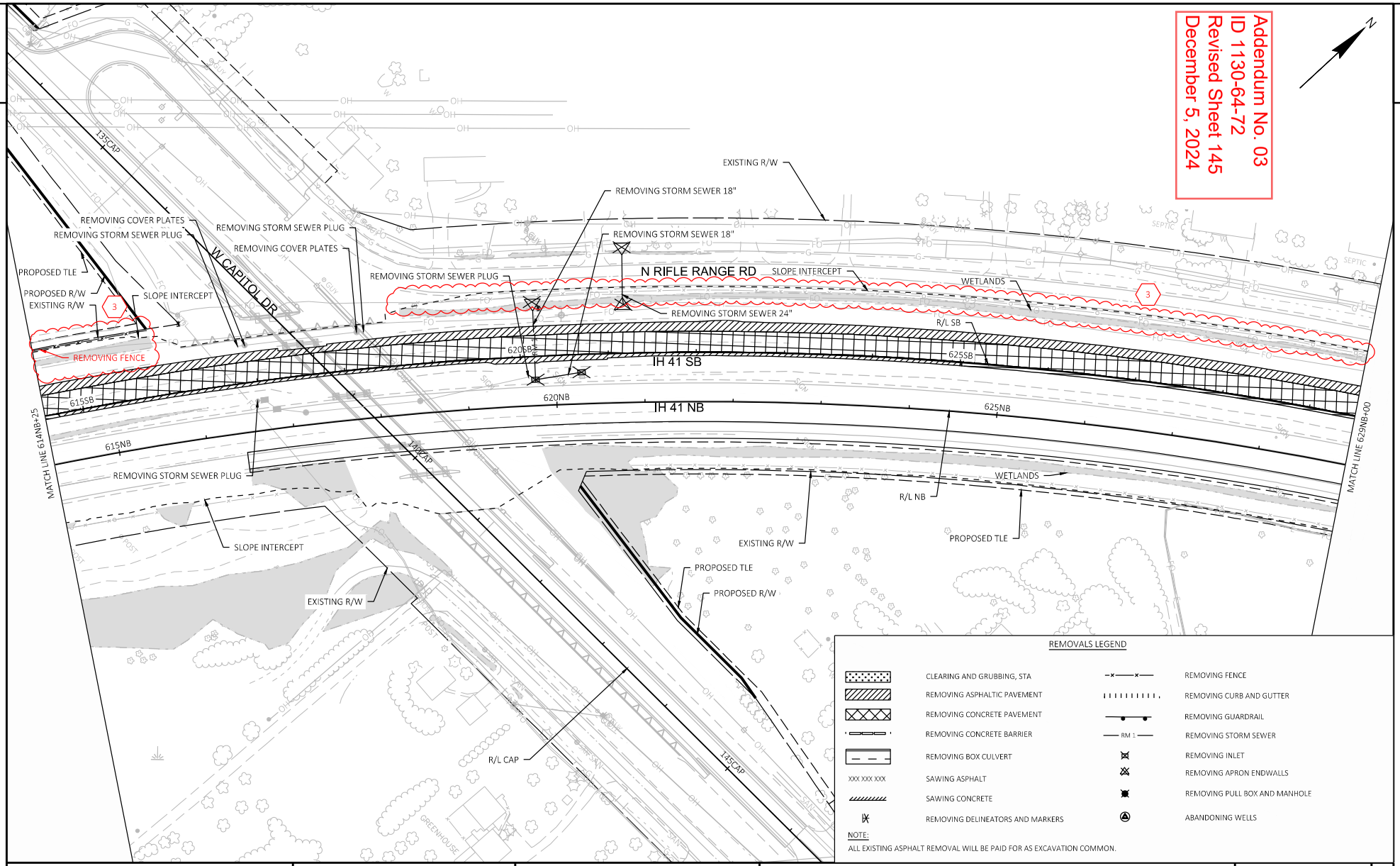
STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6492-S2
	R/L SB	6493A-S4
	R/L SB	6493-S2
	NLA	6494A-S4
	NLA	6494B-S4
	NLA	6494D-S4
	R/L SB	6494-S3
	R/L SB	6495-S2
	R/L SB	6496-S2
	R/L SB	6497-S2
	R/L SB	6501-S2
	R/L SB	6502-S2
	R/L SB	6503A-S4
	R/L SB	6503-S3
	R/L SB	6505-S2
	R/L SB	6507-S2
	R/L SB	6508A-S4
	R/L SB	6508-S3
	R/L SB	6511-S4
	R/L SB	6512-S4
	R/L SB	6513-S4
	R/L SB	6514-S4
	R/L SB	6515-S2
	R/L SB	6517-S2
	R/L SB	6518-S2
	R/L SB	6520-S2
	R/L SB	6521-S3
	R/L SB	6522-S3
	R/L SB	6523-S3
	R/L SB	6524-S2
	R/L SB	6525-S2
	R/L SB	6527-S2
	R/L SB	6534-S2
	R/L SB	6536-S4
	R/L SB	6538-S4
	R/L SB	6539-S3
	R/L SB	6540-S2
	R/L SB	6542-S2
	R/L SB	6543-S3
	R/L SB	6544-S2

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6545-S2
	R/L SB	6550-S2
	R/L SB	6552-S4
	R/L SB	6553-S3
	R/L SB	6555-S2
	R/L SB	6556-S2
	R/L SB	6560-S2
	R/L SB	6561-S2
	R/L SB	6562-S4
	R/L SB	6563-S3
	R/L SB	6565-S2
	R/L SB	6566-S4
	R/L SB	6567-S3
	R/L SB	6568-S2
	R/L SB	6570-S2
	R/L SB	6571-S2
	R/L SB	6572-S4
	R/L SB	6573-S3
	R/L SB	6575-S2
	R/L SB	6576-S2
	R/L SB	6577-S4
	R/L SB	6578-S3
	R/L SB	6579-S2
	R/L SB	6580-S2
	R/L SB	6581-S2
	R/L SB	6582-S4
	R/L SB	6583-S3
	R/L SB	6585-S2
	R/L SB	6590-S2
	R/L SB	6591-S2
	R/L SB	6592-S4
	R/L SB	6593-S3
	R/L SB	6594-S2
	R/L SB	6595-S2
	R/L SB	6596-S2
	R/L SB	6597-S4
	R/L SB	6598-S3
	R/L SB	6599-S2
	R/L SB	6600-S2
	R/L SB	6601-S2

STAGE	ROADWAY	STRUCTURE ID	
1130-64-72 STAGE 4 CONT.			
	R/L SB	6602-S4	
	R/L SB	6603-S3	
	R/L SB	6605-S2	
	R/L SB	6610-S2	
	R/L SB	6611-S2	
	R/L SB	6612-S4	
	R/L SB	6613-S3	
	R/L SB	6614-S2	
	R/L SB	6615-S2	
	R/L SB	6616-S2	
	R/L SB	6617-S4	
	R/L SB	6618-S3	
	R/L SB	6619-S4	
	R/L SB	6620-S2	
	R/L SB	6625-S2	
	R/L SB	6626-S2	
	R/L SB	6627-S4	
	R/L SB	6628-S3	
	R/L SB	6629-S2	
	R/L SB	6631-S2	
	R/L SB	6632-S4	
	~~R/L SB~~	~~6633-S3~~	2
	R/L SB	6639-S2	
	R/L SB	6641-S4	
	~~R/L SB~~	~~6642-S3~~	2
	~~R/L SB~~	~~6643-S3~~	
	R/L SB	6646-S2	
	R/L SB	6651-S2	
	R/L SB	6652-S2	
	R/L SB	6654-S2	
	R/L SB	6655B-S2	
	R/L SB	6655-S2	
	~~R/L SB~~	~~6666-S3~~	2
	~~R/L SB~~	~~6667-S3~~	
	~~R/L SB~~	~~6668-S3~~	
	R/L SB	6675-S1	
	R/L SB	6677-S4	
	R/L SB	6678-S4	
	R/L SB	6679-S1	
	R/L SB	6692-S2	

STAGE	ROADWAY	STRUCTURE ID
1130-64-72 STAGE 4 CONT.		
	R/L SB	6693-S4
	R/L SB	6694-S2
	R/L SB	6697-S4
	R/L SB	EX 6451
	R/L SB	EX 6452
	R/L SB	EX 6453
	R/L SB	EX 6454
	R/L SB	EX 6455
	R/L SB	EX 6458
	R/L SB	EX 6459
	R/L SB	EX 6460
	R/L SB	EX 6461
	R/L SB	EX 6463
	R/L SB	EX 6464
	R/L SB	EX 6465
	R/L SB	EX 6466
	R/L SB	EX 6467
	R/L SB	EX 6470
	R/L SB	EX 6471
	R/L SB	EX 6472
	R/L SB	EX 6476
	R/L SB	EX 6477
	R/L SB	EX 6526

Addendum No. 03
ID 1130-64-71/72
Revised Sheet 101
December 5, 2024



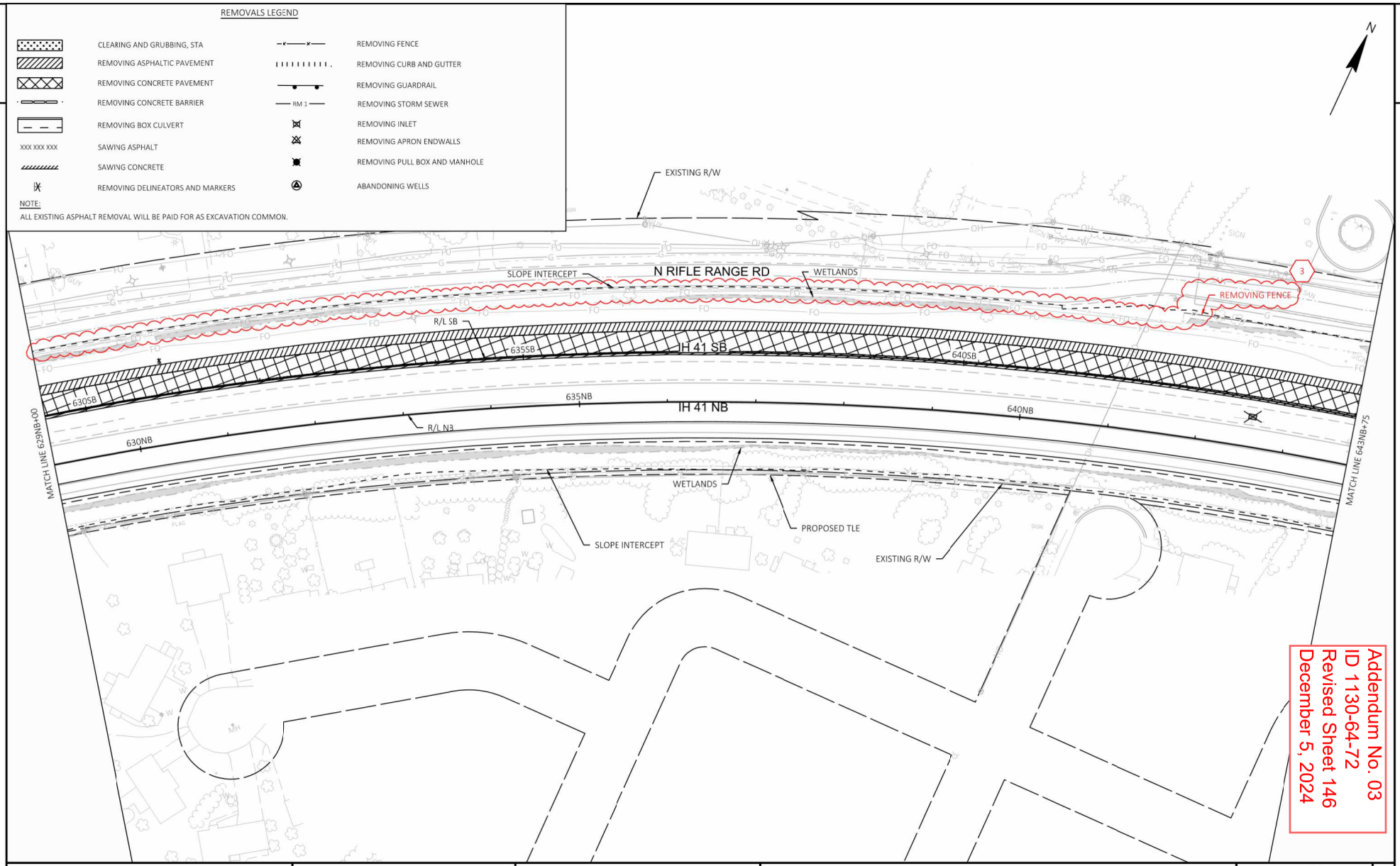
PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	REMOVAL PLAN - STAGE 2 - MAINLINE	SHEET 145	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021102-RM-STG2.DWG
LAYOUT NAME - 4
PLOT DATE : 12/3/2024 11:39 AM
PLOT BY : AARON SCHMITT
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

REMOVALS LEGEND

	CLEARING AND GRUBBING, STA		REMOVING FENCE
	REMOVING ASPHALTIC PAVEMENT		REMOVING CURB AND GUTTER
	REMOVING CONCRETE PAVEMENT		REMOVING GUARDRAIL
	REMOVING CONCRETE BARRIER	RM 1	REMOVING STORM SEWER
	REMOVING BOX CULVERT		REMOVING INLET
XXX XXX XXX	SAWING ASPHALT		REMOVING APRON ENDWALLS
	SAWING CONCRETE		REMOVING PULL BOX AND MANHOLE
	REMOVING DELINEATORS AND MARKERS		ABANDONING WELLS

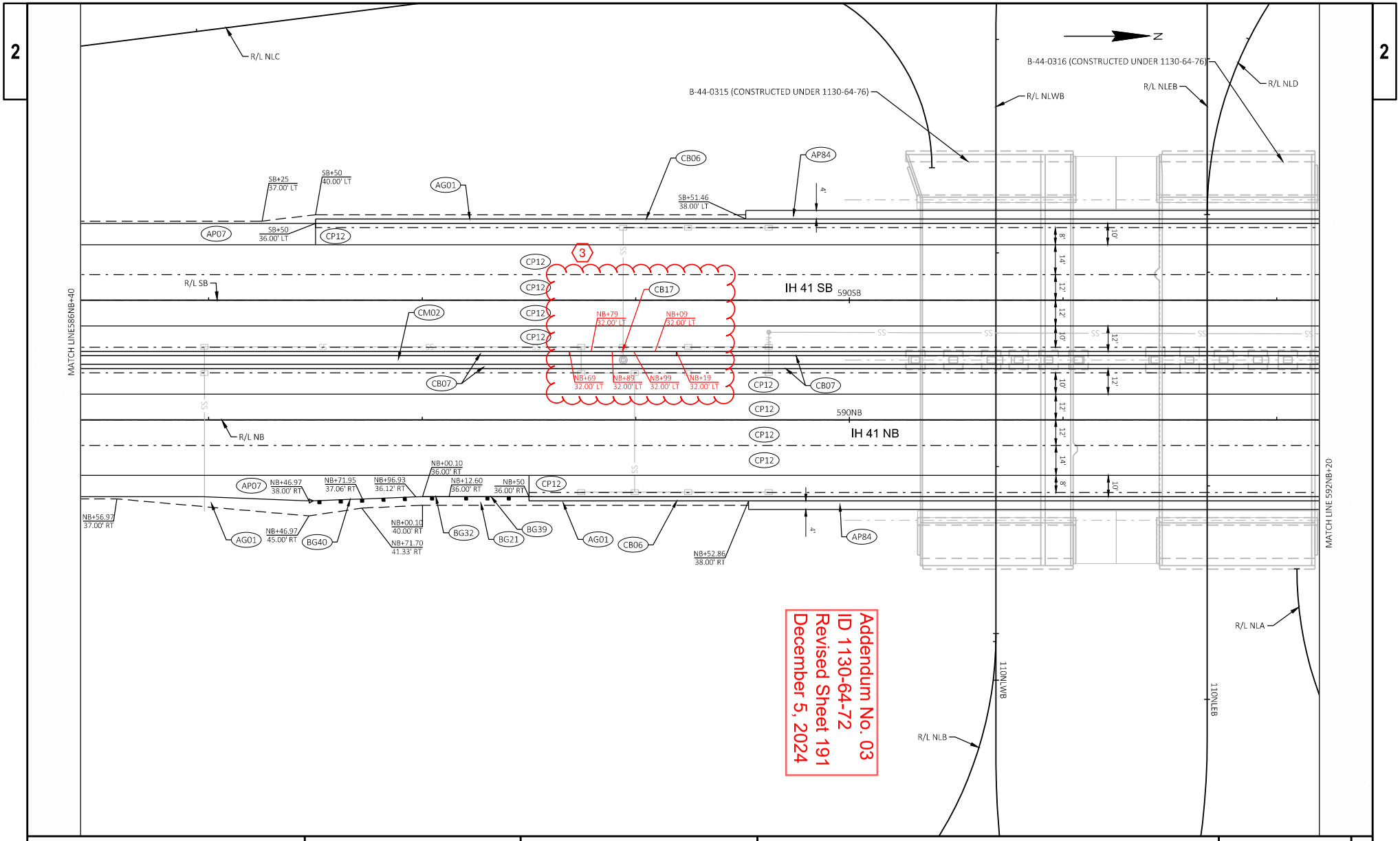
NOTE:
ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS EXCAVATION COMMON.



Addendum No. 03
ID 1130-64-72
Revised Sheet 146
December 5, 2024

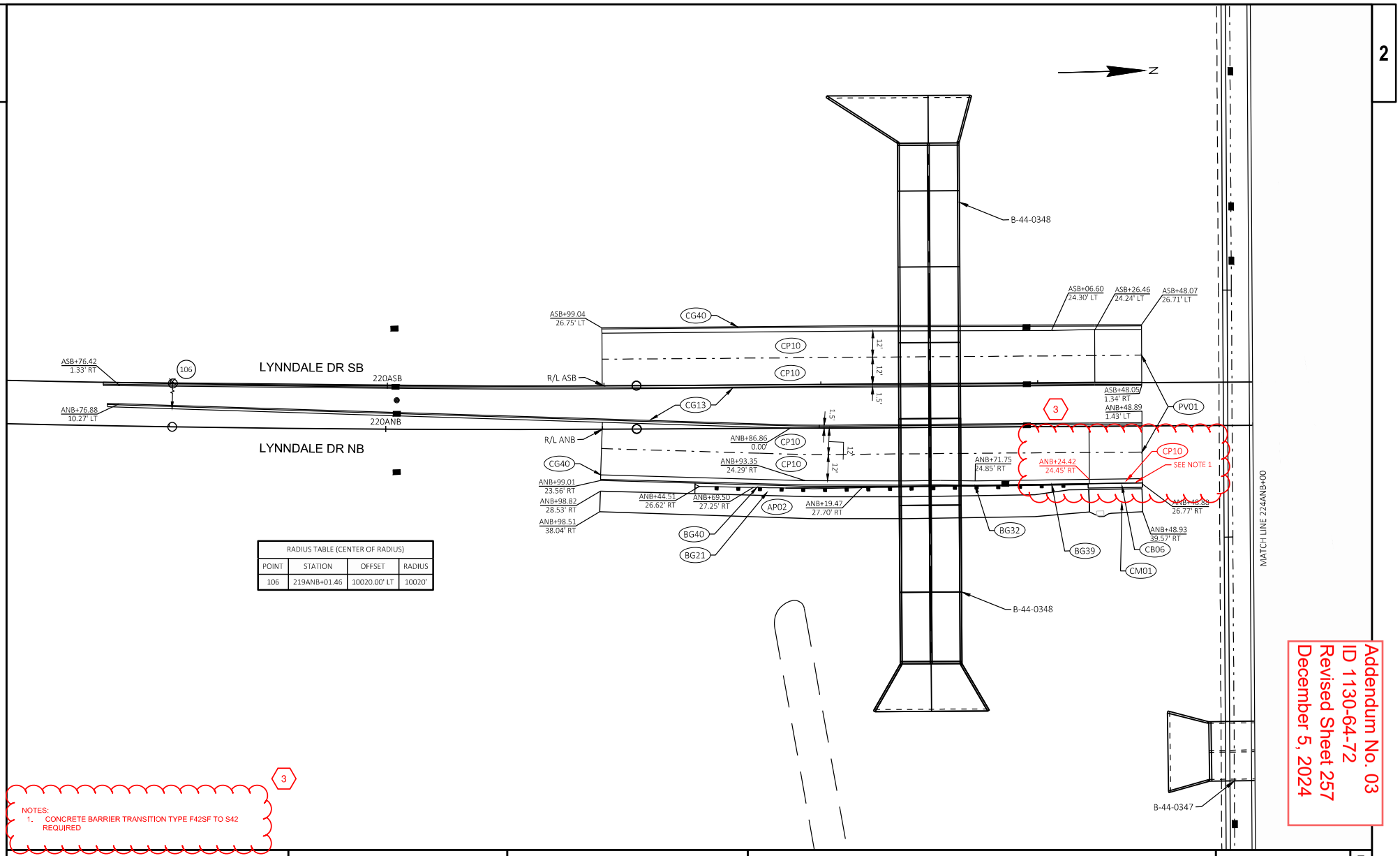
PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	REMOVAL PLAN - STAGE 2 - MAINLINE	SHEET 146	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021102-RM-STG2.DWG
LAYOUT NAME - 5
PLOT DATE : 12/3/2024 11:41 AM PLOT BY : AARON SCHMITT PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	PLAN DETAILS - IH 41 MAINLINE	SHEET 191	E

FILE NAME : C:\USERS\DCARY\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021202-PD.DWG
LAYOUT NAME - 4
PLOT DATE : 11/27/2024 4:49 PM
PLOT BY : DAN CARY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
106	219ANB+01.46	10020.00' LT	10020'

3

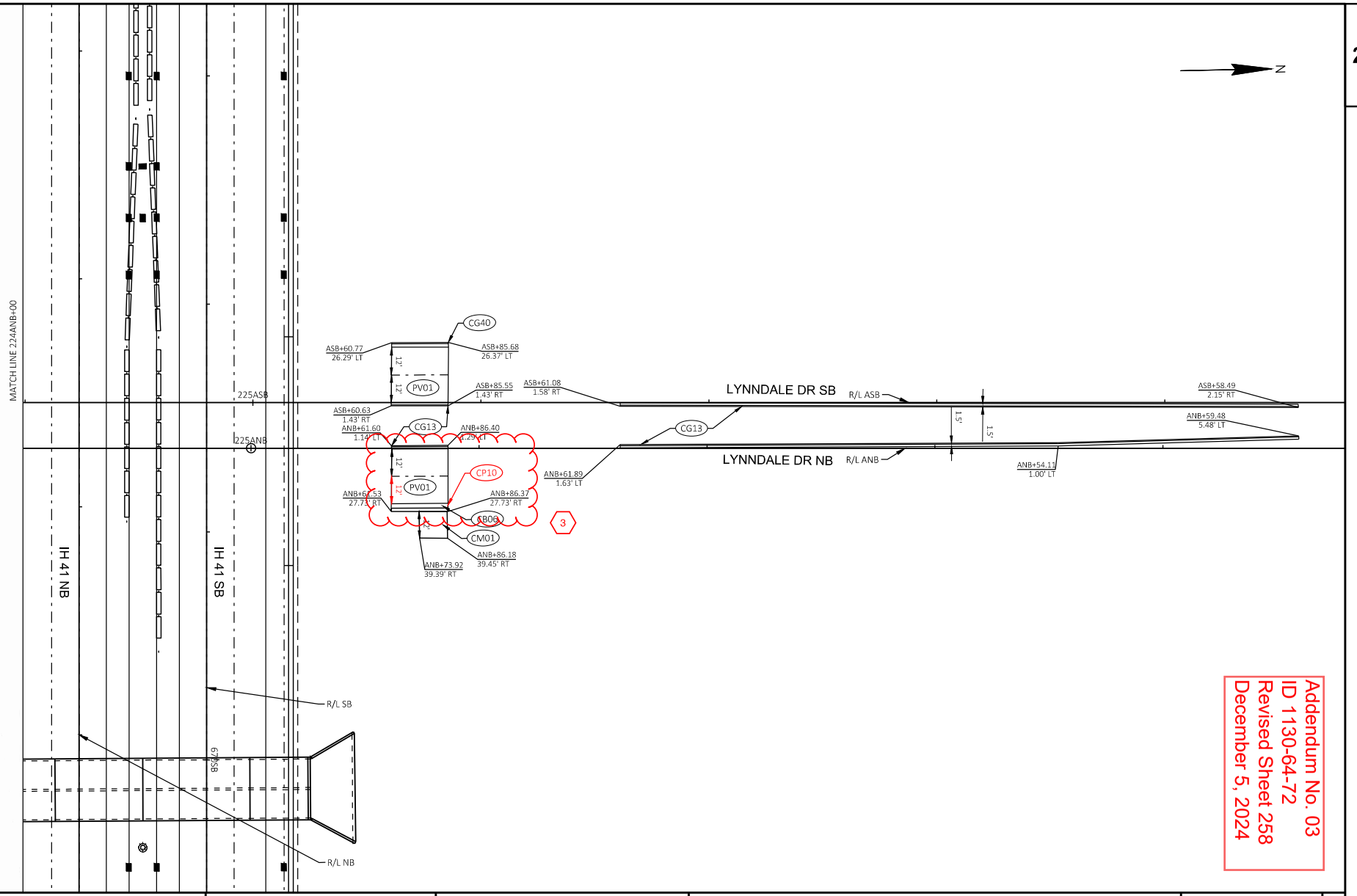
NOTES:
1. CONCRETE BARRIER TRANSITION TYPE F42SF TO S42 REQUIRED

Addendum No. 03
ID 1130-64-72
Revised Sheet 257
December 5, 2024

PROJECT NO: 1130-64-72	HWY: LYNNDALE DR	COUNTY: OUTAGAMIE	PLAN DETAILS - LYNNDALE DR	SHEET 257	E

FILE NAME : C:\USERS\AROSEMEYER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\1130647 2\SHEETS\021202-PD-LYNNDALE.DWG
LAYOUT NAME - 1
PLOT DATE : 11/26/2024 2:56 PM
PLOT BY : ANDREW ROSEMEYER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

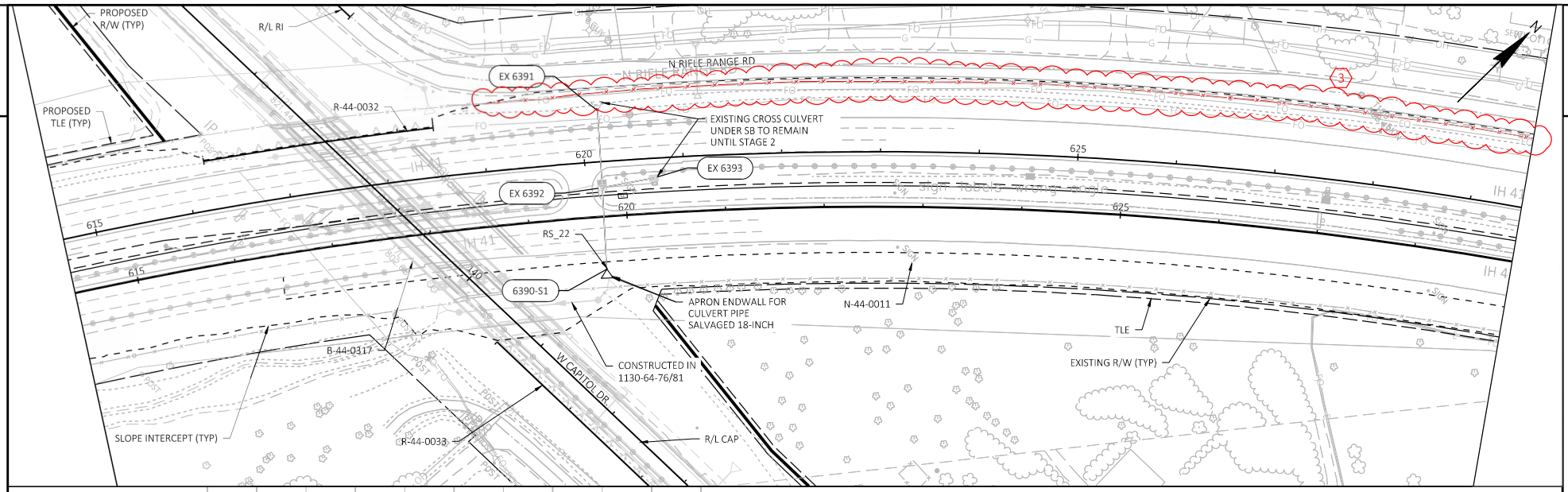
WISDOT/CADDS SHEET 42

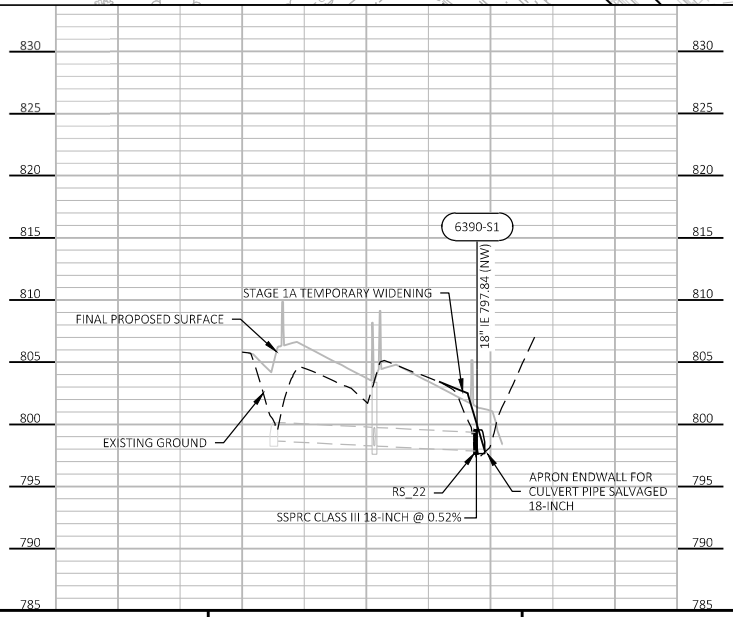


Addendum No. 03
ID 1130-64-72
Revised Sheet 258
December 5, 2024

PROJECT NO: 1130-64-72	HWY: LYNNDALE DR	COUNTY: OUTAGAMIE	PLAN DETAILS - LYNNDALE DR	SHEET 258	E

FILE NAME : C:\USERS\AROSEMEYER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\021202-PD-LYNNDALE.DWG
LAYOUT NAME - 2
PLOT DATE : 11/26/2024 2:59 PM
PLOT BY : ANDREW ROSEMEYER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

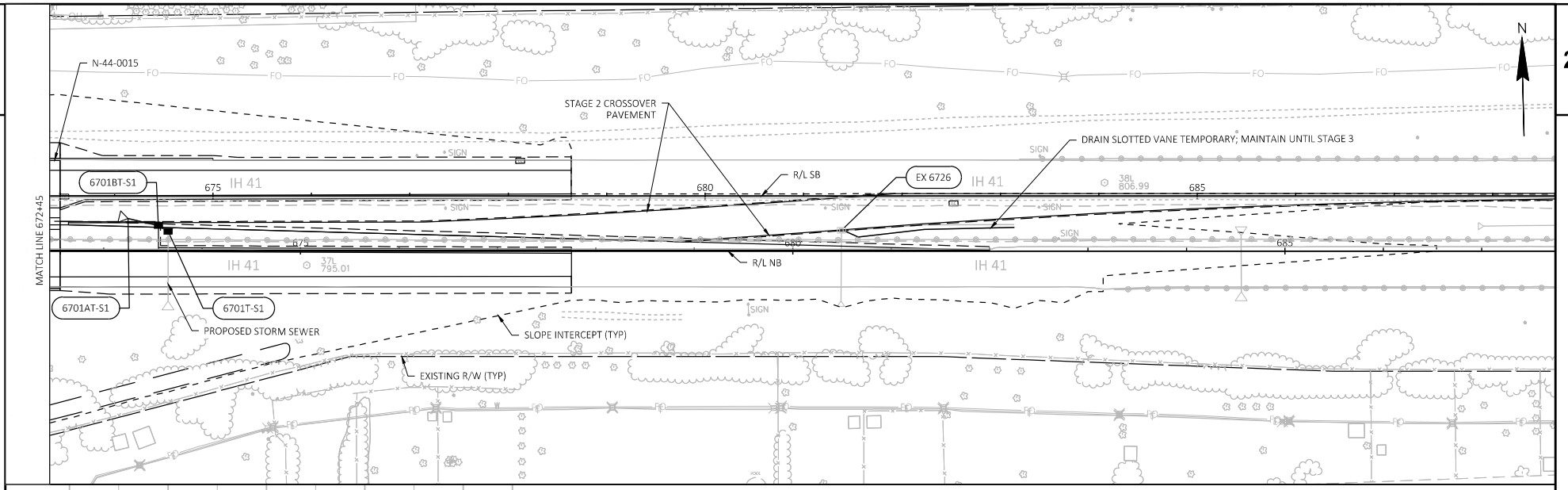


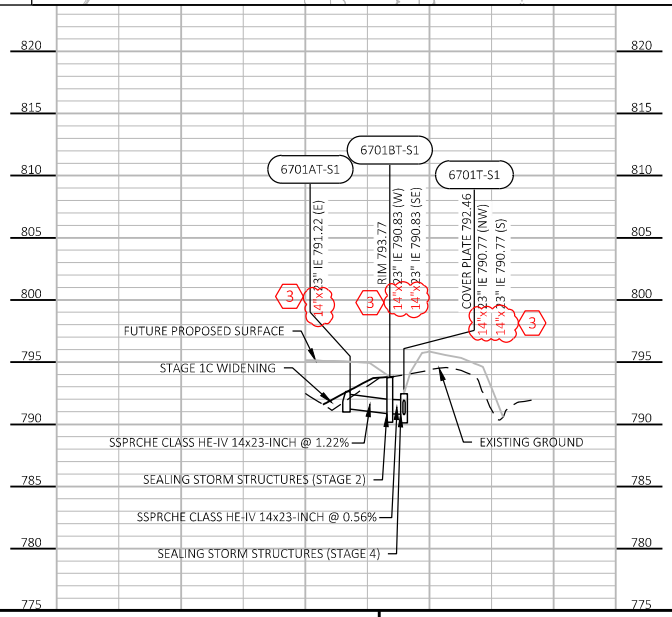


Addendum No. 03
ID 1130-64-72
Revised Sheet 443
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	STORM SEWER PLAN AND PROFILE IH 41 - MAINLINE TEMPORARY DRAINAGE STAGE 1	SHEET 443	E

FILE NAME : C:\USERS\EREGIER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\022502_TEMP_SS.DWG
LAYOUT NAME - 004 (1)
PLOT DATE : 12/3/2024 6:24 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

