

# **CITY OF DE PERE**

## **PROJECT**

**23-16**

## **BRIDGE REHABILITATION**

### **BID DATE:**

**JUNE 1, 2023**

**@ 1:00 PM**

Bid documents, including plans and specifications, are available for download at [www.QuestCDN.com](http://www.QuestCDN.com). The QuestCDN website can also be accessed through the City website at [www.deperewi.gov/projects](http://www.deperewi.gov/projects) or by pressing the *Projects* icon at the bottom of any City website page. Download cost is \$22 for each contract. Bidders will be charged an additional fee of \$42 to submit a bid electronically. Bidding documents may be viewed on the QuestCDN website or at the Municipal Service Center, 925 S. Sixth Street, De Pere, WI 54115.

Bid Tabs must be verified by staff prior to posting and will be available for viewing on the website within 7 days following the bid opening. Award information will be pending until approved by the Common Council.

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**MAY 12, 2023 – MAY 19, 2023**

**CITY OF DE PERE**

**ADVERTISEMENT TO BID**

**PROJECT 23-16**

**BRIDGE REHABILITATION**

Online bids will be received and accepted for Project 23-16 Bridge Rehabilitation via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, June 1, 2023, at which time they will be publicly accepted, displayed and read aloud.

Project 23-16 for which proposals are being sought includes the following approximate quantities:

- Structure P-5-129
  - 40 SF Concrete Surface Repair
  - 1 Each Structure Repainting Recycled Abrasive
  - 1 Each Negative Pressure Containment and Collection of Waste Materials
  - 2 Each Band Wing Walls
  - 30 LF Coat Reinforcement Steel
  
- Structure P-5-727
  - 50 SF Concrete Surface Repair
  - 150 SF Cleaning Concrete Box Girders
  - 1 LS Asphalt Deck Crack Filling

Complete digital project bidding documents are available for viewing and/or downloading at [www.QuestCDN.com](http://www.QuestCDN.com) or may be examined at the office of the Director of Public Works. Digital plan documents may be downloaded for \$22 by inputting Quest project #8429247 on Quest's Project Search page. Project documents must be downloaded from QuestCDN which will add your company to the Planholder List and allow access to vBid online bidding for the submittal of your bid. Bidders will be charged an additional fee of \$42 to submit a bid electronically. The QuestCDN website can also be accessed through the City website at [www.deperewi.gov/projects](http://www.deperewi.gov/projects) or by pressing the *Projects* icon at the bottom of any City website page. Contact QuestCDN Customer Support at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) for assistance in membership registration, downloading digital project information and vBid online bid submittal questions.

Each proposal shall be accompanied by a bid bond in an amount equal to five percent (5%) of the bid, payable to the City of De Pere, as a guarantee that if the bid is accepted, the bidder will execute a contract and furnish a contract bond as set forth in the General Conditions of the City of De Pere. In case the bidder fails to file such contract and bond, the amount of the bid bond shall be forfeited to the City of De Pere as

**Project 23-16  
Bridge Rehabilitation**

**City of De Pere**

liquidated damages.

The letting of the contract is subject to the provisions of the following Wisconsin Statutes:

Section 62.15 regarding Public Works.

Section 66.0901(3) regarding Prequalification of Contractor.

Each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Tuesday, May 30, 2023. Prospective bidders who have previously submitted such forms subsequent to January 1, 2023 will not be required to separately submit such form for this project.

The City of De Pere reserves the right to reject any or all bids, to waive any informalities in bidding and to accept any proposal which the Common Council deems most favorable to the interest of the City of De Pere.

Dated this 12th day of May 2023.

Board of Public Works  
City of De Pere  
Eric Rakers, P.E.  
City Engineer

Project 23-16

**SECTION 00 21 13**

**INSTRUCTIONS TO BIDDERS**

**ARTICLE 1 – DEFINED TERMS**

- 1.1 Terms used in these Instructions to Bidders have the meanings indicated in the General Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below:
- None

**ARTICLE 2 – COPIES OF BIDDING DOCUMENTS**

- 2.1 Complete sets of the Bidding documents in the number and for the deposit sum, if any, stated in the Advertisement to Bid may be obtained as stated in the Advertisement for bids.
- 2.2 Complete sets of Bidding Documents shall be used in preparing Bids; Owner does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.3 Owner, in providing the Bidding Documents on the terms stated in the Advertisement for Bids, does so only for the purpose of obtaining Bids for the Work and does not confer a license or grant for any other use.

**ARTICLE 3 – QUALIFICATIONS OF BIDDERS**

- 3.1 In accordance with Section 66.0901(3), each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works as stated in the Advertisement for Bids. Prospective bidders who have previously submitted such forms after January 1<sup>st</sup> of this year will not be required to separately submit such form for this project.

**ARTICLE 4 – EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA AND SITE**

- 4.1 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated conditions appear in the General Conditions.
- 4.2 Underground Facilities
- A. Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.

**4.3 Subsurface and Physical Conditions**

- A. The technical data includes:
  - 1. Those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site; and
  - 2. Those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except underground Facilities).
  - 3. No reports of explorations or tests of subsurface conditions at or contiguous to the Site, or drawings of physical conditions relating to existing surface or subsurface structures at the Site, are known to Owner.
- B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the “technical data” contained in such reports and drawings, but such reports and drawings are not Contract Documents. Contractor may not rely upon or make any claim against Owner, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
  - 1. the completeness of such reports and drawings for Contractor’s purposes, including but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
  - 2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
  - 3. Any Contractor interpretation of or conclusion drawn from any “technical data” or any such other data, interpretations, opinions, or information.

4.4 On request, Owner will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations relative to excavation and utility locates.

4.5 Reference is made to Section 01 10 00: Summary of Work, for work that will be completed and for the identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these Bidding Documents. On request, Owner will provide to each Bidder for examination access to or copies of Contract Documents (other portions thereof related to price) for such other work.

4.6 It is the responsibility of each Bidder before submitting a Bid to:

- A. Examine and carefully study the Bidding Documents, the other related data identified in the Bidding Documents, and any Addenda;
- B. Visit the Site and become familiar with and satisfy Bidder as to the general, local, and Site

conditions that may affect cost, progress, and performance of the Work;

- C. Become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. Obtain and carefully study (or accept consequences of not doing so) all examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;
- E. Agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- F. Become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- G. Correlate the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;
- H. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies, that bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder; and
- I. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work.

- 4.7 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and, procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents and the written resolutions thereof by Engineer are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.



**ARTICLE 5 – SITE AND OTHER AREAS**

- 5.1 The Site is identified in the Bidding Documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor.

**ARTICLE 6 – INTERPRETATIONS AND ADDENDA**

- 6.1 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 6.2 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner and Engineer.

**ARTICLE 7 – BID SECURITY**

- 7.1 A Bid shall be accompanied by Bid security made payable to Owner in an amount of five percent (5%) of Bidder's maximum Bid price and in the form of a certified check or bank money order or Bid bond (on the form attached) issued by a surety meeting the requirements of the General Conditions. Submittal of a Bid Bond on a form other than the Bid Bond form included in the Bidding Documents may be cause for rejection of Bid. The fully executed bid bond must be uploaded into QuestCDN. If the bidder elects to furnish bid security other than a bid bond, the bid security must be submitted in a sealed envelope enclosed in a separate package plainly marked on the outside with the notation "BID SECURITY" along with the project number and name and addressed to the Board of Public Works of the City of De Pere, Municipal Service Center, 925 S. Sixth Street, De Pere, WI 54115 **prior to the deadline for submission of bids.**
- 7.2 The Bid security of the Successful Bidder will be retained until such Bidder has executed the Contract documents, furnished the required contract security and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within fifteen (15) days after the Notice of Award, Owner may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner per the General Conditions.
- 7.3 Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

**ARTICLE 8 – CONTRACT TIMES**

- 8.1 The number of days within which, or the dates by which, Milestones are to be achieved and the Work is to be substantially completed and ready for final payment are set forth in the Bid Form and Summary of Work.

**ARTICLE 9 – LIQUIDATED DAMAGES**

- 9.1 Provisions for liquidated damages are set forth in the General Conditions.

**ARTICLE 10 – SUBSTITUTE AND “OR-EQUAL” ITEMS**

- 10.1 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or “or-equal” items. Whenever it is specified or described in the Bidding Documents that a substitute or “or-equal” item of material or equipment may be furnished or used by Contractor if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Bid Form and Summary of Work.

**ARTICLE 11 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS**

- 11.1 The Bidder shall submit with the Bid to Owner a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit a substitute, in which case apparent Successful Bidder shall submit an acceptable substitute, Bidder’s Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.
- 11.2 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposed to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner subject to revocation of such acceptance after the Effective Date of the Agreement.
- 11.3 Contractor shall not be required to employ any Subcontractor, Supplier, individual, or entity against whom Contractor has reasonable objection.

**ARTICLE 12 – PREPARATION OF BID**

- 12.1 The Bid form is included with the Bidding documents.
- 12.2 All blanks on the Bid Form shall be completed by printing in ink or by typewrite and the Bid signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each alternative, and unit price item listed therein, or the words “No Bid,” “No Change,” or “Not Applicable” entered.
- 12.3 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporations shall be shown below the seal.
- 12.4 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.
- 12.5 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown below the signature.
- 12.6 A Bid by an individual shall show the Bidder’s name and official address.
- 12.7 A Bid by a joint venture shall be executed by each joint venture in the manner indicated on the Bid Form. The official address of the joint venture shall be shown below the signature.
- 12.8 All names shall be typed or printed in ink below the signatures.
- 12.9 The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.
- 12.10 The address and telephone number for communications regarding the Bid shall be shown.
- 12.11 The Bid shall contain evidence of Bidder’s authority and qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the Contract. Bidder’s state contractor license number, if any, shall also be shown on the Bid Form.

**ARTICLE 13 – BASIS OF BID; COMPARISON OF BIDS**

**13.1 Unit Price**

- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Bid Schedule.

- B. The total of all estimated prices will be the sum of the products of the estimated quantity of each item and the corresponding unit price. The final quantities and Contract Price will be determined in accord with the General Conditions.
- C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

#### ARTICLE 14 – SUBMITTAL OF BID

- 14.1 A Bid shall be submitted no later than date and time prescribed and at place indicated in Advertisement for Bids and shall be submitted electronically using the QuestCDN online bidding vBid platform. No paper bids will be accepted.
- 14.2 See Bid Form for a list of documents typically required to be submitted with the Bid.

#### ARTICLE 15 – MODIFICATION AND WITHDRAWAL OF BID

- 15.1 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids.
- 15.2 If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

#### ARTICLE 16 – OPENING BIDS

- 16.1 Bids will be opened as indicated in the Advertisement to Bid. The bid opening can be viewed live via the GoToMeeting information shown below. An abstract of the amounts of the base bids and major alternatives, if any, will be made available to bidders after opening the bids.