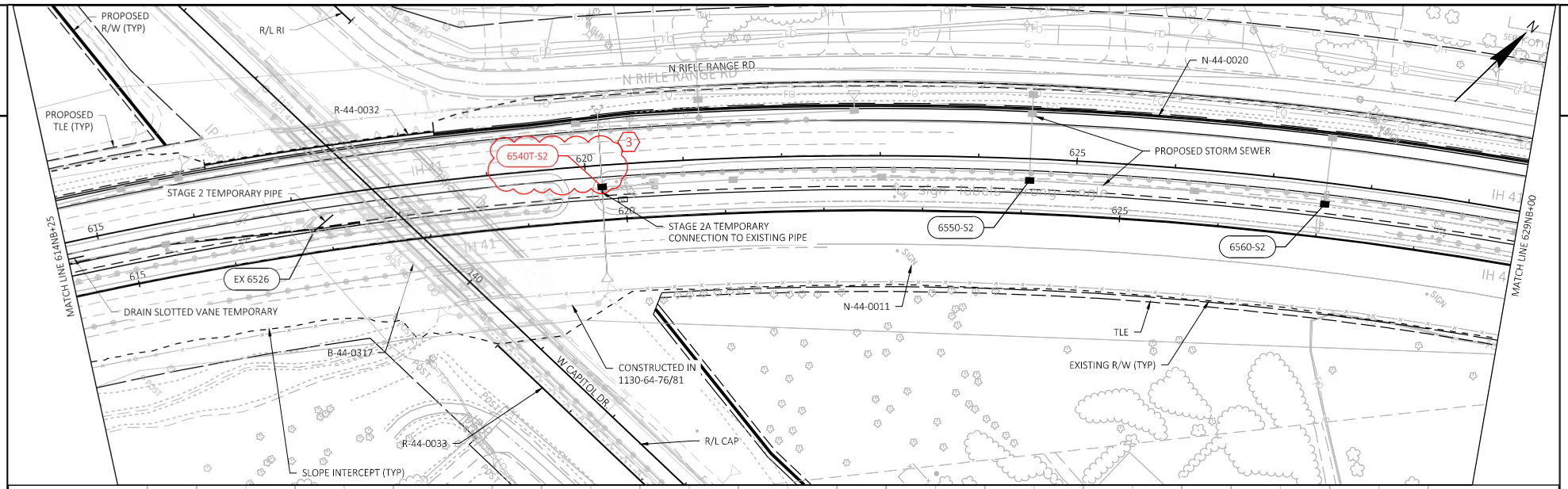


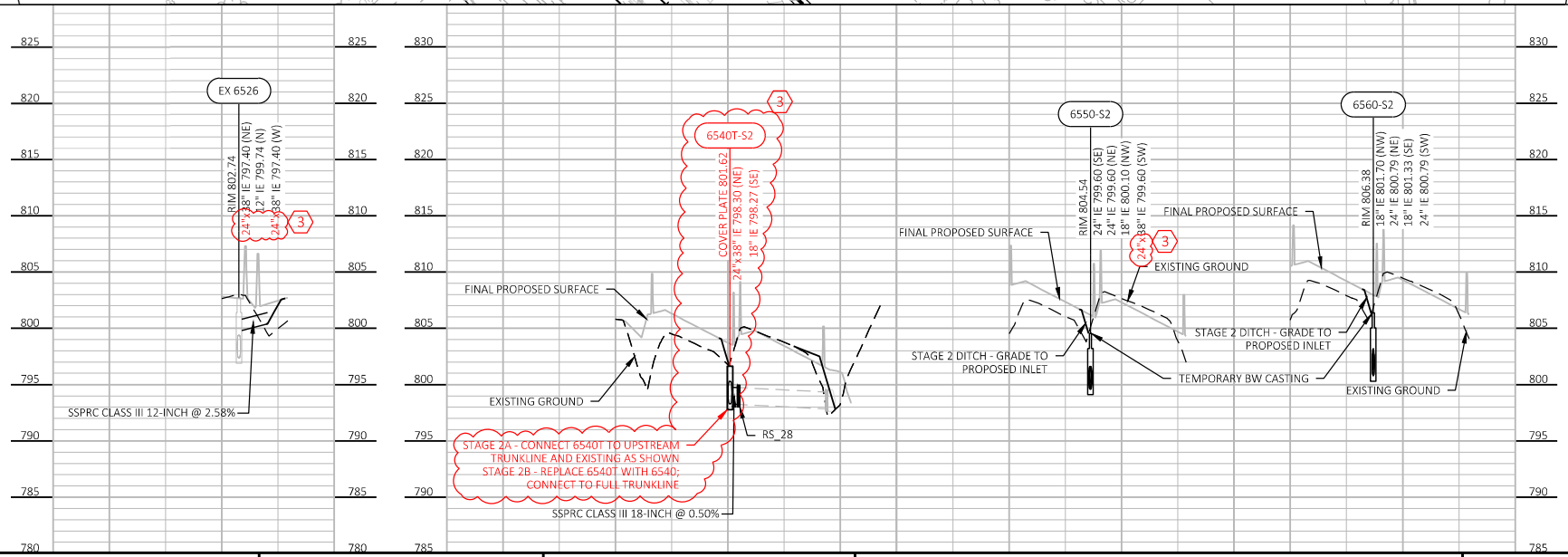


Addendum No. 03
ID 1130-64-72
Revised Sheet 445
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	STORM SEWER PLAN AND PROFILE IH 41 - MAINLINE TEMPORARY DRAINAGE STAGE 1	SHEET 445	E

FILE NAME : C:\USERS\EREGIER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\022502_TEMP_SS.DWG
LAYOUT NAME - 008 (1)
PLOT DATE : 12/3/2024 5:39 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41





Addendum No. 03
ID 1130-64-72
Revised Sheet 451
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	STORM SEWER PLAN AND PROFILE IH 41 - MAINLINE TEMPORARY DRAINAGE STAGE 2	SHEET 451	E

FILE NAME : C:\USERS\EREGIER\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\022502_TEMP_SS.DWG
LAYOUT NAME - 004 (2)
PLOT DATE : 12/3/2024 6:16 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

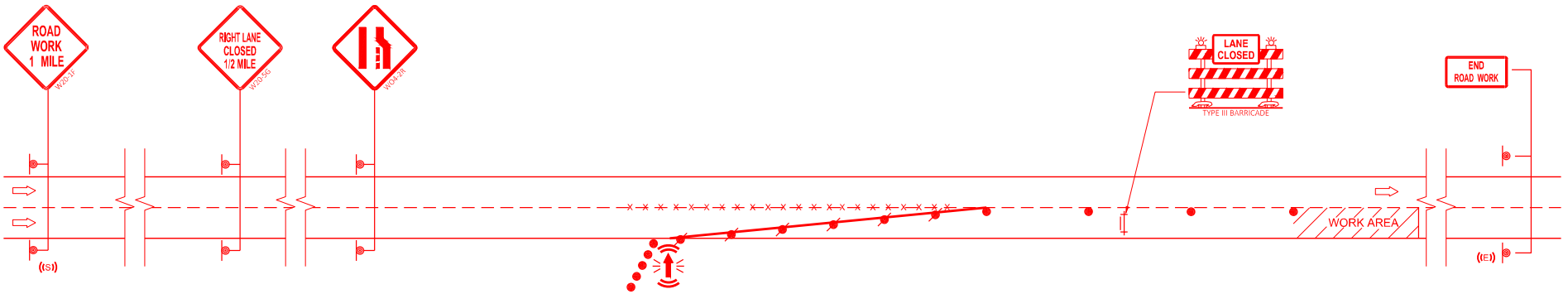
NOTES:

THIS CONSTRUCTION DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS FOR LANE CLOSURES WITH WORK ZONE LOCATION MARKERS AS SHOWN IN THIS DETAIL.

SEE STANDARD DETAIL DRAWINGS TITLED "TRAFFIC CONTROL, LANE CLOSURE", "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION", "TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM", "TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY" FOR ADDITIONAL INFORMATION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER



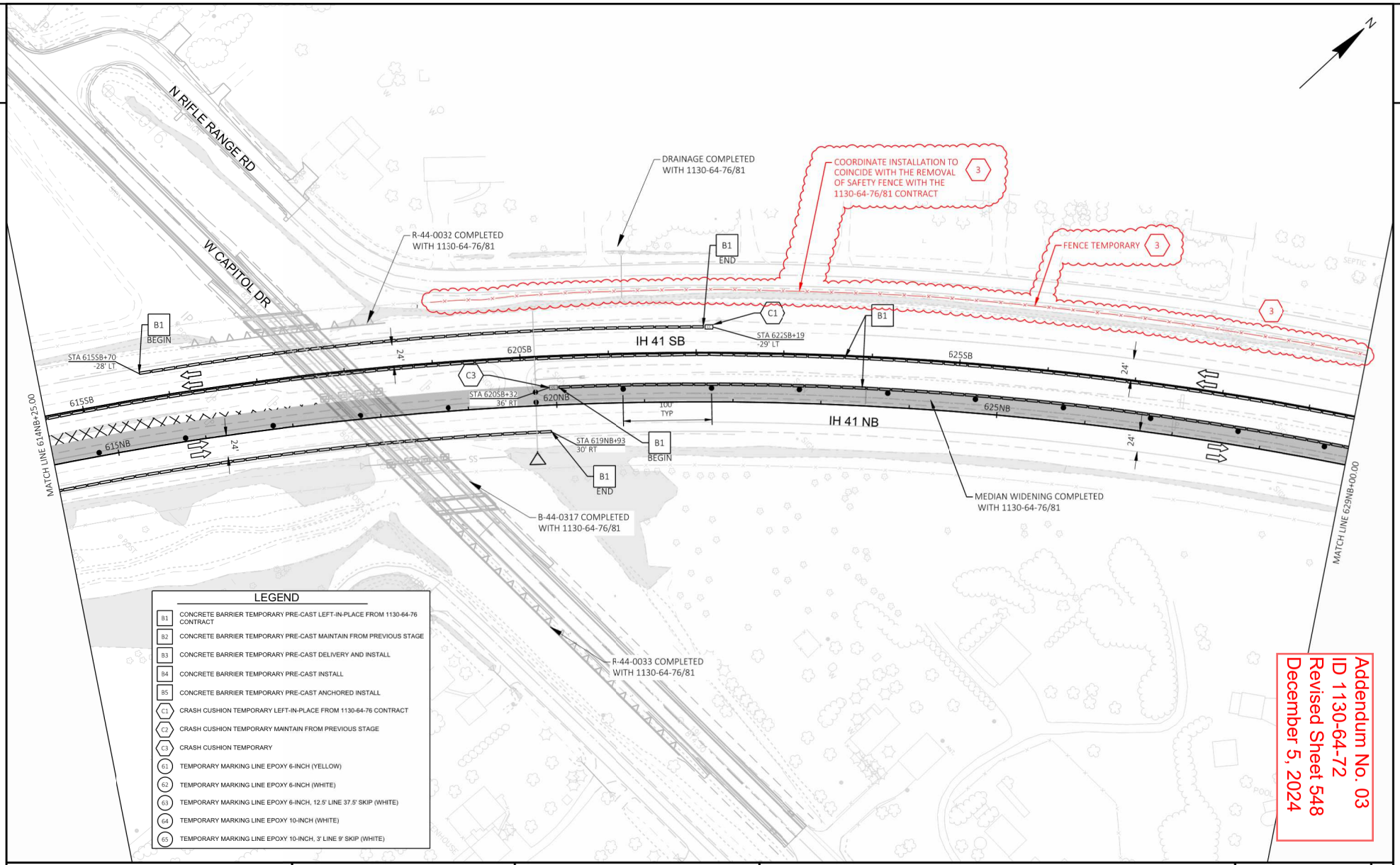
TRAFFIC CONTROL LANE CLOSURE

Addendum No. 03
ID 1130-64-72
Added Sheet 538A
December 5, 2024

3

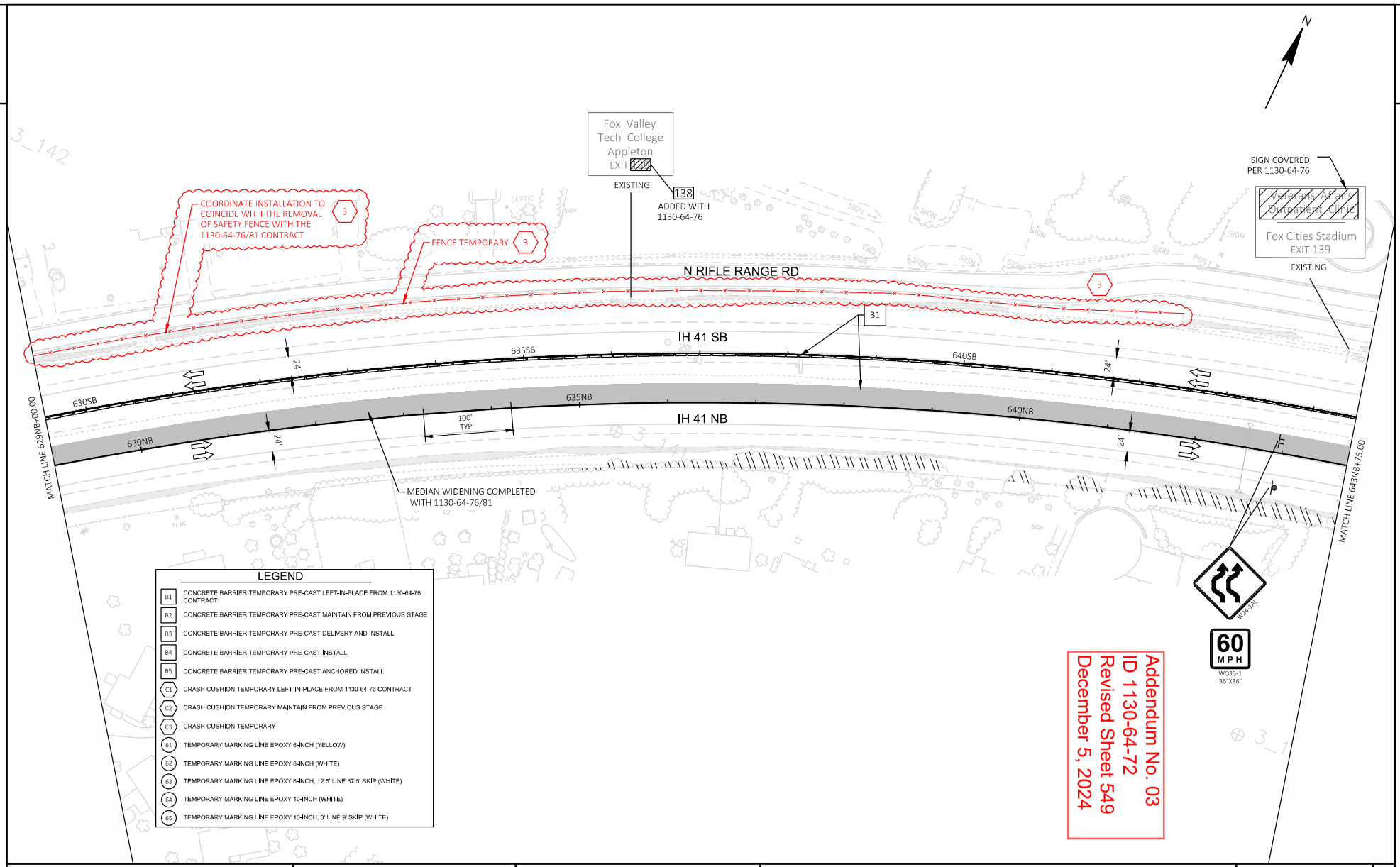
PROJECT NO: 1130-64-71/72/87	HWY: IH 41	COUNTY: OUTAGAMIE	TRAFFIC CONTROL DETAILS	SHEET 538A	E

FILE NAME : C:\USERS\NGRADY\ONEDRIVE - HNTB\DESKTOP\TEMP\WORKING\2024 11 25 ADD NO.3\RDWY30-WZ-MARKER-LOCATION.DWG
LAYOUT NAME - a
PLOT DATE : 11/25/2024 3:27 PM PLOT BY : NED GRADY PLOT NAME : PLOT SCALE : ##########



PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1A	SHEET 548	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\025102-TC-1A.DWG
LAYOUT NAME - 6
PLOT DATE : 12/2/2024 3:19 PM PLOT BY : AARON SCHMITT PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1A	SHEET 549	E

FILE NAME : C:\USERS\ASCHMITT\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306472\SHEETS\025102-TC-1A.DWG
LAYOUT NAME - 7
PLOT DATE : 12/2/2024 3:22 PM PLOT BY : AARON SCHMITT PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

3

3

3 CONNECTED WORK ZONE DEVICES

CATEGORY	STAGE	ROADWAY	STAGE DURATION DAYS	SPV.0045.0300 CONNECTED WORK ZONE START AND END LOCATION EACH	SPV.0045.0300 CONNECTED WORK ZONE START AND END LOCATION DAYS	SPV.0045.0305 CONNECTED ARROW BOARDS EACH	SPV.0045.0305 CONNECTED ARROW BOARDS DAY
1000	-	NB ADVANCE SIGNING	670	1	670	1	670
		PROJECT 1130-64-71 TOTALS			**670**		**670**

Addendum No. 03
ID 1130-64-71
Added Sheet 808A
December 5, 2024

RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	TO	PROPOSED RIM ELEVATION	ELEVATION INCREASE	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH
1000	1130-64-71 STAGE 3											
	R/L WND	140-S2	1543+75.00	40.00' RT	799.45		800.78		--	--	1	--
							STAGE 3 SUBTOTALS		--	--	1	--
1000	1130-64-71 STAGE 4											
	R/L SB	125.2-S2*	538+31.14	21.15' RT	801.02		801.02	--	--	--	--	1
	R/L NB	125.3-S3	538+31.14	21.14' LT	800.96		802.63	1.67	--	1	--	--
	R/L SB	135.2-S2	541+05.00	21.83' RT	802.33		805.92	3.59	1	--	--	--
	R/L SB	145.2-S2	544+00.00	21.83' RT	804.63		807.46	2.83	1	--	--	--
	R/L SB	150.4-S2*	547+30.90	21.83' RT	807.68		810.03	2.35	1	--	--	--
	R/L NB	150.5-S3	547+30.90	21.83' LT	807.71		810.16	2.45	1	--	--	--
	R/L SB	160.2-S2	549+99.99	21.83' RT	808.54		812.12	3.58	1	--	--	--
	R/L SB	170-S2	553+15.00	21.83' RT	811.23		814.57	3.34	--	1	--	--
	R/L SB	220.2-S2	559+00.00	21.83' RT	813.21		816.79	3.58	1	--	--	--
	R/L SB	230.2-S2	561+25.00	21.83' RT	812.23		815.57	3.34	--	1	--	--
	R/L SB	240.2-S2	563+50.00	21.83' RT	809.76		813.13	3.37	1	--	--	--
	R/L SB	250.2-S2	565+75.00	21.83' RT	805.89		809.47	3.58	1	--	--	--
	R/L SB	260.2-S2	568+00.00	21.83' RT	801.12		804.71	3.59	1	--	--	--
							STAGE 4 SUBTOTALS		9	3	--	1
							PROJECT 1130-64-71 TOTALS		**9**	**3**	**1**	**1**

3 SIZE INFORMATION FOR ALL STRUCTURES BUILT IN 1130-64-71 IS LISTED IN THE STORM SEWER STRUCTURE TABLES
*SEE BW TO VV-B RECONSTRUCTING INLET CONSTRUCTION DETAIL

COVER PLATES

2

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	NOTES
1000	1130-64-71 STAGE 2			
	R/L SB	135.2-S2	2	REMOVE IN STAGE 4
	R/L WND	140-S2	2	REMOVE IN STAGE 3
	R/L SB	145.2-S2	2	REMOVE IN STAGE 4
	R/L SB	160.2-S2	2	REMOVE IN STAGE 4
	R/L SB	170-S2	2	REMOVE IN STAGE 4
	R/L SB	220.2-S2	2	REMOVE IN STAGE 4
	R/L SB	230.2-S2	2	REMOVE IN STAGE 4
	R/L SB	250.2-S2	2	REMOVE IN STAGE 4
	R/L SB	260.2-S2	2	REMOVE IN STAGE 4
		STAGE 2 SUBTOTAL	18	
		PROJECT 1130-64-71 TOTAL	**18**	

Addendum No. 03
ID 1130-64-71
Revised Sheet 829
December 5, 2024

REMOVING FENCE

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LOCATION	204.0170 REMOVING FENCE LF
1000	1	**IH 41 NB**						
			666NB+32	-	667NB+21	87.15	RT	89
		N LYNNDALE DR						
			220ANB+76	-	221ANB+69	66.69	RT	124
			220ANB+98	-	223ANB+34	40.18	RT	236
			221ANB+69	-	223ANB+35	102	RT	259
	STAGE 1 SUBTOTAL							708
	2	**IH 41 SB**						
			569SB+00	-	574SB+33	121.45	LT	533
			602SB+70	-	615SB+86	157	LT	1342
			642SB+40	-	668SB+10	69.89	LT	2570
			669SB+04.13	-	672SB+89.28	95.03	LT	501
		RAMP D						
			1593NLD+12.32	-	1602NLD+70.21	650.54	LT	1309
		N LYNNDALE DR						
			225ANB+75.74	-	225+87.67	39.75	RT	12
	STAGE 2 SUBTOTAL							6267
	4	**IH 41 NB**						
			569NB+00	-	575NB+65	90.40	RT	666
			575NB+79.42	-	576NB+09	97.29	RT	26
			604NB+79	-	617NB+62.39	90	RT	1254
			619NB+88	-	658NB+52	71.55	RT	3799
			658NB+52	-	666NB+32	101	RT	867
		RAMP A						
			1593NLA+63.77	-	1604NLA+78.94	279.10	RT	1195
		RAMP B						
			1576NLB+09	-	1589NLB+34.98	68	RT	2074
	STAGE 4 SUBTOTAL							9881
	SUBTOTAL							16856
	PROJECT 1130-64-72 TOTAL							**16900**

REMOVING (ABANDONING WELLS)

CATEGORY	STAGE	ROADWAY	STATION	OFFSET	LOCATION	204.9060.S REMOVING (ABANDONING WELLS) EACH
1000	1	**IH 41 NB**				
			589NB+87	40	RT	1
	1	**IH 41 SB**				
			588SB+30	134	LT	1
			592SB+80	71	LT	1
			618SB+38	54	LT	1
	STAGE 1 SUBTOTAL					4
	PROJECT 1130-64-72 TOTAL					**4**

Addendum No. 03
ID 1130-64-72
Revised Sheet 857
December 5, 2024

REMOVING CONCRETE BARRIER

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LOCATION	204.0157 REMOVING CONCRETE BARRIER LF
1000	1	**N LYNNDALE DR**						
			223ANB+24	-	223ANB+49	27.65	RT	26
			225ANB+61	-	225ANB+86	26.99	RT	25
	STAGE 1 SUBTOTAL							51
	PROJECT 1130-64-72 TOTAL							**51**

PROJECT	From/To Station	Location	Excavation Common (CY) ** (1) 205.0100		Excavation Marsh (CY) 205.0400	Roadway Embankment (CY) (4) SPV.0035.0100	Mass Ordinate +/- (5)
			Cut (CY) (2)	EBS (CY) (3)			
1130-64-72	219ANB+00 - 222ANB+00; 226ANB+60 - 229ANB+60	LYNNDALE MEDIAN CROSSOVER	440	0	0	0	440
	217ANB+00 - 232ANB+00	LYNNDALE SB SHOULDER - TEMP PED ROUTE	240	0	0	75	165
	VARIES	STAGE 1 NB STORM SEWER CROSSINGS	175	0	0	0	175
	668NB+75 - 669NB+75	STAGE 1 PAVEMENT REMOVAL OVER B-44-367	90	0	0	0	90
	569NB+00.00 - 672NB+55.51, 672NBT+55.51 - 683NBT+15.07	IH 41 NB STAGE 1	13,352	0	0	3,555	9,797
	2672+64.22 - 2689+40.98	SB IH-41 MEDIAN CROSSOVER	1,356	0	0	123	1,233
	2607+97.49 - 2613+15.80, 613NB+16.80 - 617NB+30.03	SB IH 41 TO 15/OO RAMP MEDIAN CROSSOVER	570	0	0	348	222
	221ANB+00 - 223ANB+49; 225ANB+61 - 225ANB+86	LYNNDALE NB TRAVEL LANES	387	0	0	19	368
	10DAB+00.00 - 11DAB+62.30	LYNNDALE DITCH B	292	0	0	0	292
	199AC+40+60 - 207AC+80.28	LYNNDALE CHANNEL	2,612	0	0	164	2,448
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 2	31,867	0	50	24,046	7,871
	673SBT+44.55 - 678SBT+64.05	IH 41 SB INTERIM STAGE 2	1,691	0	0	315	1,376
	1578NLC+03.23 - 1585NLC+00.00	RAMP NLC	2,736	0	0	2,040	696
	1600NLD+25.00 - 1602NLD+70.21	RAMP NLD	266	0	0	2,650	-2,384
	605SB+11.74 - 660SB+96.69	SB EBS	0	8,075	0	0	8,075
	0APC+00.00 - 9APC+35.50	POND APC	23,566	0	0	311	23,255
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 2 DITCH	0	0	0	7,539	7,539
	591SB+50.00 - 601SB+03.00	IH 41 SB TEMP OUTSIDE SHOULDER	1,839	0	0	509	1,330
	221ASB+00 - 223ASB+49; 225ASB+61 - 225ASB+86	LYNNDALE SB TRAVEL LANES	334	0	0	0	334
	217ANB+00 - 232ANB+00	LYNNDALE SB SHOULDER - REMOVE TEMP PED ROUTE	278	0	0	175	103
	219ANB+00 - 222ANB+00; 226ANB+60 - 229ANB+60	LYNNDALE REMOVE MEDIAN CROSSOVER	220	0	0	0	220
	569SB+00.00 - 673SB+44.49	IH 41 SB STAGE 3	7,806	0	0	1,493	6,313
	575SB+50.00 - 673SB+44.49	IH 41 SB STAGE 3 DITCH	14,942	0	0	1,580	13,362
	569NB+00.00 - 574NB+30.00, 2574+50.00 - 2583+18.17	NB - STH15 RAMP NLB - STAGE 4A CROSSOVER	1,023	0	0	333	690
	1595NLA+70 - 1600NLA+00	NB - STH 15 RAMP NLA - TEMP	160	0	0	906	-746
	2673+44.49 - 2687+44.15	NB STAGE 4 CROSSOVER	1,503	0	0	895	608
	569NB+00.00 - 672NB+55.51	IH 41 NB STAGE 4	56,300	0	50	19,168	37,182
	672NBT+55.51 - 677NBT+75.00	IH 41 NB INTERIM STAGE 4	1,952	0	0	264	1,688
	1599NLA+97.39 - 1604NLA+78.94	RAMP NLA	865	0	0	222	643
	1576NLB+09.24 - 1578NLB+77.48	RAMP NLB	688	0	0	44	644
	2595+70.74 - 2600+66.29	NB - STH15 RAMP NLA STAGE 4B TEMP REMOVAL	1,212	0	0	0	1,212
	619NB+92.47 - 658NB+21.92	NB EBS	0	9,899	0	0	9,899
	569NB+00 - 573NB+00	IH 41 MEDIAN	425	0	0	0	425
	591SB+50.00 - 601SB+03.00	IH 41 SB OUTSIDE SHOULDER	1,236	0	0	128	1,108
	569NB+00.00 - 672NB+55.51	IH 41 RELIEF TRENCHES	1,352	0	0	0	1,352
	Totals		**171,800**	**18,000**	**100**	**67,000**	**123,000**
			189,800				

1) Excavation Common = Cut + EBS Excavation. Item number 205.0100.
2) Cut volume includes existing concrete and asphaltic surface material.
3) EBS Excavation to be backfilled with select crushed material unless otherwise noted in the plans. All EBS material is assumed to be wasted offsite.
4) Roadway Embankment = Fill
5) Mass Ordinate = Excavation Common + Excavation Marsh - Fill. The Mass Ordinate is for information purposes only.

**Additional Quantities Shown Elsewhere

Addendum No. 03
ID 1130-64-72
Revised Sheet 862
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 862	E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

CONCRETE PAVEMENT

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LOCATION	SPV.0180.0100 CONCRETE PAVEMENT 10 1/2-INCH SPECIAL SY	415.0090 CONCRETE PAVEMENT 9 INCH SY	415.0095 CONCRETE PAVEMENT 9.5 INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	602.3210 CONCRETE SHOULDER RUMBLE STRIPS DIVIDED ROADWAY LF
1000	1	**N LYNNDALE DR**										
			220ANB+99.98	-	223ANB+24.43	0.00	LT/RT	-	-	618	-	-
			223ANB+24.43	-	223ANB+48.84	0.00	RT	-	-	12	66	-
			225ANB+61.61	-	225ANB+86.41	0.36	RT	-	-	10	73	-
		STAGE 1 SUBTOTAL						-	-	630	139	-
	2	**IH 41 SB**										
			569SB+00.00	-	673SB+44.49	0.00	LT/RT	66103	-	-	-	-
			569SB+00.00	-	576SB+74.17	36.50	LT	-	-	-	-	775
			580SB+65.14	-	601SB+03.52	24.50	LT	-	-	-	-	2044
			605SB+96.33	-	673SB+44.49	36.57	LT	-	-	-	-	6795
		RAMP C										
			1580NLC+65.55	-	1585NLC+00.00	0.00	LT	-	809	-	-	-
		RAMP D										
			1600NLD+25.00	-	1601+00.84	0.00	LT	-	290	-	-	-
		N LYNNDALE DR										
			220ASB+99.12	-	223ASB+26.44	0.00	LT	-	-	613	-	-
			223ASB+26.44	-	223ASB+48.05	0.30	LT	-	-	-	59	-
			225ASB+60.61	-	225ASB+85.55	0.07	LT	-	-	-	68	-
		STAGE 2 SUBTOTAL						66103	1099	613	127	9614
	3	**IH 41 SB**										
			569SB+00.00	-	673SB+44.49	12.00	RT	15921	-	-	-	10425
		STAGE 3 SUBTOTAL						15921	-	-	-	10425
	4	**IH 41 NB**										
			569NB+00.00	-	672NB+55.51	0.00	LT/RT	80910	-	-	-	10376
			569NB+00.00	-	571NB+80.42	36.50	RT	-	-	-	-	281
			578NB+52.45	-	602NB+60.24	24.50	RT	-	-	-	-	2402
			605NB+53.99	-	672NBT+55.51	40.59	RT	-	-	-	-	6656
		RAMP A										
			1599NLA+97.39	-	1602NLA+61.44	0.00	RT	-	1004	-	-	-
		RAMP B										
			1578NLB+53.20	-	1578NLB+77.48	0.00	RT	-	66	-	-	-
		STAGE 4 SUBTOTAL						80910	1070	-	-	19715
		PROJECT 1130-64-72 SUBTOTAL						162934	2169	1243	266	39754
		PROJECT 1130-64-72 TOTAL						**162940**	**2170**	**1250**	**266**	**39800**

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3

Addendum No. 03
ID 1130-64-72
Revised Sheet 866
December 5, 2024

CONCRETE BARRIER

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LOCATION	SPV.0090.0115 CONCRETE BARRIER TYPE S42 SPECIAL LF	SPV.0090.0120 CONCRETE BARRIER TYPE S56 SPECIAL LF	603.1256 CONCRETE BARRIER TYPE 56A LF	603.1442 CONCRETE BARRIER TYPE S42C LF	603.1456 CONCRETE BARRIER TYPE S56C LF	603.3255 CONCRETE BARRIER TRANSITION TYPE F42SF TO S42 EACH	SPV.0090.0125 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S56 SPECIAL LF	603.3559 CONCRETE BARRIER TRANSITION TYPE S42 TO S56 EACH	SPV.0090.0150 CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE LF
1000	2		**IH 41 SB**													
			569SB+00.00	-	575SB+66.15	48.00	LT	667	-	-	-	-	-	-	-	-
			575SB+66.15	-	575SB+78.20	48.00	LT	-	-	-	13	-	-	-	-	-
			575SB+78.20	-	577SB+13.21	48.08	LT	136	-	-	-	-	-	-	-	-
			587SB+50.00	-	593SB+25.00	36.00	LT	575	-	-	-	-	-	-	-	-
			602SB+73.07	-	668SB+14.39	59.87	LT	6606	-	-	-	-	-	-	-	-
			668SB+14.39	-	669SB+14.76	36.00	LT	-	-	-	101	-	-	-	-	-
			669SB+14.76	-	673SB+44.49	36.00	LT	430	-	-	-	-	-	-	-	-
			RAMP D													
			1600NLD+25.00	-	1602NLD+70.21	32.00	LT	246	-	-	-	-	-	-	-	-
			N LYNNDALE DR													
			223ANB+23.76	-	223ANB+48.76	26.99	RT	23	-	-	-	-	1	-	-	-
			225ANB+61.47	-	225ANB+86.44	26.49	RT	25	-	-	-	-	-	-	-	-
		STAGE 2 SUBTOTAL						8708	-	-	114	-	1	-	-	-
	3		**IH 41 SB**													
			569SB+00.00	-	659SB+63.98	24.00	RT	-	9026	-	-	-	-	-	-	-
		STAGE 3 SUBTOTAL						-	9026	-	-	-	-	-	-	-
	4		**IH 41 NB**													
			569NB+00.00	-	575NB+55.00	24.00	LT	-	655	-	-	-	-	-	-	-
			569NB+00.00	-	575NB+03.13	48.00	RT	604	-	-	-	-	-	-	-	-
			575NB+03.13	-	575NB+27.60	54.05	RT	-	-	-	-	-	-	-	1	-
			575NB+27.60	-	575NB+37.58	55.31	RT	-	10	-	-	-	-	-	-	-
			575NB+37.58	-	575NB+98.00	55.85	RT	-	-	-	-	61	-		-	-
			575NB+55.00	-	575NB+90.00	24.00	LT	-	-	-	-	-	-	35	-	-
			575NB+90.00	-	619NB+65.00	24.00	LT	-	4392	-	-	-	-	-	-	-
			575NB+98.00	-	576NB+07.98	59.36	RT	-	10	-	-	-	-	-	-	-
			588NB+50.00	-	593NB+25.00	36.00	RT	475	-	-	-	-	-	-	-	-
			588NB+79.00	-	589NB+09.00	32.00	LT			30						
			604NB+80.14	-	667NB+11.82	50.97	RT	6171	-	-	-	-	-	-	-	-
			615NB+19.00	-	615NB+49.00	24.00	LT			30						
			619NB+65.00	-	619NB+95.00	24.00	LT	-	-	30	-	-	-	-	-	-
			619NB+95.00	-	625NB+60.00	24.00	LT	-	4010	-	-	-	-	-	-	-
			626NB+90.00	-	627NB+20.00	24.00	LT	-	-	30	-	-	-	-	-	-
			625NB+90.00	-	658NB+75.00	24.00	LT	-	3303	-	-	-	-	-	-	-
			626NB+85.00	-	627NB+15.00	24.00	LT									
			667NB+11.82	-	668NB+25.77	36.00	RT	-	-	-	114	-	-	-	-	-
			668NB+25.77	-	672NB+55.51	36.00	RT	430	-	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

Addendum No. 03
ID 1130-64-72
Revised Sheet 873
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 873	E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE : WISDOT/CADDS SHEET 42

CONCRETE BARRIER

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LOCATION	SPV.0090.0115 CONCRETE BARRIER TYPE S42 SPECIAL LF	SPV.0090.0120 CONCRETE BARRIER TYPE S56 SPECIAL LF	603.1256 CONCRETE BARRIER TYPE 56A LF	603.1442 CONCRETE BARRIER TYPE S42C LF	603.1456 CONCRETE BARRIER TYPE S56C LF	603.3255 CONCRETE BARRIER TRANSITION TYPE F42SF TO S42 EACH	SPV.0090.0125 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S56 SPECIAL LF	603.3559 CONCRETE BARRIER TRANSITION TYPE S42 TO S56 EACH	SPV.0090.0150 CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE LF
CONTINUED FROM PREVIOUS PAGE																
	4	**RAMP A**														
			1599NLA+97.39	-	1604NLA+78.94	36.61	RT	474	-	-	-	-	-	-	-	-
		RAMP B														
			1576NLB+10.00	-	1576NLB+34.60	32.00	RT	-	-	-	-	-	-	-	1	-
			1576NLB+34.60	-	1576NLB+50.48	32.00	RT	16	-	-	-	-	-	-	-	-
	STAGE 4 SUBTOTAL							8170	12380	120	114	61	0	35	2	-
	5	**IH 41 NB**														
			658NB+75.00	-	668NB+06.77	25.03	LT	-	-	-	-	-	-	-	-	932
		IH 41 SB														
			659SB+64.01	-	669SB+52.82	24.85	RT	-	-	-	-	-	-	-	-	989
	STAGE 5 SUBTOTAL							-	-	-	-	-	-	-	-	1921
	PROJECT 1130-64-72 SUBTOTAL							16878	21406	120	228	61	1	35	2	1921
	PROJECT 1130-64-72 TOTAL							**16900**	**21500**	**120**	**228**	**61**	**1**	**35**	**2**	**1930**

Addendum No. 03
ID 1130-64-72
Revised Sheet 874
December 5, 2024

3

3

TEMPORARY PEDESTERIAN ITEMS

CATEGORY	ROADWAY	STAGE	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	SPV.0090.0155 FENCE TEMPORARY LF
1000	IH 41	STAGE 1A	40	-	-	2755
	LYNNDALE DRIVE	STAGE 1A	40	-	-	-
		STAGE 1B	25	50	60	-
		STAGE 1C	25	1,375	60	-
		STAGE 2A	110	-	-	-
		STAGE 2B	75	-	-	-
PROJECT 1130-64-72 TOTAL			**275**	**1425**	**120**	**2755**

3

Addendum No. 03
ID 1130-64-72
Revised Sheet 899
December 5, 2024

3

3

3 CONNECTED WORK ZONE DEVICES

				SPV.0045.0300 CONNECTED WORK ZONE START AND END LOCATION		SPV.0045.0305 CONNECTED ARROW BOARDS	
CATEGORY	STAGE	ROADWAY	STAGE DURATION DAYS	EACH	DAYS	EACH	DAY
1000	-	SB ADVANCE SIGNING	670	1	670	1	670
		PROJECT 1130-64-72 TOTALS			**670**		**670**

Addendum No. 03
ID 1130-64-72
Added Sheet 901A
December 5, 2024

Addendum No. 03
ID 1130-64-72
Revised Sheet 907
December 5, 2024

3

STORM SEWER STRUCTURES

CATEGORY	LOCATION	STATION	OFFSET	204.9060.S.0103 REMOVING APRON ENDWALLS EACH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	COMMENTS
1000	1130-64-72 STAGE 1						
	R/L SB	586+97.96	70.85' RT	1	--	–	
	R/L SB	668+62.48	210.81' RT	--	--	1	
	STAGE 1 TOTALS			1	0	1	
1000	1130-64-72 STAGE 2						
	R/L SB	574+31.84	6.61' RT	--	1	–	
	R/L SB	578+85.36	24.77' RT	--	--	1	
	R/L SB	605+06.94	20.06' RT	--	--	1	
	R/L SB	620+16.06	26.44' RT	--	--	1	
	R/L SB	620+16.10	21.87' RT	--	1	–	3
	R/L SB	620+68.95	20.22' RT	--	--	1	
	R/L SB	643+33.25	21.41' RT	--	--	1	
	R/L SB	654+10.40	22.88' RT	--	--	1	
	R/L SB	667+39.79	23.71' RT	--	--	1	
	R/L SB	668+17.04	210.45' RT	--	--	1	
	R/L SB	668+45.01	210.70' RT	--	--	1	
	STAGE 2 TOTALS			0	2	9	
						3	
1000	1130-64-72 STAGE 3						
	R/L SB	573+00.00	27.82' RT	--	--	1	
	R/L SB	574+38.50	26.07' RT	--	--	1	
	R/L SB	578+85.36	24.77' RT	--	--	1	
	R/L SB	580+25.00	24.37' RT	--	--	1	
	R/L SB	589+75.00	21.71' RT	--	--	1	
	R/L SB	592+45.99	22.48' RT	--	--	1	
	R/L SB	601+65.71	25.35' RT	--	--	1	
	R/L SB	666+89.56	23.44' RT	--	--	1	
	R/L SB	667+39.68	39.96' RT	--	--	1	
	STAGE 3 TOTALS			0	0	9	
1000	1130-64-72 STAGE 4						
	R/L NB	576+19.95	21.79' LT	--	--	1	
	R/L NB	593+22.18	18.96' LT	--	--	1	
	R/L NB	604+89.86	27.39' LT	--	--	1	
	R/L NB	655+76.28	17.37' LT	--	--	1	
	STAGE 4 TOTALS			0	0	4	
	1130-64-72 TOTALS			1	2	23	
						3	

MISCELLANEOUS REMOVALS

CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	SPV.0060.0125 REMOVING COVER PLATES EACH	SPV.0060.0126 REMOVING STORM SEWER PLUG EACH	COMMENTS
1000	1130-64-72 STAGE 2						
	R/L SB	RS_30-S2	592+41.69	15.78' RT	--	1	
	R/L SB	RS_32-S2	616+83.56	38.29' LT	--	1	
	R/L SB	RS_24-S2	616+97.60	21.98' RT	--	1	
	R/L SB	RS_34-S2	618+25.68	42.43' LT	–	1	
	R/L SB	RS_25-S2	620+08.16	23.20' RT	--	1	
	R/L SB	EX 6323	616+91.07	42.55' LT	2	--	
	R/L SB	EX 6324	618+17.75	42.54' LT	2	--	
	R/L SB	EX 6455	588+94.05	33.87' LT	2	--	
	R/L SB	EX 6458	589+62.22	33.87' LT	2	--	
	R/L SB	EX 6459	589+24.45	33.87' LT	2	–	
	STAGE 2 SUBTOTALS				10	5	
1000	1130-64-72 STAGE 3						
	R/L SB	EX 6328	617+50.71	41.93' RT	2	–	
	R/L SB	EX 6329	618+82.61	41.88' RT	2	–	
	R/L SB	EX 6451	586+97.96	21.87' RT	2	–	
	R/L SB	EX 6453	588+74.46	21.87' RT	2	–	
	R/L SB	EX 6454	588+94.07	21.87' RT	2	–	
	R/L SB	EX 6456	588+94.07	28.00' RT	1	–	
	R/L SB	EX 6470	589+24.48	21.87' RT	2	–	
	R/L SB	EX 6472	589+62.22	21.87' RT	2	–	
	R/L SB	EX 6475	589+62.23	15.00' RT	2	–	
	R/L SB	EX 6477	592+33.71	21.87' RT	2	–	
	R/L SB	EX 6478	592+33.69	15.80' RT	2	–	
	R/L SB	EX 6527	617+05.65	21.86' RT	2	–	
	ASB	EX 6721	220+03.75	00.55' RT	1	–	
	ASB	EX 6722	220+04.45	12.68' RT	1	–	
	STAGE 3 SUBTOTALS				25	0	
1000	1130-64-72 STAGE 4						
	R/L SB	EX 6452	586+97.96	34.13' RT	2	–	
	R/L SB	EX 6460	588+99.46	89.87' RT	2	–	
	R/L SB	EX 6461	588+74.46	89.87' RT	2	–	
	R/L SB	EX 6463	589+62.22	89.87' RT	2	–	
	R/L SB	EX 6464	589+24.46	89.87' RT	2	–	
	R/L SB	EX 6465	588+99.46	34.13' RT	–	–	
	R/L SB	EX 6466	588+74.46	34.13' RT	2	–	
	R/L SB	EX 6467	589+24.45	34.13' RT	2	–	
	R/L SB	EX 6471	589+62.25	34.13' RT	2	–	
	R/L SB	EX 6476	592+33.74	34.13' RT	2	–	
	R/L SB	EX 6526	617+18.33	34.13' RT	1	–	
	R/L SB	EX 6726	681+38.41	34.82'RT	2	--	
	STAGE 4 SUBTOTALS				21	0	
	1130-64-72 TOTALS				56	5	

Addendum No. 03
ID 1130-64-72
Revised Sheet 910
December 5, 2024

STORM SEWER STRUCTURES

CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0610 INLET COVERS TYPE BW EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0656 INLET COVERS TYPE VV-B EACH	611.0666 INLET COVERS TYPE Z EACH	SPV.0060.0230 INLET COVERS TYPE Y EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH
1000	1130-64-72 STAGE 1A																					
	R/L SB	6661X_S1	669+64.10	111.97	790.99	787.09	2.87	1	--	–	–	–	--	–	–	–	–	–	1	--	--	--
	ASB	EX 6721	220+03.75	00.55' RT	805.92	800.26	4.51	–	--	1	–	–	--	–	--	–	–	–	–	--	--	--
	ASB	EX 6722	220+04.45	12.68' RT	806.50	801.56	3.79	–	--	1	–	–	--	–	--	–	–	–	–	--	--	--
						STAGE 1A SUBTOTALS		1	0	2	0	0	0	0	0	0	0	0	1	0	0	0
1000	1130-64-72 STAGE 1B																					
	R/L SB	6675-S1	665+97.49	89.87' RT	792.64	786.20	5.56	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6679-S1	667+00.00	89.87' RT	792.35	786.53	4.98	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB TEMP	6701BT-S1	674+44.65	29.99' RT	793.77	790.83	1.81	–	--	–	–	–	--	1	--	–	–	–	--	--	--	--
	R/L SB TEMP	6701T-S1	674+54.44	36.01' RT	793.80	790.80	1.88	--	--	--	--	--	--	1	–	–	–	–	–	–	--	--
	ASB	6714-S1	222+94.99	46.17' RT	813.70	807.72	5.17	–	--	–	–	–	1	–	–	–	–	–	–	–	--	--
						STAGE 1B SUBTOTALS		0	0	0	0	0	1	2	2	0	0	0	1	0	1	0
1000	1130-64-72 STAGE 1C																					
	R/L SB	6496-S1	597+22.38	34.13' RT	798.07	791.88	5.31	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6665-S1	667+00.00	34.13' RT	792.55	786.70	5.01	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6670-S1	665+97.49	34.13' RT	792.84	786.45	5.51	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	ASB	6713-S1	222+94.99	19.36' RT	814.23	808.25	5.17	–	--	–	–	–	1	–	–	–	–	–	–	–	--	--
						STAGE 1C SUBTOTALS		0	0	0	0	0	1	0	3	0	0	0	2	0	1	0
						STAGE 1 SUBTOTALS		1	0	2	0	0	2	2	5	0	0	0	4	0	2	0
1000	1130-64-72 STAGE 2																					
	R/L SB	6003T-S2	578+85.36	24.77' RT	790.12	786.86	3.51	–	--	–	–	–	--	2	–	–	–	–	–	--	--	--
	R/L SB	6004T-S2	580+25.00	24.37' RT	789.70	787.66	2.23	–	--	–	–	–	--	1	–	–	–	–	–	--	--	--
	NLC	6112-S2	1581+59.72	11.95' RT	792.06	788.42	3.85	–	--	–	–	–	--	1	–	–	–	–	–	--	--	--
	R/L SB	6145-S2	602+19.79	63.00' LT	804.04	797.84	5.24	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6146-S2	603+18.46	53.84' LT	804.17	798.34	4.87	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6149A-S2	601+09.27	38.67' LT	802.65	798.28	3.34	–	1	–	–	–	--	–	–	–	–	1	–	--	--	--
	R/L SB	6149-S2	601+13.25	75.84' LT	804.37	798.17	5.24	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6298T-S2	605+06.91	28.61' RT	798.19	791.36	7.16	–	--	–	–	–	--	2	–	–	–	–	–	--		--
	R/L SB	6408-S2	571+00.00	21.87' RT	798.08	790.35	6.81	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6409-S2	571+00.00	45.87' LT	797.64	791.55	5.11	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6411-S2	573+00.00	45.87' LT	794.11	788.99	4.14	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6412A-S2	572+29.06	21.87' RT	795.64	788.76	5.96	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6412T-S2	573+00.00	27.82' RT	790.60	788.66	2.15	–	--	–	–	–	--	2	–	–	–	–	–	--	--	--
	R/L SB	6412-S2	573+00.00	21.87' RT	794.55	787.89	5.74	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6421-S2	576+91.00	47.91' LT	790.83	786.71	3.14	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6422-S2	577+06.01	48.18' LT	790.82	786.66	3.20	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6430A-S2	576+30.00	15.00' RT	791.94	787.43	3.48	–	1	–	–	–	--	–	–	–	–	–	1	–	--	--
	R/L SB	6434A-S2	574+30.64	21.87' RT	792.98	787.24	4.82	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6434AT-S2	574+38.50	26.07' RT	789.12	787.27	2.04	–	--	–	–	–	--	1	--	–	–	–	–	--	--	--
	R/L SB	6438-S2	578+78.24	21.87' RT	792.11	786.82	4.37	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6446A-S2	579+13.86	30.40' LT	792.21	787.11	4.11	–	1	–	–	–	--	–	–	–	–	–	1	--	--	--
	R/L SB	6480-S2	593+00.00	16.00' RT	795.77	790.21	4.57	–	1	–	--	–	--	–	–	–	–	–	1	--	--	--
	R/L SB	6482-S2	593+00.00	21.87' RT	795.61	790.73	3.92	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6485-S2	594+11.70	21.87' RT	795.83	790.55	4.36	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6486-S2	596+52.30	21.87' RT	797.10	792.53	3.65	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--

Addendum No. 03
ID 1130-64-72
Revised Sheet 911
December 5, 2024

STORM SEWER STRUCTURES CONTINUED

CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	COMMENTS
1000	1130-64-72 STAGE 1A											
	R/L SB	6661X_S1	669+64.10	111.97	790.99	787.09	2.87	--	--	–	–	
	ASB	EX 6721	220+03.75	00.55' RT	805.92	800.26	4.51	--	--	–	–	EXISTING STRUCTURE TO BE RECONSTRUCTED - CASTING ONLY
	ASB	EX 6722	220+04.45	12.68' RT	806.50	801.56	3.79	--	--	–	–	EXISTING STRUCTURE TO BE RECONSTRUCTED - CASTING ONLY
						STAGE 1A SUBTOTALS		0	0	0	0	
1000	1130-64-72 STAGE 1B											
	R/L SB	6675-S1	665+97.49	89.87' RT	792.64	786.20	5.56	--	--	–	–	
	R/L SB	6679-S1	667+00.00	89.87' RT	792.35	786.53	4.98	--	--	–	–	
	R/L SB TEMP	6701BT-S1	674+44.65	29.99' RT	793.77	790.83	1.81	--	--	1	--	
	R/L SB TEMP	6701T-S1	674+54.44	36.01' RT	793.80	790.80	1.88	--	--	1	--	
	ASB	6714-S1	222+94.99	46.17' RT	813.70	807.72	5.17	--	1	–	--	
						STAGE 1B SUBTOTALS		0	1	2	0	
1000	1130-64-72 STAGE 1C											
	R/L SB	6496-S1	597+22.38	34.13' RT	798.07	791.88	5.31	--	--	–	–	
	R/L SB	6665-S1	667+00.00	34.13' RT	792.55	786.70	5.01	--	--	–	–	
	R/L SB	6670-S1	665+97.49	34.13' RT	792.84	786.45	5.51	--	--	–	–	
	ASB	6713-S1	222+94.99	19.36' RT	814.23	808.25	5.17	--	1	–	--	
						STAGE 1C SUBTOTALS		0	1	0	0	
						STAGE 1 SUBTOTALS		0	2	2	0	
1000	1130-64-72 STAGE 2											
	R/L SB	6003T-S2	578+85.36	24.77' RT	790.12	786.86	3.51	--	--	–	1	INSTALL AT 11 DEGREE ANGLE FROM R/L SB AND CONNECT CROSS-CULVERTS OFF-CENTER
	R/L SB	6004T-S2	580+25.00	24.37' RT	789.70	787.66	2.23	--	--	1	--	
	NLC	6112-S2	1581+59.72	11.95' RT	792.06	788.42	3.85	--	--	1	--	SLOPE: FLAT
	R/L SB	6145-S2	602+19.79	63.00' LT	804.04	797.84	5.24	--	--	–	–	
	R/L SB	6146-S2	603+18.46	53.84' LT	804.17	798.34	4.87	--	--	–	–	
	R/L SB	6149A-S2	601+09.27	38.67' LT	802.65	798.28	3.34	--	--	–	–	
	R/L SB	6149-S2	601+13.25	75.84' LT	804.37	798.17	5.24	--	--	–	–	
	R/L SB	6298T-S2	605+06.91	28.61' RT	798.19	791.36	7.16	--	--	–	1	SLOPE: SINGLE
	R/L SB	6408-S2	571+00.00	21.87' RT	798.08	790.35	6.81	--	--	–	–	
	R/L SB	6409-S2	571+00.00	45.87' LT	797.64	791.55	5.11	--	--	–	–	
	R/L SB	6411-S2	573+00.00	45.87' LT	794.11	788.99	4.14	--	--	–	–	
	R/L SB	6412A-S2	572+29.06	21.87' RT	795.64	788.76	5.96	--	--	–	–	
	R/L SB	6412T-S2	573+00.00	27.82' RT	790.60	788.66	2.15	--	--	–	1	
	R/L SB	6412-S2	573+00.00	21.87' RT	794.55	787.89	5.74	--	--	–	–	
	R/L SB	6421-S2	576+91.00	47.91' LT	790.83	786.71	3.14	--	--	–	–	
	R/L SB	6422-S2	577+06.01	48.18' LT	790.82	786.66	3.20	--	--	–	–	
	R/L SB	6430A-S2	576+30.00	15.00' RT	791.94	787.43	3.48	--	--	–	–	
	R/L SB	6434A-S2	574+30.64	21.87' RT	792.98	787.24	4.82	--	--	–	–	
	R/L SB	6434AT-S2	574+38.50	26.07' RT	789.12	787.27	2.04	--	--	1	--	
	R/L SB	6438-S2	578+78.24	21.87' RT	792.11	786.82	4.37	--	--	–	–	
	R/L SB	6446A-S2	579+13.86	30.40' LT	792.21	787.11	4.11	--	--	–	–	
	R/L SB	6480-S2	593+00.00	16.00' RT	795.77	790.21	4.57	--	--	–	–	
	R/L SB	6482-S2	593+00.00	21.87' RT	795.61	790.73	3.92	--	--	–	–	
	R/L SB	6485-S2	594+11.70	21.87' RT	795.83	790.55	4.36	--	--	–	–	
	R/L SB	6486-S2	596+52.30	21.87' RT	797.10	792.53	3.65	--	--	–	–	

Addendum No. 03
ID 1130-64-72
Revised Sheet 912
December 5, 2024

STORM SEWER STRUCTURES

								611.0530	611.0535	611.0606	611.0610	611.0612	611.0624	611.0642	611.0656	611.0666	SPV.0060.0230	611.2004	611.2005	611.2006	611.2007	611.2008
								MANHOLE COVERS		INLET COVERS								MANHOLES				
CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	TYPE J EACH	TYPE J-SPECIAL EACH	TYPE B EACH	TYPE BW EACH	TYPE C EACH	TYPE H EACH	TYPE MS EACH	TYPE VV-B EACH	TYPE Z EACH	INLET COVERS TYPE Y EACH	4-FT DIAMETER EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	7-FT DIAMETER EACH	8-FT DIAMETER EACH
	R/L SB	6492-S2	603+18.55	21.87' RT	800.71	793.39	6.48	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6493C-S2	601+62.23	16.00' RT	800.08	793	6.17	1	--	–	–	–	--	–	–	–	–	–	1	–	--	--
	R/L SB	6493DT-S2	601+65.71	25.35' RT	797.34	794.63	2.92	–	--	–	–	–	--	1	--	–	–	–	–	--	--	--
	R/L SB	6493-S2	604+78.86	21.88' RT	801.57	793.79	6.94	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6495-S2	600+16.27	21.87' RT	799.07	792.64	5.59	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6496A-S2	598+56.22	16.00' RT	798.43	792.24	5.24	1	--	–	–	–	--	–	–	–	–	–	–	--	1	--
	R/L SB	6497-S2	597+22.64	21.87' RT	797.48	791.91	4.69	–	--	–	–	–	--	–	1	–	–	–	--	--	--	1
	R/L SB	6499A-S2	607+69.49	16.00' RT	803.35	794.51	7.93	1	--	–	–	–	--	–	–	–	–	–	1	–	--	--
	R/L SB	6499-S2	606+19.39	14.00' RT	802.66	794.14	7.61	–	1	–	--	–	--	–	–	–	–	–	–	1	--	--
	R/L SB	6501-S2	606+20.82	21.87' RT	802.34	795.71	5.67	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6502-S2	606+20.82	41.87' LT	805.18	798.90	5.32	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6504-S2	609+23.55	16.00' RT	803.79	794.89	7.99	–	1	–	--	–	--	–	–	–	–	–	1	--	--	--
	R/L SB	6505A-S2	613+81.89	16.00' RT	802.44	796.11	5.38	1	--	–	–	–	--	–	–	–	–	–	–	--	1	--
	R/L SB	6505-S2	612+25.77	21.87' RT	802.98	795.65	6.49	–	--	–	–	–	--	–	1	–	–	–	--	--	--	1
	R/L SB	6507-S2	612+25.72	41.87' LT	805.83	795.88	9.11	–	--	–	–	–	--	–	1	–	–	–	–	--	1	--
	R/L SB	6515-S2	615+32.73	41.88' LT	804.70	796.98	6.88	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6517-S2	615+91.58	41.87' LT	804.68	797.19	6.65	–	--	–	–	–	--	–	1	–	–	–	–	--	--	1
	R/L SB	6518-S2	615+66.59	41.87' LT	804.68	797.10	6.74	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6520-S2	615+32.73	21.87' RT	801.85	796.56	4.41	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6524-S2	615+66.57	21.87' RT	801.84	796.66	4.22	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6525-S2	615+91.59	21.87' RT	801.85	796.74	4.19	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6534-S2	619+94.16	44.10' LT	806.35	798.69	6.82	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
3	R/L SB	6540T-S2	620+16.10	21.87' RT	801.62	798.27	3.56	–	--	–	–	–	--	–	–	–	–	–	–	--	1	--
	R/L SB	6540-S2	620+16.10	21.87' RT	803.70	798.30	4.56	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6542-S2	622+74.08	45.87' LT	807.95	802.04	5.03	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6544-S2	621+49.99	21.87' RT	804.49	798.70	4.95	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6545-S2	623+01.58	21.87' RT	805.38	799.15	5.31	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L NB	6546-S2	620+77.31	98.34' LT	807.05	800.36	5.74	1	--	–	–	–	--	–	–	–	–	–	1	--	--	--
	R/L NB	6547-S2	620+77.31	116.97' LT	803.64	800.92	2.97	–	--	–	–	–	--	2	--	–	–	–	–	--	--	--
	R/L SB	6550-S2	624+52.68	21.87' RT	806.27	799.60	5.59	–	--	–	1	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6554-S2	624+52.75	65.21' LT	803.92	801.25	2.88	–	--	–	–	–	--	1	–	–	–	–	–	--	--	--
	R/L SB	6555-S2	624+52.70	45.87' LT	809.00	801.16	6.88	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6556-S2	626+21.29	21.86' RT	807.26	800.19	6.15	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6560-S2	627+54.88	21.87' RT	808.05	800.79	6.18	–	--	–	1	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6561-S2	627+54.80	45.86' LT	810.78	804.46	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6565-S2	629+52.64	21.87' RT	809.07	801.58	6.57	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6568-S2	630+52.04	21.86' RT	809.33	802.44	5.97	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6570-S2	633+07.81	21.87' RT	809.16	801.77	6.47	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6571-S2	632+08.17	21.87' RT	809.37	802.48	5.97	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6575-S2	635+00.30	21.87' RT	808.30	800.81	6.57	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6576-S2	635+00.20	45.87' LT	811.03	804.71	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6579-S2	636+51.40	21.87' RT	807.52	800.04	6.56	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6580-S2	638+02.50	21.87' RT	806.74	799.28	6.54	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6581-S2	638+02.27	45.87' LT	809.47	803.15	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6585-S2	639+53.59	21.90' RT	805.96	798.52	6.52	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6590-S2	641+04.71	21.87' RT	805.18	797.25	7.05	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--

Addendum No. 03
ID 1130-64-72
Revised Sheet 913
December 5, 2024

STORM SEWER STRUCTURES CONTINUED

								611.3003	611.3004	611.3901	611.3902	
								INLETS				
CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	3-FT DIAMETER EACH	4-FT DIAMETER EACH	MEDIAN 1 GRATE EACH	MEDIAN 2 GRATE EACH	COMMENTS
	R/L SB	6492-S2	603+18.55	21.87' RT	800.71	793.39	6.48	--	--	–	–	
	R/L SB	6493C-S2	601+62.23	16.00' RT	800.08	793	6.17	--	--	–	–	
	R/L SB	6493DT-S2	601+65.71	25.35' RT	797.34	794.63	2.92	--	--	1	--	
	R/L SB	6493-S2	604+78.86	21.88' RT	801.57	793.79	6.94	--	--	–	–	
	R/L SB	6495-S2	600+16.27	21.87' RT	799.07	792.64	5.59	--	--	–	–	
	R/L SB	6496A-S2	598+56.22	16.00' RT	798.43	792.24	5.24	--	--	–	–	
	R/L SB	6497-S2	597+22.64	21.87' RT	797.48	791.91	4.69	--	--	–	–	
	R/L SB	6499A-S2	607+69.49	16.00' RT	803.35	794.51	7.93	--	--	–	–	
	R/L SB	6499-S2	606+19.39	14.00' RT	802.66	794.14	7.61	--	--	–	–	
	R/L SB	6501-S2	606+20.82	21.87' RT	802.34	795.71	5.67	--	--	–	–	
	R/L SB	6502-S2	606+20.82	41.87' LT	805.18	798.90	5.32	--	--	–	–	
	R/L SB	6504-S2	609+23.55	16.00' RT	803.79	794.89	7.99	--	--	–	–	
	R/L SB	6505A-S2	613+81.89	16.00' RT	802.44	796.11	5.38	--	--	–	–	
	R/L SB	6505-S2	612+25.77	21.87' RT	802.98	795.65	6.49	--	--	–	–	
	R/L SB	6507-S2	612+25.72	41.87' LT	805.83	795.88	9.11	--	--	–	–	
	R/L SB	6515-S2	615+32.73	41.88' LT	804.70	796.98	6.88	--	--	–	–	
	R/L SB	6517-S2	615+91.58	41.87' LT	804.68	797.19	6.65	--	--	–	–	
	R/L SB	6518-S2	615+66.59	41.87' LT	804.68	797.10	6.74	--	--	–	–	
	R/L SB	6520-S2	615+32.73	21.87' RT	801.85	796.56	4.41	--	--	–	–	
	R/L SB	6524-S2	615+66.57	21.87' RT	801.84	796.66	4.22	--	--	–	–	
	R/L SB	6525-S2	615+91.59	21.87' RT	801.85	796.74	4.19	--	--	–	–	3
	R/L SB	6534-S2	619+94.16	44.10' LT	806.35	798.69	6.82	--	--	–	–	
3	R/L SB	6540T-S2	620+16.10	21.87' RT	801.62	798.27	3.56	--	--	–	–	INSTALL WITH TEMPORARY COVER PLATES IN STAGE 2A
	R/L SB	6540-S2	620+16.10	21.87' RT	803.70	798.30	4.56	--	--	–	–	REPLACE STRUCTURE 6540T-S2 IN STAGE 2B; INSTALL TEMPORARY COVER PLATES
	R/L SB	6542-S2	622+74.08	45.87' LT	807.95	802.04	5.03	--	--	–	–	
	R/L SB	6544-S2	621+49.99	21.87' RT	804.49	798.70	4.95	--	--	–	–	3
	R/L SB	6545-S2	623+01.58	21.87' RT	805.38	799.15	5.31	--	--	–	–	
	R/L NB	6546-S2	620+77.31	98.34' LT	807.05	800.36	5.74	--	--	–	–	
	R/L NB	6547-S2	620+77.31	116.97' LT	803.64	800.92	2.97	--	--	–	–	
	R/L SB	6550-S2	624+52.68	21.87' RT	806.27	799.60	5.59	--	--	–	–	STAGE 2 TEMPORARY BW CASTING; STAGE 3 VV-B CASTING
	R/L SB	6554-S2	624+52.75	65.21' LT	803.92	801.25	2.88	--	--	1	--	SLOPE: SINGLE
	R/L SB	6555-S2	624+52.70	45.87' LT	809.00	801.16	6.88	--	--	–	–	
	R/L SB	6556-S2	626+21.29	21.86' RT	807.26	800.19	6.15	--	--	–	–	
	R/L SB	6560-S2	627+54.88	21.87' RT	808.05	800.79	6.18	--	--	–	–	STAGE 2 TEMPORARY BW CASTING; STAGE 3 VV-B CASTING
	R/L SB	6561-S2	627+54.80	45.86' LT	810.78	804.46	5.36	--	--	–	–	
	R/L SB	6565-S2	629+52.64	21.87' RT	809.07	801.58	6.57	--	--	–	–	
	R/L SB	6568-S2	630+52.04	21.86' RT	809.33	802.44	5.97	--	--	–	–	
	R/L SB	6570-S2	633+07.81	21.87' RT	809.16	801.77	6.47	--	--	–	–	
	R/L SB	6571-S2	632+08.17	21.87' RT	809.37	802.48	5.97	--	--	–	–	
	R/L SB	6575-S2	635+00.30	21.87' RT	808.30	800.81	6.57	--	--	–	–	
	R/L SB	6576-S2	635+00.20	45.87' LT	811.03	804.71	5.36	--	--	–	–	
	R/L SB	6579-S2	636+51.40	21.87' RT	807.52	800.04	6.56	--	--	–	–	
	R/L SB	6580-S2	638+02.50	21.87' RT	806.74	799.28	6.54	--	--	–	–	
	R/L SB	6581-S2	638+02.27	45.87' LT	809.47	803.15	5.36	--	--	–	–	
	R/L SB	6585-S2	639+53.59	21.90' RT	805.96	798.52	6.52	--	--	–	–	
	R/L SB	6590-S2	641+04.71	21.87' RT	805.18	797.25	7.05	--	--	–	–	

Addendum No. 03
ID 1130-64-72
Revised Sheet 914
December 5, 2024

STORM SEWER STRUCTURES

								611.0530	611.0535	611.0606	611.0610	611.0612	611.0624	611.0642	611.0656	611.0666	SPV.0060.0230	611.2004	611.2005	611.2006	611.2007	611.2008
								MANHOLE COVERS		INLET COVERS								MANHOLES				
CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	DEPTH FT	TYPE J EACH	TYPE J-SPECIAL EACH	TYPE B EACH	TYPE BW EACH	TYPE C EACH	TYPE H EACH	TYPE MS EACH	TYPE VV-B EACH	TYPE Z EACH	INLET COVERS TYPE Y EACH	4-FT DIAMETER EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	7-FT DIAMETER EACH	8-FT DIAMETER EACH
	R/L SB	6591-S2	641+04.71	45.87' LT	807.91	801.59	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6594-S2	643+32.60	21.87' RT	804.00	796.1	7.02	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6595-S2	644+37.12	21.87' RT	803.46	795.58	6.84	–	--	–	1	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6596-S2	644+37.12	45.87' LT	806.20	799.88	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6599-S2	646+08.38	21.87' RT	802.58	794.72	6.98	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6600-S2	647+79.61	21.87' RT	801.70	793.87	6.95	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6601-S2	647+79.61	45.87' LT	804.43	798.11	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6605-S2	649+45.84	21.87' RT	800.84	793.04	6.92	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6610-S2	651+12.00	21.87' RT	799.98	791.71	7.27	–	--	–	1	–	--	–	1	–	–	–	–	--	1	--
	R/L SB	6611-S2	651+11.97	45.86' LT	802.71	796.39	5.36	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6614-S2	652+63.14	21.87' RT	799.20	791.14	7.22	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6615-S2	654+10.04	21.87' RT	798.64	790.58	7.22	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6616-S2	654+10.04	45.87' LT	800.77	793.34	6.47	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6620-S2	655+54.50	21.87' RT	798.20	790.02	7.34	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6625-S2	656+94.49	21.87' RT	797.48	789.48	7.16	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6626-S2	656+94.49	45.87' LT	797.11	791.19	4.96	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6629-S2	658+44.42	21.87' RT	796.71	788.91	6.96	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6630-S2	659+94.49	21.87' RT	795.93	788.33	6.76	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6631-S2	659+94.49	45.87' LT	795.45	790.04	4.45	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6634-S2	659+00.00	15.07' RT	796.61	788.69	7.01	–	1	–	--	–	--	–	–	–	–	–	1	--	--	--
	R/L SB	6635-S2	661+44.50	21.87' RT	795.16	787.88	6.44	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6639-S2	662+50.07	40.87' LT	794.33	788.83	4.54	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6640-S2	662+94.53	21.87' RT	794.38	787.43	6.11	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6646-S2	662+99.67	39.22' LT	794.14	787.18	6.12	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6651-S2	667+87.13	33.87' LT	792.30	787.16	4.22	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6652-S2	667+62.13	33.87' LT	792.30	787.09	4.29	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6654-S2	667+00.00	33.87' LT	792.35	786.9	4.61	–	--	–	–	–	--	–	1	–	–	–	–	--	1	--
	R/L SB	6655B-S2	665+41.38	33.87' LT	792.91	787.92	4.03	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6655-S2	665+97.49	33.87' LT	792.64	786.75	5.01	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6660-S2	665+97.49	21.87' RT	792.84	786.50	5.44	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6661T-S2	667+94.15	23.98' RT	790.31	788.31	2.21	–	--	–	–	–	--	1	–	–	–	–	–	--	--	--
	R/L SB	6661-S2	667+87.12	21.88' RT	792.50	787.49	4.09	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6662-S2	667+62.12	21.86' RT	792.50	787.41	4.17	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6663-S2	667+39.64	21.87' RT	792.50	787.35	4.23	–	--	–	–	–	--	–	1	–	–	–	--	1	--	--
	R/L SB	6664T-S2	666+89.56	23.44' RT	790.30	788.30	2.21	–	--	–	–	–	--	2	–	–	–	–	–	--	--	--
	R/L SB	6664-S2	667+00.00	21.87' RT	792.55	786.73	4.98	–	--	–	–	–	--	–	1	–	–	–	--	--	1	--
	R/L SB	6691-S2	670+47.13	21.87' RT	793.43	786.83	6.85	–	--	–	–	–	--	–	--	–	–	–	1	--	--	--
	R/L SB	6692-S2	670+47.11	33.87' LT	793.23	787.62	4.65	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6694-S2	673+19.82	33.87' LT	794.59	788.31	5.32	–	--	–	–	–	--	–	1	–	–	–	1	–	--	--
	R/L SB	6695-S2	673+19.82	21.87' RT	794.79	788.19	6.85	–	--	–	–	–	--	–	--	–	–	–	–	1	--	--
	ASB	6711-S2	222+94.99	25.84' LT	813.37	807.39	5.17	–	--	–	–	–	1	–	–	–	–	1	–	–	--	--
	ASB	6712-S2	222+94.99	00.49' RT	813.88	807.91	5.07	–	--	–	–	–	--	–	–	1	–	1	–	–	--	--
	R/L SB	EX 6323	616+91.07	42.55' LT	804.75	797.54	6.30	1	--	–	–	–	--	–	–	–	–	–	–	--	--	--
	R/L SB	EX 6324	618+17.75	42.54' LT	805.28	797.99	6.38	1	--	–	–	–	--	–	–	–	–	–	–	--	--	--
	R/L SB	EX 6455	588+94.05	33.87' LT	793.72	788.89	3.91	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6458	589+62.22	33.87' LT	793.80	789.59	3.25	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6459	589+24.45	33.87' LT	793.74	789.48	3.30	–	--	–	–	–	--	–	1	–	–	–	–	--	3	--
							STAGE 2 SUBTOTALS	7	7	0	4	0	1	16	88	1	0	3	64	17	15	3

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 914	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 5:13 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