The bid opening can be viewed live via GoToMeeting as follows:  
Please join my meeting from your computer, tablet or smartphone.  
<https://meet.goto.com/477007037>

You can also dial in using your phone.  
United States (Toll Free): 1 877 309 2073  
Access Code: 477-007-037

Get the app now and be ready when your first meeting starts: <https://meet.goto.com/install>

**ARTICLE 17 – BIDS REMAIN SUBJECT TO ACCEPTANCE**

- 17.1 All bids will remain subject to acceptance for the period of time stated in the General Conditions, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

**ARTICLE 18 – EVALUATION OF BIDS AND AWARD OF CONTRACT**

- 18.1 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.
- 18.2 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.
- 18.3 In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- 18.4 In evaluating Bidders, Owner will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Supplier, and other individuals or entities proposed for those portions of the Work for which the identify of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.
- 18.5 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.
- 18.6 Bidder agrees to waive any claim it has or may have against the Owner and the respective employees arising out of or in connection with the administration, evaluation or recommendation of any Bid.
- 18.7 If the Contract is to be awarded, Owner will award the Contract to the lowest responsible responsive Bidder whose Bid is in the best interests of the Project.

**ARTICLE 19 – CONTRACT SECURITY AND INSURANCE**

- 19.1 The General Conditions set forth Owner's requirements as to performance and payment bonds and

insurance. When the Successful Bidder delivers the executed Agreement to Owner, it shall be accompanied by such bonds and a certificate of insurance.

**ARTICLE 20 – SIGNING OF AGREEMENT**

- 20.1 When Owner gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Agreement with the other Contract Documents which are identified in the Agreement as attached thereto. Within ten (10) days thereafter, Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to Owner. Within ten (10) days thereafter, Owner shall deliver one fully signed counterpart to Successful Bidder with a complete set of Drawings with appropriate identification.

**END OF SECTION**

**SECTION 00 41 13**

**CITY OF DE PERE**

**BID FORM**

**PROJECT 23-16**

This bid, submitted by the undersigned Bidder to the City of De Pere, in accordance with the Advertisement to Bid, which will be received until 1:00 PM, Thursday June 1, 2023 is to furnish and deliver all materials, and to perform and do all work on the project designated per Section 01 10 00 Summary of Work.

Bidder has examined and carefully prepared the bid from the plans and specifications and has checked the same in detail before submitting said proposal or bid; and that said bidder or bidder's 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 or bid.

Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.

Addendum Date

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**BASIS OF BID:**

Bidder will complete the Work in accordance with the Contract documents for the following price(s):

As stated in the attached Unit Price Bid Schedule.

Unit Prices have been computed in accordance with the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

**TOTAL BID PRICE: \$**\_\_\_\_\_

**Project 23-16**  
**Bridge Rehabilitation**

**City of De Pere**

**ATTACHMENTS TO THIS BID**

The following documents are submitted with and made a condition of this Bid:

- A. Required Bid Security
- B. Unit Price Bid Schedule (Section 00 41 43)
- C. Tabulation of Subcontractors (Section 00 43 36)

**BID SUBMITTAL**

This Bid is submitted by \_\_\_\_\_ of \_\_\_\_\_,

The Bidder, being duly sworn, does dispose that they are an authorized representative of

Bidder, if Bidder is:

An Individual

Name (typed or printed): \_\_\_\_\_

By: \_\_\_\_\_  
(Individual's signature)

Doing business as: \_\_\_\_\_

A Partnership

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

A Corporation

Corporation Name: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_



Title: \_\_\_\_\_  
(CORPORATE SEAL)

Attest \_\_\_\_\_

Date of Qualification to do business in Wisconsin is \_\_\_\_/\_\_\_\_/\_\_\_\_.

Joint Venture

Name of Joint Venture: \_\_\_\_\_

First Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_  
(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Second Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_  
(Signature of second joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(Each joint venturer must sign. Manner of signing for each individual, partnership, and corporation that is a party to joint venture should be in manner indicated above.)

Bidder's Business Address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

E-mail \_\_\_\_\_

SUBMITTED on \_\_\_\_\_, 20\_\_\_\_.

State Contractor License No. \_\_\_\_\_ (if applicable)

**SECTION 00 41 43**

**CITY OF DE PERE**

**PROJECT 23-16**

**BID SCHEDULE – UNIT PRICE**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STRUCTURE P-5-129</b>					
SC-01	Concrete Surface Repair	SF	40	\$ _____	\$ _____
SC-02	Structure Repainting Recycled Abrasive	EA	1	\$ _____	\$ _____
SC-03	Negative Pressure Containment and Collection of Waste Materials	EA	1	\$ _____	\$ _____
SC-04	Band Wing Walls	EA	2	\$ _____	\$ _____
SC-05	Coat Reinforcement Steel	LF	30	\$ _____	\$ _____
SC-06	Mobilization	EA	1	\$ _____	\$ _____
SC-07	Traffic Control	EA	1	\$ _____	\$ _____
SC-08	Allowance	EA		\$5,000.00	\$5,000.00
<b>STRUCTURE P-5-727</b>					
SC-09	Concrete Surface Repair	SF	50	\$ _____	\$ _____
SC-10	Cleaning Concrete Box Girders	SF	150	\$ _____	\$ _____
SC-11	Asphalt Deck Crack Filling	LS	1	\$ _____	\$ _____
SC-12	Mobilization (including Boat/Barge)	EA	1	\$ _____	\$ _____

**Project 23-16**  
**Bridge Rehabilitation**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STRUCTURE P-5-727 CONTINUED</b>					
SC-13	Traffic Control	EA	1	\$ _____	\$ _____
SC-14	Detour (Holmgren/Baeten/S. Ashland)	EA	1	\$ _____	\$ _____
<b>TOTAL AMOUNT BID:</b>					\$ _____

SECTION 00 43 13

CITY OF DE PERE

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That \_\_\_\_\_,

as Principal, hereinafter called Principal, and \_\_\_\_\_,

as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called City, in the amount of \_\_\_\_\_ dollars (\$\_\_\_\_\_) for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presence.

WHEREAS, Principal has made a proposal to the City for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work of Project 23-16 in accordance with drawings and specifications prepared by the Director of Public Works of said City, which proposal is by reference made a part hereof, and is hereinafter referred to as the BID.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall be awarded the contract for said project and Principal shall enter into a contract in accordance with the BID, then this obligation shall be null and void; otherwise it shall remain in full force and effect, provided that:

1. The liability of Surety shall in no event exceed the penalty of this bond.
2. Any suits at law or proceedings, in equity brought or to be brought against Surety to recover any claim hereunder shall be executed within six (6) months from the date of this instrument.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

In the presence of:

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
PRINCIPAL (SEAL)

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
SURETY (SEAL)

## TABULATION OF SUBCONTRACTORS

[illegible]

SECTION 00 51 00

NOTICE OF AWARD

(Contractor)  
(Contractor Name)  
(Address)  
(Address)

Project Description: 23-16 Bridge Rehabilitation

The City has considered the proposal submitted by you dated (BID DATE) for the above-described project in response to its Advertisement for Bids dated May 12, 2023 and May 19, 2023.

You are hereby notified that the Common Council of the City of De Pere has accepted your bid of (Contract Amount \$\_\_\_\_\_.00).

You are required to execute the Contract and furnish the required Performance Bond, Payment Bond and Certificates of Insurance within ten (10) calendar days from the date of this notice to you.

If you fail to execute said Agreement and to furnish said bonds within ten (10) days from the date of this notice, said City will be entitled to consider all your rights arising out of the City's acceptance of your bid as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the City.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2023.

\_\_\_\_\_  
DEPARTMENT OF PUBLIC WORKS

BY: Eric P. Rakers, P.E.  
City Engineer

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by:

\_\_\_\_\_, this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

SECTION 00 52 13

CONTRACT

This Contract, made and entered into this day \_\_\_\_\_ (date to be affixed by City), by and between (Contractor Name), hereinafter called Contractor, and the City of De Pere, a municipal corporation of the State of Wisconsin, hereinafter called City.

WITNESSETH: That, in consideration of the covenants and agreements herein contained, to be performed by the parties hereto, and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

ARTICLE I - SCOPE OF WORK

The Contractor shall furnish all materials and all equipment and labor necessary, and perform all work shown on the drawings and described in the specifications for the project entitled Project 23-16 Bridge Rehabilitation, all in accordance with the requirements and provisions of the following documents, which are hereby made a part of this Contract:

- (a) Advertisement for Bids, dated May 12, 2023 and May 19, 2023.
- (b) Drawings designated for Project 23-16 Bridge Rehabilitation dated May 12, 2023.
- (c) City of De Pere 2022 Construction Specifications.
- (d) Special Provisions dated May 12, 2023.
- (e) Proposal submitted by (Contractor Name) dated Bid Date.
- (f) Addenda No. \_\_\_\_\_ dated \_\_\_\_\_

ARTICLE II - TIME OF COMPLETION

- (a) The work to be performed under the Contract shall be commenced within (number spelled out) (\_\_\_\_) calendar days after receipt of written notice to proceed. The work shall be completed within (Number spelled out) (\_\_\_\_) calendar days ) or (specific calendar dates) after receipt of Notice to Proceed.
- (b) Time is of the essence with respect to the date of completion herein above stated. Failure to complete the work within the number of calendar days stated in this Article, or interim dates included in the work sequence in Section 01 10 00, Summary of Work, including any extensions granted thereto, shall entitle the City to deduct from the monies due the Contractor an amount equal to Update based on 00 70 00 - General Conditions (Page 27)(\$ ) per day for each calendar day of delay in the completion of the work. Such amount shall be considered and treated not as a penalty but as liquidated damages, which the City will sustain, by failure of the Contractor to complete the work within the time stated.