Addendum No. 03
ID 1130-64-72
Revised Sheet 920
December 5, 2024

STORM SEWER STRUCTURES

								611.0530	611.0535	611.0606	611.0610	611.0612	611.0624	611.0642	611.0656	611.0666	SPV.0060.0230	611.2004	611.2005	611.2006	611.2007	611.2008
								MANHOLE COVERS		INLET COVERS								MANHOLES				
					RIM	INVERT	DEPTH	TYPE J	TYPE J-SPECIAL	TYPE B	TYPE BW	TYPE C	TYPE H	TYPE MS	TYPE VV-B	TYPE Z	INLET COVERS TYPE Y	4-FT DIAMETER	5-FT DIAMETER	6-FT DIAMETER	7-FT DIAMETER	8-FT DIAMETER
CATEGORY	LOCATION	STRUCTURE	STATION	OFFSET	ELEVATION	ELEVATION	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
	R/L SB	6511-S4	616+70.98	101.87' RT	799.80	796.22	2.62	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6512-S4	615+32.76	101.87' RT	799.48	795.82	2.70	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6513-S4	614+98.92	101.87' RT	799.47	795.72	2.87	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6514-S4	614+73.50	101.87' RT	799.47	795.79	2.72	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6536-S4	621+50.15	101.87' RT	802.72	798.91	2.85	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6538-S4	620+40.83	101.87' RT	802.02	798.60	2.46	–	--	–	–	–	--	–	1	–	–	–	–	1	--	--
	R/L SB	6677-S4	667+87.33	89.87' RT	792.30	787.29	4.09	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6678-S4	667+62.34	89.87' RT	792.30	787.21	4.17	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6697-S4	673+19.82	89.87' RT	794.59	788.26	5.37	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	EX 6452	586+97.96	34.13' RT	793.99	788.19	4.92	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6456	588+94.07	28.00' RT	793.39	789.50	2.84	–	--	–	–	–	--	–	–	–	1	–	–	--	--	--
	R/L SB	EX 6460	588+99.46	89.87' RT	793.18	788.94	3.36	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6461	588+74.46	89.87' RT	793.19	789.01	3.22	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6463	589+62.22	89.87' RT	793.25	789.12	3.17	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6464	589+24.46	89.87' RT	793.19	789.01	3.22	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6465	588+99.46	34.13' RT	793.38	788.76	3.74	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6466	588+74.46	34.13' RT	793.39	788.69	3.82	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6467	589+24.45	34.13' RT	793.39	788.92	3.51	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6471	589+62.25	34.13' RT	793.45	789.21	3.28	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6476	592+33.74	34.13' RT	795.07	790.07	4.08	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB	EX 6526	617+18.33	34.13' RT	802.74	797.40	4.42	–	--	–	–	–	--	–	1	–	–	–	–	--	--	--
	R/L SB TEMP	EX 6726	681+38.41	34.82' RT	799.65	795.31	4.53	–	--	–	–	–	--	2	–	–	–	–	–	--	--	--
						STAGE 4A SUBTOTALS		0	1	0	0	0	0	2	29	0	1	1	15	3	0	0
1000	1130-64-72 STAGE 4B																					
	R/L SB	6552-S4	624+52.68	101.87' RT	804.66	799.92	3.82	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6562-S4	627+54.88	101.87' RT	806.59	801.53	4.10	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6566-S4	629+52.61	101.87' RT	807.67	802.32	4.39	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6572-S4	633+07.86	101.87' RT	807.80	802.51	4.33	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6577-S4	635+00.30	101.87' RT	806.94	801.55	4.43	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6582-S4	638+02.47	101.87' RT	805.40	800.02	4.42	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6592-S4	641+04.70	101.87' RT	803.86	798.49	4.41	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6597-S4	644+37.12	101.87' RT	802.16	796.82	4.38	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6602-S4	647+79.61	101.87' RT	800.42	795.11	4.35	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6612-S4	651+12.04	101.87' RT	798.73	793.47	4.30	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6617-S4	654+09.50	101.87' RT	797.63	792.33	4.34	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6619-S4	653+66.76	101.87' RT	797.43	792.45	4.02	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6627-S4	656+94.48	101.87' RT	797.01	791.22	4.83	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6632-S4	659+94.49	101.87' RT	795.44	790.08	4.40	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6641-S4	662+94.49	96.69' RT	794.01	789.15	3.90	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
	R/L SB	6693-S4	670+47.09	89.87' RT	793.23	787.67	4.60	–	--	–	–	–	--	–	1	–	–	–	1	--	--	--
						STAGE 4A SUBTOTALS		0	0	0	0	0	0	0	16	0	0	0	16	0	0	0
						STAGE 4 SUBTOTALS		0	1	0	0	0	0	2	45	0	1	1	31	3	0	0
						1130-64-72 TOTALS		8	13	2	9	4	3	22	194	5	10	4	146	24	17	4

3

3

Addendum No. 03
ID 1130-64-72
Revised Sheet 924
December 5, 2024

STORM SEWER PIPES

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	522.0415 CULVERT PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0442 CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	522.2414 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF
	6438-S2	RS_31	786.83	786.81	0.0034	--	--	--	--	--	--	–	--	--	--	–	–	6	--	--
	6441-S2	6446A-S2	787.30	787.11	0.0041	--	--	--	--	--	--	–	--	--	--	–	--	45	--	--
	6446A-S2	6003T-S2	787.11	786.86	0.0040	--	--	--	--	--	--	–	--	--	--	–	--	63	–	--
	6480-S2	RS_30-S2	790.21	790.04	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	58	–	--
3	6482-S2	6480-S2	790.73	790.71	0.0030	--	–	--	--	--	--	–	--	--	--	–	6	–	–	--
	6485-S3	6480-S2	790.55	790.21	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	111	–	--
	6486-S2	6497-S2	792.53	792.32	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	70	–	--
	6492-S2	6493C-S2	793.39	793.00	0.0025	--	--	--	--	--	--	–	--	--	--	–	--	–	–	156
	6493C-S2	6495-S2	793.00	792.64	0.0025	--	--	--	--	--	--	–	--	--	--	–	--	–	–	145
	6493DT-S2	6493C-S2	794.63	794.50	0.0132	--	--	--	--	--	--	10	–	--	--	–	--	--	–	--
	6493-S2	6492-S2	793.79	793.39	0.0025	--	--	--	--	--	--	–	--	--	--	--	–	–	–	159
	6495-S2	6496A-S2	792.64	792.24	0.0025	--	--	--	--	--	--	–	--	--	--	–	--	--	--	--
	6496A-S2	6497-S2	792.24	791.91	0.0025	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6497-S2	6496-S1	791.91	791.88	0.0024	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6499A-S2	6499-S2	794.51	794.14	0.0025	--	--	--	--	--	--	–	--	--	150	–	–	–	–	--
	6499-S2	6493-S2	794.14	793.79	0.0025	--	--	--	--	--	--	–	--	--	--	--	–	–	–	140
	6501-S2	6499-S2	795.71	795.64	0.0086	--	--	--	--	--	--	8	–	--	–	–	–	--	–	--
	6502-S2	6499-S2	798.90	796.41	0.0445	--	--	--	--	--	--	56	–	--	–	–	–	--	–	--
	6504-S2	6499A-S2	794.89	794.51	0.0025	--	--	--	--	--	--	–	--	--	153	–	--	–	–	--
	6505A-S2	6505-S2	796.11	795.65	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6505-S2	6504-S2	795.65	794.90	0.0025	--	--	--	--	--	--	–	--	--	--	--	–	–	–	301
	6507-S2	6505-S2	795.88	795.65	0.0036	--	--	--	--	--	--	–	--	--	--	–	--	–	–	64
	6515-S2	6507-S2	796.98	795.88	0.0036	--	--	--	--	--	--	–	--	--	--	–	--	–	–	310
	6517-S2	6518-S2	797.19	797.10	0.0035	--	--	--	--	--	--	–	--	--	--	–	--	–	–	25
	6518-S2	6515-S2	797.10	796.98	0.0035	--	--	--	--	--	--	–	--	--	--	–	--	–	–	34
	6519-S2	6517-S2	799.69	799.63	0.0046	--	--	--	--	--	--	–	--	--	--	--	14	--	–	--
	6520-S2	6505A-S2	796.56	796.11	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	--	--	--
	6524-S2	6520-S2	796.66	796.56	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6525-S2	6524-S2	796.74	796.66	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6534-S2	RS_34-S2	798.69	798.02	0.0039	--	--	--	--	--	--	–	--	--	--	–	--	–	–	170
	6540-S2	RS_25-S2	798.30	798.27	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	–	–	--
3	6540T-S2	RS_28-S2	798.27	798.24	0.0050	--	--	--	--	--	--	8	--	--	--	–	--	–	--	--
	6541-S2	6542-S2	802.74	802.54	0.0179	--	--	--	--	--	--	–	--	--	--	–	--	11	–	--
	6542-S2	6546-S2 3	802.04	800.36	0.0106	--	--	--	--	--	--	–	--	--	--	–	--	–	158	--
	6544-S2	6540T-S2	798.70	798.30	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	–	–	--
	6545-S2	6544-S2	799.15	798.70	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	–	–	--
	6546-S2	6534-S2	800.36	799.19	0.0094	--	--	--	--	--	--	–	--	--	--	–	--	–	125	--
	6547-S2	6546-S2	800.92	800.87	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6550-S2	6545-S2	799.60	799.15	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	--
	6554-S2	6555-S2	801.25	801.16	0.0048	--	--	--	--	--	--	–	--	--	--	–	19	–	–	--
	6555-S2	6550-S2	801.16	800.10	0.0156	--	--	--	--	--	--	–	--	--	--	--	68	--	–	--
	6556-S2	6550-S2	800.19	799.60	0.0035	--	--	--	--	--	--	–	--	--	--	–	--	168	–	--
	6560-S2	6556-S2	800.79	800.19	0.0045	--	--	--	--	--	--	–	133	--	--	–	–	–	–	--
	6561-S2	6560-S2	804.46	801.70	0.0407	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6565-S2	6560-S2	801.58	800.79	0.0040	--	--	--	--	--	--	–	197	--	--	–	–	–	–	--
	6568-S2	6565-S2	802.44	801.58	0.0087	--	--	--	--	--	--	–	99	--	--	--	–	--	–	--
	6570-S2	6575-S2	801.77	800.81	0.0050	--	--	--	--	--	--	–	191	--	--	–	–	–	–	--
	6571-S2	6570-S2	802.48	801.77	0.0072	--	--	--	--	--	--	–	99	--	--	–	–	--	–	--
	6575-S2	6579-S2	800.81	800.04	0.0051	--	--	--	--	--	--	–	150	--	--	–	–	–	–	--
	6576-S2	6575-S2	804.71	801.95	0.0408	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6579-S2	6580-S2	800.04	799.28	0.0051	--	--	--	--	--	--	–	150	--	--	--	–	--	–	--
	6580-S2	6585-S2	799.28	798.52	0.0051	--	--	--	--	--	--	–	150	--	--	–	–	–	–	--
	6581-S2	6580-S2	803.15	800.39	0.0408	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6585-S2	6590-S2	798.52	797.75	0.0051	--	--	--	--	--	--	–	150	--	--	–	–	–	–	--
	6590-S2	6594-S2	797.25	796.11	0.0051	--	--	--	--	--	--	–	--	227	--	–	–	–	–	--
	6591-S2	6590-S2	801.59	798.83	0.0408	--	--	--	--	--	--	68	–	--	--	--	–	--	–	--

STORM SEWER PIPES CONTINUED

608.2414 608.2419 608.2424 608.2429

STORM SEWER PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL CLASS HE-IV

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	14X23-INCH LF	19X30-INCH LF	24X38-INCH LF	29X45-INCH LF	COMMENTS
	6438-S2	RS_31	786.83	786.81	0.0034	--	–	–	–	TO STA/OFF: SB 578+75.39, 27.15' RT
	6441-S2	6446A-S2	787.30	787.11	0.0041	--	–	–	–	
	6446A-S2	6003T-S2	787.11	786.86	0.0040	--	–	–	–	TO STA/OFF: SB 578+84.22, 24.78' RT
	6480-S2	RS_30-S2	790.21	790.04	0.0030	--	–	–	–	
3	6482-S2	6480-S2	790.73	790.71	0.0030	--	–	–	–	
	6485-S3	6480-S2	790.55	790.21	0.0030	--	–	–	–	
	6486-S2	6497-S2	792.53	792.32	0.0030	--	–	–	–	
	6492-S2	6493C-S2	793.39	793.00	0.0025	--	–	–	–	
	6493C-S2	6495-S2	793.00	792.64	0.0025	--	–	–	–	
	6493DT-S2	6493C-S2	794.63	794.50	0.0132	--	–	–	–	
	6493-S2	6492-S2	793.79	793.39	0.0025	--	–	–	–	
	6495-S2	6496A-S2	792.64	792.24	0.0025	--	–	–	159	
	6496A-S2	6497-S2	792.24	791.91	0.0025	--	–	–	133	
	6497-S2	6496-S1	791.91	791.88	0.0024	--	–	–	12	
	6499A-S2	6499-S2	794.51	794.14	0.0025	--	–	–	–	
	6499-S2	6493-S2	794.14	793.79	0.0025	--	–	–	–	
	6501-S2	6499-S2	795.71	795.64	0.0086	--	–	–	–	
	6502-S2	6499-S2	798.90	796.41	0.0445	--	–	–	–	
	6504-S2	6499A-S2	794.89	794.51	0.0025	--	–	–	–	
	6505A-S2	6505-S2	796.11	795.65	0.0030	--	–	–	155	
	6505-S2	6504-S2	795.65	794.90	0.0025	--	–	–	–	
	6507-S2	6505-S2	795.88	795.65	0.0036	--	–	–	–	
	6515-S2	6507-S2	796.98	795.88	0.0036	--	–	–	–	
	6517-S2	6518-S2	797.19	797.10	0.0035	--	–	–	–	
	6518-S2	6515-S2	797.10	796.98	0.0035	--	–	–	–	
	6519-S2	6517-S2	799.69	799.63	0.0046	--	–	–	–	
	6520-S2	6505A-S2	796.56	796.11	0.0030	--	–	–	150	
	6524-S2	6520-S2	796.66	796.56	0.0030	--	–	–	34	
	6525-S2	6524-S2	796.74	796.66	0.0030	--	–	–	25	
	6534-S2	RS_34-S2	798.69	798.02	0.0039	--	–	–	–	
	6540-S2	RS_25-S2	798.30	798.27	0.0030	--	–	8	–	
3	6540T-S2	RS_28-S2	798.27	798.24	0.0050	--	–	–	–	TEMPORARY CONNECTION UNTIL PIPE 6540-RS_25 CAN BE BUILT
	6541-S2	6542-S2	802.74	802.54	0.0179	--	–	–	–	
3	6542-S2	6546-S2	802.04	800.36	0.0106	--	–	–	–	
	6544-S2	6540T-S2	798.70	798.30	0.0030	--	–	133	–	RECONNECT DOWNSTREAM END TO STRUCTURE 6540 IN STAGE 2B
	6545-S2	6544-S2	799.15	798.70	0.0030	--	–	151	–	
	6546-S2	6534-S2	800.36	799.19	0.0094	--	–	–	–	
	6547-S2	6546-S2	800.92	800.87	0.0030	--	–	19	–	
	6550-S2	6545-S2	799.60	799.15	0.0030	--	–	150	–	
	6554-S2	6555-S2	801.25	801.16	0.0048	--	–	–	–	
	6555-S2	6550-S2	801.16	800.10	0.0156	--	–	–	–	
	6556-S2	6550-S2	800.19	799.60	0.0035	--	–	–	–	
	6560-S2	6556-S2	800.79	800.19	0.0045	--	–	–	–	
	6561-S2	6560-S2	804.46	801.70	0.0407	--	–	–	–	
	6565-S2	6560-S2	801.58	800.79	0.0040	--	–	–	–	
	6568-S2	6565-S2	802.44	801.58	0.0087	--	–	–	–	
	6570-S2	6575-S2	801.77	800.81	0.0050	--	–	–	–	
	6571-S2	6570-S2	802.48	801.77	0.0072	--	–	–	–	
	6575-S2	6579-S2	800.81	800.04	0.0051	--	–	–	–	
	6576-S2	6575-S2	804.71	801.95	0.0408	--	–	–	–	
	6579-S2	6580-S2	800.04	799.28	0.0051	--	–	–	–	
	6580-S2	6585-S2	799.28	798.52	0.0051	--	–	–	–	
	6581-S2	6580-S2	803.15	800.39	0.0408	--	–	–	–	
	6585-S2	6590-S2	798.52	797.75	0.0051	--	–	–	–	
	6590-S2	6594-S2	797.25	796.11	0.0051	--	–	–	–	
	6591-S2	6590-S2	801.59	798.83	0.0408	--	–	–	–	

Addendum No. 03
ID 1130-64-72
Revised Sheet 925
December 5, 2024

Addendum No. 03
ID 1130-64-72
Revised Sheet 926
December 5, 2024

STORM SEWER PIPES

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	522.0415 CULVERT PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0442 CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	522.2414 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF
	6594-S2	6595-S2	796.10	795.58	0.0051	--	--	--	--	--	--	–	--	104	--	–	–	–	–	--
	6595-S2	6599-S2	795.58	794.72	0.0050	--	--	--	--	--	--	–	--	170	--	–	–	–	–	--
	6596-S2	6595-S2	799.88	797.12	0.0407	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6599-S2	6600-S2	794.72	793.87	0.0050	--	--	--	--	--	--	–	--	170	--	–	–	–	–	--
	6600-S2	6605-S2	793.87	793.04	0.0050	--	--	--	--	--	--	–	--	165	--	--	--	--	–	--
	6601-S2	6600-S2	798.11	794.87	0.0479	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6605-S2	6610-S2	793.04	792.21	0.0050	--	--	--	--	--	--	–	--	165	--	–	–	–	–	--
	6610-S2	6614-S2	791.71	791.14	0.0038	--	--	--	--	--	--	–	--	--	150	–	–	–	–	--
	6611-S2	6610-S2	796.39	793.21	0.0470	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6614-S2	6615-S2	791.14	790.58	0.0038	--	--	--	--	--	--	–	--	--	146	–	–	--	–	--
	6615-S2	6620-S2	790.58	790.02	0.0038	--	--	--	--	--	--	–	--	--	144	–	–	–	–	--
	6616-S2	6615-S2	793.34	792.29	0.0155	--	--	--	--	--	--	68	–	--	–	–	–	--	–	--
	6620-S2	6625-S2	790.02	789.48	0.0038	--	--	--	--	--	--	–	--	--	140	–	–	–	–	--
	6625-S2	6629-S2	789.48	788.91	0.0038	--	--	--	--	--	--	–	--	--	--	–	--	–	–	150
	6626-S2	6625-S2	791.19	790.98	0.0031	--	--	--	--	--	--	–	--	--	--	--	68	--	–	--
	6629-S2	6634-S2	788.91	788.69	0.0038	--	--	--	--	--	--	–	--	--	--	–	--	–	–	56
	6630-S2	6635-S2	788.33	787.88	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	150
	6631-S2	6630-S2	790.04	789.83	0.0031	--	--	--	--	--	--	–	--	--	--	–	68	–	–	--
	6634-S2	6630-S2	788.69	788.33	0.0038	--	--	--	--	--	--	–	--	--	--	–	--	–	–	95
	6635-S2	6640-S2	787.88	787.43	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	–	–	150
	6639-S2	6646-S2	788.83	788.68	0.0030	--	--	--	--	--	--	–	--	--	--	–	50	–	–	--
	6640-S2	6646-S2	787.43	787.18	0.0040	--	--	--	--	--	--	–	--	--	--	–	--	–	–	61
	6644-S3	6640-S2	788.24	787.43	0.0031	--	--	--	--	--	--	–	--	--	--	–	--	264	–	--
	6645A-S2	6645B-S2	787.52	787.24	0.0252	--	11	--	--	--	--	–	--	--	--	–	--	--	--	--
	6645C-S2	6645D-S2	787.53	787.22	0.0250	--	12	--	--	--	--	–	–	–	--	--	–	--	–	--
	6646-S2	6645-S2	787.18	787.09	0.0036	--	--	--	--	--	--	–	--	--	--	–	--	–	–	27
	6649-S2	6655A-S2	786.92	786.81	0.0042	--	--	--	--	--	--	–	--	--	--	–	--	--	26	--
	6651-S2	6652-S2	787.16	787.09	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	25	–	--
	6652-S2	6654-S2	787.09	786.90	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	62	–	--
	6653-S2	6654-S2	786.95	786.90	0.0055	--	--	--	--	--	--	–	--	--	--	--	–	–	–	8
	6654-S2	6664-S2	786.90	786.73	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	–	–	56
	6655A-S2	6655-S2	786.81	786.75	0.0042	--	--	--	--	--	--	–	--	--	--	–	--	–	13	--
	6655B-S2	6655-S2	787.92	787.75	0.0030	--	--	--	--	--	--	–	--	--	--	–	56	–	–	--
	6655-S2	6660-S2	786.75	786.50	0.0046	--	--	--	--	--	--	–	--	--	--	–	--	–	56	--
	6661-S2	6662-S2	787.49	787.41	0.0030	--	--	--	--	--	--	–	--	--	--	--	–	25	–	--
	6661T-S2	6661-S2	788.31	788.24	0.0090	--	--	--	--	--	7	–	–	--	–	–	–	--	–	--
	6662-S2	6663-S2	787.41	787.35	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	22	–	--
	6663-S2	6664-S2	787.35	787.23	0.0030	--	--	--	--	--	--	–	--	--	--	–	--	40	–	--
	6664T-S2	6664-S2	788.30	788.23	0.0067	--	--	--	--	--	--	11	–	--	--	–	–	--	–	--
	6691-S2	RS_36-S2	786.83	786.70	0.0065	--	--	--	--	--	--	–	--	--	--	--	–	20	–	--
	6692-S2	6691-S2	787.62	787.33	0.0052	--	--	--	--	--	--	–	--	--	--	–	56	–	–	--
	6694-S2	6699-S2	788.31	788.04	0.0096	--	--	--	--	--	--	–	--	--	--	–	28	–	–	--
	6695-S2	6691-S2	788.20	786.83	0.0050	--	--	--	--	--	--	–	--	--	--	–	--	273	–	--
	6711-S2	6710-S2	807.39	806.75	0.0200	--	--	--	--	--	32	–	–	--	–	–	–	--	–	--
	6712-S2	6711-S2	807.91	807.39	0.0200	--	--	--	--	--	26	--	–	--	--	--	–	--	–	--
	RS_24-S2	6525-S2	797.30	796.74	0.0054	--	--	--	--	--	--	–	--	--	--	–	--	--	–	--
	RS_30-S2	EX 6478	790.04	790.01	0.0028	--	--	--	--	--	--	–	--	--	--	–	--	8	–	--
	RS_32-S2	6517-S2	797.51	797.19	0.0035	--	--	--	--	--	--	–	--	--	--	–	--	--	–	93
	6548-S2	6547-S2	801.06	800.92	0.0030	--	--	–	--	--	–	--	–	--	--	--	–	3 --	–	--
				STAGE 2 SUBTOTALS		0	23	53	0	26	282	658	1448	1001	889	89	812	1680	378	2350
1000	1130-64-72 STAGE 3																			
	--	6436-S3	788.68	788.08	0.1000	--	--	--	--	--	6	–	–	--	–	–	–	--	–	--
	--	6437-S3	787.95	787.67	0.0538	--	--	–	--	--	21	--	–	--	--	--	--	--	–	--
	6407-S3	6408-S2	791.14	791.10	0.0031	--	--	--	--	--	12	–	--	--	--	–	--	--	--	--
	6412B-S3	6412A-S2	790.87	790.81	0.0100	--	--	--	--	--	--	–	--	--	--	6	--	–	–	--
	6413-S3	6412-S2	788.69	788.64	0.0041	--	--	–	--	--	–	--	–	--	--	12	–	--	–	--

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PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 926	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01

PLOT DATE : 10/16/2024 5:13 PM PLOT BY : ELIZABETH REGIER PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

Addendum No. 03
ID 1130-64-72
Revised Sheet 928
December 5, 2024

STORM SEWER PIPES

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	522.0415 CULVERT PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0442 CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	522.2414 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF
	6426-S3	6427-S3	786.44	786.40	0.0030	--	–	--	--	--	--	–	--	--	--	–	15	–	--	--
	6427A-S3	6427-S3	786.71	786.40	0.0088	--	–	--	--	--	--	–	--	--	–	–	36	–	--	–
	6427-S3	6425-S3	786.32	786.27	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6431A-S3	6430A-S2	787.45	787.43	0.0035	--	--	--	--	--	--	–	--	--	--	–	7	–	–	--
	6432A-S3	6432B-S3	787.74	787.72	0.0030	--	--	--	--	--	--	–	--	--	--	6	--	–	–	--
	6432AT-S3	6432A-S3	787.83	787.73	0.0100	--	--	--	--	--	10	–	--	--	--	–	--	–	--	--
	6432B-S3	6431A-S3	787.72	787.70	0.0030	--	--	--	--	--	--	–	--	--	--	6	--	–	–	--
	6432-S3	6427A-S3	787.22	786.71	0.0088	--	--	--	--	--	--	–	--	--	--	–	58	–	--	--
	6433B-S3	6436-S3	787.62	787.60	0.0030	--	–	--	--	--	--	–	--	--	–	6	--	–	--	–
	6433-S3	6432-S3	787.26	787.22	0.0030	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6434-S3	6433-S3	787.33	787.26	0.0030	--	–	--	--	--	--	–	--	--	--	–	25	–	--	--
	6435A-S3	6434A-S2	787.79	787.74	0.0041	--	--	--	--	--	--	–	--	--	--	–	12	–	--	--
	6435-S3	6434-S3	787.45	787.33	0.0030	--	–	--	--	--	--	–	--	--	--	–	40	–	--	--
	6436-S3	6432-S3	787.35	787.22	0.0032	--	–	--	--	--	--	–	--	--	--	–	40	–	--	--
	6437-S3	6436-S3	787.42	787.35	0.0030	--	–	--	--	--	--	–	--	--	--	–	25	–	--	--
	6442-S2	6443-S3	789.39	789.36	0.0030	--	–	--	--	--	--	–	--	--	--	12	--	–	–	--
	6443-S3	6445-S3	788.61	787.33	0.0043	--	–	--	--	--	--	–	--	--	--	–	--	300	–	--
	6444-S3	6445-S3	788.12	788.08	0.0030	--	–	--	--	--	--	–	--	--	--	12	--	–	–	--
	6445-S3	6446-S3	787.33	786.82	0.0043	--	–	--	--	--	--	–	--	--	--	–	--	121	–	--
	6446-S3	RS_79-S3	786.82	786.77	0.0041	--	–	--	--	--	--	–	--	--	--	–	--	11	–	--
	6481A-S3	6482-S2	791.00	790.98	0.0030	--	–	--	--	--	--	–	--	--	–	6	--	–	--	–
	6481-S3	6481A-S3	791.02	791.00	0.0030	--	--	--	--	--	--	–	--	--	--	6	--	--	--	--
3	~~6482-S2~~	~~6480-S2~~	~~790.73~~	~~790.71~~	~~0.0030~~	--	--	--	--	--	--	–	--	--	--	--	0	--	--	--
	6484-S3	6485-S2	791.08	791.04	0.0030	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6487-S3	6486-S2	798.08	793.03	0.0041	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6491-S3	6492-S2	794.99	794.89	0.0082	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6494-S3	6495-S2	794.24	794.14	0.0082	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6502A-S3	6501-S2	796.14	795.96	0.0300	--	–	--	--	--	6	–	--	--	--	–	--	–	--	–
	6503-S3	6502A-S3	796.33	796.14	0.0300	--	--	--	--	--	6	–	--	--	--	–	--	–	--	--
	6508-S3	6505-S2	797.18	797.15	0.0030	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6521-S3	6520-S2	797.03	796.98	0.0041	--	–	--	--	--	--	–	--	--	--	–	--	12	–	--
	6522-S3	6521-S3	797.63	797.53	0.0030	--	–	--	--	--	--	–	--	--	--	–	34	–	--	--
	6523-S3	6522-S3	797.71	797.63	0.0030	--	–	--	--	--	--	–	--	--	--	–	25	–	--	--
	6524A-S3	6524-S2	797.85	797.83	0.0030	--	–	--	--	--	--	–	--	--	–	6	--	–	--	–
	6539A-S3	6540-S2	799.07	799.05	0.0036	--	–	--	--	--	--	–	--	--	–	7	--	–	--	–
	6539-S3	6539A-S3	799.10	799.07	0.0036	--	--	--	--	--	--	–	--	--	--	7	--	--	--	--
	6543-S3	6544-S2	799.30	799.20	0.0082	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6553-S3	6550-S2	799.64	799.60	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	12	–	--
	6556A-S3	6560-S2	801.31	801.29	0.0030	--	–	--	--	--	--	–	--	--	–	6	--	–	--	–
	6563-S3	6556A-S3	801.33	801.31	0.0030	--	--	--	--	--	--	6	--	--	--	–	--	--	–	--
	6567-S3	6565-S2	802.11	802.08	0.0030	--	–	--	--	--	--	12	--	--	--	–	--	–	--	--
	6573-S3	6570-S2	802.30	802.27	0.0030	--	–	--	--	--	--	12	--	--	–	–	--	–	--	--
	6578-S3	6575-S2	801.35	801.31	0.0030	--	–	--	--	--	--	12	--	--	--	–	--	–	--	--
	6583-S3	6580-S2	799.81	799.78	0.0030	--	–	--	--	--	--	12	--	--	--	–	--	–	--	--
	6593-S3	6590-S2	798.29	798.25	0.0030	--	–	--	--	--	--	12	--	--	–	–	--	–	--	--
	6598-S3	6595-S2	796.61	796.58	0.0030	--	–	--	--	--	--	12	--	--	–	–	--	–	--	--
	6603-S3	6600-S2	794.40	794.37	0.0030	--	–	--	--	--	--	–	12	--	–	–	--	–	--	--
	6613-S3	6610-S2	792.76	792.71	0.0037	--	–	--	--	--	--	–	12	--	–	–	--	–	--	--
	6618-S3	6615-S2	792.12	792.08	0.0033	--	–	--	--	--	--	12	--	--	–	–	--	–	--	--
	6628-S3	6625-S2	790.52	790.48	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	12	–	--
	6629A-S3	6629-S2	791.20	791.18	0.0038	--	–	--	--	--	--	–	--	--	–	7	--	–	--	–
	6633-S3	6630-S2	789.37	789.33	0.0033	--	–	--	--	--	--	–	--	--	--	–	--	12	–	--
	6642-S3	6640-S2	788.97	788.93	0.0030	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6643A-S3	6644-S3	789.00	788.99	0.0030	--	–	--	--	--	--	–	--	--	--	6	--	–	--	–
	6643-S3	6643A-S3	789.02	789.00	0.0030	--	--	--	--	--	--	–	--	--	--	6	--	--	–	--

STORM SEWER PIPES CONTINUED

608.2414 608.2419 608.2424 608.2429

STORM SEWER PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL CLASS HE-IV

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	14X23-INCH LF	19X30-INCH LF	24X38-INCH LF	29X45-INCH LF	COMMENTS
	6426-S3	6427-S3	786.44	786.40	0.0030	--	–	–	–	
	6427A-S3	6427-S3	786.71	786.40	0.0088	--	–	–	–	
	6427-S3	6425-S3	786.32	786.27	0.0030	--	15	–	–	
	6431A-S3	6430A-S2	787.45	787.43	0.0035	--	–	–	–	
	6432A-S3	6432B-S3	787.74	787.72	0.0030	--	–	–	–	
	6432AT-S3	6432A-S3	787.83	787.73	0.0100	--	–	–	–	
	6432B-S3	6431A-S3	787.72	787.70	0.0030	--	–	–	–	
	6432-S3	6427A-S3	787.22	786.71	0.0088	--	–	–	–	
	6433B-S3	6436-S3	787.62	787.60	0.0030	--	–	–	–	
	6433-S3	6432-S3	787.26	787.22	0.0030	--	–	–	–	
	6434-S3	6433-S3	787.33	787.26	0.0030	--	–	–	–	
	6435A-S3	6434A-S2	787.79	787.74	0.0041	--	–	–	–	
	6435-S3	6434-S3	787.45	787.33	0.0030	--	–	–	–	
	6436-S3	6432-S3	787.35	787.22	0.0032	--	–	–	–	
	6437-S3	6436-S3	787.42	787.35	0.0030	--	–	–	–	
	6442-S2	6443-S3	789.39	789.36	0.0030	--	–	–	–	
	6443-S3	6445-S3	788.61	787.33	0.0043	--	–	–	–	
	6444-S3	6445-S3	788.12	788.08	0.0030	--	–	–	–	
	6445-S3	6446-S3	787.33	786.82	0.0043	--	–	–	–	
	6446-S3	RS_79-S3	786.82	786.77	0.0041	--	–	–	–	
	6481A-S3	6482-S2	791.00	790.98	0.0030	--	–	–	–	3
3	6481-S3	6481A-S3	791.02	791.00	0.0030	--	–	–	–	
	~~6482-S2~~	~~6480-S2~~	~~790.73~~	~~790.71~~	~~0.0030~~	--	–	–	–	
	6484-S3	6485-S2	791.08	791.04	0.0030	--	–	–	–	
	6487-S3	6486-S2	798.08	793.03	0.0041	--	–	–	–	
	6491-S3	6492-S2	794.99	794.89	0.0082	--	–	–	–	
	6494-S3	6495-S2	794.24	794.14	0.0082	--	–	–	–	
	6502A-S3	6501-S2	796.14	795.96	0.0300	--	–	–	–	
	6503-S3	6502A-S3	796.33	796.14	0.0300	--	–	–	–	
	6508-S3	6505-S2	797.18	797.15	0.0030	--	–	–	–	
	6521-S3	6520-S2	797.03	796.98	0.0041	--	–	–	–	
	6522-S3	6521-S3	797.63	797.53	0.0030	--	–	–	–	
	6523-S3	6522-S3	797.71	797.63	0.0030	--	–	–	–	
	6524A-S3	6524-S2	797.85	797.83	0.0030	--	–	–	–	
	6539A-S3	6540-S2	799.07	799.05	0.0036	--	–	–	–	
	6539-S3	6539A-S3	799.10	799.07	0.0036	--	–	–	–	
	6543-S3	6544-S2	799.30	799.20	0.0082	--	–	–	–	
	6553-S3	6550-S2	799.64	799.60	0.0030	--	–	–	–	
	6556A-S3	6560-S2	801.31	801.29	0.0030	--	–	–	–	
	6563-S3	6556A-S3	801.33	801.31	0.0030	--	–	–	–	
	6567-S3	6565-S2	802.11	802.08	0.0030	--	–	–	–	
	6573-S3	6570-S2	802.30	802.27	0.0030	--	–	–	–	
	6578-S3	6575-S2	801.35	801.31	0.0030	--	–	–	–	
	6583-S3	6580-S2	799.81	799.78	0.0030	--	–	–	–	
	6593-S3	6590-S2	798.29	798.25	0.0030	--	–	–	–	
	6598-S3	6595-S2	796.61	796.58	0.0030	--	–	–	–	
	6603-S3	6600-S2	794.40	794.37	0.0030	--	–	–	–	
	6613-S3	6610-S2	792.76	792.71	0.0037	--	–	–	–	
	6618-S3	6615-S2	792.12	792.08	0.0033	--	–	–	–	
	6628-S3	6625-S2	790.52	790.48	0.0030	--	–	–	–	
	6629A-S3	6629-S2	791.20	791.18	0.0038	--	–	–	–	
	6633-S3	6630-S2	789.37	789.33	0.0033	--	–	–	–	
	6642-S3	6640-S2	788.97	788.93	0.0030	--	–	–	–	
	6643A-S3	6644-S3	789.00	788.99	0.0030	--	–	–	–	
	6643-S3	6643A-S3	789.02	789.00	0.0030	--	–	–	–	