**ARTICLE III - PAYMENT**

- (a) The Contract Sum. The City shall pay to the Contractor for the performance of the Contract the amounts determined for the total number of each of the following units of work completed at the unit price stated thereafter. The number of units contained in this schedule is approximate only, and the final payment shall be made for the actual number of units that are incorporated in or made necessary by the work covered by the Contract.
- (b) Progress Payments. The City shall make payments on account of the Contract as follows:
1. On not later than the fourth Friday of every month the Contractor shall present to the City an invoice covering an estimate of the amount and proportionate value of the work done as verified by the City under each item of work that has been completed from the start of the job up to and including the fourth Friday of the preceding month, and the value of the work so completed determined in accordance with the schedule of unit prices for such items, together with such supporting evidence as may be required. This invoice shall also include an allowance for the cost of such materials and equipment required in the permanent work as have been delivered to the site but not as yet incorporated in the work.
  2. On not later than the third week of the following month, the City shall, after deducting previous payments made, pay to the Contractor 95% of the amount of the approved invoice, retaining 5% of the estimate of work done until 50% of the work has been completed. At 50% completion of the work, the previous retainage shall not yet be paid, but further partial payments shall be made in full to the contractor without additional retainage being taken unless the engineer certifies that the work is not proceeding satisfactorily. If the work is not proceeding satisfactorily, additional amounts may be retained. After substantial completion, an amount retained may be paid to the contractor, keeping retained only such amount as is needed for the remaining work.
  3. The Contractor shall notify the City in writing when all work under this Contract has been completed. Upon receipt of such notice the City shall, within a reasonable time, make the final inspection and issue a final certificate stating that the work provided for in this Contract has been completed and is accepted under the terms and conditions thereof, and that the entire balance due the Contractor as noted in said final certificate is due and payable. Before issuance of the final certificate the Contractor shall submit evidence satisfactory to the City that payrolls, material bills, and other indebtedness connected with the work under this Contract have been paid. The City shall make final payment as soon after issuance of the final certificate as practicable.

**ARTICLE IV – CONTRACT DOCUMENTS**

**(a) Contents**

1. The Contract documents consist of the following:
  - a. This Contract (pages 00 52 13-1 to 0052-13-3, inclusive).
  - b. Payment bond (pages 00 61 13-1 to 00 61 13-2, inclusive).
  - c. Performance bond (page 00 61 16-1).
  - d. General Conditions (pages 00 70 00-1 to 00 70 00-27, inclusive).



- e. Specifications as listed in the table of contents of the Project Manual.
  - f. Drawings consisting of \_\_\_\_ sheets with each sheet bearing the following general title: \_\_\_\_ [or] the Drawings listed on attached sheet index.
  - g. Addenda (numbers \_\_\_\_ to \_\_\_\_ inclusive), dated \_\_\_\_.
  - h. Exhibits to this Agreement (enumerated as follows):
    - 1) Contractor's Bid (pages 00 41 13-1 to 00 41 13-3, inclusive).
    - 2) Bid Schedule – Unit Prices (Pages 00 41 43-1 to 00 41 43-, inclusive).
    - 3) Proposed Products Form (Page 00 43 33-1).
    - 4) Tabulation of Subcontractors (page 00 43 36-1).
    - 5) Documentation submitted by Contractor prior to Notice of Award (00 51 00-1).
  - i. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
    - 1) Notice to Proceed (Page 00 55 00-1).
    - 2) Change Orders.
2. The documents listed in Paragraph (a) Contents, are attached to this Agreement (except as expressly noted otherwise above).
3. There are no Contract Documents other than those listed above in this Article IV.

IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above.

\_\_\_\_\_  
(WITNESS)                      \_\_\_\_\_ (CONTRACTOR)                      (SEAL)

\_\_\_\_\_  
(WITNESS)                      BY: \_\_\_\_\_

\_\_\_\_\_  
(TITLE)

BY: \_\_\_\_\_

\_\_\_\_\_  
(TITLE)

CITY OF DE PERE                      (SEAL)

Approved as to Form By: \_\_\_\_\_ (City Attorney)

Sufficient funds are available to provide for the payment of this obligation.

\_\_\_\_\_  
(COMPTROLLER)

BY: \_\_\_\_\_  
(MAYOR)

BY: \_\_\_\_\_  
(CITY CLERK)

SECTION 00 55 00

NOTICE TO PROCEED

Date: \_\_\_\_\_

(CONTRACTOR NAME)

(ADDRESS)

(ADDRESS)

Project Description: 23-16 Bridge Rehabilitation

You are hereby notified to commence work in accordance with the CONTRACT dated \_\_\_\_\_, within ten (10) days of this Notice. All work under this contract shall be completed within \_\_\_\_\_ (NUMBER IN WORDS) (\_\_\_#) consecutive days from the start of construction or \_\_\_\_\_ (DATE) whichever comes first.

\_\_\_\_\_  
Department of Public Works

By: Eric P. Rakers, P.E.  
Title: City Engineer

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

\_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
Company Name

\_\_\_\_\_  
Signature

BY: \_\_\_\_\_  
Printed Name

TITLE: \_\_\_\_\_

SECTION 00 61 13

CITY OF DE PERE

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That (CONTRACTOR NAME), as Principal, hereinafter called Contractor, and \_\_\_\_\_, as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called the City, for the use and benefit of claimants as herein below defined in the amount \_\_\_\_\_ (CONTRACT AMT. SPELLED OUT) (\$) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated \_\_\_\_\_ (date to be affixed by City) entered into a contract with City for Project 23-16, in accordance with drawings and specifications prepared by the Director of Public Works of said City, which contract is by reference made a part hereof, and is hereinafter referred to as the CONTRACT.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly make payments to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the CONTRACT, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions.

1. A claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, lights, heat, oil, gasoline, telephone service, or rental of equipment directly applicable to the contract.
2. The above named Contractor and Surety hereby jointly and severally agree with the City that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant may sue on this bond for the use of such claimant in the name of the City, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon, provided, however, that the City shall not be liable for the payment of any costs or expenses of any such suit.
3. No suit or action shall be commenced hereunder by any claimant:
  - a. Unless claimant shall have given written notice to any two of the following: The Contractor, the City, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail, postage prepaid, in an envelope addressed to the Contractor, City, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State of Wisconsin, save that such service need not be made by a public officer.

**Project 23-16**  
**Bridge Rehabilitation**

**City of De Pere**

- b. After the expiration of one (1) year following the date on which Contractor ceased work on said CONTRACT.
  - c. Other than in a state court of competent jurisdiction in and for the County or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.
4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens, which may be filed or recorded against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

SIGNED AND SEALED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

In Presence of:

_____	_____	_____
(WITNESS)	(CONTRACTOR)	(SEAL)
_____	_____	_____
(WITNESS)	(SURETY)	(SEAL)

SECTION 00 61 16

CITY OF DE PERE

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That (CONTRACTOR'S NAME), as Principal, hereinafter called Contractor, and \_\_\_\_\_, as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called City, in the amount of (AMOUNT WRITTEN OUT) (\$\_\_\_\_\_) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assign, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated \_\_\_\_\_ (date to be affixed by City), entered into a contract with the City for Project 23-16, in accordance with drawings and specifications prepared by the Director of Public Works of said City, which contract is by reference made a part hereof, and is hereinafter referred to as the CONTRACT.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Contractor shall promptly and faithfully perform said CONTRACT, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Whenever Contractor shall be, and declared by the City to be in default under the CONTRACT, the City having performed City's obligations there under, the Surety may promptly remedy the default, or shall promptly

1. Complete the CONTRACT in accordance with its terms and conditions or
2. Obtain a bid or bids for submission to City for completing the CONTRACT in accordance with its terms and conditions, and upon determination by the City and Surety of the lowest responsible bidder, arrange for a contract between such bidder and City make available as work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable by City to Contractor under the CONTRACT and any amendments thereto, less the amount properly paid by City to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the CONTRACT falls due. No right of action shall accrue on this bond to or for the use of any person or corporation other than the owner named herein or the heirs, executors, administrators or successors of City.

SIGNED AND SEALED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

In the Presence of:

_____ (WITNESS)	_____ (CONTRACTOR)	_____ (SEAL)
_____ (WITNESS)	_____ (SURETY)	_____ (SEAL)

SECTION 00 62 76

APPLICATION FOR PAYMENT

Contractor's Application for Payment No.

Application Period:	Application Date:
Owner: City of De Pere	Contractor:
	Contractor's Project No.:

APPLICATION FOR PAYMENT

Change Order Summary

Approved Change Orders			1. ORIGINAL CONTRACT PRICE:.....	
Number	Additions	Deductions	2. Net change by Change Orders and Written Amendments (+ or -):.....	\$0.00
			3. CURRENT CONTRACT PRICE (Line 1 plus Line 2):.....	\$0.00
			4. Total completed and stored to date Column H on Progress Estimate:.....	\$0.00
			5. Retainage (per Agreement):	
			a. Work Completed - Column H (95% up to 50% of Contract or 2.5% of 100% of Contract)	\$0.00
Total	\$0.00	\$0.00	6. AMOUNT ELIGIBLE TO DATE (Line 4 minus 5).....	\$0.00
NET CHANGE BY CHANGE ORDERS:			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$0.00
			8. AMOUNT DUE THIS APPLICATION (Line 6 minus Line 7).....	\$0.00

CONTRACTOR'S CERTIFICATION

The undersigned Contractor certifies that:(1) all previous progress payments received from Owner on account of Work done under Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by the Application for Payment is in accordance with the Contract Documents and is not defective.

By:	Date:

Payment of:	\$	
	(Line 8 or other - attach explanation of other amount)	
is recommended by:		(Date)
	(Contractor)	
Payment of:	\$	
	(Line 8 or other - attach explanation of other amount)	
is recommended by:		(Date)
	(Owner)	

SECTION 00 65 16

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:

Owner:

Owner's Contract No.:

Contractor:

This [tentative] [definitive] Certificate of Substantial Completion applies to:

☐ All Work under the Contract Documents: ☐ The following specified portions of the Work:

Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Contractor and Engineer, and found to be substantially complete. The Date of Substantial completion of the Project or portion thereof designated above is hereby declared and is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

A [tentative] [definitive] list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

**The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:**

☐ Amended Responsibilities

☐ Not Amended

Owner's Amended Responsibilities:

Contractor's Amended Responsibilities:

The following documents are attached to and made part of this Certificate:

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This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

---

Executed by Engineer

---

Date

---

Accepted by Contractor

---

Date



**SECTION 01 10 00**

**SUMMARY OF WORK**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes
  - 1. References
  - 2. Work Covered by the Contract Documents
  - 3. Work Sequence/Schedule
  - 4. Use of Premises
  - 5. Warranty
  - 6. Project Utility Sources
  - 7. Miscellaneous Provisions
  - 8. Special Provisions

**1.2 REFERENCES**

- A. General Specifications. The work under this contract shall be in accordance with the City of De Pere, 2022 Construction Specifications and these Special Provisions and plans, and the latest edition of the Wisconsin Department of Transportation Standards Specifications for Highway and Structure Construction, where referenced in the City Specifications.
- B. Definitions. Any reference to the “state” or the “department” in said Standard Specifications shall mean the “City of De Pere” for the purposes of this contract.
- C. Industry Standards
  - 1. Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
  - 2. Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
  - 3. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement.
  - 4. The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements.

5. Each section of the specifications generally includes a list of reference standards normally referred to in that respective section. The purpose of this list is to furnish the Contractor with a list of standards normally used for outlining the quality control desired on the project. The lists are not intended to be complete or all inclusive, but only a general reference of standards that are regularly referred to.
6. Each entity engaged in construction on the Project shall be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents. Where copies of standards are needed to perform a required construction activity, obtain copies directly from the publication source and make them available on request.

### **1.3 WORK COVERED BY THE CONTRACT DOCUMENTS**

#### **A. Project Identification**

1. Project Location
  - a. Creamery Road at Ashwaubenon Creek (P-5-129)
  - b. Parkview Road at Ashwaubenon Creek (P-5-727)
2. Work will be performed under the following prime contract:
  - a. Project 23-16 Bridge Rehabilitation

#### **B. The Work includes:**

1. Bridge Rehabilitation
2. Traffic Control
3. Wingwall Repairs

### **1.4 WORK SEQUENCE/SCHEDULE**

- A. Project shall be completed by October 31, 2023.
- B. Conduct construction activities to maintain access to businesses and residences throughout construction.

### **1.5 USE OF PREMISES**

- A. Contractor shall have full use of the premises for construction operations, including use of the Project Site, as allowed by law, ordinances, permits, easement agreements and the Contract documents.
- B. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of the Project.
- C. The Project Site is limited to property boundaries, rights-of-way, easements, and other areas designated in the Contract Documents.

- D. Provide protection and safekeeping of material and products stored on or off the premises.
- E. Move any stored material or products which interfere with operations of Owner or other Contractors.

**1.6 WARRANTY**

- A. The Contractor warrants and guarantees to the City that all work shall be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects will be given to the Contractor. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this proposal.
- B. If within one (1) year after the date of contract work completion or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents or by a special provision of the Contract Documents, any work is found to be defective, the Contractor shall comply in accordance with the City's written instructions. These written instructions will include either correcting such defective work or, if it has been rejected by the City, removing it from the site and replacing it with non-defective work. If the Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk or loss or damage, the City may have the defective work corrected or the rejected work removed and replaced. All direct and indirect costs of correction or removal and replacement of defective work, including compensation for additional professional services, shall be paid by the Contractor.

**1.7 PROJECT UTILITY SOURCES**

- A. Green Bay Metropolitan Sewer District (NEW Water), Lisa Sarau, ([lsarau@newwater.us](mailto:lsarau@newwater.us)) (920-438-1039)
- B. AT&T, Victoria Kassab, ([yk352k@att.com](mailto:yk352k@att.com)) (920-401-7512)
- C. Wisconsin Public Service, Bob Laskowski, ([rtlaskowski@wisconsinpublicservice.com](mailto:rtlaskowski@wisconsinpublicservice.com)) (920-617-2775)
- D. Charter, Vince Albin, ([vince.albin@charter.com](mailto:vince.albin@charter.com)) (920-378-0444)
- E. Nsight, Rick Vincent, ([rick.vincent@nsight.com](mailto:rick.vincent@nsight.com)) (920-617-7316)
- F. TDS Metrocom, Steve Jakubiec, ([steve.jakubiec@tdstelecom.com](mailto:steve.jakubiec@tdstelecom.com)) (920-882-4166)
- G. Net-Lec (Mi-Tech Services), Dennis Lafave, ([dlafave@mi-tech.us](mailto:dlafave@mi-tech.us)) (920-619-9774)
- H. CenturyLink, Relocation Team, ([relocations@lumen.com](mailto:relocations@lumen.com)) (800-871-9244)

- I. Central Brown County Water Authority, Rob Michaelson, ([rmichaelson@mpu.org](mailto:rmichaelson@mpu.org)) (920-686-4354)

## **1.8 MISCELLANEOUS PROVISIONS**

- A. Notification to Residents –notify individually all residents and businesses 2-weeks prior to the start of operations, giving an estimated time that vehicle movement will be limited or prohibited. Property owners shall be notified 24-hours prior to closing a drive.

## **1.9 SPECIAL PROVISIONS**

### **A. General work provisions**

1. Perform the work under this construction contract for 2023 Structure Rehabilitation Project; Contract No 23-16, City of DePere, Brown County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard specifications for Highway and Structure Construction, 2023 Edition, as published by WisDOT, and these special provisions.
2. Driveways and other access to residences, business, or other commercial properties shall be maintained at all times during construction. At the time of the preconstruction meeting, the Contractor shall submit a proposed work sequence for Engineer/Owner approval.
3. All utilities aboveground or underground that need to be supported during the prosecution of this contract shall be coordinated with the utilities and the cost thereof shall be the sole responsibility of the Contractor.
4. The Contractor shall maintain local traffic in areas not under immediate construction. The Contractor will be responsible for immediate local traffic control signage. The signage and traffic control shall be according to the “Manual on Uniform Traffic Control Devices for Streets and Highways”, latest edition. The associated cost shall be included in the appropriate bid item of the Contractor’s bid.
5. The Contractor will furnish the municipality and Engineer with a telephone list, including cell or home phone numbers, of key personnel available for after hours and weekend emergencies.
6. All traffic control items, including constructing, assembling, painting, hauling, erecting, re-erecting, maintaining, restoring, and removing traffic control signs, drums, barricades, and similar control devices shall be paid for under the Traffic Control Bid Item.
7. Note, Paint testing was completed on the existing paint system on P-5-129, and lead paint was found on the structure. For lab results contact Ryan Trzinski, PE at [rtrzinski@releeinc.com](mailto:rtrzinski@releeinc.com) for a copy of the testing results.
8. SPV.01, Band Wing Walls shall utilize materials discussed within the plans to band the existing wingwall to the abutment of P-5-129
9. SPV.02 Coat Reinforcement Steel shall utilize coatings shown within the cleaning concrete box girders specifications.

### **B. Structure Repainting General.**

1. General

- a. Inspection  
On all structures in this contract, notify the engineer of any missing or broken bolts or nuts, any missing or broken rivets, or of any cracks or flaws in the steel members while cleaning or painting.
  - b. Date Painted  
At the completion of all painting work, stencil in black paint or contrasting color paint the date of painting the bridge. The numbers shall be 3 inches (75 mm) in height and shall show the month and year in which the painting was completed: e.g., 11-95 (November 1995). On each bridge painted, stencil the date at two locations. On truss bridges, stencil the date on the cover plates of end posts near and above the top of the railings at the oncoming traffic end. On steel girder bridges, stencil the date on the inside of the outside stringers at the abutments. The date on grade separation bridges shall be readable when going under the structure or at some equally visible surface near the ends of the bridge, as designated by the engineer.
  - c. Graffiti Removal  
Remove any graffiti on concrete abutments, piers, pier caps, parapet railings, slope paving or any other location at the direction of the engineer. Use a brush sandblast to remove graffiti.  
The above work will not be measured and paid for separately but will be considered incidental to other items in the contract.
2. (Vacant)
  3. Construction
    - a. Repainting Methods  
Do not perform blasting, cleaning and painting on days of high winds. Prevailing winds in excess of 15 mph (25 km/hr) shall be considered high winds.  
Place the final field coat of paint on the exterior of the exterior beams as a continuous painting operation. Stop at splices, vertical stiffeners or other appropriate locations so that lap marks are not evident or noticeable.  
Completely clean and remove spent abrasive and other waste materials resulting from the contractor's operation from bridge deck surfaces, gutter lines, drains, curbs, bridge seats, pier caps, slope paving, roadway below, and all structural members and assemblies.
    - b. Inspection  
*Add the following to standard spec 105.9:*  
Furnish, erect and move scaffolding and other equipment to allow the inspector to closely observe all affected surfaces. The scaffolding, with appropriate safety devices, shall meet the approval of the engineer.  
stp-517-005 (20150630)
- C. Negative Pressure Containment and Collection of Waste Materials, P-5-129, Item 517.4501.S.
    1. Description  
This special provision describes providing a dust collector to maintain a negative air pressure in the enclosure; furnishing and erecting enclosures as required to contain, collect and store waste material resulting from the preparation of steel surfaces for painting, and repainting, including collection of such waste material, and labeling and storing waste material in approved hazardous waste containers.

2. Materials

Provide 5-gallon lidded containers for containing the spent blasting materials and removed paint materials for disposal at an engineer approved waste facility.

3. Construction

Erect an enclosure to completely enclose (surround) the blasting operations. The ground, slope paving, or roadway cannot be used as the bottom of the enclosure unless covered by approved containment materials. So that there are no visible emissions to the air or ground or water, design, erect, operate, maintain and disassemble the enclosures in such a manner to effectively contain and collect dust and waste materials resulting from surface preparation and paint over spray. Suspend all enclosures over water from the structure or as approved by the engineer.

Construct the enclosure of flexible materials such as tarpaulins or of rigid materials such as plywood, or of a combination of flexible and rigid materials and meet SSPC Guide 6 requirements with Level 1 emissions. Systems manufactured and provided by Eagle Industries, Detroit Tarps, or equal, are preferred. The tarpaulins shall be a non-permeable material, either as part of the tarp system or have a separate non-permeable lining. Maintain all materials free of tears, cuts or holes. The vertical sides of the enclosure shall extend from the bottom of the deck down to the level of the covered work platform or covered barge where used for structures over water and shall be fastened securely to those levels to prevent the wind from lifting them. Bulkheads are required between beams to enclose the blasting area as approved by the engineer. Where bulkheads are required, construct them of plywood and properly seal them. To prevent spent materials and paint over spray from escaping the enclosed area, overlap and fasten together all seams. Place groundcovers under all equipment before operations or as approved by the engineer.

To allow proper cleaning, inspection of structures or equipment, and painting, provide safe adequate artificial lighting in areas where natural light is inadequate.

Provide a dust collector so that there are no visible emissions outside of the enclosure and so that a negative air pressure inside the enclosure is maintained. The dust collector shall be sized to maintain the minimum air flow based on the cross-sectional area of the enclosure.

A combination of positive air input and negative air pressure may be needed to maintain the minimum airflow within the enclosure.

Filter all air exhausted from the enclosure to create a negative pressure within the enclosure so as to remove all hazardous and other particulate matter.

After all debris has been removed and all painting has been approved in the containment area is complete, remove containment according to SSPC Guide 6.

As a safety factor for structures over water, provide for scum control. Provide a plan for corrective measures to mitigate scum forming and list the procedures, labor and equipment needed to assure compliance. Effectively contain the scum that forms on the water and does not sink in place from moving upstream or downstream by the use of floating boom devices. If in the use of floating boom devices, the scum tends to collect at the devices, contain, collect, store the scum, and do not allow it to travel upstream or downstream beyond the devices. Remove the scum at least once a day or more often if needed.