Addendum No. 03
ID 1130-64-72
Revised Sheet 929
December 5, 2024

Addendum No. 03
ID 1130-64-72
Revised Sheet 930
December 5, 2024

STORM SEWER PIPES

CATEGORY	FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	522.0415 CULVERT PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0442 CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	522.2414 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF
3	6666-S3	6667-S3	787.46	787.38	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	25	–	--
	6667-S3	6668-S3	787.38	787.32	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	23	–	--
	6668-S3	6665-S1	787.32	787.20	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	40	–	--
	6669A-S3	6668-S3	788.10	788.07	0.0050	--	–	--	--	--	6	–	--	--	--	–	--	–	--	–
	6669-S3	6667-S3	788.17	788.14	0.0050	--	–	--	--	--	--	–	--	--	--	6	--	–	–	--
	6690-S3	6691-S2	787.38	787.33	0.0041	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	6691A-S3	6690-S3	787.66	787.63	0.0030	--	–	--	--	--	--	–	--	--	–	11	--	–	--	–
	6696-S3	6695-S2	788.80	788.70	0.0082	--	–	--	--	--	--	–	--	--	--	–	12	–	--	--
	RS_77-S3	RS_78-S3	786.81	786.74	0.0034	--	–	--	--	--	--	–	--	--	–	–	--	19	--	--
	RS_82-S3	6446-S3	786.88	786.82	0.0040	--	--	--	--	--	--	–	--	--	--	–	--	17	–	--
	RS_83-S4	6407-S3	791.17	791.14	0.0030	--	--	--	--	--	10	–	--	--	--	–	--	--	--	--
	RS_84-S4	6413-S3	788.74	788.69	0.0052	--	--	--	--	--	--	–	--	--	--	10	--	–	--	--
	RS_88-S4	6553-S3	799.68	799.64	0.0041	--	--	--	--	--	--	–	--	--	--	–	--	10	–	--
	RS_89-S4	6563-S3	801.36	801.33	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_90-S4	6567-S3	802.14	802.11	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_91-S4	6573-S3	802.33	802.30	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_92-S4	6578-S3	801.38	801.35	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_93-S4	6583-S3	799.84	799.81	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_94-S4	6593-S3	798.32	798.29	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_95-S4	6598-S3	796.65	796.62	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_96-S4	6603-S3	794.93	794.90	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_97-S4	6613-S3	793.29	793.26	0.0031	--	--	--	--	--	--	10	--	--	--	–	--	--	--	--
	RS_98-S4	6618-S3	792.15	792.12	0.0031	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_99-S4	6628-S3	791.05	791.02	0.0030	--	--	--	--	--	--	–	--	--	--	–	10	–	--	--
	RS_100-S4	6633-S3	789.90	789.87	0.0031	--	–	--	--	--	--	–	--	--	–	–	10	–	--	--
	RS_101-S4	6642-S3	789.00	788.97	0.0030	--	–	--	--	--	--	–	--	--	–	–	10	–	--	--
	RS_104-S4	6690-S3	787.43	787.38	0.0052	--	--	–	--	--	–	--	–	--	--	--	10	--	–	--
				STAGE 3 SUBTOTALS		0	0	0	0	0	77	100	24	0	0	144	567	614	0	0
1000	1130-64-72 STAGE 4A																			
	6406-S4	RS_83-S4	791.35	791.17	0.0031	--	–	--	--	--	58	–	--	--	–	–	--	–	--	--
	6414-S4	RS_84-S4	789.04	788.74	0.0052	--	–	--	--	--	--	–	--	--	--	58	--	–	–	--
	6488T-S4	6489T-S4	792.89	792.33	0.0049	115	--	–	--	--	–	--	–	--	--	--	–	--	–	--
	6491A-S4	6491B-S4	792.24	792.14	0.0090	--	--	--	--	--	--	–	--	--	--	11	--	–	–	--
	6491C-S4	6491A-S4	792.58	792.24	0.0103	--	–	--	--	--	--	–	--	--	–	33	--	–	–	–
	6493A-S4	6493B-S4	793.62	793.56	0.0048	--	--	–	--	--	–	--	–	--	--	13	–	--	–	--
	6494A-S4	6494B-S4	791.55	791.47	0.0030	--	--	--	--	--	--	–	--	--	--	25	--	–	–	--
	6494B-S4	6494C-S4	791.47	791.45	0.0030	--	--	--	--	--	--	–	--	--	--	8	--	–	–	--
	6494D-S4	6494B-S4	791.55	791.47	0.0030	--	–	--	--	--	--	–	--	--	–	25	--	–	–	–
	6503A-S4	6503B-S4	794.22	794.15	0.0046	--	--	--	--	--	--	–	--	--	--	15	--	–	–	--
	6508A-S4	6508B-S4	795.18	795.12	0.0047	--	--	--	--	--	--	–	--	--	--	12	--	–	–	--
	6511-S4	6512-S4	796.22	795.82	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6512-S4	6513-S4	795.82	795.72	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6513-S4	6510-S4	795.72	795.70	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6514-S4	6513-S4	795.79	795.72	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6536-S4	6538-S4	798.91	798.60	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6538-S4	6537-S4	798.60	798.54	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	–	–	--
	6551-S4	6552-S4	801.03	800.42	0.0321	--	–	--	--	--	--	–	--	--	--	–	19	–	--	--
	6636-S4	6637-S4	789.86	789.78	0.0025	--	30	--	--	--	--	–	--	--	--	–	--	--	--	--
	6677-S4	6678-S4	787.29	787.21	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	25	–	--
	6678-S4	6679-S1	787.21	787.02	0.0030	--	–	--	--	--	--	–	--	--	--	–	--	62	–	--
	6684-S4	6685-S4	789.38	787.06	0.0200	--	–	--	--	--	--	–	116	--	--	–	--	–	–	--
	6697-S4	6698-S4	788.26	788.11	0.0093	--	–	--	--	--	--	–	--	--	--	–	15	–	--	--
	RS_78-S4	RS_80-S4	786.74	786.56	0.0034	--	–	--	--	--	--	–	--	--	–	–	--	55	--	--
	RS_80-S4	6430-S4	786.56	786.38	0.0034	--	--	--	--	--	--	–	--	--	--	–	--	54	–	--

3

Addendum No. 03
ID 1130-64-72
Revised Sheet 939
December 5, 2024

3

COVER PLATES

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.0225 COVER PLATES EACH	NOTES
1000	1130-64-72 STAGE 1A				
	R/L SB	EX 6726	2	--	REMOVE IN STAGE 4
	STAGE 1A SUBTOTALS		2	0	
1000	1130-64-72 STAGE 1B				
	R/L SB	6675-S1	2	--	REMOVE IN STAGE 4
	R/L SB	6679-S1	2	--	REMOVE IN STAGE 4
	STAGE 1B SUBTOTALS		4	0	
1000	1130-64-72 STAGE 1C				
	R/L SB	6496-S1	2	--	REMOVE IN STAGE 4
	R/L SB	6665-S1	2	--	REMOVE IN STAGE 4
	R/L SB	6670-S1	2	--	REMOVE IN STAGE 4
	STAGE 1C SUBTOTALS		6	0	
	STAGE 1 SUBTOTALS		12	0	
1000	1130-64-72 STAGE 2				
	R/L SB	6408-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6412A-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6412-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6430A-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6434A-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6438-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6480-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6482-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6485-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6486-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6492-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6492-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6493C-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6493-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6495-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6496A-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6497-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6499A-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6499-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6501-S2	2	--	REMOVE IN STAGE 3

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.0225 COVER PLATES EACH	NOTES
1000	1130-64-72 STAGE 2 CONT.				
	R/L SB	6504-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6505A-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6505-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6520-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6524-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6525-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6540T-S2	2	--	REMOVE IN STAGE 2B
	R/L SB	6540-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6544-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6545-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6556-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6565-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6568-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6570-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6571-S2	2	--	REMOVE IN STAGE 3
	R/L SB	6575-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6579-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6585-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6590-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6600-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6620-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6625-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6629-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6630-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6634-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6635-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6640-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6660-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6661-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6662-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6663-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6664-S2	2	–	REMOVE IN STAGE 3
	R/L SB	6691-S2	0	2	REMAIN IN PLACE FOR 1130-64-73
	R/L SB	6695-S2	0	2	REMAIN IN PLACE FOR 1130-64-73
	STAGE 2 SUBTOTALS		104	4	

3

3

3

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 939	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 5:13 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1" = 1'

Addendum No. 03
ID 1130-64-72
Revised Sheet 940
December 5, 2024

3

COVER PLATES

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.0225 COVER PLATES EACH	NOTES
1000	1130-64-72 STAGE 3				
	R/L SB	6407-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6412B-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6413-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6426-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6427A-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6427-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6432A-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6432B-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6432-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6433B-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6433-S3	2	--	REMOVE IN STAGE 2
	R/L SB	6434-S3	2	--	REMOVE IN STAGE 3
	R/L SB	6435A-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6436-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6437-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6443-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6445-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6446-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6481A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6481-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6484-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6487-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6491-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6494-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6502A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6503-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6508-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6521-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6522-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6523-S3	2	--	REMOVE IN STAGE 4

CATEGORY	ROADWAY	STRUCTURE ID	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.0225 COVER PLATES EACH	NOTES
1000	1130-64-72 STAGE 3 CONT.				
	R/L SB	6524A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6539A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6539-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6543-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6553-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6556A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6563-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6567-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6573-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6578-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6583-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6593-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6598-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6603-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6613-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6618-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6628-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6629A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6633-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6642-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6643A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6643-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6666-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6667-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6668-S3	2	--	REMOVE IN STAGE 4
	R/L SB	6669A-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6669-S3	1	--	REMOVE IN STAGE 4
	R/L SB	6690-S3	0	2	REMAIN IN PLACE FOR 1130-64-73
	R/L SB	6696-S3	0	2	REMAIN IN PLACE FOR 1130-64-73
		STAGE 3 SUBTOTALS	102	4	
			3		
		1130-64-72 TOTALS	218	8	

RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	TO	PROPOSED RIM ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.0275 STRUCTURE LIDS EACH	NOTES
1000	1130-64-72 STAGE 1A												
	ASB	EX 6721	220+03.75	00.49' RT	805.73		805.87	--	1	--	--	--	EST. 3-FT DIAMETER**
	ASB	EX 6722	220+04.45	12.93' RT	805.99		806.31	--	1	--	--	--	EST. 3-FT DIAMETER**
	STAGE 1A SUBTOTALS							0	2	0	0	0	
	STAGE 1 SUBTOTALS							0	2	0	0	0	
1000	1130-64-72 STAGE 2												
	R/L SB	6496-S2	597+22.38	34.13' RT	795.67		798.07	1	--	--	--	--	
	R/L SB	EX 6323	616+91.07	42.55' LT	802.04		804.75	1	--	--	--	1	5-FT DIAMETER
	R/L SB	EX 6324	618+17.75	42.54' LT	802.49		805.28	1	--	--	--	1	5-FT DIAMETER
	R/L SB	EX 6455	588+94.05	33.87' LT	792.31		793.72	1	--	--	--	1	5-FT DIAMETER
	R/L SB	EX 6458	589+62.22	33.87' LT	792.47		793.80	1	--	--	--	1	5-FT DIAMETER
	R/L SB	EX 6459	589+24.45	33.87' LT	792.36		793.74	1	--	--	--	1	5-FT DIAMETER
	STAGE 2 SUBTOTALS							6	0	0	0	5	
1000	1130-64-72 STAGE 3												
	R/L SB	6408-S2	571+00.00	21.87' RT	793.60		798.08	1	--	--	--	--	
	R/L SB	6412A-S2	572+29.06	21.87' RT	792.02		795.64	1	--	--	--	--	
	R/L SB	6412-S2	573+00.00	21.87' RT	791.15		794.55	1	--	--	--	--	
	R/L SB	6430A-S2	576+30.00	15.00' RT	790.14		791.94	1	--	--	--	--	
	R/L SB	6434A-S2	574+30.64	21.87' RT	790.49		792.99	1	--	--	--	--	
	R/L SB	6438-S2	578+78.24	21.87' RT	790.08		792.11	1	--	--	--	--	
	R/L SB	6480-S2	593+00.00	16.00' RT	793.45		795.77	1	--	--	--	--	
	R/L SB	6482-S2	593+00.00	21.87' RT	793.43		795.61	1	--	--	--	--	
	R/L SB	6485-S2	594+11.70	21.87' RT	793.79		795.83	1	--	--	--	--	
	R/L SB	6486-S2	596+52.30	21.87' RT	795.40		797.10	--	--	1	--	--	
	R/L SB	6492-S2	603+18.55	21.87' RT	797.72		800.71	1	--	--	--	--	
	R/L SB	6493C-S2	601+62.23	16.00' RT	797.34		800.09	1	--	--	--	--	
	R/L SB	6493-S2	604+78.86	21.88' RT	798.19		801.57	1	--	--	--	--	
	R/L SB	6495-S2	600+16.27	21.87' RT	796.97		799.07	1	--	--	--	--	
	R/L SB	6496A-S2	598+56.22	16.00' RT	796.03		798.43	1	--	--	--	--	
	R/L SB	6497-S2	597+22.64	21.87' RT	795.70		797.48	1	--	--	--	--	
	R/L SB	6499A-S2	607+69.49	16.00' RT	800.49		803.35	1	--	--	--	--	
	R/L SB	6499-S2	606+19.39	14.00' RT	799.84		802.66	1	--	--	--	--	
	R/L SB	6501-S2	606+20.82	21.87' RT	798.42		802.34	1	--	--	--	--	
	R/L SB	6504-S2	609+23.55	16.00' RT	800.92		803.79	1	--	--	--	--	
	R/L SB	6505A-S2	613+81.89	16.00' RT	800.69		802.44	--	--	1	--	--	
	R/L SB	6505-S2	612+25.77	21.87' RT	799.98		802.98	1	--	--	--	--	
	R/L SB	6520-S2	615+32.73	21.87' RT	800.36		801.85	--	--	1	--	--	
	R/L SB	6524-S2	615+66.57	21.87' RT	800.46		801.84	--	--	1	--	--	
	R/L SB	6525-S2	615+91.59	21.87' RT	800.52		801.85	--	--	1	--	--	
	R/L SB	6540-S2	620+16.10	21.87' RT	801.62		803.70	1	--	--	--	--	
	R/L SB	6544-S2	621+49.99	21.87' RT	802.02		804.49	1	--	--	--	--	
	R/L SB	6545-S2	623+01.58	21.87' RT	804.05		805.38	--	--	1	--	--	
	R/L SB	6550-S2*	624+52.68	21.87' RT	804.54		806.27	1	--	--	--	--	
	R/L SB	6556-S2	626+21.29	21.86' RT	804.20		807.26	1	--	--	--	--	

Addendum No. 03
ID 1130-64-72
Revised Sheet 941
December 5, 2024

Addendum No. 03
ID 1130-64-72
Revised Sheet 942
December 5, 2024

RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	TO	PROPOSED RIM ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.0275 STRUCTURE LIDS EACH	NOTES
	R/L SB	6560-S2*	627+54.88	21.87' RT	806.38		808.05	1	–	–	--	–	
	R/L SB	6565-S2	629+52.64	21.87' RT	806.03		809.07	1	–	–	--	–	
	R/L SB	6568-S2	630+52.04	21.86' RT	806.40		809.33	1	–	–	--	–	
	R/L SB	6570-S2	633+07.81	21.87' RT	806.48		809.16	1	–	–	--	–	
	R/L SB	6571-S2	632+08.17	21.87' RT	806.06		809.37	1	–	–	--	–	
	R/L SB	6575-S2	635+00.30	21.87' RT	805.73		808.30	1	–	–	--	–	
	R/L SB	6579-S2	636+51.40	21.87' RT	804.85		807.52	1	–	–	--	–	
	R/L SB	6580-S2	638+02.50	21.87' RT	803.96		806.74	1	–	–	--	–	
	R/L SB	6585-S2	639+53.59	21.90' RT	803.04		805.96	1	–	–	--	–	
	R/L SB	6590-S2	641+04.71	21.87' RT	802.18		805.18	1	–	–	--	–	
	R/L SB	6594-S2	643+32.60	21.87' RT	801.24		804.00	1	–	–	--	–	
	R/L SB	6595-S2*	644+37.12	21.87' RT	802.06		803.47	--	–	1	--	–	
	R/L SB	6599-S2	646+08.38	21.87' RT	799.33		802.58	1	–	–	--	–	
	R/L SB	6600-S2	647+79.61	21.87' RT	798.37		801.70	1	–	–	--	–	
	R/L SB	6605-S2	649+45.84	21.87' RT	797.43		800.84	1	–	–	--	–	
	R/L SB	6610-S2*	651+12.00	21.87' RT	798.11		799.98	1	–	–	--	–	
	R/L SB	6614-S2	652+63.14	21.87' RT	795.90		799.20	1	–	–	--	–	
	R/L SB	6615-S2	654+10.04	21.87' RT	796.65		798.64	1	–	–	--	–	
	R/L SB	6620-S2	655+54.50	21.87' RT	794.36		798.20	1	–	–	--	–	
	R/L SB	6625-S2	656+94.49	21.87' RT	793.82		797.48	1	–	–	--	–	
	R/L SB	6629-S2	658+44.42	21.87' RT	793.46		796.71	1	–	–	--	–	
	R/L SB	6630-S2	659+94.49	21.87' RT	792.67		795.93	1	–	–	--	–	
	R/L SB	6634-S2	659+00.00	15.07' RT	795.28		796.61	--	–	1	--	–	3
	R/L SB	6635-S2	661+44.50	21.87' RT	792.22		795.16	1	–	–	--	–	
	R/L SB	6640-S2	662+94.53	21.87' RT	791.77		794.38	1	–	–	--	–	
	R/L SB	6660-S2	665+97.49	21.87' RT	790.30		792.84	1	–	–	--	–	
	R/L SB	6661-S2	667+87.12	21.88' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6662-S2	667+62.12	21.86' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6663-S2	667+39.64	21.87' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6664-S2	667+00.00	21.87' RT	791.07		792.55	--	–	1	--	–	3
	R/L SB	EX 6328	617+50.71	41.93' RT	800.99		803.05	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6329	618+82.61	41.88' RT	801.38		803.87	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6451	586+97.96	21.87' RT	792.17		794.51	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6453	588+74.46	21.87' RT	792.62		793.93	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6454	588+94.07	21.87' RT	792.59		793.92	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6456	588+94.07	28.00' RT	792.15		793.39	--	1	–	--	1	3-FT DIAMETER
	R/L SB	EX 6470	589+24.48	21.87' RT	792.49		793.94	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6472	589+62.22	21.87' RT	792.60		794.00	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6475	589+62.23	15.00' RT	792.62		794.20	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6477	592+33.71	21.87' RT	793.37		795.34	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6478	592+33.69	15.80' RT	793.43	3	795.50	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6527	617+05.65	21.87' RT	800.20		802.05	--	–	1	--	1	6-FT DIAMETER
	ASB	EX 6721	220+03.75	00.49' RT	805.87		805.83	--	1	--	--	–	EST. 3-FT DIAMETER**
	ASB	EX 6722	220+04.45	12.93' RT	806.31		806.28	--	1	--	--	–	EST. 3-FT DIAMETER**
STAGE 3 SUBTOTALS								58	3	13	0	12	

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RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	PROPOSED RIM TO ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.0275 STRUCTURE LIDS EACH	NOTES
1000	1130-64-72 STAGE 4											
	R/L SB	6407-S3	571+00.00	34.13' RT	793.72	797.82	1	–	–	--	–	
	R/L SB	6412B-S3	572+29.08	28.00' RT	793.90	795.23	--	–	–	1	–	
	R/L SB	6413-S3	573+00.00	34.13' RT	791.28	794.43	1	–	–	--	–	
	R/L SB	6426-S3	576+25.07	114.95' RT	789.67	791.00	--	--	1	--	–	
	R/L SB	6427A-S3	576+57.56	84.59' RT	789.61	791.56	1	–	–	--	–	
	R/L SB	6427-S3	576+40.03	115.94' RT	789.60	790.93	--	--	1	--	–	
	R/L SB	6432A-S3	576+30.01	34.13' RT	790.17	791.67	--	–	1	--	–	
	R/L SB	6432B-S3	576+30.00	28.00' RT	790.11	791.41	--	–	–	1	–	
	R/L SB	6432-S3	576+85.49	34.13' RT	789.94	791.55	--	–	1	--	–	
	R/L SB	6433B-S3	577+24.96	28.00' RT	789.93	791.26	--	–	–	1	–	
	R/L SB	6435A-S3	574+30.31	34.13' RT	790.07	792.92	1	–	–	--	–	
	R/L SB	6436-S3	577+25.40	34.13' RT	790.19	791.52	--	–	1	--	–	
	R/L SB	6437-S3	577+50.50	34.13' RT	790.20	791.53	--	–	1	--	–	
	R/L SB	6443-S3*	583+00.00	34.13' RT	792.80	793.98	1	–	–	--	–	
	R/L SB	6445-S3	580+00.00	34.13' RT	790.58	792.51	1	–	–	--	–	
	R/L SB	6446-S3*	578+79.20	34.13' RT	791.10	791.90	1	–	–	--	–	
	R/L SB	6481A-S3	593+00.00	28.00' RT	795.04	795.31	--	1	–	--	–	
	R/L SB	6481-S3	593+00.00	34.13' RT	794.24	795.57	--	–	1	--	–	
	R/L SB	6484-S3	594+11.75	34.13' RT	794.02	796.51	1	–	–	--	–	
	R/L SB	6487-S3	596+52.30	34.13' RT	795.41	797.73	1	–	–	--	–	
	R/L SB	6491-S3*	603+18.55	34.13' RT	798.83	801.01	1	–	–	--	–	
	R/L SB	6494-S3	600+16.27	34.13' RT	796.95	799.52	--	–	1	--	–	
	R/L SB	6502A-S3	606+20.82	28.00' RT	800.16	802.03	--	1	–	--	–	
	R/L SB	6503-S3	606+20.82	34.13' RT	798.55	802.50	1	–	–	--	–	
	R/L SB	6508-S3	612+25.77	34.13' RT	799.89	803.00	1	–	–	--	–	
	R/L SB	6521-S3	615+32.72	34.13' RT	800.28	802.21	1	–	–	--	–	
	R/L SB	6522-S3	614+98.87	33.00' RT	800.84	802.17	--	–	1	--	–	
	R/L SB	6523-S3	614+73.49	34.13' RT	800.88	802.21	--	–	1	--	–	
	R/L SB	6524A-S3	615+66.57	28.00' RT	801.30	801.52	--	1	–	--	–	
	R/L SB	6539A-S3	620+19.53	28.00' RT	803.30	803.40	--	1	–	--	–	
	R/L SB	6539-S3	620+22.98	34.13' RT	803.31	804.64	--	–	1	--	–	
	R/L SB	6543-S3	621+50.01	34.13' RT	804.12	805.45	--	–	1	--	–	
	R/L SB	6553-S3	624+52.68	34.13' RT	806.06	807.39	--	–	1	--	–	
	R/L SB	6556A-S3	627+54.88	28.00' RT	805.54	806.95	--	1	–	--	–	
	R/L SB	6563-S3	627+54.88	34.13' RT	807.99	809.32	--	–	1	--	–	
	R/L SB	6567-S3	629+52.64	34.00' RT	808.90	810.40	--	–	1	--	–	
	R/L SB	6573-S3	633+07.81	34.13' RT	809.20	810.53	--	–	1	--	–	
	R/L SB	6578-S3	635+00.30	34.13' RT	808.18	809.67	--	–	1	--	–	
	R/L SB	6583-S3	638+02.50	34.13' RT	806.61	808.13	--	–	1	--	–	
	R/L SB	6593-S3	641+04.71	34.13' RT	805.26	806.59	--	–	1	--	–	
	R/L SB	6598-S3	644+37.12	34.13' RT	803.33	804.90	--	–	1	--	–	
	R/L SB	6603-S3	647+79.63	34.13' RT	801.56	803.15	--	–	1	--	–	
	R/L SB	6613-S3	651+12.03	34.13' RT	799.81	801.46	--	–	1	--	–	
	R/L SB	6618-S3	654+09.91	34.13' RT	797.88	799.75	1	–	–	--	–	
	R/L SB	6628-S3*	656+94.48	34.13' RT	794.77	797.53	1	–	–	--	–	

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3

Addendum No. 03
ID 1130-64-72
Revised Sheet 943
December 5, 2024

RECONSTRUCTING AND ADJUSTING STRUCTURES

CATEGORY	LOCATION	STRUCTURE ID	STATION	OFFSET	TEMPORARY TOP OF STRUCTURE ELEVATION	TO	PROPOSED RIM ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.0275 STRUCTURE LIDS EACH	NOTES
	R/L SB	6629A-S3	658+42.00	28.00' RT	794.67		796.45	--	1	–	--	–	
	R/L SB	6633-S3*	659+94.49	34.13' RT	794.60		795.94	1	–	–	--	–	
	R/L SB	6642-S3	662+94.52	34.13' RT	791.77		794.39	1	–	–	--	–	
	R/L SB	6643A-S3	665+58.99	28.00' RT	791.43		792.76	--	–	–	1	–	
	R/L SB	6643-S3	665+58.98	34.13' RT	791.46		793.02	--	–	1	--	–	
	R/L SB	6665-S1	667+00.00	34.13' RT	791.22		792.55	--	–	1	--	–	
	R/L SB	6666-S3	667+87.33	34.13' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6667-S3	667+62.31	34.13' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6668-S3	667+39.67	34.13' RT	791.17		792.50	--	–	1	--	–	
	R/L SB	6669-S3	667+62.32	28.00' RT	791.96		792.24	--	1	–	--	–	
	R/L SB	6670-S1	665+97.49	34.13' RT	791.29		792.84	--	–	1	--	–	
	R/L SB	6675-S1	665+97.49	89.87' RT	791.31		792.64	--	–	1	--	–	
	R/L SB	6679-S1	667+00.00	89.87' RT	791.02		792.35	--	–	1	--	–	
	R/L SB	EX 6452	586+97.96	34.13' RT	792.15		793.99	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6460	588+99.46	89.87' RT	791.96		793.18	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6461	588+74.46	89.87' RT	791.89		793.19	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6463	589+62.22	89.87' RT	792.00		793.25	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6464	589+24.46	89.87' RT	791.89		793.19	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6465	588+99.46	34.13' RT	791.78		793.38	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6466	588+74.46	34.13' RT	791.73		793.39	1	–	–	--	1	6-FT DIAMETER
	R/L SB	EX 6467	589+24.45	34.13' RT	791.80		793.39	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6471	589+62.25	34.13' RT	792.09		793.45	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6476	592+33.74	34.13' RT	793.40		795.07	1	–	–	--	1	5-FT DIAMETER
	R/L SB	EX 6526	617+18.33	34.13' RT	801.41		802.74	--	–	1	--	1	5-FT DIAMETER
	R/L SB	EX 6726	681+38.41	34.82' RT	797.00		797.31	--	–	–	1	–	EST.2.5 FT X 2.5 FT**
STAGE 4 SUBTOTALS								27	7	31	5	11	
1130-64-72 TOTALS								91	12	44	5	28	

FIELD VERIFY SIZE OF ALL EXISTING STRUCTURES
SIZE INFORMATION FOR ALL STRUCTURES BUILT IN 1130-64-72 IS LISTED IN THE STORM SEWER STRUCTURE TABLES

*SEE BW TO VV-B RECONSTRUCTING INLET CONSTRUCTION DETAIL

**EXISTING STRUCTURE SIZE ESTIMATED FROM AS-BUILT AND SURVEY INFORMATION

Addendum No. 03
ID 1130-64-72
Revised Sheet 944
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 944	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 5:13 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

Addendum No. 03
ID 1130-64-72
Revised Sheet 945
December 5, 2024

3

RECONNECT STORM SEWER

CATEGORY	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.0215 RECONNECT STORM SEWER EACH	NOTES
1000	1130-64-72 STAGE 1A					
	R/L SB	RS_23-S1	669+58.11	112.35' RT	1	TEMPORARY CONNECTION TO EXISTING
	STAGE 1A SUBTOTALS				1	
1000	1130-64-72 STAGE 1B					
	R/L SB	RS_21-S1	586+97.96	98.85' RT	1	
	R/L SB	RS_22-S1	620+14.64	107.87' RT	1	TEMPORARY CONNECTION TO EXISTING
	STAGE 1B SUBTOTALS				2	
1000	1130-64-72 STAGE 1C					
	R/L SB	6713-S1	668+62.70	184.64' RT	1	
	ASB	EX 6716	223+28.50	60.15' RT	1	
	R/L SB	RS_102-S1	665+97.49	66.75' RT	1	
	R/L SB	RS_103-S1	667+00.00	65.56' RT	1	
	STAGE 1C SUBTOTALS				4	
	STAGE 1 SUBTOTALS				7	
1000	1130-64-72 STAGE 2					
	R/L SB	6438-S2	578+78.24	21.87' RT	1	
	R/L SB	6505A-S2	613+81.89	16.00' RT	1	
	R/L SB	6540T-S2	620+16.10	21.87' RT	1	OUTLET TO EXISTING IN STAGE 2A
	R/L SB	6540-S2	620+16.10	21.87' RT	2	RECONNECT TO PROPOSED TRUNKLINE IN STAGE 2B
	R/L SB	6660-S2	665+97.49	21.87' RT	1	
	R/L SB	6664-S2	667+00.00	21.87' RT	1	
	R/L SB	EX 6526	617+18.33	34.13' RT	1	TEMPORARY CONNECTION TO EXISTING
	R/L SB	RS_24-S2	616+97.60	21.98' RT	1	
	R/L SB	RS_25-S2	620+08.16	23.20' RT	1	
	R/L SB	RS_28-S2	620+16.01	29.44' RT	1	
	R/L SB	RS_29-S2	578+79.20	34.13' RT	1	
	R/L SB	RS_30-S2	592+41.69	15.78' RT	1	
	R/L SB	RS_31-S2	578+75.39	27.15' RT	1	
	R/L SB	RS_32-S2	616+83.16	42.40' LT	1	
	R/L SB	RS_34-S2	618+25.66	42.43' LT	1	
	R/L SB	RS_36-S2	670+26.75	23.00' RT	1	CONNECTION TO BOX CULVERT
	STAGE 2 SUBTOTALS				17	
1000	1130-64-72 STAGE 3					
	R/L SB	6408-S2	571+00.00	21.87' RT	1	
	R/L SB	6412A-S2	572+29.06	21.87' RT	1	
	R/L SB	6412-S2	573+00.00	21.87' RT	1	
	R/L SB	6430A-S2	576+30.00	15.00' RT	1	
	R/L SB	6433-S2	576+85.49	21.87' RT	1	
1000	1130-64-72 STAGE 3 CONT.					
	R/L SB	6434A-S2	574+30.64	21.89' RT	1	
	R/L SB	6438-S2	578+78.24	21.87' RT	1	
	R/L SB	6442-S2	583+00.00	21.87' RT	1	
	R/L SB	6444-S2	580+00.00	21.87' RT	1	
	R/L SB	6482-S2	593+00.00	21.87' RT	1	
	R/L SB	6485-S2	594+11.70	21.87' RT	1	
	R/L SB	6486-S2	596+52.30	21.87' RT	1	
	R/L SB	6492-S2	603+18.55	21.87' RT	1	
	R/L SB	6495-S2	600+16.27	21.87' RT	1	
	R/L SB	6501-S2	606+20.82	21.87' RT	1	
	R/L SB	6435A-S3	574+30.31	34.13' RT	1	
	R/L SB	6505-S2	612+25.77	21.87' RT	1	
	R/L SB	6520-S2	615+32.73	21.87' RT	1	
	R/L SB	6524-S2	615+66.57	21.87' RT	1	
	R/L SB	6540-S2	620+16.10	21.87' RT	1	
	R/L SB	6544-S2	621+49.99	21.87' RT	1	
	R/L SB	6550-S2	624+52.68	21.87' RT	1	
	R/L SB	6556-S2	626+21.29	21.86' RT	1	
	R/L SB	6560-S2	627+54.88	21.87' RT	1	
	R/L SB	6565-S2	629+52.64	21.87' RT	1	
	R/L SB	6570-S2	633+07.81	21.87' RT	1	
	R/L SB	6575-S2	635+00.30	21.87' RT	1	
	R/L SB	6580-S2	638+02.50	21.87' RT	1	
	R/L SB	6590-S2	641+04.71	21.87' RT	1	
	R/L SB	6595-S2	644+37.12	21.87' RT	1	
	R/L SB	6600-S2	647+79.61	21.87' RT	1	
	R/L SB	6610-S2	651+12.00	21.87' RT	1	
	R/L SB	6615-S2	654+10.04	21.87' RT	1	
	R/L SB	6625-S2	656+94.49	21.87' RT	1	
	R/L SB	6629-S2	658+44.42	21.87' RT	1	
	R/L SB	6630-S2	659+94.49	21.87' RT	1	
	R/L SB	6640-S2	662+94.53	21.87' RT	1	
	R/L SB	6644-S2	665+58.98	21.87' RT	1	
	R/L SB	6665-S1	667+00.00	34.13' RT	1	
	R/L SB	6691-S2	670+47.13	21.87' RT	1	
	R/L SB	6695-S2	673+19.82	21.87' RT	1	
	R/L SB	RS_77-S3	578+75.39	27.15' RT	1	
	R/L SB	RS_78-S3	578+66.32	44.00' RT	1	
	R/L SB	RS_79-S3	578+73.90	44.00' RT	1	
	R/L SB	RS_82-S3	578+87.06	19.49' RT	1	
	STAGE 3 SUBTOTALS				45	

RECONNECT STORM SEWER

CATEGORY	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.0215 RECONNECT STORM SEWER EACH	NOTES
1000	1130-64-72 STAGE 4A					
	R/L SB	6427A-S3	576+57.56	84.59' RT	1	UNDERDRAIN
	R/L SB	6679-S1	667+00.00	89.87' RT	1	
	R/L SB	RS_80-S4	578+40.46	92.06' RT	1	CONNECT TO EXISTING IN STAGE 4A, THEN PROPOSED IN STAGE 4B
	R/L SB	RS_81-S4	578+47.53	93.09' RT	1	CONNECT TO EXISTING IN STAGE 4A, THEN PROPOSED IN STAGE 4B
	R/L SB	RS_83-S4	571+00.00	44.00' RT	1	
	R/L SB	RS_84-S4	573+00.00	44.00' RT	1	
	R/L SB	RS_86-S4	578+66.32	44.00' RT	1	
	R/L SB	RS_87-S4	578+73.90	44.00' RT	1	
	R/L SB	RS_88-S4	624+52.68	44.00' RT	1	
	R/L SB	RS_89-S4	627+54.88	44.00' RT	1	
	R/L SB	RS_90-S4	629+52.63	44.00' RT	1	
	R/L SB	RS_91-S4	633+07.81	44.00' RT	1	
	R/L SB	RS_92-S4	635+00.30	44.00' RT	1	
	R/L SB	RS_93-S4	638+02.50	44.00' RT	1	
	R/L SB	RS_94-S4	641+04.71	44.00' RT	1	
	R/L SB	RS_95-S4	644+37.12	44.00' RT	1	
	R/L SB	RS_96-S4	647+79.63	44.00' RT	1	
	R/L SB	RS_97-S4	651+12.03	44.00' RT	1	
	R/L SB	RS_98-S4	654+09.85	44.00' RT	1	
	R/L SB	RS_99-S4	656+94.48	44.00' RT	1	
	R/L SB	RS_100-S4	659+94.49	44.00' RT	1	
	R/L SB	RS_101-S4	662+94.52	44.00' RT	1	
	R/L SB	RS_104-S4	670+47.13	44.00' RT	1	
	STAGE 4A SUBTOTALS				23	