Collect and store at the bridge site for disposal all waste material or scum collected by this operation, or any that may have fallen onto the ground tarps. Collect and store all waste

material and scum at the end of each workday or more often if needed. Storage shall be in provided hazardous waste containers. Label each container as it is filled, using the labels provided by the Hazardous Waste Disposal contractor. Check the label and ensure that the project ID, bridge number and EPA ID match the structure. Fill in the generation date when the first material is placed in the container. Secure all containers at the end of each workday. Keep the containers covered at all times except to add or remove waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain, or exposed to standing water.

In a separate operation, recover the recyclable abrasive for future application, and collect the paint and/or corrosion particles for disposal.

4. Measurement

The City will measure Negative Pressure Containment and Collection of Waste Materials (P-5-129) as a single unit for each structure, acceptably completed

5. Payment

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

ITEM	DESCRIPTION	UNIT
SC-03	Negative Pressure Containment and Collection of Waste Materials	EACH

Payment is full compensation for designing, erecting, operating, maintaining, and disassembling the containment devices; providing negative pressure exhaust ventilation; collecting, labeling, for storing spent materials in provided hazardous waste containers, and disposal at an engineer approved waste facility.  
stp-517-065 (20210708)

D. Structure Repainting Recycled Abrasive P-5-129, Item 517.1801.S.

1. Description

This special provision describes surface preparation and painting of the metal surfaces according to the manufacturer's recommendations as modified in this special provision.

a. Areas to be Cleaned and Painted

All structural metal surfaces of:

- i. Structure P-5-129, 1546 SF.

Areas are approximate and given for informational purposes only.

2. Materials

a. Coating System

Furnish a complete coating system from the department's approved list for "Structure Repainting Recycle Abrasive Structure". The color for the finish coating material shall match the color number the plans show according to Federal Standard Number 595. Supply the engineer with the product data sheets for approval before any coating is applied. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, and the minimum drying time between coats.

The color of the primer must be such that a definite contrast between it and the color of the blasted steel is readily apparent. There shall be a color contrast between all

subsequent coats for the paint system selected. Submit color samples of the primer and all coats to the engineer for approval before any application of paint.

**3. Construction**

**a. Surface Preparation**

Before blast cleaning, solvent clean all surfaces to be coated according to SSPC-SP1. All metal surfaces must be blast cleaned according to SSPC-SP10 and verified before painting.

Upon completion of surface preparation, test representative surfaces, which were previously rusted (i.e. pitted steel) for the presence of residual chloride. Perform Surface Contamination Tests (SCAT) according to the manufacturer's recommendations. The tests must be witnessed by the engineer. If chlorides are detected at levels greater than  $7\mu\text{g}/\text{cm}^2$ , continue to clean the affected areas until results are below the specified limit. Submit anticipated testing frequencies and chloride remediation methods to the Engineer for review and approval.

Apply the prime coat the same day that the metal surfaces receive the No. 10 blast or re-blast before application. Cleaned surfaces shall be of the specified condition immediately before paint application. If rust bloom occurs before applying the primer, stop the painting operation in the area of the rust bloom and re-blast and clean the area to SSPC SP-10 before applying the primer.

The steel grit and any associated equipment brought to the site and used for blast cleaning shall be clean. Remove immediately dirty grit or equipment brought to the site at no expense to the department. Furnish an abrasive that has a gradation such that it will produce a uniform surface profile between 1 to 3 mils on the steel surface, as measured according to ISO 8503-5.

The abrasive blasting and recovery system shall be a completely integrated self-contained system for abrasive blasting and recovery. It shall be an open blast and recovery system that will allow no emissions from the recovery operation. The recovery equipment shall be such that the amount of contaminants in the clean recycled steel grit shall be less than 1 percent by weight as per SSPC AB-2.

Remove by grinding all fins, tears, slivers, and burred or sharp edges that are present on any steel member, or that appear during the blasting operation, and re-blast the area to give a 1 to 3 mils surface profile.

Remove all spent material and paint residue from steel surfaces with a good commercial grade vacuum cleaner equipped with a brush-type cleaning tool, and test cleanliness according to ASTM D4285. The airline used for surface preparation shall have an in-line water trap and the air shall be free of oil and water as it leaves the airline.

Take care to protect freshly coated surfaces from subsequent blast cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool, or if visible rust occurs, re-blast to a near white condition. Clean and re-prime the brushed or blast cleaned surfaces according to this specification.

**b. Coating Application**

Apply paint according to the manufacturer's recommendations in a neat workmanlike manner. Paint application shall normally be by airless spray or inaccessible areas by brush, roller or other methods approved by the engineer.



The engineer may allow the use of conventional spray equipment after satisfactory demonstration by the contractor of the proper application technique and handling of that equipment.

Mix the paint or coatings according to the manufacturer's directions to a smooth lump-free consistency. Keep paint thoroughly mixed during the painting application.

After the inspector approves the entire cleaned surface to be coated, apply a prime coat uniformly to the entire surface. Either before or after applying the prime coat, brush or spray a stripe coat of primer on all plate edges, bolt heads, nuts, and washers. Apply succeeding coats as the product data sheet shows.

Remove all dry spray by vacuuming, wiping, or sanding if necessary.

If the application of the coating at the required thickness in one coat produces runs, bubbles, or sags; apply a "mist-coating" in multiple passes of the spray gun; separate the passes by several minutes. Where excessive coating thickness produces "mud-cracking", remove such coating back to soundly bonded coating and re-coat the area to the required thickness.

The resultant paint film shall be smooth and uniform, without skips or areas of excessive paint according to SSPC PA1.

The coating is supplied for normal use without thinning. If in cool weather it is necessary to thin the coating for proper application, thin according to the manufacturer's recommendations.

During surface preparation and coating application the ambient and steel temperature shall be between 39 degrees F and 100 degrees F. The steel temperature shall be at least 5 degrees F above the dew point temperature. (This requires the steel to be dry and free of any condensation or ice regardless of the actual temperature of the steel.) The relative humidity shall not exceed 85%. The manufacturer's ambient condition requirements must be followed if they are more stringent.

Paint thickness shall be within the requirements for a three coat paint system listed in the department's approved list for Structure Repainting Recycle Abrasive Structure and the paint system being used.

Time to recoat shall be according to the manufacturer's recommendations.

The dry film thickness will be determined by use of a magnetic film thickness gage. The gage shall be calibrated for dry film thickness measurement according to SSPC-PA 2. Dry film thickness in each area measured will be based on an average of three gage readings, after calibration of the gage to account for surface profile of the bare steel as a result of surface preparation.

4. Measurement

The City will measure Structure Repainting Recycled Abrasive (Structure #) as a single unit for each structure, acceptably completed.

5. Payment

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

ITEM	DESCRIPTION	UNIT
SC-02	Structure Repainting Recycled Abrasive	EACH

Payment is full compensation for preparing and cleaning the designated surfaces; furnishing and applying the paint; and for providing the listed equipment.  
stp-517-050 (20210708)

**E. Cleaning Concrete Box Girders**

**1. Description**

This Special Provision describes the removing of any loose, delaminated, or deteriorated concrete from concrete box girders, cleaning and painting any exposed bar steel reinforcement or steel prestressing strand - where shown in the plans, and as directed the engineer.

**2. Materials (Vacant)**

**3. Construction**

**a. Surface preparation**

Use construction methods in accordance with standard spec 203 and 517, and as hereinafter provided:

- i. Take necessary precautions while removing deteriorated concrete to preclude damage to the remaining sound concrete and preserve all existing reinforcing steel and prestressing strand. Clean, realign and retie existing reinforcing steel, as the engineer considers necessary.
- ii. Blast clean all exposed bar steel reinforcement and steel prestressing strand to remove all rust and corrosion prior to painting.
- iii. Where removal of the deteriorated concrete extends to a depth behind the bar steel reinforcement or steel prestressing strand, repair the area after painting bar steel reinforcement and steel prestressing strand. This repair work shall be done in accordance with, and paid for as, concrete surface repair.

**b. Coating Application**

Apply organic zinc rich primer and a top coat in a neat, workmanlike manner, and in accordance with the Manufacturer's instruction and recommendations. Paint application shall be by brush. The color of the primer shall be such that a definite contrast between it and the color of the blasted steel is readily apparent. The color of the paint's top coat shall be concrete gray.

**4. Measurement**

The City will measure Cleaning Concrete Box Girders by the square foot, acceptably completed.

**5. Payment**

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

ITEM	DESCRIPTION	UNIT
SC-10	Cleaning Concrete Box Girders	SF

Payment is full compensation for removing loose, delaminated, or deteriorated concrete; preparing and cleaning exposed steel; furnishing and applying paint to exposed steel surfaces; cleaning up; containing, collecting, and disposal of all waste materials.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

**SECTION 01 21 00**

**ALLOWANCES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Work Included: This section includes project allowances to cover items not precisely determined by the Owner prior to bidding. The allowances shall be included in bid price.
- B. Related Sections and Divisions: Applicable provisions of the General Conditions shall govern the work in this section.
- C. If the cost of materials, service or equipment exceeds that set forth above, the Contractor shall be reimbursed for the additional cost by the Owner. If the cost of materials, services or equipment is less than as set forth above, the Owner shall be credited for the difference between cost as stated below and actual cost.

**1.2 SCHEDULE OF ALLOWANCES**

- |  |          |
|--|----------|
| A. Misc Structural materials, nuts, bolts or fixing broken structural steel items prior to painting P-5-129: | \$ 1,000 |
| B. Landfill waste costs  | \$ 4,000 |
| TOTAL  | \$ 5,000 |

**1.3 ALLOWANCE DESCRIPTION**

- A. Costs included in allowances: Cost of product to Contractor or Subcontractor, less applicable trade discounts; include delivery to site and applicable taxes.
- B. Compensation to the Contractor shall be for the direct costs only and shall not include any Contractor mark-ups on services or for service coordinating allowance items, except additional bond costs if the Allowance total is exceeded. Costs not included in the allowance: Unless specified otherwise, allowances DO NOT include costs for product handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; labor for installation and finishing. These costs SHALL BE included in the Base Bid Price and no demand for additional payment on account of any thereof will be valid.
- C. Engineer Responsibilities
  - 1. Consult with Contractor in consideration and selection of products, suppliers and installers.
  - 2. Select products in consultation with Owner and transmit decision to Contractor.

3. Prepare change order, if required.

D. Contractor Responsibilities

1. On notification of selection by Engineer, execute purchase order with designated equipment supplier.
2. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
3. Promptly inspect products upon delivery for completeness, damage and defects. Submit claims for transportation damage.

1.4 TESTING ALLOWANCES

- A. N/A

1.5 MISCELLANEOUS ALLOWANCES

- A. Misc Structural materials, nuts, bolts or fixing broken structural steel items prior to painting P-5-129 per specifications. - This allowance shall include all costs associated with the above stated item as outlined in the appropriate specification sections.
- B. Landfill Waste Costs - This allowance item shall cover the cost for proper disposal of blasted paint materials at an engineer approved waste facility.