CATEGORY	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.0215 RECONNECT STORM SEWER EACH	NOTES
1000	1130-64-72 STAGE 4B					
	R/L SB	RS_80-S4	578+40.46	92.06' RT	1	
	R/L SB	RS_81-S4	578+47.53	93.09' RT	1	
	R/L SB	RS_105-S4	624+52.68	68.00' RT	1	
	R/L SB	RS_106-S4	627+54.88	68.00' RT	1	
	R/L SB	RS_107-S4	629+52.62	68.00' RT	1	
	R/L SB	RS_108-S4	633+07.83	68.00' RT	1	
	R/L SB	RS_109-S4	635+00.30	68.00' RT	1	
	R/L SB	RS_110-S4	638+02.48	68.00' RT	1	
	R/L SB	RS_111-S4	641+04.71	68.00' RT	1	
	R/L SB	RS_112-S4	644+37.12	68.00' RT	1	
	R/L SB	RS_113-S4	647+79.62	68.00' RT	1	
	R/L SB	RS_114-S4	651+12.03	68.00' RT	1	
	R/L SB	RS_115-S4	654+09.71	68.00' RT	1	
	R/L SB	RS_116-S4	656+94.48	68.00' RT	1	
	R/L SB	RS_117-S4	659+94.49	68.00' RT	1	
	R/L SB	RS_118-S4	662+94.51	68.00' RT	1	
	R/L SB	RS_119-S4	670+47.11	68.00' RT	1	
	STAGE 4B SUBTOTALS				17	
	STAGE 4 SUBTOTALS				40	
	1130-64-72 TOTALS				109	

3

Addendum No. 03
ID 1130-64-72
Revised Sheet 946
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 946	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 5:13 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

Addendum No. 03
ID 1130-64-72
Revised Sheet 947
December 5, 2024

STORM SEWER PLUG/SEALING STORM STRUCTURE

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.0210 STORM SEWER PLUG EACH	SPV.0060.0240 SEALING STORM STRUCTURE EACH	NOTES
1000	1130-64-72 STAGE 1B					
	R/L SB	665+97.49	104.63' RT	1	–	ENDWALL
	R/L SB	665+97.49	66.75' RT	1	–	PIPE
	R/L SB	666+96.10	100.08' RT	1	–	ENDWALL
	R/L SB	667+00.00	65.56' RT	1	–	PIPE
	R/L SB	667+00.00	89.87' RT	1	--	STRUCTURE
	STAGE 1B SUBTOTALS			5	0	
1000	1130-64-72 STAGE 1C					
	ASB	223+28.50	60.15' RT	--	1	STRUCTURE
	R/L SB	597+20.98	99.18' RT	1	–	ENDWALL
	R/L SB	597+22.64	21.87' RT	1	--	PIPE
	R/L SB	665+97.49	21.87' RT	1	–	PIPE
	R/L SB	667+00.00	21.87' RT	1	–	PIPE
	R/L SB	667+00.00	34.13' RT	1	--	STRUCTURE
	STAGE 1C SUBTOTALS			5	1	
	STAGE 1 SUBTOTALS			10	1	
1000	1130-64-72 STAGE 2					
	R/L SB	571+00.00	21.87' RT	1	--	STRUCTURE
	R/L SB	572+29.06	21.87' RT	1	--	STRUCTURE
	R/L SB	573+00.00	21.87' RT	1	--	STRUCTURE
	R/L SB	574+30.64	21.87' RT	1	--	STRUCTURE
	R/L SB	576+30.00	15.00' RT	1	--	STRUCTURE
	R/L SB	576+85.49	21.87' RT	1	--	PIPE
	R/L SB	593+00.00	21.87' RT	1	--	STRUCTURE
	R/L SB	594+11.70	21.87' RT	1	--	STRUCTURE
	R/L SB	596+52.30	21.87' RT	1	--	STRUCTURE
	R/L SB	600+16.27	21.87' RT	1	--	STRUCTURE
	R/L SB	603+18.55	21.87' RT	1	--	STRUCTURE
	R/L SB	606+20.82	21.87' RT	1	--	STRUCTURE
	R/L SB	612+25.77	21.87' RT	--	1	STRUCTURE
	R/L SB	615+32.73	21.87' RT	1	--	STRUCTURE
	R/L SB	615+66.57	21.87' RT	1	--	STRUCTURE
	R/L SB	620+16.10	21.87' RT	1	--	STRUCTURE
	~~R/L SB~~	~~620+16.06~~	~~26.44' RT~~	~~--~~	~~0~~	~~STRUCTURE~~
	R/L SB	621+49.99	21.87' RT	1	--	STRUCTURE
	R/L SB	624+52.68	21.87' RT	1	--	STRUCTURE
	R/L SB	626+21.29	21.86' RT	1	--	STRUCTURE
	R/L SB	627+54.88	21.87' RT	1	--	STRUCTURE
	R/L SB	629+52.64	21.87' RT	1	--	STRUCTURE
	R/L SB	633+07.81	21.87' RT	1	--	STRUCTURE
	R/L SB	635+00.30	21.87' RT	1	--	STRUCTURE
	R/L SB	638+02.50	21.87' RT	1	--	STRUCTURE

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.0210 STORM SEWER PLUG EACH	SPV.0060.0240 SEALING STORM STRUCTURE EACH	NOTES
1000	1130-64-72 STAGE 2 CONT.					
	R/L SB	641+04.71	21.87' RT	1	--	STRUCTURE
	R/L SB	644+37.12	21.87' RT	1	--	STRUCTURE
	R/L SB	647+79.61	21.87' RT	1	--	STRUCTURE
	R/L SB	651+12.00	21.87' RT	1	--	STRUCTURE
	R/L SB	654+10.04	21.87' RT	1	--	STRUCTURE
	R/L SB	656+94.49	21.87' RT	1	--	STRUCTURE
	R/L SB	658+44.42	21.87' RT	1	--	STRUCTURE
	R/L SB	659+94.49	21.87' RT	1	--	STRUCTURE
	R/L SB	662+94.53	21.87' RT	1	--	STRUCTURE
	R/L SB	665+58.98	21.87' RT	1	--	STRUCTURE
	R/L SB	670+47.13	21.87' RT	1	--	STRUCTURE
	R/L SB	673+19.82	21.87' RT	1	--	STRUCTURE
	R/L SB	673+27.81	23.34' RT	1	–	PIPE
	R/L SB TEMP	674+44.65	29.99' RT	--	1	STRUCTURE
	STAGE 2 SUBTOTALS			36	2	
1000	1130-64-72 STAGE 3					
	R/L SB	571+00.00	44.00' RT	1	--	PIPE
	R/L SB	573+00.00	44.00' RT	1	--	PIPE
	R/L SB	574+30.64	21.87' RT	--	1	STRUCTURE
	R/L SB	576+57.56	84.59' RT	1	--	STRUCTURE
	R/L SB	578+66.32	44.00' RT	1	--	PIPE
	R/L SB	578+73.90	44.00' RT	1	--	PIPE
	R/L SB	601+62.23	16.00' RT	--	1	STRUCTURE
	R/L SB	609+23.55	16.00' RT	--	1	STRUCTURE
	R/L SB	617+18.33	34.13' RT	--	1	STRUCTURE
	R/L SB	624+52.68	44.00' RT	1	--	PIPE
	R/L SB	627+54.88	44.00' RT	1	--	PIPE
	R/L SB	629+52.63	44.00' RT	1	--	PIPE
	R/L SB	633+07.81	44.00' RT	1	--	PIPE
	R/L SB	635+00.30	44.00' RT	1	--	PIPE
	R/L SB	638+02.50	44.00' RT	1	--	PIPE
	R/L SB	641+04.71	44.00' RT	1	--	PIPE
	R/L SB	644+37.12	44.00' RT	1	--	PIPE
	R/L SB	647+79.63	44.00' RT	1	--	PIPE
	R/L SB	651+12.03	44.00' RT	1	--	PIPE
	R/L SB	654+09.85	44.00' RT	1	--	PIPE
	R/L SB	656+94.48	44.00' RT	1	--	PIPE
	R/L SB	659+00.00	15.07' RT	--	1	STRUCTURE
	R/L SB	659+94.49	44.00' RT	1	--	PIPE
	R/L SB	662+94.52	44.00' RT	1	--	PIPE
	R/L SB	667+00.00	21.87' RT	--	1	STRUCTURE
	R/L SB	667+87.12	21.87' RT	--	1	STRUCTURE
	R/L SB	670+47.13	44.00' RT	1	--	PIPE
	STAGE 3 SUBTOTALS			20	7	

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 947	E

FILE NAME : DRAWING1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 5:13 PM
PLOT BY : ELIZABETH REGIER
PLOT NAME :
PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

STORM SEWER PLUG/SEALING STORM STRUCTURE

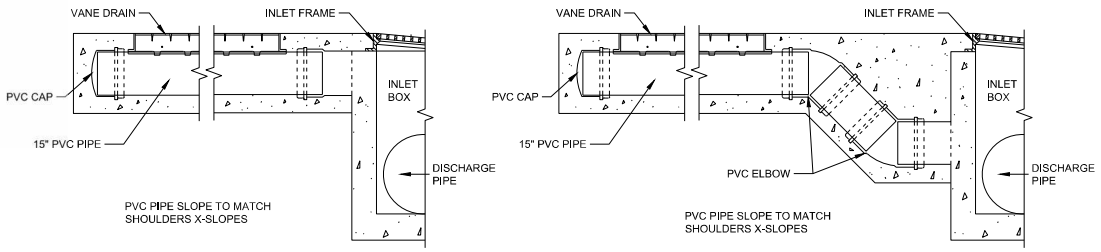
CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.0210 STORM SEWER PLUG EACH	SPV.0060.0240 SEALING STORM STRUCTURE EACH	NOTES
1000	1130-64-72 STAGE 4A					
	R/L SB	624+52.68	68.00' RT	1	–	PIPE
	R/L SB	627+54.88	68.00' RT	1	–	PIPE
	R/L SB	629+52.62	68.00' RT	1	–	PIPE
	R/L SB	633+07.83	68.00' RT	1	–	PIPE
	R/L SB	635+00.30	68.00' RT	1	–	PIPE
	R/L SB	638+02.48	68.00' RT	1	–	PIPE
	R/L SB	641+04.71	68.00' RT	1	–	PIPE
	R/L SB	644+37.12	68.00' RT	1	–	PIPE
	R/L SB	647+79.62	68.00' RT	1	–	PIPE
	R/L SB	651+12.03	68.00' RT	1	–	PIPE
	R/L SB	654+09.71	68.00' RT	1	–	PIPE
	R/L SB	656+94.48	68.00' RT	1	–	PIPE
	R/L SB	659+94.49	68.00' RT	1	–	PIPE
	R/L SB	662+94.51	68.00' RT	1	–	PIPE
	R/L SB	670+47.11	68.00' RT	1	--	PIPE
	R/L SB TEMP	674+54.44	36.01' RT	--	1	STRUCTURE
	STAGE 4A SUBTOTALS			15	1	

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.0210 STORM SEWER PLUG EACH	SPV.0060.0240 SEALING STORM STRUCTURE EACH	NOTES
1000	1130-64-72 STAGE 4B					
	R/L SB	576+30.01	34.13' RT	--	1	STRUCTURE
	R/L SB	577+50.50	34.13' RT	--	1	STRUCTURE
	R/L SB	656+94.48	34.13' RT	--	1	STRUCTURE
	R/L SB	665+97.49	34.13' RT	--	1	STRUCTURE
	STAGE 4B SUBTOTALS			0	4	
	STAGE 4 SUBTOTALS			15	5	
	1130-64-72 TOTALS			81	15	

Addendum No. 03
ID 1130-64-72
Revised Sheet 948
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET 948	E

SDD 08D14 Slotted Vane Drain



TYPICAL SLOTTED VANE DRAIN CONFIGURATIONS

GENERAL NOTES

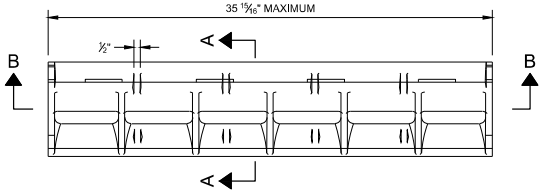
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ENCASEMENT: FURNISH GRADE A CONCRETE CONFORMING TO STANDARD SPECIFICATION 501 AS MODIFIED IN STANDARD SPECIFICATION 716. PROVIDE QMP FOR CLASS III ANCILLARY CONCRETE PER STANDARD SPECIFICATION 716. ULITLIZING HIGH EARLY STRENGTH (HES) CONCRETE CONFORMING TO STANDARD SPECIFICATION 710.4(5) IS ALLOWED AND MAY BE REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE PIPE USED SHALL BE A 15" DIAMETER SDR-35 POLYVINYL CHLORIDE SEWER PIPE. THE PIPE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN STANDARD SPECIFICATION 612.2.6

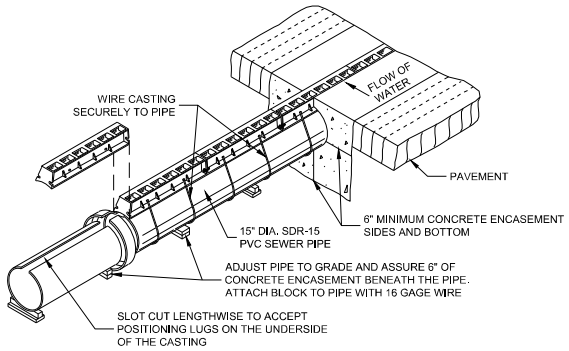
SURFACE DRAIN: BEFORE PAVING OVER THE DRAIN, COVER THE TOP OF THE DRAIN TO KEEP MATERIAL OUT OF THE PIPE. THE FINISHED GRADE SHOULD BE FLUSH WITH THE TOP OF THE DRAIN.

THE ANGLE OF THE DRAIN TO THE FLOW OF WATER SHOULD BE AS CLOSE TO 90° AS POSSIBLE.

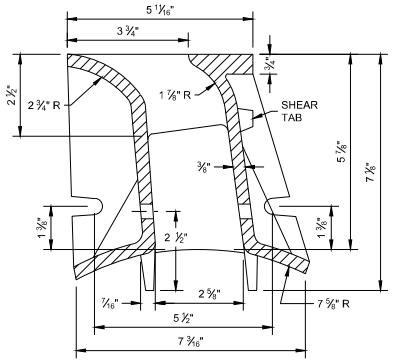


SLOTTED VANE DRAIN DETAIL

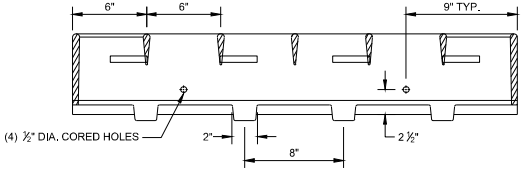
(APPROXIMATE WEIGHT 87 LBS.)



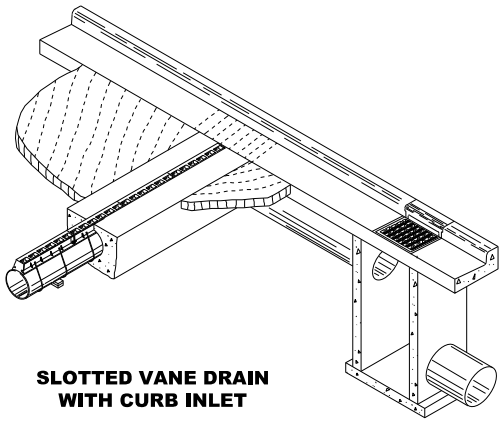
INSTALLATION OF SLOTTED VANE DRAIN



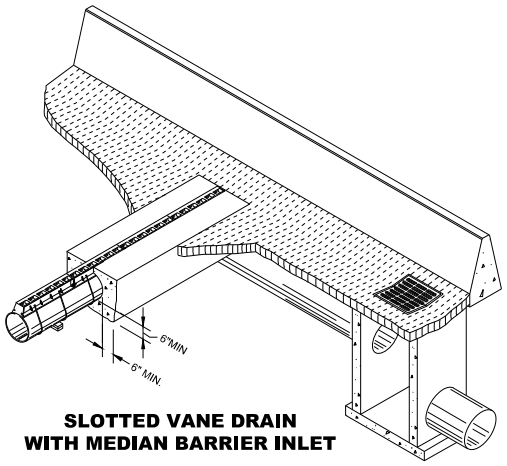
SECTION A - A



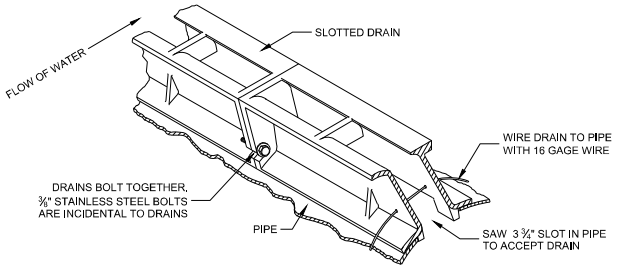
SECTION B - B



SLOTTED VANE DRAIN WITH CURB INLET



SLOTTED VANE DRAIN WITH MEDIAN BARRIER INLET



ISOMETRIC VIEW

SLOTTED VANE DRAIN DETAIL

Addendum No. 03
ID 1130-64-72
Added Sheet 1057A
December 5, 2024

SLOTTED VANE DRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

SDD 08D14 - 02

1057A

SDD 08D14 - 02

STATE PROJECT NUMBER

1130-64-87

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	S. APPR. SLAB	S. ABUT.	PIER 1	PIER 2	N. ABUT.	N. APPR. SLAB	SUPER	TOTAL
203.0220.0803	REMOVING STRUCTURE B-44-161	EACH	-	-	-	-	-	-	-	1
203.0330.0901	DEBRIS CONTAINMENT B-44-339	EACH	-	-	-	-	-	-	-	1
206.1001.0803	EXCAVATION FOR STRUCTURES BRIDGES B-44-339	EACH	-	-	-	-	-	-	-	1
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	-	320	-	-	320	-	-	640
501.1000.S	ICE HOT WEATHER CONCRETING	LB	809	1429	1029	1033	1415	809	5057	11580
502.0100	CONCRETE MASONRY BRIDGES	CY	27.4	190.5	137.2	137.7	188.6	27.4	-	709
502.3101	EXPANSION DEVICE	LF	-	109	-	-	109	-	-	218
502.3200	PROTECTIVE SURFACE TREATMENT	SY	196	-	-	-	-	195	1,820	2,211
502.3210	PIGMENTED SURFACE SEALER	SY	22	-	-	-	-	22	253	297
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	-	-	-	(2) -	-	-	1,789	1,789
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-	7,760	2,860	2,860	8,230	-	-	21,710 (2)
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	19,320	3,750	21,660	21,740	3,500	19,380	157,210	246,560
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	-	-	-	-	-	-	2,550	2,550
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	16	16	-	-	-	32 (3)
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	-	8 (3)	-	- (3)	8	-	-	16
506.4000.0803	STEEL DIAPHRAGMS B-44-339	EACH	-	-	-	-	-	-	28	28 (3)
511.1200.0803	TEMPORARY SHORING B-44-339	SF	-	-	3,450	3,450	-	-	-	6,900
513.2001	RAILING PIPE	LF	7	- (3)	-	-	- (3)	7	-	14 (3)
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	19	-	-	19	-	-	38
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	-	532	840	630	532	-	-	2,534
550.0500	PILE POINTS	EACH	-	14	42	42	14	-	-	112
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	-	770	1,890	1,470	700	-	-	4,830
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	-	744	-	-	880	-	-	1,624
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	120	-	-	120	-	-	240
616.0800.S	FENCE TRACK CLEARANCE	LF	-	140	-	-	140	-	-	280
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	5	-	-	-	-	5	100	110
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	45	-	-	-	-	45	380	470
653.0222	JUNCTION BOXES 18x12x6-INCH	EACH	-	-	-	-	-	-	2	2
SPV.0035.0800	HPC MASONRY STRUCTURES	CY	80.5	-	-	-	-	80.5	674.2	835
SPV.0090.0800	ABUTMENT ANCHORAGE	LF	-	109	-	-	109	-	-	218
SPV.0165.0800	LONGITUDINAL GROOVING BRIDGE DECK	SF	-	-	-	-	-	-	16,380	16,380
	NON-BID ITEMS									
	NAME PLATE	EACH	-	-	-	-	-	-	-	1
	PREFORMED JOINT FILLER	SIZE	-	-	-	-	-	-	-	1/2", 1", 2"
	EXPANDED POLYSTYRENE	SIZE	-	-	-	-	-	-	-	1"
	SIZE 2 COARSE AGGREGATE	SIZE	-	-	-	-	-	-	-	-

ALL ITEMS ARE CATEGORY 2020

TRAFFIC DATA

IH 41 NB:

AADT = 34,600 (2020)
AADT = 43,940 (2045)
RDS = 75 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP12x53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55'-0" LONG., S. ABUT.
ESTIMATED 50'-0" LONG., N. ABUT.

PIER TO BE SUPPORTED ON HP12x53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 45'-0" LONG., PIER 1
ESTIMATED 35'-0" LONG., PIER 2

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

PRE-BORE TO REQUIRED ELEVATION THEN DRIVE TO REQUIRED DRIVING RESISTANCE PER THE CRITERIA PROVIDED IN THE GEOTECHNICAL REPORT. BACKFILL PIER PRE-BORED WITH CEMENT GROUT TO BOTTOM OF PIER CAP ELEVATIONS.

WISCONSIN
CARLEE HAYDEN
E-49822
MADISON, WI
DEC 4, 2024
PROFESSIONAL ENGINEER

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING: RF = 1.32
OPERATING RATING: RF = 1.85
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'_c = 4,000 PSI
ALL OTHER — f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT
GRADE 60 — f_y = 60,000 PSI
STAINLESS, GRADE 60 — f_y = 60,000 PSI

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'_c = 8,000 PSI
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 — f_y = 36,000 PSI

STEEL PILING:
ASTM A572, GRADE 50 — f_y = 50,000 PSI

SDR
12/05/24

GENERAL NOTES

G1. DRAWINGS SHALL NOT BE SCALED.

G2. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

G3. COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE COUNTY NAD83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

G4. THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

G5. THE EXISTING BRIDGE B-44-161 IS A 3 SPAN CONTINUOUS STEEL GIRDER STRUCTURE. THE STRUCTURE WILL BE REMOVED AND PAID FOR UNDER "REMOVING STRUCTURE B-44-161". LENGTH IS 214'-11½" BACK TO BACK OF ABUTMENTS. WIDTH IS 62'-0" OUT TO OUT.

G6. THE CONTRACTOR MUST COORDINATE THE REMOVAL OF EXISTING STRUCTURE B-44-161 AND CONSTRUCTION OF THE BRIDGE B-44-339 WITH RETAINING WALLS R-44-52 AND R-44-53.

G7. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1-INCH DEEP AND HOLD ⅛" BELOW SURFACE OF THE CONCRETE). COLOR TO MATCH ADJACENT SURFACES.

G8. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON "GENERAL PLAN AND ELEVATION" SHEET.

G9. CONTRACTOR MUST COORDINATE THE REMOVAL OF TEMPORARY SHORING WITH LIGHTING TO VERIFY NO CONFLICTS.

RAILROAD NOTES

RR1. THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT CHANGE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES.

RR2. ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.

RR3. ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.

RR4. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO ALL RAILROAD OPERATIONS, ENABLING THE TRACKS TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.

RR5. ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT WHEN TRAINS ARE PRESENT WITHIN THE WORKZONE.

RR6. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSEOUT.

RR7. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD PRIOR TO BEGINNING ANY GRADING ON THE PROJECT.

RR8. TEMPORARY CONSTRUCTION CLEARANCES, INCLUDING FALSE-WORK CLEARANCES, SHALL COMPLY WITH THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE AS STATED IN THE STANDARD SPECIFICATIONS.

RR9. FOR RAILROAD COORDINATION REFER TO THE RAILROAD'S COORDINATION REQUIREMENTS AS PART OF THE PROJECT SPECIAL PROVISIONS.

EXCAVATION NOTES

E1. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-339" SHALL BE THE EXISTING GROUNDLINE.

BACKFILL NOTES

B1. UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH. THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT ANCHORAGE BY THE MSE MANUFACTURER (MSE SYSTEM, DEAD MAN ANCHOR, OTHER). ALL LOADS ARE REPORTED PERPENDICULAR TO THE ABUTMENT BACKWALL. THE FOLLOWING AASHTO LINE LOADS SHALL BE: (3)
BR = 0.57 KLF WS = 0.14 KLF
TU = 0.55 KLF WL = 0.08 KLF

B2. DESIGN THE ABUTMENT ANCHORAGE SYSTEM ASSUMING THE PILES PROVIDE NO LATERAL RESISTANCE. THE PILES ARE ASSUMED TO CARRY ONLY THE VERTICAL LOAD OF THE CAST-IN-PLACE ABUTMENT DEAD LOAD AND THE SUPERSTRUCTURE LOADS.

B3. MINIMUM REQUIRED STRAP LENGTH FOR ABUTMENT ANCHORAGE = 0.7 TIMES THE HEIGHT OF THE ABUTMENT OR 8' MIN. HEIGHT IS DEFINED AS PAVEMENT GRADE MINUS BOTTOM OF THE ABUTMENT. THIS HEIGHT IS NOT EQUAL TO THE VERTICAL PAY LIMIT. SEE ABUTMENT DETAILS SHEETS FOR VERTICAL LIMITS.

B4. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

B5. THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, AND SHOP DRAWINGS FOR THE MSE BACKFILL SYSTEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE MSE WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "ABUTMENT ANCHORAGE".

B6. THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "ABUTMENT ANCHORAGE".

B7. ABUTMENTS TO BE BACKFILLED TO A MINIMUM OF THE BEAM SEAT ELEVATION PRIOR TO PLACING GIRDERS.

B8. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-339" AT THE PIERS AND ABUTMENTS SHALL BE THE EXISTING GROUNDLINE.

CONCRETE NOTES

C1. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

C2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

C3. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

C4. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES.

C5. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

C6. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W" PRESTRESSED GIRDER DETAILS" SHEET.

C7. CONCRETE IN THE FOLLOWING COMPONENTS TO BE PAID FOR AS "HPC MASONRY STRUCTURES".
- DECK SLAB, INCLUDING HAUNCHES
- ABUTMENT DIAPHRAGMS AND PIER DIAPHRAGMS
- PARAPETS ON BRIDGE AND ON STRUCTURAL APPROACH SLABS
- STRUCTURAL APPROACH SLABS (NOT THE APPROACH SLAB FOOTINGS)

C8. LONGITUDINAL GROOVING TO BE PLACED ONLY BETWEEN BRIDGE PARAPETS.

Addendum No. 03
ID 1130-64-72
Revised Sheet 1347
December 5, 2024

NO.	DATE	REVISION	BY
(3)	12/4/24	QUANTITY REVISIONS	FEG
(2)	11/22/24	PIER REINFORCEMENT	FEG

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-339

DRAWN BY FEG | PLANS CK'D MSS

GENERAL NOTES & QUANTITIES

SHEET 3

1347

SCALE = 1.0

8

8

FILE NAME : C:\USERS\FGILLEN\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306471\STRC\B-44-0339\SHEETS\B339_081003_GN_ADD3.DWG
LAYOUT NAME - GENERAL NOTES & QUANTITIES

STATE PROJECT NUMBER

1130-64-87

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	S. APPR. SLAB	S. ABUT.	PIER 1	PIER 2	N. ABUT.	N. APPR. SLAB	SUPER	TOTAL
203.0220.0804	REMOVING STRUCTURE B-44-162	EACH	-	-	-	-	-	-	-	1
203.0330.0902	DEBRIS CONTAINMENT B-44-340	EACH	-	-	-	-	-	-	-	1
206.1001.0804	EXCAVATION FOR STRUCTURES BRIDGES B-44-340	EACH	-	-	-	-	-	-	-	1
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	-	320	-	-	320	-	-	640
501.1000.S	ICE HOT WEATHER CONCRETING	LB	822	1,631	1,030	1,036	1,568	822	5,057	11,965
502.0100	CONCRETE MASONRY BRIDGES	CY	29.1	217.5	137.3	138.1	209.0	29.1	-	760
502.3101	EXPANSION DEVICE	LF	-	111	-	-	111	-	-	222
502.3200	PROTECTIVE SURFACE TREATMENT	SY	195	-	-	-	-	195	1,820	2,210
502.3210	PIGMENTED SURFACE SEALER	SY	22	-	-	-	-	22	253	297
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	-	-	-	-	-	-	1,789	1,789
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-	8,370	2,860	2,860	8,390	-	-	22,480
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	19,500	4,190	21,560	21,530	4,560	19,500	147,450	238,290
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	-	-	-	-	-	-	2,550	2,550
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	16	16	-	-	-	32
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	-	8	-	-	8	-	-	16
506.4000.0804	STEEL DIAPHRAGMS B-44-340	EACH	-	-	-	-	-	-	28	28
511.1200.0804	TEMPORARY SHORING B-44-340	SF	-	- (3)	5,500	5,500	- (3)	-	-	11,000
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	19	-	-	19	-	-	(3) 38
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	-	608	840	630	608	-	-	2,686
550.0500	PILE POINTS	EACH	-	16	42	42	16	-	-	116
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	-	880	1,890	1,470	800	-	-	5,040
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	-	740	-	-	878	-	-	1,618
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	120	-	-	120	-	-	240
616.0800.S	FENCE TRACK CLEARANCE	LF	-	140	-	-	140	-	-	280
SPV.0035.0800	HPC MASONRY STRUCTURES	CY	80.5	-	-	-	-	80.5	674.2	835
SPV.0090.0800	ABUTMENT ANCHORAGE	LF	-	111	-	-	101	-	-	212
SPV.0165.0800	LONGITUDINAL GROOVING BRIDGE DECK	SF	-	-	-	-	-	-	16,380	16,380
	NON-BID ITEMS									
	NAME PLATE	EACH	-	-	-	-	-	-	-	1
	PREFORMED JOINT FILLER	SIZE	-	-	-	-	-	-	-	1/2", 1"
	EXPANDED POLYSTYRENE	SIZE	-	-	-	-	-	-	-	1"
	SIZE 2 COARSE AGGREGATE	SIZE	-	-	-	-	-	-	-	-

ALL ITEMS ARE CATEGORY 2030

TRAFFIC DATA

IH 41 SB:

AADT = 34,860 (2020)
AADT = 44,070 (2045)
RDS = 75 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP12x53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220** TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55'-0" LONG., S. ABUT.
ESTIMATED 50'-0" LONG., N. ABUT.

PIER TO BE SUPPORTED ON HP12x53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 45'-0" LONG., PIER 1
ESTIMATED 35'-0" LONG., PIER 2

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

PRE-BORE TO REQUIRED ELEVATION THEN DRIVE TO REQUIRED DRIVING RESISTANCE PER THE CRITERIA PROVIDED IN THE GEOTECHNICAL REPORT. BACKFILL PIER PRE-BORED WITH CEMENT GROUT TO BOTTOM OF PIER CAP ELEVATIONS.

WISCONSIN
CARLEE HAYDEN
E-49822
MADISON, WI
DEC 4, 2024
PROFESSIONAL ENGINEER

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING: RF = 1.32
OPERATING RATING: RF = 1.85
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB ——— f'_c = 4,000 PSI
ALL OTHER ——— f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT
GRADE 60 ——— f_y = 60,000 PSI
STAINLESS, GRADE 60 ——— f_y = 60,000 PSI

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY ——— f'_c = 8,000 PSI
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 ——— f_y = 36,000 PSI

STEEL PILING:
ASTM A572, GRADE 50 ——— f_y = 50,000 PSI

SDR
12/05/24

GENERAL NOTES

G1. DRAWINGS SHALL NOT BE SCALED.

G2. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

G3. COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE COUNTY NAD83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

G4. THE UTILITY AND STORM SEWER INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

G5. THE EXISTING BRIDGE B-44-162 IS A 3 SPAN CONTINUOUS STEEL GIRDER STRUCTURE. THE STRUCTURE WILL BE REMOVED AND PAID FOR UNDER "REMOVING STRUCTURE B-44-162". LENGTH IS 214'-11½" BACK TO BACK OF ABUTMENTS. WIDTH IS 62'-0" OUT TO OUT.

G6. EXISTING NB BRIDGE B-44-161 TO REMAIN WHILE CONSTRUCTING B-44-340.

G7. THE CONTRACTOR MUST COORDINATE THE REMOVAL OF EXISTING STRUCTURE B-44-162 AND CONSTRUCTION OF THE BRIDGE B-44-340 WITH RETAINING WALL R-44-28.

G8. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1-INCH DEEP AND HOLD ⅛" BELOW SURFACE OF THE CONCRETE). COLOR TO MATCH ADJACENT SURFACES.

G9. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE "GENERAL PLAN AND ELEVATION" SHEET.

G10. THE CONTRACTOR MUST COORDINATE THE REMOVAL OF TEMPORARY SHORING WITH LIGHTING TO VERIFY NO CONFLICTS.

RAILROAD NOTES

RR1. THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT CHANGE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES.

RR2. ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.

RR3. ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.

RR4. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO ALL RAILROAD OPERATIONS, ENABLING THE TRACKS TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.

RR5. ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT WHEN TRAINS ARE PRESENT WITHIN THE WORKZONE.

RR6. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSEOUT.

RR7. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD PRIOR TO BEGINNING ANY GRADING ON THE PROJECT.

RR8. TEMPORARY CONSTRUCTION CLEARANCES, INCLUDING FALSE-WORK CLEARANCES, SHALL COMPLY WITH THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE AS STATED IN THE STANDARD SPECIFICATIONS.

RR9. FOR RAILROAD COORDINATION REFER TO THE RAILROAD'S COORDINATION REQUIREMENTS AS PART OF THE PROJECT SPECIAL PROVISIONS.

EXCAVATION NOTES

E1. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-340" SHALL BE THE EXISTING GROUNDLINE.

BACKFILL NOTES

B1. (3) UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH. THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT ANCHORAGE BY THE MSE MANUFACTURER (MSE SYSTEM, DEAD MAN ANCHOR, OTHER). ALL LOADS ARE REPORTED PERPENDICULAR TO THE ABUTMENT BACKWALL. THE FOLLOWING AASHTO LINE LOADS SHALL BE:
BR = 0.57 KLF WS = 0.14 KLF
TU = 0.55 KLF WL = 0.08 KLF

B2. DESIGN THE ABUTMENT ANCHORAGE SYSTEM ASSUMING THE PILES PROVIDE NO LATERAL RESISTANCE. THE PILES ARE ASSUMED TO CARRY ONLY THE VERTICAL LOAD OF THE CAST-IN-PLACE ABUTMENT DEAD LOAD AND THE SUPERSTRUCTURE LOADS.

B3. MINIMUM REQUIRED STRAP LENGTH FOR ABUTMENT ANCHORAGE = 0.7 TIMES THE HEIGHT OF THE ABUTMENT OR 8' MIN. HEIGHT IS DEFINED AS PAVEMENT GRADE MINUS BOTTOM OF THE ABUTMENT. THIS HEIGHT IS NOT EQUAL TO THE VERTICAL PAY LIMIT. SEE ABUTMENT DETAILS SHEETS FOR VERTICAL LIMITS.

B4. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

B5. THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, AND SHOP DRAWINGS FOR THE MSE BACKFILL SYSTEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE MSE WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "ABUTMENT ANCHORAGE".

B6. THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "ABUTMENT ANCHORAGE".

B7. ABUTMENTS TO BE BACKFILLED TO A MINIMUM OF THE BEAM SEAT ELEVATION PRIOR TO PLACING GIRDERS.

B8. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-340" AT THE PIERS AND ABUTMENTS SHALL BE THE EXISTING GROUNDLINE.

CONCRETE NOTES

C1. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

C2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

C3. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

C4. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES.

C5. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

C6. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W" PRESTRESSED GIRDER DETAILS" SHEET.