1.6 EQUIPMENT ALLOWANCES

- A. N/A

1.7 ENGINEERING REVIEW

- A. N/A

PART 2 - PRODUCTS

PART 3 - EXECUTION

END OF SECTION

**SECTION 01 22 05**

**MEASUREMENT AND PAYMENT SPECIAL CONSTRUCTION**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- |                                  |                     |
|----------------------------------|---------------------|
| A. Section includes:             | <u>Bid Item No.</u> |
| 1. Concrete Surface Repair       | SC-01, SC-09        |
| 2. Structure Repainting          | SC-02               |
| 3. Negative Pressure Containment | SC-03               |
| 4. Band Wing Walls               | SC-04               |
| 5. Coat Reinforcement Steel      | SC-05               |
| 6. Cleaning Concrete Box Girders | SC-10               |
| 7. Asphalt Deck Crackfilling     | SC-11               |
| 8. Mobilization                  | SC-06, SC-12        |
| 9. Traffic Control               | SC-07, SC-13        |
| 10. Detour                       | SC-14               |
| 11. Allowances                   | SC-08               |
- B. Unit Prices include:
1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
  2. The method of measurement for payment.
  3. The price per unit for payment.

**1.2 GENERAL WORK ITEMS**

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for special construction.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
1. Traffic Control.
  2. Loading, hauling and disposing of surplus material.
  3. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
  4. Dust control.
  5. Restroom facilities.
  6. Construction staking and other survey work not provided by the Engineer.

7. Regulatory requirements.
8. Quality assurance and quality control testing and inspections.
9. Shop drawings and other submittals.

**1.3 CONCRETE SURFACE REPAIR**

- A. The unit price for Concrete Surface Repair work includes:
  1. General Work Items of Article 1.2.
  2. Providing the repair.
  3. Removing and disposing of deteriorated concrete.
  4. Cleaning reinforcing steel.
  5. Providing the volume of concrete used in the surface repair.
- B. Measurement of payment will be the area acceptably completed, measured as the exposed surface area, following removal, as delineated by the saw cuts.
- C. The unit of measurement for payment is square feet.

**1.4 STRUCTURE REPAINTING**

- A. The unit price for Structure Repainting work includes:
  1. General Work Items described in Section 01 10 00 Summary of Work, Section 1.9 Special Provisions.
- B. Measurement of payment will be as a single unit for each structure, acceptably completed.
- C. The unit of measurement for payment is each.

**1.5 NEGATIVE PRESSURE CONTAINMENT**

- A. The unit price for Negative Pressure Containment work includes:
  1. General Work Items described in Section 01 10 00 Summary of Work, Section 1.9 Special Provisions.
- B. Measurement for payment will be as a single unit for each structure, acceptably completed.
- C. The unit of measurement for payment is each.

**1.6 BAND WING WALLS**

- A. The unit price for Band Wing Walls work includes:
  1. General Work Items of Article 1.2.
  2. Provide strapping, bolts and epoxy.
  3. Complete work as shown on Appendix A.

B. Measurement for payment will be the actual number of wing walls banded.

C. The unit of measurement for payment is each.

**1.7 COAT REINFORCEMENT STEEL**

A. The unit price for Coat Reinforcement Steel work includes:

1. General Work Items described in Section 01 10 00 Summary of Work, Section 1.9 Special Provisions.
2. Work shall be completed in accordance with the requirements for cleaning concrete box girders.

B. Measurement for payment will be the length of steel coated, acceptably completed.

C. The unit of measurement for payment is linear feet.

**1.8 CLEANING CONCRETE BOX GIRDERS**

A. The unit price for Cleaning Concrete Box Girders work includes:

1. General Work Items described in Section 01 10 00 Summary of Work, Section 1.9 Special Provisions.

B. Measurement for payment will be the actual area acceptably completed.

C. The unit of measurement for payment is square feet.

**1.9 ASPHALT DECK CRACKFILLING**

A. The unit price for Asphalt Deck Crackfilling work includes:

1. General Work Items described in Section 32 12 73.01 Pavement Joint Sealants-Crackfilling.

B. Measurement for payment will not be made.

C. The unit of measurement for payment is lump sum.

**1.10 MOBILIZATION**

A. The unit price for Mobilization work includes:

1. General Work Items of Article 1.2.
2. Work and operations necessary to move personnel, equipment, supplies, and incidentals to the project site.
3. Establish the contractor's offices, buildings, sanitary accommodations, and other facilities necessary to work on the project.



4. All other work and operations whose performance is required, or for costs necessarily incurred before beginning work on various items on the project site.
- B. Measurement for payment is full compensation for supplying and providing materials, facilities, and services, and for performing all work necessary to complete this contract bid item for each bridge.
- C. The unit of measurement for payment is each.

**1.11 TRAFFIC CONTROL AND/OR DETOUR**

- A. The unit price for Traffic Control and/or Detour work includes:
  1. General Work Items of Article 1.2.
  2. Providing, installing, maintain, and removing the Traffic Control signing and barricades as shown on the plans and per the MUTCD.
  3. Traffic Detour, including covering signs when not in use.
  4. Flaggers per the MUTCD.
  5. Temporary traffic control signals (activated) per the MUTCD.
  6. Sidewalk closure.
- B. Measurement for payment will be for traffic control, acceptably completed.
- C. The unit of measurement for payment is for each bridge.

**1.12 ALLOWANCES**

- A. The unit price for Allowances includes:
  1. General Work Items described in Section 01 21 00.
- B. Measurement for payment will be based on invoices.
- C. The unit of measurement for payment is each.

**END OF SECTION**

**SECTION 01 29 00**

**PAYMENT PROCEDURES**

**PART 1 – GENERAL**

**1.1 SUMMARY**

**A. This section includes:**

1. Administrative and procedural requirements necessary to prepare and process Applications for Payment.

**1.2 SCHEDULE OF VALUES**

- A. Unit Price work will be the Schedule of Values used as the basis for reviewing Applications for Payment.**

**1.3 APPLICATIONS FOR PAYMENT**

- A. Each Application for Payment shall be consistent with previous applications and payments as recommended by the Engineer and approved by Owner.**
- B. The date for each progress payment should be the 3<sup>rd</sup> Wednesday of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends the 4<sup>th</sup> Friday of the Month.**
- C. Use forms provided by Engineer for Applications for Payment. Sample copy of the Application for Payment and Continuation Sheet is included in Section 00 62 76.**
- D. Application Preparation Procedures**
1. When requested by the Contractor, the Engineer will determine the actual quantities and classifications of Unit Price Work performed.
    - a. Preliminary determinations will be reviewed with the Contractor before completing Application for Payment.
    - b. Engineer will complete the Application for Payment based on Engineer's decision on actual quantities and classifications.
    - c. Engineer will submit three original copies of Application for Payment to Contractor for certification of all three original copies.
    - d. Contractor shall submit signed Application for Payment to Owner for approval within time frame agreed to at the Preconstruction Conference.
  2. If payment is requested for materials and equipment not incorporated in the Work, then the following shall be submitted with the Application for Payment:
    - a. Evidence that materials and equipment are suitably stored at the site or at another location agreed to in writing.

- b. A bill of sale, invoice, or other documentation warranting that the materials and equipment are free and clear of all liens.
    - c. Evidence that the materials and equipment are covered by property insurance.
  3. Complete every entry on form. Execute by a person authorized to sign legal documents on behalf of Contractor.
- E. With each Application for Payment, submit waivers of liens from subcontractors and suppliers for the construction period covered by the previous application.
  1. Submit partial waivers on each item for amount requested before deduction for retainage on each item.
  2. When an application shows completion for an item, submit final or full waivers.
  3. Owner reserves the right to designate which entities involved in the Work shall submit waivers.
  4. Submit final Application for Payment with or preceded by final waivers from every entity involved with performance of the Work covered by the application.
  5. Submit waivers of lien on forms executed in a manner acceptable to Owner.
- F. The following administrative actions and submittals shall precede or coincide with submittal of first Application for Payment:
  1. List of subcontractors.
  2. Schedule of Values (For Lump Sum Work).
  3. Contractor's construction schedule.
- G. Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted including, but not limited, to the following:
  1. Evidence of completion of Project closeout requirements.
  2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
  3. Updated final statement, accounting for final changes to the Contract Sum.
  4. Consent of Surety to Final Payment.
  5. Final lien waivers as evidence that claims have been settled.
  6. Final liquidated damages settlement statement.

## **PART 2 – PRODUCTS**

## **PART 3 – EXECUTION**

**END OF SECTION**

**SECTION 01 32 33**

**CONSTRUCTION PHOTOGRAPHS**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Photographs for utility construction sites.

**1.2 SUBMITTALS**

- A. Submit electronic files of each photographic view within seven (7) days of taking photographs.

**1.3 QUALITY ASSURANCE**

- A. Photographs are to be submitted to the Engineer for approval prior to the start of construction.

**PART 2 – PRODUCTS**

**PART 3 – EXECUTION**

**3.1 UTILITY AND STREET CONSTRUCTION SITES**

- A. Prior to start of construction provide sufficient photographs to adequately show the existing facilities and conditions within and adjacent to the construction Site to serve as a guide for final restoration including:
  - 1. Roads including shoulders and/or curb and gutter.
  - 2. Sidewalks, parking areas, and driveways.
  - 3. Utility structures.
  - 4. Landscaping including signs, plantings, walls, fences, trees, shrubbery, etc.
  - 5. Mailboxes.
  - 6. Drainage facilities including culverts, inlets, ditches.
  - 7. Building structures.
- B. During construction provide sufficient photographs (a minimum of one per 100 feet of installed utility) to adequately show construction means, methods, and Site conditions including:
  - 1. Crossings of other utilities.
  - 2. Exposure of existing structures.
  - 3. Soil conditions.

**END OF SECTION**

**SECTION 01 33 00**

**SUBMITTALS**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section includes administrative and procedural requirements for submittals:
  - 1. Progress Schedule.
  - 2. Schedule of Shop Drawings and Sample Submittals.
  - 3. Shop Drawings.
- B. Failure to meet Submittal requirements to the satisfaction of the Engineer will constitute unsatisfactory performance of the work in accordance with the Contract Documents, therefore, the Engineer may recommend to the Owner that all or a portion of payments requested during the corresponding pay period be withheld until these requirements are met.

**1.2 SUBMITTAL PROCEDURES**

- A. Coordination: Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
  - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  - 2. Coordinate transmittal of different types of submittals for related elements of the work so processing will not be delayed by the need to review submittals concurrently for coordination.
    - a. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
  - 3. To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for re-submittals.
    - a. Allow two weeks for initial submittal.
    - b. Allow two weeks for reprocessing each submittal.
    - c. No extension of Contract Time will be authorized because of failure to transmit submittals to the Engineer sufficiently in advance of the work to permit processing.
- B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
  - 1. Assign a reference number to each submittal and re-submittal.
  - 2. Provide a space approximately four (4) by five (5) inches (100 by 125 mm) on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.
  - 3. Include the following information on the label for processing and recording action taken.

- a. Project name.
    - b. Date.
    - c. Name and address of the Engineer.
    - d. Name and address of the Contractor.
    - e. Name and address of the subcontractor.
    - f. Name and address of the supplier.
    - g. Name of the manufacturer.
    - h. Number and title of appropriate Specification Section.
    - i. Drawing number and detail references, as appropriate.
  4. Each submittal shall be stamped by the Contractor indicating that submittal was reviewed for conformance with the Contract Documents. The Engineer will not accept unstamped submittals.
- C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal to the Engineer. The Engineer will not accept submittals received from sources other than the Contractor.
1. On the transmittal, record relevant information and requests for Engineer action. On a form, or separate sheet, record deviations from Contract Document requirements, including variations, limitations, and justifications. Include Contractor's certification that information complies with Contract Document requirements.

### **1.3 CONTRACTOR'S PROGRESS SCHEDULE**

- A. Prepare and submit to the Engineer within 10 (ten) days after the Effective Date of the Agreement, four copies of a preliminary progress schedule of the work activities from Notice to Proceed until Substantial Completion.
1. Provide sufficient detail of the work activities comprising the schedule to assure adequate planning and execution of the work, such that in the judgment of the Engineer, it provides an appropriate basis for monitoring and evaluation of the progress of the work. A work activity is defined as an activity which requires substantial time and resources (manpower, equipment, and/or material) to complete and must be performed before the contract is considered complete.
  2. The schedule shall indicate the sequence of work activities. Identify each activity with a description, start date, completion date and duration. Include, but do not limit to the following items, as appropriate to this contract:
    - a. Shop drawing review by the Engineer.
    - b. Excavation and grading.
    - c. Asphalt and concrete placement sequence.
    - d. Restoration.
    - e. Construction of various segments of utilities.
    - f. Subcontractor's items of work.
    - g. Allowance for inclement weather.
    - h. Contract interfaces, date of Substantial Completion.
    - i. Interfacing and sequencing with existing facilities and utilities.

- j. Sequencing of major construction activities.
  - k. Milestones and completion dates.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting, event, or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.
- D. Punch List: Prepare and submit to the Engineer within ten (10) days after substantial completion a detailed progress schedule for outstanding work and punch list items.

#### **1.4 SCHEDULE OF SHOP DRAWINGS AND SAMPLE SUBMITTALS**

- A. Submit electronic or one (1) hard copy of preliminary submittal schedule in accordance with the General Conditions of the Contract and as follows:
- 1. Coordinate submittal schedule with the subcontractors, Schedule of Values, and of products as well as the Contractor's Progress Schedule.
  - 2. Prepare the schedule in chronological order. Provide the following information:
    - a. Scheduled date for the first submittal.
    - b. Related Section number.
    - c. Submittal category (Shop Drawings, Product Data, or Samples).
    - d. Name of the subcontractor.
    - e. Description of the part of the work covered.
    - f. Scheduled date for the Engineer's final release or approval.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. Post copies in the field office. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

#### **1.5 SHOP DRAWINGS**

- A. Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or

copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not a Shop Drawing.

- B. Collect product data into a single submittal for each element of construction of system. Product data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
  - 1. Mark each copy to show actual product to be provided. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Include the following information:
    - a. Manufacturer's printed recommendations.
    - b. Compliance with trade association standards.
    - c. Compliance with recognized testing agency standards.
    - d. Application of testing agency labels and seals.
    - e. Notation of dimensions verified by field measurement.
    - f. Notation of coordination requirements.
- C. Do not use shop drawings without an appropriate final stamp indicating action taken.
- D. Submittals: Submit electronic or one (1) hard copy of each required submittal. The Engineer will scan and return the submittal to the Contractor marked with action taken and corrections or modifications required.
- E. Distribution: Furnish copies of reviewed submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms. Maintain one copy at the project site for reference.
  - 1. Do not proceed with installation until a copy of the Shop drawing is in the Installer's possession.
  - 2. Do not permit use of unmarked copies of the Shop Drawing in connection with construction.

## **1.6 ENGINEER'S ACTION**

- A. Except for submittals for the record or information, where action and return is required, the Engineer will review each submittal, mark to indicate action taken, and return promptly. The Engineer will stamp each submittal with a uniform action stamp. The Engineer will mark the stamp appropriately to indicate the action taken, as follows:
  - 1. "No Exceptions Taken": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.
  - 2. "Make Corrections Noted": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.



3. "Amend and Resubmit": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Amend and Resubmit" at the Project Site or elsewhere where work is in progress.
  4. "Rejected – See Remarks": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Rejected and Resubmit" at the Project Site or elsewhere where work is in progress.
- B. Unsolicited Submittals: The Engineer will return unsolicited submittals to the sender without action.

**PART 2 – PRODUCTS**

**PART 3 – EXECUTION**

**END OF SECTION**

**SECTION 01 41 00**

**REGULATORY REQUIREMENTS**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Underground Utilities.
  - 2. Property Monuments.
  - 3. Traffic Control.

**1.2 UNDERGROUND UTILITIES**

- A. Under the provisions of Wisconsin Statutes, Section 182.0175, all contractors, subcontractors, and any firm or individual intending to do work on this Contract shall contact all utility firms in the affected area of construction a minimum of three (3) working days prior to beginning construction so that affected utilities will be located and marked.

**1.3 PROPERTY MONUMENTS**

- A. Protect iron pipe monuments from movement.
- B. The cost of replacement of any monuments moved or destroyed during construction shall be the Contractor's responsibility.
- C. Perpetuation of destroyed or moved monuments shall be performed in accordance with state statutes by a registered land surveyor.

**1.4 TRAFFIC CONTROL**

- A. Provide traffic control facilities including barricades, signs, lights, warning devices, pavement markings, flaggers, etc.
- B. Construct and use traffic control facilities in accordance with the U.S. D. O. T. Federal Highway Administration's Manual on Uniform Traffic Control Devices for Streets and Highways.
- C. Maintain traffic control devices as required to properly safeguard the public travel through final completion, including during periods of suspension of work.

**PART 2 – PRODUCTS (Not used)**

PART 3 – EXECUTION (Not used)

END OF SECTION

**SECTION 01 71 23**

**FIELD ENGINEERING**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Engineering Surveys Provided by the Engineer.
  - 2. Engineering Surveys Provided by the Contractor.

**1.2 SUBMITTALS**

- A. None

**PART 2 – PRODUCTS (Not Used)**

**PART 3 – EXECUTION**

**3.1 PREPARATION**

- A. Investigate and verify the existence and location of site improvements, utilities, and other existing facilities.
- B. Before construction, verify the location of invert elevations at points of connection of sanitary sewer, storm sewer, water piping and underground electrical services.
- C. Furnish information to the Engineer and the appropriate utility regarding conflicts that are necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction.
- D. Provide the Engineer two (2) working days advance notification when ready for engineering surveys for construction to be provided by the Engineer.

**3.2 ENGINEERING SURVEYS TO BE PROVIDE BY THE ENGINEER**

- A. General
  - 1. Establish benchmarks for construction as shown on the drawings.
  - 2. Establish control points as shown on the drawings.
- B. Gravity Sewer Systems and Water Distribution Systems
  - 1. Provide construction reference stakes set for pipe construction location at critical changes in horizontal and vertical alignment.

2. Provide construction stakes for location of pipe at connections.

**C. New Road Construction**

1. Provide construction slope intercept stakes for horizontal and vertical alignment on each side of the road base on each cross section in the cross section sheets for requests received at least seventy-two (72) hours before the related work begins.
2. Provide construction reference stakes for subgrade at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for subgrade at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference line stake at each location.
3. Provide construction reference stakes for top of crushed aggregate at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for top of crushed aggregate at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference or centerline stake.

**3.3 ENGINEERING SURVEYS TO BE PROVIDED BY THE CONTRACTOR**

**A. General**

1. Locate, preserve and protect established construction reference stakes, benchmarks and control points.
2. Locate, preserve and protect property corners and section corner monuments. If moved or destroyed due to Contractor negligence, then replace in accordance with state requirements; some of which are referenced in the "Regulatory Requirements".
3. Provide additional construction staking as necessary to complete construction based on the construction reference stakes provided by the Engineer and the Drawings.
4. Before beginning with necessary construction staking, verify the information shown on the Drawings, in relation to the established construction reference stakes, bench marks, control points and property corners. Notify the Engineer of any discrepancies.
5. Remove construction reference stakes when directed by the Engineer.

**B. Gravity Sewer Systems and Water Distribution Systems**

1. Provide any intermediate construction reference points as required to verify installation at the line and grade established and locate appurtenant structures.
2. Check the line and grade with construction reference stakes at each pipe length.

**C. New Road Construction**

1. Provide additional construction reference stakes necessary to establish location and grade in accordance with the plans.

**END OF SECTION**

**SECTION 32 12 73.01**

**PAVEMENT JOINT SEALANTS—CRACKFILLING**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Description: This work shall consist of the crackfilling of streets where indicated on the plans or as directed by the Engineer.

**PART 2 - PRODUCTS**

**2.1 GENERAL**

- A. The Joint sealer material shall be capable of effectively sealing joints in streets against the infiltration of moisture throughout repeated cycles of expansion and contraction. The joint sealer shall not flow from the joints or be picked up by vehicle tires at summer temperatures. The joint sealer material shall meet the following detailed requirements:

**2.2 TYPE**

- A. The joint sealing compound shall be of the hot-poured elastic type conforming to AASHTO Designation M173 and amended as follows:
  - 1. Paragraph 2 of AASHTO Designation M173 shall be amended to read: the material shall be capable of being heated at a temperature below 400 degrees F. to a uniform pouring consistency suitable for completely filling the joints without inclusion of large air holes or discontinuities and without damage to the material.

**2.3 FLOW**

- A. The joint sealer shall exhibit a flow not exceeding 0.5 cm. when heated to the following testing temperatures:
  - 1. at 360 deg. F.
  - 2. at 400 deg. F.
  - 3. at 440 deg. F.
  - 4. at 460 deg F.

**2.4 MELTING OF MATERIAL**

- A. The inner or contact layer of the container shall incorporate itself completely into the joint sealer compound when melted and shall not be detrimental to the joint sealer properties.

**2.5 METHOD OF TESTS**

- A. Tests shall be conducted in accordance with appropriate methods of AASHTO Designation T187. All testing will be performed by an independent laboratory approved by the Engineer.