C7. CONCRETE IN THE FOLLOWING COMPONENTS TO BE PAID FOR AS "HPC MASONRY STRUCTURES".
- DECK SLAB, INCLUDING HAUNCHES
- ABUTMENT DIAPHRAGMS AND PIER DIAPHRAGMS
- PARAPETS ON BRIDGE AND ON STRUCTURAL APPROACH SLABS
- STRUCTURAL APPROACH SLABS (NOT THE APPROACH SLAB FOOTINGS)

C8. LONGITUDINAL GROOVING TO BE PLACED ONLY BETWEEN BRIDGE PARAPETS.

NO.	DATE	REVISION	BY
(3)	12/4/24	QUANTITY REVISIONS	FEG

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-340

DRAWN BY FEG | PLANS CK'D MSS

GENERAL NOTES & QUANTITIES

SHEET 3

1387

SCALE = 1.0

Addendum No. 03
ID 1130-64-72
Revised Sheet 1387
December 5, 2024

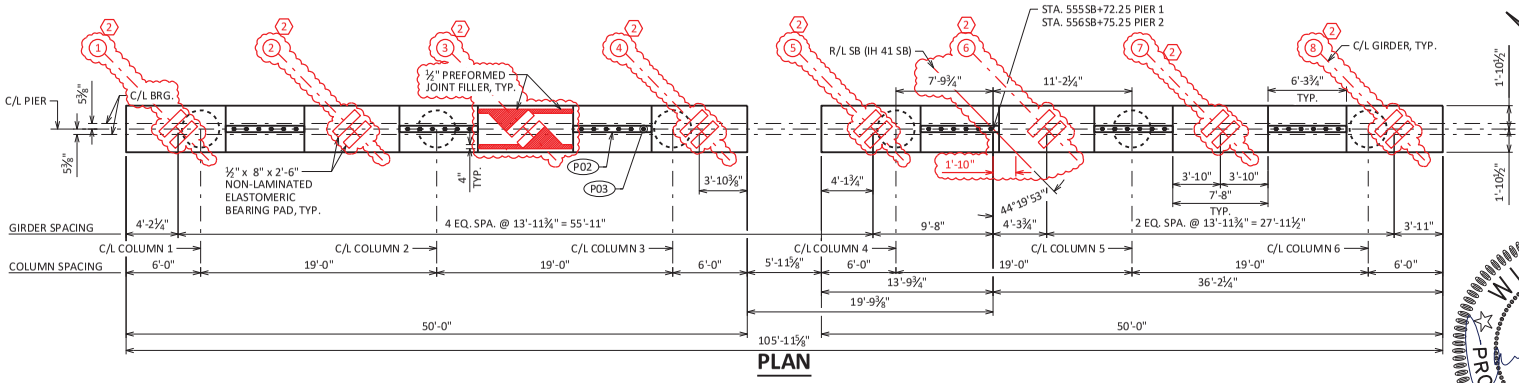
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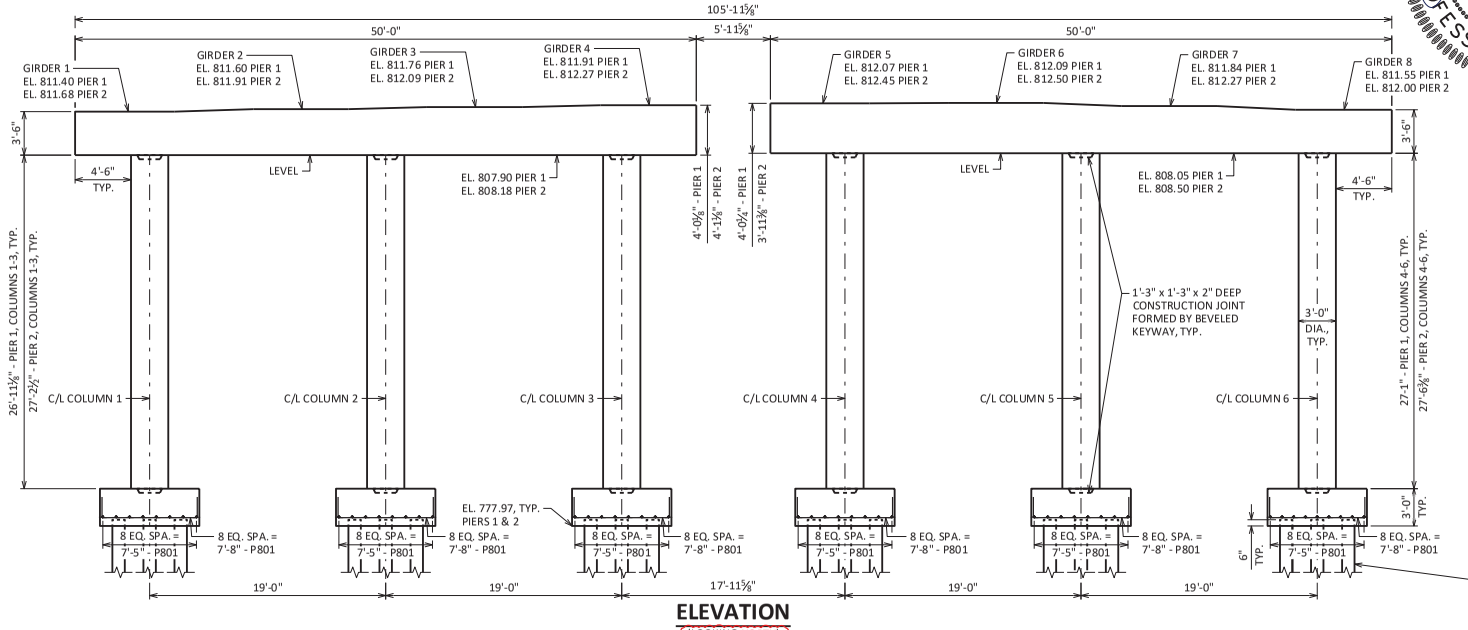
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LAYOUT NAME - GENERAL NOTES & QUANTITIES

STATE PROJECT NUMBER

1130-64-87

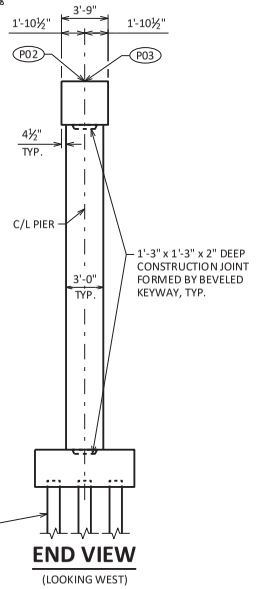


PLAN



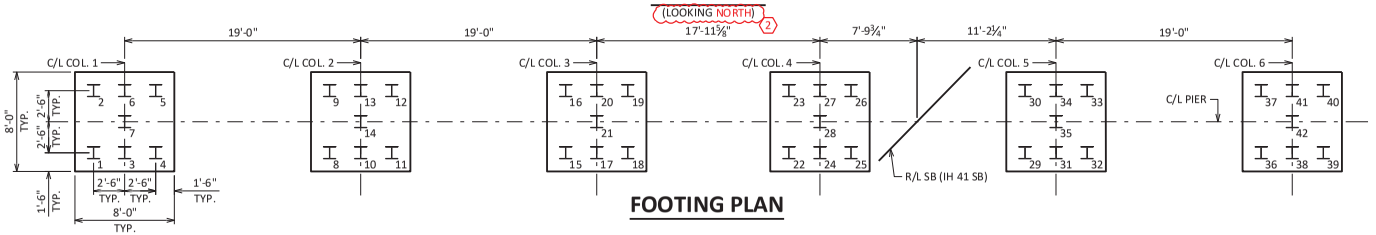
ELEVATION

(LOOKING NORTH)



END VIEW

(LOOKING WEST)



FOOTING PLAN

LEGEND

(P01) HP12x53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES ACCEPTANCE METHOD. ESTIMATED PILE LENGTH = 45 FT(PIER 1) AND 35 FT(PIER 2). PILE POINTS ARE REQUIRED.

(P02) KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" x 6" BETWEEN BEAM SEATS.

(P03) P517 BARS AT 1'-0" CENTERS MAX. BETWEEN BEAM SEATS. EMBED 1'-0" INTO CAP CONCRETE. PLACE BARS BEFORE CONCRETE HAS TAKEN INITIAL SET.

WISCONSIN PROFESSIONAL ENGINEER
CARLEE HAYDEN
E-49822
MADISON, WI
NOV 22, 2024

SDR 11/25/24

Addendum No. 03
ID 1130-64-72
Revised Sheet 1403
December 5, 2024

NO.	DATE	REVISION	BY
2	11/22/24	GIRDER ORIENTATION AT PIER	FEG

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-340

DRAWN BY FEG | PLANS CK'D HDA

PIER

SHEET 19

1403

FILE NAME : C:\USERS\FGILLEN\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\11306471\STRC\B-44-0340\SHEETS\B340_081119_PR_ADD2.DWG
LAYOUT NAME - SHT2C

STATE PROJECT NUMBER
1130-64-71

WALL ELEVATIONS

STATION	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GROUND EL.
10+00.00	788.50	787.60	783.51
10+25.00	794.85	787.60	785.45
10+50.00	801.19	787.60	784.65
10+65.00	805.00	787.60	784.96
10+75.00	805.06	787.60	784.95
11+00.00	805.20	787.60	785.79
11+25.00	805.34	787.60	786.04
11+50.00	805.48	787.60	785.63
11+75.00	805.62	787.60	785.48
12+00.00	805.76	787.60	785.51
12+25.00	805.90	787.60	785.16
12+50.00	806.04	787.60	785.13
12+75.00	806.18	787.60	785.24
13+00.00	806.32	787.60	785.28
13+25.00	806.47	787.60	786.24
13+50.00	806.61	787.60	787.04
13+75.00	806.75	787.60	787.47
14+00.00	806.89	787.60	788.10
14+25.00	807.03	787.60	788.11
14+50.00	807.17	787.60	788.19
14+75.00	807.31	787.60	788.19
15+00.00	807.45	787.60	788.20
15+25.00	807.59	787.60	788.29
15+50.00	807.73	787.60	788.00
15+75.00	807.87	787.60	787.84
16+00.00	808.01	787.60	787.94
16+25.00	808.16	787.41	786.86
16+50.00	808.30	787.21	785.30
16+75.00	808.44	787.02	783.68
17+00.00	808.58	786.83	783.90
17+25.00	808.72	786.63	784.29
17+50.00	808.86	786.44	784.31
17+75.00	809.00	786.24	784.17
18+00.00	808.53	786.05	783.59
18+25.00	808.06	785.86	783.20
18+50.00	807.59	785.66	782.06
18+75.00	807.13	785.47	782.39
19+00.00	806.66	785.28	781.06
19+25.00	806.19	785.08	780.43
19+50.00	805.72	784.89	780.95
19+75.00	805.25	784.69	781.49
20+00.00	804.78	784.50	781.91
20+25.00	804.31	784.45	781.85
20+50.00	803.84	784.40	781.88
20+75.00	803.38	784.34	781.84
20+95.00	803.00	784.30	781.81
21+00.00	802.79	784.29	781.60
21+25.00	801.73	784.24	781.00
21+50.00	800.67	784.18	780.49
21+75.00	799.61	784.13	779.72
22+00.00	798.55	784.08	779.42
22+25.00	797.49	784.03	779.26
22+50.00	796.42	783.97	779.07
22+75.00	795.36	783.92	779.15
23+00.00	794.30	783.87	779.40
23+25.00	793.24	783.82	779.49
23+50.00	792.18	783.76	779.27
23+75.00	791.12	783.71	779.01
24+00.00	790.06	783.66	778.56
24+25.00	789.00	783.61	778.32
24+50.00	786.75	783.55	777.51
24+75.00	784.50	783.50	776.76

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS				
WALL STATION RANGES	10+00 TO 14+00	14+00 TO 22+25	22+25 TO 23+75	23+75 TO 24+75
WALL STATION ANALYZED (ROADWAY STATION)	14+00 (1552WND+00)	18+00 (1548WND+00) WITH RIGID INCLUSION SUPPORT	22+25 (1543WND+75) WITH RIGID INCLUSION SUPPORT	23+75 (1542WND+25) WITH RIGID INCLUSION SUPPORT
BORING USED	WND-06	WND-04, WND-102VS, WND-103VS	WND-01, WND-02	WND-01, WND-02
WALL HEIGHT (FEET)	22.3	25.5	16.5	10.4
EXPOSED WALL HEIGHT (FEET)	19.3	22.5	13.5	7.4
MINIMUM LENGTH OF REINFORCEMENT/WALL WIDTH (FEET)	24.5	(T01) 23	(T01) 17	(T01) 11
REINFORCEMENT LENGTH/RETAINED HEIGHT RATIO	(T01) 1.1H	-	-	-
CAPACITY TO DEMAND RATIO (CDR) - EXTERNAL STABILITY				
SLIDING	1.48	(T02) 1.01	(T02) 1.39	(T02) 1.39
ECCENTRICITY	2.95	2.65	2.43	2.15
BEARING RESISTANCE	1.03	1.00	1.69	2.58
FACTORED BEARING RESISTANCE (PSF)	5,697	5,448	5,012	4,973
CAPACITY TO DEMAND RATIO (CDR) - GLOBAL STABILITY				
END OF CONSTRUCTION	1.42	1.03	1.17	1.25
LONG TERM	1.00	1.00	1.00	1.00

(T01) THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND GLOBAL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

(T02) MINIMUM SLIDING CDR PROVIDED BETWEEN BOTTOM OF WALL INTERFACE, BOTTOM OF LOAD TRANSFER PLATFORM INTERFACE, OR BOTTOM OF CAP INTERFACE.

SDR

12/05/24

WISCONSIN
CARLEE HAYDEN
E-49822
MADISON, WI
DEC 4, 2024
PROFESSIONAL ENGINEER

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-28".

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

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THESE PLANS.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE AS SHOWN ON THE "TYPICAL SECTION" SHEET OF THE RETAINING WALL PLANS.

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

SOIL REINFORCEMENT MAY BE PLACED UP TO A MAXIMUM OF 15° FROM PERPENDICULAR IF NECESSARY TO AVOID INTERFERENCE WITH ITEMS BEHIND THE WALL. ANGLES GREATER THAN 15° REQUIRE APPROVAL FROM THE BUREAU OF STRUCTURES DESIGN SECTION.

FROM WALL STATION 16+50 TO 22+00, SOIL REINFORCEMENT MAY NEED TO BE DEFLECTED VERTICALLY, UP TO A MAXIMUM OF 15°, AT THE TOP OF THE MSE ZONE TO AVOID CONFLICTS WITH THE ROADWAY PAVEMENT. COORDINATE WITH THE ROADWAY PLANS PRIOR TO PLACEMENT OF STRAPS AT THE TOP OF THE MSE ZONE.

3

MSE WALL PANELS SHALL BE 5' X 5' ONLY.

DESIGN SPECIFICATION:
AASHTO LRFD DESIGN SPECIFICATIONS, 9TH EDITION, 2020 WITH INTERIM REVISIONS, UNLESS OTHERWISE NOTED.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
MSE WALL COPING AND LEVELING PAD _____ f'_c = 3,500 PSI
PRECAST CONCRETE WALL PANELS _____ f'_c = 4,000 PSI
BAR STEEL REINFORCEMENT, GRADE 60 _____ F_y = 60,000 PSI

Addendum No. 03
ID 1130-64-72
Revised Sheet 1486
December 5, 2024

NO.	DATE	REVISION	BY
3	12/4/24	WALL PANEL SYSTEM	FEG

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-44-28

DRAWN BY EAJ | PLANS CK'D JWCIII/EKP

WALL GEOMETRY & DESIGN DATA

SHEET 5

1486

SCALE = 1.0

8

8

FILE NAME : C:\USERS\FGILLEN\DC\ACCDOCS\WISDOT\11306301\PROJECT FILES\DSGN\1130647 1\STRC\R-44-0028\SHEETS\083003_DD_ADD3.DWG
LAYOUT NAME - WALL_GEO

R/L NB - CTHA NB TRAVEL LANES

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	FILL	MARSH EXC	EBS	CUT	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00	EXPANDED EBS BACKFILL 1.00	MASS ORDINATE
221+00 AH	22100.00	0.00	45.95	1.00	0.00	0.00	0	0	0	0	0	0	0	0	0
221+44.48	22144.48	44.48	46.03	0.93	0.00	0.00	76	2	0	0	0	2	0	0	74
221+50.00	22150.00	5.52	46.05	0.95	0.00	0.00	9	0	0	0	9	2	0	0	83
221+69.48	22169.48	19.48	45.34	1.07	0.00	0.00	33	1	0	0	42	3	0	0	115
222+00.00	22200.00	30.52	42.75	1.87	0.00	0.00	50	2	0	0	92	5	0	0	163
222+19.48	22219.48	19.48	40.65	2.14	0.00	0.00	30	1	0	0	122	6	0	0	192
222+50.00	22250.00	30.52	40.64	1.32	0.00	0.00	46	2	0	0	168	8	0	0	236
223+00.00	22300.00	50.00	38.23	2.27	0.00	0.00	73	3	0	0	241	11	0	0	306
223+49 BK	22324.42	24.42	36.18	8.26	0.00	0.00	34	5	0	0	275	16	0	0	335
225+61 AH	22561.00	0.00	38.25	3.25	0.00	0.00	0	0	0	0	275	16	0	0	335
225+86 BK	22586.00	25.00	39.75	3.75	0.00	0.00	36	3	0	0	311	19	0	0	368
							387	19	0	0					

Addendum No. 03
ID 1130-64-72
Added Sheet 1649A
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	EARTHWORK DATA	SHEET 1649A	E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 49

R/L NB - CTHA SB TRAVEL LANES

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	FILL	MARSH EXC	EBS	CUT	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00	EXPANDED EBS BACKFILL 1.00	MASS ORDINATE
221+00 AH	22100.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
221+44.48	22144.48	44.48	41.35	0.00	0.00	0.00	34	0	0	0	0	0	0	0	34
221+50.00	22150.00	5.52	41.35	0.00	0.00	0.00	8	0	0	0	8	0	0	0	42
221+69.48	22169.48	19.48	41.64	0.00	0.00	0.00	30	0	0	0	38	0	0	0	72
222+00.00	22200.00	30.52	40.52	0.00	0.00	0.00	46	0	0	0	84	0	0	0	118
222+19.48	22219.48	19.48	39.18	0.00	0.00	0.00	29	0	0	0	113	0	0	0	147
222+50.00	22250.00	30.52	40.13	0.00	0.00	0.00	45	0	0	0	158	0	0	0	192
223+00.00	22300.00	50	36.36	0.00	0.00	0.00	71	0	0	0	229	0	0	0	263
223+49 BK	22324.42	24.42	42.23	0.00	0.00	0.00	36	0	0	0	265	0	0	0	299
225+61 AH	22561.00	0	38.25	0.00	0.00	0.00	0	0	0	0	265	0	0	0	299
225+86 BK	22586.00	25	37.80	0.00	0.00	0.00	35	0	0	0	300	0	0	0	334
							334	0	0	0					

Addendum No. 03
ID 1130-64-72
Added Sheet 1649B
December 5, 2024

PROJECT NO: 1130-64-72	HWY: IH 41	COUNTY: OUTAGAMIE	EARTHWORK DATA	SHEET 1649B	E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 49

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

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	201.0105 Clearing	528.000 STA	_____.____	_____.____
0004	201.0205 Grubbing	528.000 STA	_____.____	_____.____
0006	203.0100 Removing Small Pipe Culverts	3.000 EACH	_____.____	_____.____
0008	203.0220 Removing Structure (structure) 0001. 4' x 2.5' Box Culvert, STA 578+94 SB	1.000 EACH	_____.____	_____.____
0010	203.0220 Removing Structure (structure) 0802. Removing Structure C-44-0015	1.000 EACH	_____.____	_____.____
0012	203.0220 Removing Structure (structure) 0803. Removing Structure B-44-161	1.000 EACH	_____.____	_____.____
0014	203.0220 Removing Structure (structure) 0804. Removing Structure B-44-162	1.000 EACH	_____.____	_____.____
0016	203.0330 Debris Containment (structure) 0901. B-44-0339	1.000 EACH	_____.____	_____.____
0018	203.0330 Debris Containment (structure) 0902. B-44-0340	1.000 EACH	_____.____	_____.____
0020	204.0100 Removing Concrete Pavement	106,100.000 SY	_____.____	_____.____
0022	204.0115 Removing Asphaltic Surface Butt Joints	6.000 SY	_____.____	_____.____
0024	204.0120 Removing Asphaltic Surface Milling	3,618.000 SY	_____.____	_____.____
0026	204.0150 Removing Curb & Gutter	2,070.000 LF	_____.____	_____.____
0028	204.0157 Removing Concrete Barrier	8,171.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0030	204.0165 Removing Guardrail	6,253.000 LF	_____.____	_____.____
0032	204.0170 Removing Fence	23,080.000 LF	_____.____	_____.____
0034	204.0180 Removing Delineators and Markers	104.000 EACH	_____.____	_____.____
0036	204.0190 Removing Surface Drains	3.000 EACH	_____.____	_____.____
0038	204.0195 Removing Concrete Bases	8.000 EACH	_____.____	_____.____
0040	204.0210 Removing Manholes	2.000 EACH	_____.____	_____.____
0042	204.0220 Removing Inlets	31.000 EACH	_____.____	_____.____
0044	204.0245 Removing Storm Sewer (size) 0001. 12-Inch	230.000 LF	_____.____	_____.____
0046	204.0245 Removing Storm Sewer (size) 0002. 15-Inch	648.000 LF	_____.____	_____.____
0048	204.0245 Removing Storm Sewer (size) 0004. 18-Inch	1,232.000 LF	_____.____	_____.____
0050	204.0245 Removing Storm Sewer (size) 0006. 24-Inch	288.000 LF	_____.____	_____.____
0052	204.0245 Removing Storm Sewer (size) 0007. 30-Inch	225.000 LF	_____.____	_____.____
0054	204.0245 Removing Storm Sewer (size) 0008. 36-Inch	483.000 LF	_____.____	_____.____
0056	204.0245 Removing Storm Sewer (size) 0009. 42-Inch	106.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	204.0246 Removing Ancillary Structure (structure) 0001. S-44-016	1.000 EACH	_____.____	_____.____
0060	204.0270 Abandoning Culvert Pipes	1.000 EACH	_____.____	_____.____
0062	204.9060.S Removing (item description) 0001. Abandoning Monitoring Well	4.000 EACH	_____.____	_____.____
0064	204.9060.S Removing (item description) 0103. Apron Endwalls	2.000 EACH	_____.____	_____.____
0066	204.9060.S Removing (item description) 0600. Anchor Bolt Cover Shrouds	3.000 EACH	_____.____	_____.____
0068	204.9060.S Removing (item description) 0700. Communication Vault	10.000 EACH	_____.____	_____.____
0070	205.0100 Excavation Common	255,751.000 CY	_____.____	_____.____
0072	205.0400 Excavation Marsh	100.000 CY	_____.____	_____.____
0074	206.1001 Excavation for Structures Bridges (structure) 0803. B-44-339	1.000 EACH	_____.____	_____.____
0076	206.1001 Excavation for Structures Bridges (structure) 0804. B-44-340	1.000 EACH	_____.____	_____.____
0078	206.2001 Excavation for Structures Culverts (structure) 0801. B-44-0347	1.000 EACH	_____.____	_____.____
0080	206.2001 Excavation for Structures Culverts (structure) 0802. B-44-0348	1.000 EACH	_____.____	_____.____
0082	209.0200.S Backfill Controlled Low Strength	13.000 CY	_____.____	_____.____
0084	209.1100 Backfill Granular Grade 1	150.000 CY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0086	210.1500 Backfill Structure Type A	12,715.000 TON	_____.____	_____.____
0088	210.2500 Backfill Structure Type B	10,800.000 TON	_____.____	_____.____
0090	211.0201 Prepare Foundation for Concrete Pavement (project) 0001. 1130-64-71	1.000 EACH	_____.____	_____.____
0092	213.0100 Finishing Roadway (project) 0001. Project 1130-64-71	1.000 EACH	_____.____	_____.____
0094	213.0100 Finishing Roadway (project) 0002. Project 1130-64-72	1.000 EACH	_____.____	_____.____
0096	305.0110 Base Aggregate Dense 3/4-Inch	3,360.000 TON	_____.____	_____.____
0098	305.0120 Base Aggregate Dense 1 1/4-Inch	102,859.000 TON	_____.____	_____.____
0100	310.0115 Base Aggregate Open-Graded	238.000 CY	_____.____	_____.____
0102	312.0110 Select Crushed Material	278,710.000 TON	_____.____	_____.____
0104	320.0105 Concrete Base 4-Inch	6,180.000 SY	_____.____	_____.____
0106	390.0100 Removing Pavement for Base Patching	50.000 CY	_____.____	_____.____
0108	390.0201 Base Patching Asphaltic	74.000 TON	_____.____	_____.____
0110	405.0100 Coloring Concrete WisDOT Red	51.000 CY	_____.____	_____.____
0112	415.0090 Concrete Pavement 9-Inch	16,160.000 SY	_____.____	_____.____
0114	415.0095 Concrete Pavement 9 1/2-Inch	1,250.000 SY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	415.0210 Concrete Pavement Gaps	1.000 EACH	_____.____	_____.____
0118	415.0410 Concrete Pavement Approach Slab	1,276.000 SY	_____.____	_____.____
0120	415.2010 Concrete Truck Apron 12-inch	40.000 SY	_____.____	_____.____
0122	416.0610 Drilled Tie Bars	1,376.000 EACH	_____.____	_____.____
0124	416.0620 Drilled Dowel Bars	234.000 EACH	_____.____	_____.____
0126	455.0605 Tack Coat	6,539.000 GAL	_____.____	_____.____
0128	460.2000 Incentive Density HMA Pavement	9,470.000 DOL	1.00000	9,470.00
0130	460.5223 HMA Pavement 3 LT 58-28 S	771.000 TON	_____.____	_____.____
0132	460.5224 HMA Pavement 4 LT 58-28 S	663.000 TON	_____.____	_____.____
0134	465.0105 Asphaltic Surface	5,167.000 TON	_____.____	_____.____
0136	465.0125 Asphaltic Surface Temporary	10,190.000 TON	_____.____	_____.____
0138	495.1000.S Cold Patch	10.000 TON	_____.____	_____.____
0140	501.1000.S Ice Hot Weather Concreting	23,545.000 LB	_____.____	_____.____
0142	502.0100 Concrete Masonry Bridges	2,233.000 CY	_____.____	_____.____
0144	502.3101 Expansion Device	440.000 LF	_____.____	_____.____
0146	502.3200 Protective Surface Treatment	4,720.000 SY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0148	502.3210 Pigmented Surface Sealer	1,817.000 SY	_____.____	_____.____
0150	502.4204 Adhesive Anchors No. 4 Bar	4.000 EACH	_____.____	_____.____
0152	503.0146 Prestressed Girder Type I 45W-Inch	3,578.000 LF	_____.____	_____.____
0154	504.0100 Concrete Masonry Culverts	1,558.000 CY	_____.____	_____.____
0156	504.0500 Concrete Masonry Retaining Walls	1,311.000 CY	_____.____	_____.____
0158	505.0400 Bar Steel Reinforcement HS Structures	503,606.000 LB	_____.____	_____.____
0160	505.0600 Bar Steel Reinforcement HS Coated Structures	643,470.000 LB	_____.____	_____.____
0162	505.0800.S Bar Steel Reinforcement HS Stainless Structures	5,100.000 LB	_____.____	_____.____
0164	506.2605 Bearing Pads Elastomeric Non-Laminated	64.000 EACH	_____.____	_____.____
0166	506.2610 Bearing Pads Elastomeric Laminated	32.000 EACH	_____.____	_____.____
0168	506.4000 Steel Diaphragms (structure) 0803. B-44-339	28.000 EACH	_____.____	_____.____
0170	506.4000 Steel Diaphragms (structure) 0804. B-44-340	28.000 EACH	_____.____	_____.____
0172	511.1200 Temporary Shoring (structure) 0801. B-44-0347	2,050.000 SF	_____.____	_____.____
0174	511.1200 Temporary Shoring (structure) 0802. B-44-0348	22,320.000 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

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	511.1200 Temporary Shoring (structure) 0803. B-44-339	6,900.000 SF	_____.____	_____.____
0178	511.1200 Temporary Shoring (structure) 0804. B-44-340	11,000.000 SF	_____.____	_____.____
0180	511.1200 Temporary Shoring (structure) 0901. R-44-28	22,452.000 SF	_____.____	_____.____
0182	513.2001 Railing Pipe	1,518.000 LF	_____.____	_____.____
0184	516.0500 Rubberized Membrane Waterproofing	349.000 SY	_____.____	_____.____
0186	520.2036 Culvert Pipe Temporary 36-Inch	150.000 LF	_____.____	_____.____
0188	520.8000 Concrete Collars for Pipe	4.000 EACH	_____.____	_____.____
0190	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	18.000 LF	_____.____	_____.____
0192	522.0415 Culvert Pipe Reinforced Concrete Class IV 15-Inch	115.000 LF	_____.____	_____.____
0194	522.0424 Culvert Pipe Reinforced Concrete Class IV 24-Inch	53.000 LF	_____.____	_____.____
0196	522.0442 Culvert Pipe Reinforced Concrete Class IV 42-Inch	53.000 LF	_____.____	_____.____
0198	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	12.000 EACH	_____.____	_____.____
0200	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	16.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0202	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	18.000 EACH	_____.____	_____.____
0204	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	5.000 EACH	_____.____	_____.____
0206	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	6.000 EACH	_____.____	_____.____
0208	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	4.000 EACH	_____.____	_____.____
0210	522.1072 Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	1.000 EACH	_____.____	_____.____
0212	522.2414 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	133.000 LF	_____.____	_____.____
0214	522.2614 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	7.000 EACH	_____.____	_____.____
0216	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	3.000 EACH	_____.____	_____.____
0218	522.2624 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	2.000 EACH	_____.____	_____.____
0220	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____.____	_____.____
0222	524.0618 Apron Endwalls for Culvert Pipe Salvaged 18-Inch	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0224	524.0630 Apron Endwalls for Culvert Pipe Salvaged 30-Inch	1.000 EACH	_____.____	_____.____
0226	524.0636 Apron Endwalls for Culvert Pipe Salvaged 36-Inch	1.000 EACH	_____.____	_____.____
0228	524.0642 Apron Endwalls for Culvert Pipe Salvaged 42-Inch	1.000 EACH	_____.____	_____.____
0230	531.1100 Concrete Masonry Ancillary Structures Type NS	76.200 CY	_____.____	_____.____
0232	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	6,642.000 LB	_____.____	_____.____
0234	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	6,630.000 LB	_____.____	_____.____
0236	531.2024 Drilling Shaft 24-Inch	143.000 LF	_____.____	_____.____
0238	531.2030 Drilling Shaft 30-Inch	60.000 LF	_____.____	_____.____
0240	531.2036 Drilling Shaft 36-Inch	402.000 LF	_____.____	_____.____
0242	531.2042 Drilling Shaft 42-Inch	158.000 LF	_____.____	_____.____
0244	531.2048 Drilling Shaft 48-Inch	46.000 LF	_____.____	_____.____
0246	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0248	531.5030 Foundation Two-Shaft Butterfly Type B-1 (structure) 1001. S-44-350	1.000 EACH	_____.____	_____.____
0250	531.5030 Foundation Two-Shaft Butterfly Type B-1 (structure) 1002. S-44-363	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0252	531.5330 Foundation Single-Shaft Type TC-III (structure) 1001. S-44-0333	1.000 EACH	_____.____	_____.____
0254	531.5330 Foundation Single-Shaft Type TC-III (structure) 1002. S-44-0334	1.000 EACH	_____.____	_____.____
0256	531.5420 Foundation Single-Shaft Type TF-II (structure) 0001. S-44-347	2.000 EACH	_____.____	_____.____
0258	531.6120 Foundation Two-Shaft Type FF-II (structure) 1001. S-44-348	2.000 EACH	_____.____	_____.____
0260	531.6120 Foundation Two-Shaft Type FF-II (structure) 1002. S-44-349	2.000 EACH	_____.____	_____.____
0262	531.6120 Foundation Two-Shaft Type FF-II (structure) 1003. S-44-0322	2.000 EACH	_____.____	_____.____
0264	531.6120 Foundation Two-Shaft Type FF-II (structure) 1004. S-44-0330	2.000 EACH	_____.____	_____.____
0266	531.6130 Foundation Two-Shaft Type FF-III (structure) 0001. S-44-0323	2.000 EACH	_____.____	_____.____
0268	531.8990 Anchor Assemblies Poles on Structures	5.000 EACH	_____.____	_____.____
0270	532.5030 Butterfly 2-Chord Type 1 (structure) 1001. S-44-350	1.000 EACH	_____.____	_____.____
0272	532.5030 Butterfly 2-Chord Type 1 (structure) 1002. S-44-363	1.000 EACH	_____.____	_____.____
0274	532.5220 Monotube Full Span Type II (structure) 0001. S-44-347	1.000 EACH	_____.____	_____.____
0276	532.5330 Truss Cantilever 2-Chord Type III (structure) 1001. S-44-0333	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0278	532.5330 Truss Cantilever 2-Chord Type III (structure) 1002. S-44-0334	1.000 EACH	_____.____	_____.____
0280	532.6120 Truss Full Span 4-Chord Type II (structure) 1001. S-44-348	1.000 EACH	_____.____	_____.____
0282	532.6120 Truss Full Span 4-Chord Type II (structure) 1002. S-44-349	1.000 EACH	_____.____	_____.____
0284	532.6120 Truss Full Span 4-Chord Type II (structure) 1003. S-44-0322	1.000 EACH	_____.____	_____.____
0286	532.6120 Truss Full Span 4-Chord Type II (structure) 1004. S-44-0330	1.000 EACH	_____.____	_____.____
0288	532.6120 Truss Full Span 4-Chord Type II (structure) 1005. S-44-332	1.000 EACH	_____.____	_____.____
0290	532.6130 Truss Full Span 4-Chord Type III (structure) 0001. S-44-0323	1.000 EACH	_____.____	_____.____
0292	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0951. N-44-0011	69,860.000 SF	_____.____	_____.____
0294	541.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 0952. N-44-0020	55,530.000 SF	_____.____	_____.____
0296	550.0020 Pre-Boring Rock or Consolidated Materials	5,220.000 LF	_____.____	_____.____
0298	550.0500 Pile Points	228.000 EACH	_____.____	_____.____
0300	550.1120 Piling Steel HP 12-Inch X 53 Lb	9,870.000 LF	_____.____	_____.____
0304	601.0405 Concrete Curb & Gutter 18-Inch Type A	1,610.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0306	601.0409 Concrete Curb & Gutter 30-Inch Type A	1,129.000 LF	_____.____	_____.____
0308	601.0411 Concrete Curb & Gutter 30-Inch Type D	1,450.000 LF	_____.____	_____.____
0310	601.0501 Concrete Curb & Gutter Integral 4-Inch Sloped 36-Inch	62.000 LF	_____.____	_____.____
0312	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	1,270.000 LF	_____.____	_____.____
0314	601.0588 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	19.000 LF	_____.____	_____.____
0316	601.0600 Concrete Curb Pedestrian	72.000 LF	_____.____	_____.____
0318	602.0405 Concrete Sidewalk 4-Inch	4,290.000 SF	_____.____	_____.____
0320	602.0415 Concrete Sidewalk 6-Inch	111.000 SF	_____.____	_____.____
0322	602.0505 Curb Ramp Detectable Warning Field Yellow	80.000 SF	_____.____	_____.____
0324	602.3210 Concrete Rumble Strips, Shoulder Divided Roadway	52,255.000 LF	_____.____	_____.____
0326	603.0105 Concrete Barrier Single-Faced 32-Inch	2,850.000 LF	_____.____	_____.____
0328	603.1256 Concrete Barrier Type S56A	120.000 LF	_____.____	_____.____
0330	603.1442 Concrete Barrier Type S42C	228.000 LF	_____.____	_____.____
0332	603.1456 Concrete Barrier Type S56C	61.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0334	603.3113 Concrete Barrier Transition Type NJ32SF to S36	4.000 EACH	_____.____	_____.____
0336	603.3513 Concrete Barrier Transition Type S32 to S36	2.000 EACH	_____.____	_____.____
0338	603.3535 Concrete Barrier Transition Type S36 to S42	6.000 EACH	_____.____	_____.____
0340	603.3559 Concrete Barrier Transition Type S42 to S56	4.000 EACH	_____.____	_____.____
0342	603.8000 Concrete Barrier Temporary Precast Delivered	63,364.000 LF	_____.____	_____.____
0344	603.8125 Concrete Barrier Temporary Precast Installed	172,079.000 LF	_____.____	_____.____
0346	603.8500 Anchoring Concrete Barrier Temporary Precast	6,010.000 LF	_____.____	_____.____
0348	604.0600 Slope Paving Select Crushed Material	3,242.000 SY	_____.____	_____.____
0350	606.0050 Riprap Extra-Light	732.000 CY	_____.____	_____.____
0352	606.0200 Riprap Medium	1,231.000 CY	_____.____	_____.____
0354	606.0300 Riprap Heavy	193.000 CY	_____.____	_____.____
0356	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	26.000 LF	_____.____	_____.____
0358	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	471.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0360	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	867.000 LF	_____.____	_____.____
0362	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	1,588.000 LF	_____.____	_____.____
0364	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	1,007.000 LF	_____.____	_____.____
0366	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	889.000 LF	_____.____	_____.____
0368	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	92.000 LF	_____.____	_____.____
0370	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	581.000 LF	_____.____	_____.____
0372	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	4,620.000 LF	_____.____	_____.____
0374	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	4,954.000 LF	_____.____	_____.____
0376	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	472.000 LF	_____.____	_____.____
0378	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	2,428.000 LF	_____.____	_____.____
0380	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	1,618.000 LF	_____.____	_____.____
0382	608.0472 Storm Sewer Pipe Reinforced Concrete Class IV 72-Inch	75.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0384	608.2324 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	134.000 LF	_____.____	_____.____
0386	608.2414 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	438.000 LF	_____.____	_____.____
0388	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	115.000 LF	_____.____	_____.____
0390	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	613.000 LF	_____.____	_____.____
0392	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	733.000 LF	_____.____	_____.____
0394	611.0420 Reconstructing Manholes	100.000 EACH	_____.____	_____.____
0396	611.0430 Reconstructing Inlets	15.000 EACH	_____.____	_____.____
0398	611.0530 Manhole Covers Type J	18.000 EACH	_____.____	_____.____
0400	611.0535 Manhole Covers Type J-Special	16.000 EACH	_____.____	_____.____
0402	611.0606 Inlet Covers Type B	2.000 EACH	_____.____	_____.____
0404	611.0610 Inlet Covers Type BW	26.000 EACH	_____.____	_____.____
0406	611.0612 Inlet Covers Type C	10.000 EACH	_____.____	_____.____
0408	611.0624 Inlet Covers Type H	6.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0410	611.0627 Inlet Covers Type HM	4.000 EACH	_____.____	_____.____
0412	611.0636 Inlet Covers Type HM-S	2.000 EACH	_____.____	_____.____
0414	611.0639 Inlet Covers Type H-S	7.000 EACH	_____.____	_____.____
0416	611.0642 Inlet Covers Type MS	31.000 EACH	_____.____	_____.____
0418	611.0654 Inlet Covers Type V	1.000 EACH	_____.____	_____.____
0420	611.0656 Inlet Covers Type VV-B	233.000 EACH	_____.____	_____.____
0422	611.0666 Inlet Covers Type Z	5.000 EACH	_____.____	_____.____
0424	611.2004 Manholes 4-FT Diameter	4.000 EACH	_____.____	_____.____
0426	611.2005 Manholes 5-FT Diameter	188.000 EACH	_____.____	_____.____
0428	611.2006 Manholes 6-FT Diameter	33.000 EACH	_____.____	_____.____
0430	611.2007 Manholes 7-FT Diameter	17.000 EACH	_____.____	_____.____
0432	611.2008 Manholes 8-FT Diameter	4.000 EACH	_____.____	_____.____
0434	611.2010 Manholes 10-FT Diameter	2.000 EACH	_____.____	_____.____
0436	611.2033 Manholes 3x3-FT	3.000 EACH	_____.____	_____.____
0438	611.3003 Inlets 3-FT Diameter	12.000 EACH	_____.____	_____.____
0440	611.3004 Inlets 4-FT Diameter	6.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0442	611.3225 Inlets 2x2.5-FT	13.000 EACH	_____.____	_____.____
0444	611.3230 Inlets 2x3-FT	11.000 EACH	_____.____	_____.____
0446	611.3901 Inlets Median 1 Grate	11.000 EACH	_____.____	_____.____
0448	611.3902 Inlets Median 2 Grate	8.000 EACH	_____.____	_____.____
0450	611.8110 Adjusting Manhole Covers	45.000 EACH	_____.____	_____.____
0452	611.8115 Adjusting Inlet Covers	6.000 EACH	_____.____	_____.____
0454	611.8120.S Cover Plates Temporary	236.000 EACH	_____.____	_____.____
0456	611.9710 Salvaged Inlet Covers	2.000 EACH	_____.____	_____.____
0458	611.9850.S Pipe Grates (size) 0001. 30-Inch	1.000 EACH	_____.____	_____.____
0460	612.0106 Pipe Underdrain 6-Inch	7,858.000 LF	_____.____	_____.____
0462	612.0206 Pipe Underdrain Unperforated 6-Inch	60.000 LF	_____.____	_____.____
0464	612.0406 Pipe Underdrain Wrapped 6-Inch	7,131.000 LF	_____.____	_____.____
0466	614.0150 Anchor Assemblies for Steel Plate Beam Guard	1.000 EACH	_____.____	_____.____
0468	614.0397 Guardrail Mow Strip Emulsified Asphalt	387.000 SY	_____.____	_____.____
0470	614.0800 Crash Cushions Permanent	1.000 EACH	_____.____	_____.____
0472	614.0905 Crash Cushions Temporary	49.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0474	614.2300 MGS Guardrail 3	350.000 LF	_____.____	_____.____
0476	614.2340 MGS Guardrail 3 L	25.000 LF	_____.____	_____.____
0478	614.2500 MGS Thrie Beam Transition	197.000 LF	_____.____	_____.____
0480	614.2610 MGS Guardrail Terminal EAT	5.000 EACH	_____.____	_____.____
0482	616.0205 Fence Chain Link 5-FT	10.000 LF	_____.____	_____.____
0484	616.0206 Fence Chain Link 6-FT	21,344.000 LF	_____.____	_____.____
0486	616.0329 Gates Chain Link (width) 0001. 12-FT	1.000 EACH	_____.____	_____.____
0488	616.0700.S Fence Safety	1,300.000 LF	_____.____	_____.____
0490	616.0800.S Fence Track Clearance	560.000 LF	_____.____	_____.____
0492	618.0100 Maintenance and Repair of Haul Roads (project) 0001. Project 1130-64-71	1.000 EACH	_____.____	_____.____
0494	618.0100 Maintenance and Repair of Haul Roads (project) 0002. Project 1130-64-72	1.000 EACH	_____.____	_____.____
0496	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0498	620.0300 Concrete Median Sloped Nose	102.000 SF	_____.____	_____.____
0500	623.0200 Dust Control Surface Treatment	293,300.000 SY	_____.____	_____.____
0502	624.0100 Water	2,690.000 MGAL	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0504	625.0500 Salvaged Topsoil	185,200.000 SY	_____.____	_____.____
0506	628.1504 Silt Fence	10,270.000 LF	_____.____	_____.____
0508	628.1520 Silt Fence Maintenance	48,100.000 LF	_____.____	_____.____
0510	628.1530.S Silt Fence Heavy Duty	900.000 LF	_____.____	_____.____
0512	628.1535.S Silt Fence Heavy Duty Maintenance	13,500.000 LF	_____.____	_____.____
0514	628.1905 Mobilizations Erosion Control	63.000 EACH	_____.____	_____.____
0516	628.1910 Mobilizations Emergency Erosion Control	42.000 EACH	_____.____	_____.____
0518	628.2004 Erosion Mat Class I Type B	173,600.000 SY	_____.____	_____.____
0520	628.2008 Erosion Mat Urban Class I Type B	14,030.000 SY	_____.____	_____.____
0522	628.7005 Inlet Protection Type A	286.000 EACH	_____.____	_____.____
0524	628.7010 Inlet Protection Type B	349.000 EACH	_____.____	_____.____
0526	628.7015 Inlet Protection Type C	17.000 EACH	_____.____	_____.____
0528	628.7020 Inlet Protection Type D	16.000 EACH	_____.____	_____.____
0530	628.7504 Temporary Ditch Checks	3,105.000 LF	_____.____	_____.____
0532	628.7515.S Stone Ditch Checks	156.000 CY	_____.____	_____.____
0534	628.7555 Culvert Pipe Checks	169.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0536	628.7560 Tracking Pads	12.000 EACH	_____.____	_____.____
0538	628.7570 Rock Bags	895.000 EACH	_____.____	_____.____
0540	629.0210 Fertilizer Type B	83.000 CWT	_____.____	_____.____
0542	630.0130 Seeding Mixture No. 30	8,390.000 LB	_____.____	_____.____
0544	630.0200 Seeding Temporary	620.000 LB	_____.____	_____.____
0546	630.0500 Seed Water	4,300.000 MGAL	_____.____	_____.____
0548	633.0100 Delineator Posts Steel	81.000 EACH	_____.____	_____.____
0550	633.0500 Delineator Reflectors	81.000 EACH	_____.____	_____.____
0552	633.1000 Delineators Barrier Wall	165.000 EACH	_____.____	_____.____
0554	633.5200 Markers Culvert End	77.000 EACH	_____.____	_____.____
0556	634.0614 Posts Wood 4x6-Inch X 14-FT	12.000 EACH	_____.____	_____.____
0558	634.0616 Posts Wood 4x6-Inch X 16-FT	20.000 EACH	_____.____	_____.____
0560	634.0618 Posts Wood 4x6-Inch X 18-FT	11.000 EACH	_____.____	_____.____
0562	634.0808 Posts Tubular Steel 2x2-Inch X 8-FT	52.000 EACH	_____.____	_____.____
0564	635.0200 Sign Supports Structural Steel HS	10,730.000 LB	_____.____	_____.____
0566	637.1220 Signs Type I Reflective SH	3,926.500 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0568	637.1230 Signs Type I Reflective F	90.000 SF	_____.____	_____.____
0570	637.2210 Signs Type II Reflective H	804.750 SF	_____.____	_____.____
0572	637.2215 Signs Type II Reflective H Folding	20.720 SF	_____.____	_____.____
0574	637.2230 Signs Type II Reflective F	132.000 SF	_____.____	_____.____
0576	638.2102 Moving Signs Type II	52.000 EACH	_____.____	_____.____
0578	638.2601 Removing Signs Type I	12.000 EACH	_____.____	_____.____
0580	638.2602 Removing Signs Type II	58.000 EACH	_____.____	_____.____
0582	638.3000 Removing Small Sign Supports	73.000 EACH	_____.____	_____.____
0584	638.3100 Removing Structural Steel Sign Supports	16.000 EACH	_____.____	_____.____
0586	640.1303.S Pond Liner Clay	4,726.000 CY	_____.____	_____.____
0588	643.0300 Traffic Control Drums	247,951.000 DAY	_____.____	_____.____
0590	643.0410 Traffic Control Barricades Type II	330.000 DAY	_____.____	_____.____
0592	643.0420 Traffic Control Barricades Type III	10,809.000 DAY	_____.____	_____.____
0594	643.0500 Traffic Control Flexible Tubular Marker Posts	126.000 EACH	_____.____	_____.____
0596	643.0600 Traffic Control Flexible Tubular Marker Bases	126.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0598	643.0705 Traffic Control Warning Lights Type A	21,598.000 DAY	_____.____	_____.____
0600	643.0715 Traffic Control Warning Lights Type C	22,354.000 DAY	_____.____	_____.____
0602	643.0800 Traffic Control Arrow Boards	2,705.000 DAY	_____.____	_____.____
0604	643.0900 Traffic Control Signs	110,254.000 DAY	_____.____	_____.____
0606	643.0910 Traffic Control Covering Signs Type I	23.000 EACH	_____.____	_____.____
0608	643.0920 Traffic Control Covering Signs Type II	34.000 EACH	_____.____	_____.____
0610	643.1000 Traffic Control Signs Fixed Message	835.500 SF	_____.____	_____.____
0612	643.1050 Traffic Control Signs PCMS	2,292.000 DAY	_____.____	_____.____
0614	643.3165 Temporary Marking Line Paint 6-Inch	227,801.000 LF	_____.____	_____.____
0616	643.3170 Temporary Marking Line Epoxy 6-Inch	93,708.000 LF	_____.____	_____.____
0618	643.3265 Temporary Marking Line Paint 10-Inch	11,247.000 LF	_____.____	_____.____
0620	643.3270 Temporary Marking Line Epoxy 10-Inch	3,036.000 LF	_____.____	_____.____
0622	643.3760 Temporary Marking Raised Pavement Marker Type I	498.000 EACH	_____.____	_____.____
0624	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0626	644.1601 Temporary Pedestrian Curb Ramp	305.000 DAY	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0628	644.1605 Temporary Pedestrian Detectable Warning Field	136.000 SF	_____.____	_____.____
0630	644.1810 Temporary Pedestrian Barricade	1,500.000 LF	_____.____	_____.____
0632	645.0111 Geotextile Type DF Schedule A	3,493.000 SY	_____.____	_____.____
0634	645.0120 Geotextile Type HR	10,790.000 SY	_____.____	_____.____
0636	645.0130 Geotextile Type R	165.000 SY	_____.____	_____.____
0638	646.2020 Marking Line Epoxy 6-Inch	84,460.000 LF	_____.____	_____.____
0640	646.2025 Marking Line Grooved Black Epoxy 6-Inch	300.000 LF	_____.____	_____.____
0642	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	4,010.000 LF	_____.____	_____.____
0644	646.2050 Marking Line Grooved Permanent Tape 6-Inch	300.000 LF	_____.____	_____.____
0646	646.4020 Marking Line Epoxy 10-Inch	7,629.000 LF	_____.____	_____.____
0648	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	261.000 LF	_____.____	_____.____
0650	646.4050 Marking Line Grooved Permanent Tape 10-Inch	1,574.000 LF	_____.____	_____.____
0652	646.5020 Marking Arrow Epoxy	13.000 EACH	_____.____	_____.____
0654	646.5120 Marking Word Epoxy	5.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0656	646.6120 Marking Stop Line Epoxy 18-Inch	60.000 LF	_____.____	_____.____
0658	646.7220 Marking Chevron Epoxy 24-Inch	156.000 LF	_____.____	_____.____
0660	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	244.000 LF	_____.____	_____.____
0662	646.9010 Marking Removal Line Water Blasting 4-Inch	35,683.000 LF	_____.____	_____.____
0664	646.9012 Marking Removal Line Water Blasting 6-Inch	3,963.000 LF	_____.____	_____.____
0666	652.0125 Conduit Rigid Metallic 2-Inch	420.000 LF	_____.____	_____.____
0668	652.0210 Conduit Rigid Nonmetallic Schedule 40 1-Inch	135.000 LF	_____.____	_____.____
0670	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	16,288.000 LF	_____.____	_____.____
0672	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,887.000 LF	_____.____	_____.____
0674	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	1,005.000 LF	_____.____	_____.____
0676	652.0615 Conduit Special 3-Inch	640.000 LF	_____.____	_____.____
0678	652.0700.S Install Conduit into Existing Item	14.000 EACH	_____.____	_____.____
0680	652.0800 Conduit Loop Detector	538.000 LF	_____.____	_____.____
0682	653.0154 Pull Boxes Non-Conductive 24x36-Inch	12.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0684	653.0164 Pull Boxes Non-Conductive 24x42-Inch	32.000 EACH	_____.____	_____.____
0686	653.0220 Junction Boxes 18x6x6-Inch	4.000 EACH	_____.____	_____.____
0688	653.0222 Junction Boxes 18x12x6-Inch	7.000 EACH	_____.____	_____.____
0690	653.0900 Adjusting Pull Boxes	1.000 EACH	_____.____	_____.____
0692	653.0905 Removing Pull Boxes	16.000 EACH	_____.____	_____.____
0694	654.0101 Concrete Bases Type 1	5.000 EACH	_____.____	_____.____
0696	654.0105 Concrete Bases Type 5	10.000 EACH	_____.____	_____.____
0698	654.0107 Concrete Bases Type 7	11.000 EACH	_____.____	_____.____
0700	654.0110 Concrete Bases Type 10	1.000 EACH	_____.____	_____.____
0702	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.____	_____.____
0704	655.0230 Cable Traffic Signal 5-14 AWG	5,449.000 LF	_____.____	_____.____
0706	655.0240 Cable Traffic Signal 7-14 AWG	31.000 LF	_____.____	_____.____
0708	655.0260 Cable Traffic Signal 12-14 AWG	1,397.000 LF	_____.____	_____.____
0710	655.0305 Cable Type UF 2-12 AWG Grounded	1,879.000 LF	_____.____	_____.____
0712	655.0515 Electrical Wire Traffic Signals 10 AWG	2,843.000 LF	_____.____	_____.____
0714	655.0610 Electrical Wire Lighting 12 AWG	24,665.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0716	655.0625 Electrical Wire Lighting 6 AWG	8,620.000 LF	_____.____	_____.____
0718	655.0630 Electrical Wire Lighting 4 AWG	24,553.000 LF	_____.____	_____.____
0720	655.0635 Electrical Wire Lighting 2 AWG	42,654.000 LF	_____.____	_____.____
0722	655.0700 Loop Detector Lead In Cable	3,067.000 LF	_____.____	_____.____
0724	655.0800 Loop Detector Wire	2,075.000 LF	_____.____	_____.____
0726	655.0900 Traffic Signal EVP Detector Cable	1,663.000 LF	_____.____	_____.____
0728	656.0201 Electrical Service Meter Breaker Pedestal (location) 0001. CB100	1.000 EACH	_____.____	_____.____
0730	656.0201 Electrical Service Meter Breaker Pedestal (location) 0002. MB2-2	1.000 EACH	_____.____	_____.____
0732	656.0501 Electrical Service Breaker Disconnect Box (location) 0001. CB2-2	1.000 EACH	_____.____	_____.____
0734	656.0501 Electrical Service Breaker Disconnect Box (location) 0002. CB2-3	1.000 EACH	_____.____	_____.____
0736	657.0100 Pedestal Bases	5.000 EACH	_____.____	_____.____
0738	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	44.000 EACH	_____.____	_____.____
0740	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	10.000 EACH	_____.____	_____.____
0742	657.0322 Poles Type 5-Aluminum	8.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0744	657.0337 Poles Type 17-Aluminum	44.000 EACH	_____.____	_____.____
0746	657.0350 Poles Type 10	1.000 EACH	_____.____	_____.____
0748	657.0420 Traffic Signal Standards Aluminum 13-FT	2.000 EACH	_____.____	_____.____
0750	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.____	_____.____
0752	657.0430 Traffic Signal Standards Aluminum 10-FT	2.000 EACH	_____.____	_____.____
0754	657.0520 Monotube Arms 20-FT	1.000 EACH	_____.____	_____.____
0756	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	74.000 EACH	_____.____	_____.____
0758	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	2.000 EACH	_____.____	_____.____
0760	657.0812 Luminaire Arms Steel 12-FT	1.000 EACH	_____.____	_____.____
0762	658.0173 Traffic Signal Face 3S 12-Inch	5.000 EACH	_____.____	_____.____
0764	658.0174 Traffic Signal Face 4S 12-Inch	1.000 EACH	_____.____	_____.____
0766	658.0416 Pedestrian Signal Face 16-Inch	6.000 EACH	_____.____	_____.____
0768	658.0500 Pedestrian Push Buttons	5.000 EACH	_____.____	_____.____
0770	658.5070 Signal Mounting Hardware (location) 0001. IH 41 NB & STH 96 (S44-0309)	1.000 EACH	_____.____	_____.____
0772	658.5070 Signal Mounting Hardware (location) 0002. IH 41 SB & STH 96 (S44-1403)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0774	659.1120 Luminaires Utility LED B	3.000 EACH	_____.____	_____.____
0776	659.1125 Luminaires Utility LED C	74.000 EACH	_____.____	_____.____
0778	659.2130 Lighting Control Cabinets 120/240 30-Inch	1.000 EACH	_____.____	_____.____
0780	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	20.000 EACH	_____.____	_____.____
0782	662.1037.S Ramp Closure Gates 37-FT	1.000 EACH	_____.____	_____.____
0784	662.1040.S Ramp Closure Gates 40-FT	1.000 EACH	_____.____	_____.____
0786	670.0101 Field System Integrator	1.000 EACH	_____.____	_____.____
0788	670.0201 ITS Documentation	1.000 EACH	_____.____	_____.____
0790	671.0132 Conduit HDPE 3-Duct 2-Inch	7,572.000 LF	_____.____	_____.____
0792	671.0232 Conduit HDPE Directional Bore 3-Duct 2-Inch	302.000 LF	_____.____	_____.____
0794	671.0300 Fiber Optic Cable Marker	12.000 EACH	_____.____	_____.____
0796	673.0105 Communication Vault Type 1	7.000 EACH	_____.____	_____.____
0798	673.0200 Tracer Wire Marker Posts	14.000 EACH	_____.____	_____.____
0800	673.1225.S Install Pole Mounted Cabinet	7.000 EACH	_____.____	_____.____
0802	674.0200 Cable Microwave Detector	10,812.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0804	674.0300 Remove Cable	10,205.000 LF	_____.____	_____.____
0806	675.0300 Install Mounted Controller Microwave Detector Assembly	7.000 EACH	_____.____	_____.____
0808	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0810	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0812	678.0012 Install Fiber Optic Cable Outdoor Plant 12-CT	4,140.000 LF	_____.____	_____.____
0814	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	8,342.000 LF	_____.____	_____.____
0816	678.0200 Fiber Optic Splice Enclosure	6.000 EACH	_____.____	_____.____
0818	678.0300 Fiber Optic Splice	166.000 EACH	_____.____	_____.____
0820	678.0400 Fiber Optic Termination	28.000 EACH	_____.____	_____.____
0822	678.0501 Communication System Testing	2.000 EACH	_____.____	_____.____
0824	678.0600 Install Ethernet Switches	3.000 EACH	_____.____	_____.____
0826	678.0700 Install Wireless Antennas	1.000 EACH	_____.____	_____.____
0828	690.0150 Sawing Asphalt	10,572.000 LF	_____.____	_____.____
0830	690.0250 Sawing Concrete	8,510.000 LF	_____.____	_____.____
0832	715.0502 Incentive Strength Concrete Structures	40,632.000 DOL	1.00000	40,632.00

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0834	715.0603 Incentive Strength Concrete Barrier	26,359.000 DOL	1.00000	26,359.00
0836	715.0715 Incentive Flexural Strength Concrete Pavement	67,905.000 DOL	1.00000	67,905.00
0838	740.0440 Incentive IRI Ride	105,621.000 DOL	1.00000	105,621.00
0840	801.0117 Railroad Flagging Reimbursement	125,300.000 DOL	1.00000	125,300.00
0842	999.1001.S Seismograph (project) 0001. 1130-64-72	1.000 EACH	_____.____	_____.____
0844	999.1501.S Crack and Damage Survey	14.000 EACH	_____.____	_____.____
0846	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000	10,500.00
0848	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	5,760.000 HRS	5.00000	28,800.00
0850	SPV.0035 Special 0100. Roadway Embankment	128,100.000 CY	_____.____	_____.____
0852	SPV.0035 Special 0800. HPC Masonry Structures	1,670.000 CY	_____.____	_____.____
0854	SPV.0060 Special 0100. Baseline CPM Progress Schedule	1.000 EACH	_____.____	_____.____
0856	SPV.0060 Special 0105. CPM Progress Schedule and Accepted Revisions	17.000 EACH	_____.____	_____.____
0858	SPV.0060 Special 0110. Construction Staking Survey Project 1130-64-71	1.000 EACH	_____.____	_____.____
0860	SPV.0060 Special 0115. Construction Staking Survey Project 1130-64-72	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0862	SPV.0060 Special 0120. Construction Staking Survey Project 1130-64-87	1.000 EACH	_____.____	_____.____
0864	SPV.0060 Special 0125. Removing Cover Plates	56.000 EACH	_____.____	_____.____
0866	SPV.0060 Special 0126. Removing Storm Sewer Plug	5.000 EACH	_____.____	_____.____
0868	SPV.0060 Special 0127. Sawing Concrete Barrier Single Faced	3.000 EACH	_____.____	_____.____
0870	SPV.0060 Special 0140. Concrete Barrier Transition	1.000 EACH	_____.____	_____.____
0872	SPV.0060 Special 0160. Mobilizations Emergency Pavement Repair	2.000 EACH	_____.____	_____.____
0874	SPV.0060 Special 0205. Pond APC Outlet Storm Sewer Structure	1.000 EACH	_____.____	_____.____
0876	SPV.0060 Special 0210. Storm Sewer Plug	96.000 EACH	_____.____	_____.____
0878	SPV.0060 Special 0215. Reconnect Storm Sewer	131.000 EACH	_____.____	_____.____
0880	SPV.0060 Special 0220. Fastening Sewer Access Covers	21.000 EACH	_____.____	_____.____
0882	SPV.0060 Special 0225. Cover Plates	8.000 EACH	_____.____	_____.____
0884	SPV.0060 Special 0230. Inlet Covers Type Y	13.000 EACH	_____.____	_____.____
0886	SPV.0060 Special 0235. Detention Pond Anti Seep Collar	1.000 EACH	_____.____	_____.____
0888	SPV.0060 Special 0240. Sealing Storm Structure	18.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0890	SPV.0060 Special 0245. Inlets 2.25X3.5-FT	8.000 EACH	_____.____	_____.____
0892	SPV.0060 Special 0255. Temporary Water Diversion B-44-0347	1.000 EACH	_____.____	_____.____
0894	SPV.0060 Special 0260. Temporary Water Diversion B-44-0347	1.000 EACH	_____.____	_____.____
0896	SPV.0060 Special 0265. Temporary Water Diversion B-44-0348	1.000 EACH	_____.____	_____.____
0898	SPV.0060 Special 0305. Emergency Response to Traffic Involving Concrete Barrier Temporary	33.000 EACH	_____.____	_____.____
0900	SPV.0060 Special 0310. Emergency Response to Traffic Involving Crash Cushion Temporary	23.000 EACH	_____.____	_____.____
0902	SPV.0060 Special 0315. Maintain and Remove Crash Cushions Temporary Left In Place	17.000 EACH	_____.____	_____.____
0904	SPV.0060 Special 0320. Temporary Concrete Barrier Gate, 24-FT	4.000 EACH	_____.____	_____.____
0906	SPV.0060 Special 0325. Crash Cushion Temporary Left In Place	1.000 EACH	_____.____	_____.____
0908	SPV.0060 Special 0400. Fixed Message Sign Portable Support	8.000 EACH	_____.____	_____.____
0910	SPV.0060 Special 0405. Fire Hydrant Sign Mounting	12.000 EACH	_____.____	_____.____
0912	SPV.0060 Special 0500. Anchor Bolt Cover Shroud	13.000 EACH	_____.____	_____.____
0914	SPV.0060 Special 0600. Remove Traffic Signal IH 41 NB & STH 96 (S44-0309)	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0916	SPV.0060 Special 0605. Remove Traffic Signal IH 41 SB & STH 96 (S44-1403)	1.000 EACH	_____.____	_____.____
0918	SPV.0060 Special 0615. Concrete Base Type 7 Tall	38.000 EACH	_____.____	_____.____
0920	SPV.0060 Special 0700. Salvaging Ramp Gate System	1.000 EACH	_____.____	_____.____
0922	SPV.0060 Special 0705. Adjusting Communication Vault	1.000 EACH	_____.____	_____.____
0924	SPV.0060 Special 0710. Install Ethernet Extender	8.000 EACH	_____.____	_____.____
0926	SPV.0060 Special 0715. Salvaging Microwave Detector Equipment	1.000 EACH	_____.____	_____.____
0928	SPV.0060 Special 0720. Salvaging Wireless Antennas	2.000 EACH	_____.____	_____.____
0930	SPV.0060 Special 0900. MSE Wall Sleeve Type 7	4.000 EACH	_____.____	_____.____
0932	SPV.0060 Special 0905. Settlement Gauge, R-44-28	18.000 EACH	_____.____	_____.____
0934	SPV.0060 Special 0906. Settlement Gauge, R-44-52	3.000 EACH	_____.____	_____.____
0936	SPV.0060 Special 0910. Vibrating Wire Piezometers	7.000 EACH	_____.____	_____.____
0938	SPV.0060 Special 0915. Inclinometers Casing	2.000 EACH	_____.____	_____.____
0940	SPV.0060 Special 0920. Earth Pressure Cell	8.000 EACH	_____.____	_____.____
0942	SPV.0060 Special 0925. Geotechnical Instrumentation, R-44-28	1.000 EACH	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0944	SPV.0060 Special 0926. Geotechnical Instrumentation, R-44-52	1.000 EACH	_____.____	_____.____
0946	SPV.0060 Special 0930. Structure Survey Target	14.000 EACH	_____.____	_____.____
0948	SPV.0060 Special 1200. Connect to Existing Water Main	2.000 EACH	_____.____	_____.____
0950	SPV.0060 Special 1205. Remove Water Valve and Box	1.000 EACH	_____.____	_____.____
0952	SPV.0060 Special 1210. Furnish and Install Insulation Over Water Main	7.000 EACH	_____.____	_____.____
0954	SPV.0060 Special 1215. Furnish and Install 16-Inch Water Valve in Manhole	1.000 EACH	_____.____	_____.____
0956	SPV.0060 Special 1220. Furnish and Install 16-Inch Water Valve In Manhole With Water Meter	1.000 EACH	_____.____	_____.____
0958	SPV.0060 Special 1225. Wastewater Control	1.000 EACH	_____.____	_____.____
0960	SPV.0060 Special 1230. Connect to Existing Sanitary Sewer Force Main	4.000 EACH	_____.____	_____.____
0962	SPV.0060 Special 1235. Furnish and Install Insulation Over Sanitary Sewer Force Main	7.000 EACH	_____.____	_____.____
0964	SPV.0060 Special 1240. Air Valves In Manhole	1.000 EACH	_____.____	_____.____
0966	SPV.0060 Special 1245. Adjusting Sanitary Manhole Cover	1.000 EACH	_____.____	_____.____
0968	SPV.0075 Special 0100. Street Sweeping	80.000 HRS	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0970	SPV.0075 Special 0105. Obstructions Foundation Drilling	45.000 HRS	_____.____	_____.____
0972	SPV.0090 Special 0100. HMA Longitudinal Joint Repair	1,500.000 LF	_____.____	_____.____
0974	SPV.0090 Special 0115. Concrete Barrier Type S42 Special	22,650.000 LF	_____.____	_____.____
0976	SPV.0090 Special 0120. Concrete Barrier Type S56 Special	26,560.000 LF	_____.____	_____.____
0978	SPV.0090 Special 0125. Concrete Barrier Fixed Object Protection Type S56 Special	35.000 LF	_____.____	_____.____
0980	SPV.0090 Special 0150. Concrete Barrier Temporary Precast Left in Place	1,930.000 LF	_____.____	_____.____
0982	SPV.0090 Special 0200. Drain Slotted Vane Permanent	1,207.000 LF	_____.____	_____.____
0984	SPV.0090 Special 0205. Drain Slotted Vane Temporary	1,301.000 LF	_____.____	_____.____
0986	SPV.0090 Special 0210. Cured In Place Pipe Liner 42-Inch	262.000 LF	_____.____	_____.____
0988	SPV.0090 Special 0300. Maintain and Remove Concrete Barrier Temporary Left in Place	29,800.000 LF	_____.____	_____.____
0990	SPV.0090 Special 0305. Glare Screen Temporary	17,095.000 LF	_____.____	_____.____
0992	SPV.0090 Special 0800. Abutment Anchorage	430.000 LF	_____.____	_____.____
0994	SPV.0090 Special 1200. Remove Water Main 16-Inch	188.000 LF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0996	SPV.0090 Special 1205. 16-Inch Water Main and Fittings	136.000 LF	_____.____	_____.____
0998	SPV.0090 Special 1210. 16-Inch Water Main and Fittings With 30-Inch Steel Casing	50.000 LF	_____.____	_____.____
1000	SPV.0090 Special 1215. Remove Sanitary Sewer Force Main 6-Inch	212.000 LF	_____.____	_____.____
1002	SPV.0090 Special 1220. Remove Sanitary Sewer Force Main 8-Inch	212.000 LF	_____.____	_____.____
1004	SPV.0090 Special 1225. 6-Inch Sanitary Sewer Force Main and Fittings	166.000 LF	_____.____	_____.____
1006	SPV.0090 Special 1230. 8-Inch Sanitary Sewer Force Main and Fittings	163.000 LF	_____.____	_____.____
1008	SPV.0090 Special 1235. 6-Inch Sanitary Sewer Force Main and Fittings With 18-Inch Steel Casing	50.000 LF	_____.____	_____.____
1010	SPV.0090 Special 1240. 8-Inch Sanitary Sewer Force Main and Fittings With 20-Inch Steel Casing	50.000 LF	_____.____	_____.____
1012	SPV.0165 Special 0800. Longitudinal Grooving Bridge Deck	32,760.000 SF	_____.____	_____.____
1014	SPV.0165 Special 0900. Wall Concrete Panel Mechanically Stabilized Earth R-44-28	29,741.000 SF	_____.____	_____.____
1016	SPV.0165 Special 0905. Wall Concrete Panel Mechanically Stabilized Earth R-44-52	18,400.000 SF	_____.____	_____.____
1018	SPV.0165 Special 0910. Wall Concrete Panel Mechanically Stabilized Earth R-44-53	18,710.000 SF	_____.____	_____.____

Proposal ID: 20241210014 **Project(s):** 1130-64-71, 1130-64-72, 1130-64-87

Federal ID(s): WISC 2025135, WISC 2025136, WISC 2025137

SECTION: 0001 Contract Items

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

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1020	SPV.0180 Special 0100. Concrete Pavement 10 1/2-Inch Special	207,860.000 SY	_____._____	_____._____
1022	SPV.0180 Special 0200. Topsoil Filled Riprap	977.000 SY	_____._____	_____._____
1024	SPV.0195 Special 0105. Load Transfer Platform	6,462.000 TON	_____._____	_____._____
1026	SPV.0060 Special 0270. Inlet Marker	229.000 EACH	_____._____	_____._____
1028	550.2126 Piling CIP Concrete 12 3/4 X 0.375-Inch	15,081.000 LF	_____._____	_____._____
1030	603.3255 Concrete Barrier Transition Type F42SF to S42	1.000 EACH	_____._____	_____._____
1032	SPV.0045 Special 0300. Connected Work Zone Start and End Location Markers	1,340.000 DAY	_____._____	_____._____
1034	SPV.0045 Special 0305. Connected Arrow Boards	1,340.000 DAY	_____._____	_____._____
1036	SPV.0060 Special 0275. Structure Lids	28.000 EACH	_____._____	_____._____
1038	SPV.0090 Special 0155. Fence Temporary	2,755.000 LF	_____._____	_____._____

Section: 0001 **Total:** _____._____

Total Bid: _____._____