## 2.6 AASHTO DESIGNATIONS

- A. Reference to AASHTO Designations shall mean the latest AASHTO specification and/or test procedures in effect at time of bid.

## PART 3 - EXECUTION

### 3.1 CONSTRUCTION METHODS

- A. The c2rackfilling material shall be heated in a “double boiler” oil jacketed melter unit with agitator. The temperature of the melted c2rackfilling material shall not exceed 425 degrees F. (218 degrees C).
- B. shall be blown clean with compressed air (minimum air pressure, 80 lbs per square inch) including removal of all loose joint sealant, and filled flush to pavement surface with the c2rackfilling material.
- C. All previously unsealed cracks, joints, and surface defects in asphalt concrete pavement shall be routed at a 1:1 ratio (minimum ¾-inch and maximum 1½-inch), blown clean with compressed air (minimum air pressure, 80 lbs per square inch), and filled flush to pavement surface with 2crackfilling material.
- D. All previously sealed and unsealed cracks and surface defects within 12 inches of the pavement edge shall be blown clean, not routed, with compressed air (minimum air pressure, 80 lbs per square inch), and filled flush to pavement surface with c2rackfilling material and then wiped.
- E. Joint sealing material shall be placed so that the sealing compound completely fills the joint opening without overflowing on the adjoining surface, and when finished, after shrinkage, the sealer shall be approximately 1/8 inch below the adjoining surfaces. In the event satisfactory sealing of a joint is not accomplished in a single pouring, the sealing compound shall be placed in two pourings. At least one-half of the required amount shall be placed in the first pouring, and the second pouring shall follow the first as soon as practicable, after the first pouring has attained maximum shrinkage but not later than one hour after the first pouring.
- F. The material placed in the joint shall **immediately** be dusted with fine sand, meeting the following specifications.

1. Table 1 – Crackfilling Sand (below)

Sieve Size	Percentage Passing
#4	95-100
#16	45-80

#50	10-30
#100	2-10
#200	0-2

- G. During periods of rain or inclement weather, crackfilling material shall not be placed without the approval of the Engineer. After the period of rain or inclement weather, all cracks and joints shall be blown clean and dry with compressed air. All joints, cracks, and surface defects must be free of any moisture prior to placement of the crackfilling material.
- H. The contractor must take care not to melt more crackfilling material than will be used during a days operation. Should any crackfilling material remain in the melter unit at days end, it must be discarded, and **not reheated** the following day.

#### PART 4 - MEASUREMENT AND PAYMENT

##### 4.1 CRACKFILLING

- A. Crackfilling shall be paid for per lump sum price. This price shall be payment in full for crackfilling, cleaning and drying of the joints, dusting with sand, removal and disposal of material, and for all equipment, tools, labor and incidentals necessary for completing the work.

END OF SECTION



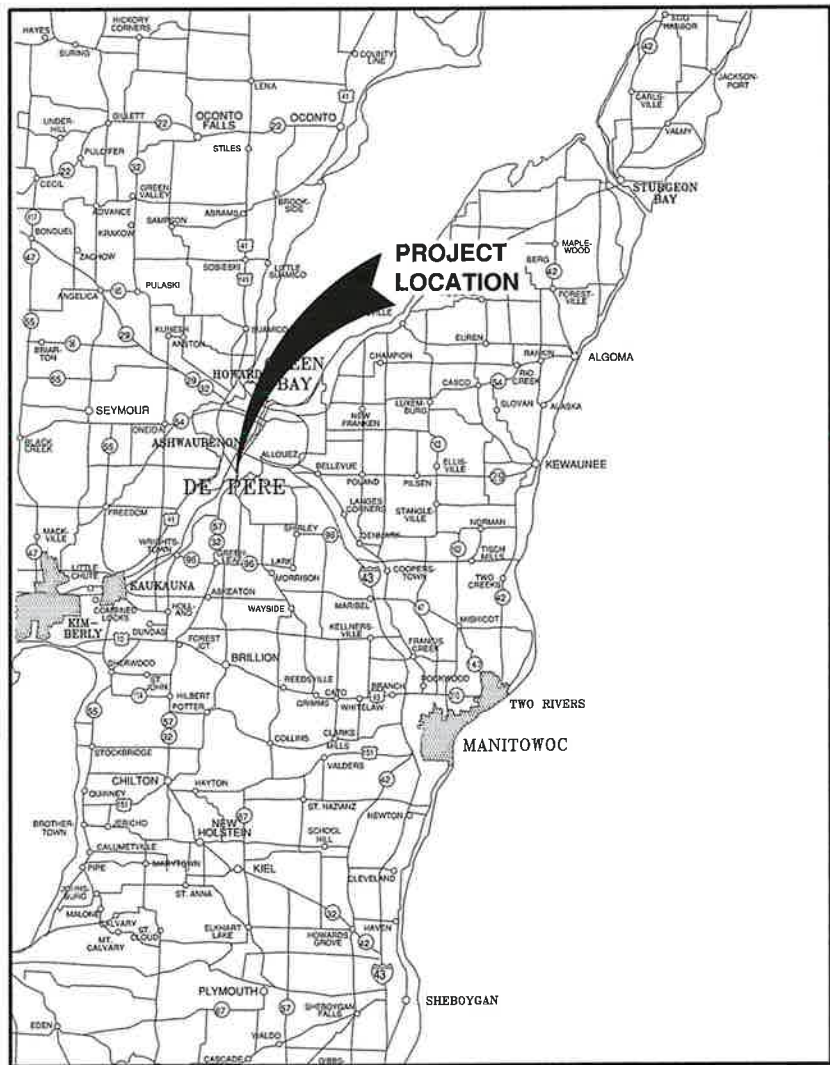
**APPENDIX A**

**2023 BRIDGE REHABILITATION PLANS**

# 2023 BRIDGE REHABILITATION CITY OF DE PERE BROWN COUNTY, WISCONSIN

ATTENTION!  
DOWNLOADED PLANS ARE NOT SCALEABLE, NEITHER THE  
OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE  
FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS.  
ONLY PRINTED PLANS FROM BLUE PRINT SERVICE CO., INC.  
SHALL BE CONSIDERED TO BE SCALEABLE PLANS.

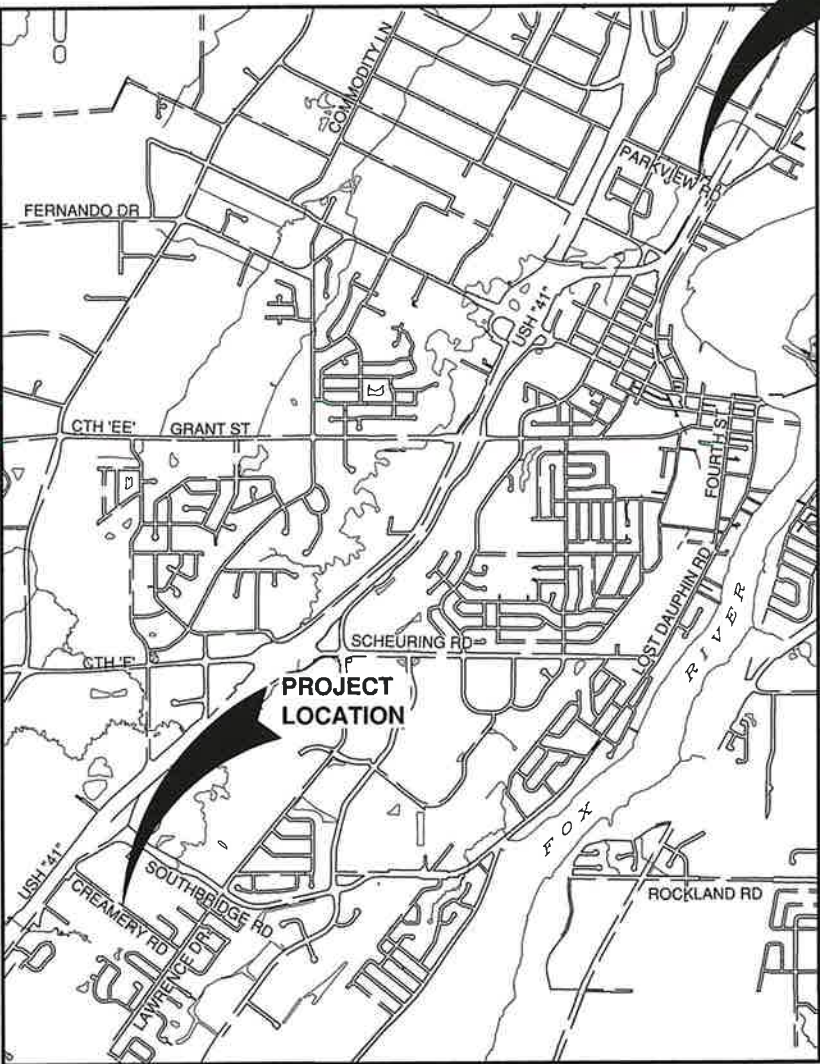
PROJECT  
LOCATION



VICINITY MAP

NOTE:  
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE  
RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES,  
WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY  
OWNERS SHALL BE NOTIFIED FOR LOCATES BY THE CONTRACTOR 72 HOURS PRIOR TO  
EXCAVATION.

NOTE:  
ALL EROSION CONTROL MEASURES SHALL  
BE IN PLACE PRIOR TO CONSTRUCTION  
AND SHALL CONFORM TO THE WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
CONSTRUCTION SITE EROSION CONTROL  
AND TECHNICAL STANDARDS.



LOCATION MAP

**REL** Robert E. Lee  
& Associates, Inc.  
1250 Centennial Centre Blvd | Hobart, WI | 920-662-9641 | releinc.com



CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

LOCATION MAPS

NAME: BRIDGE REHABILITATION	BY	DATE	REVISIONS / ISSUES		REMARKS
			NO.	DATE	
PROJECT # 23-16	SURVEYED				
	DRAWN RLB	06-2022			
	DESIGNED RHT	06-2022			
	CHECKED				

PROPOSED  
EXISTING

FIRE HYDRANT  
WATER VALVE/CURB STOP  
WATER MANHOLE  
REDUCER/INCREASER  
SANITARY MANHOLE  
LIFT STATION  
TRACER WIRE SIGNAL CONNECTION BOX  
AIR RELIEF MANHOLE  
STORM MANHOLE  
OPEN STORM MANHOLE  
STORM INLET  
STORM INLET MANHOLE  
YARD DRAIN

## LEGEND

SOIL BORING  
POWER POLE  
POWER POLE W/GUY WIRE  
LIGHT POLE  
TRAFFIC SIGNAL POLE  
ELECTRIC MANHOLE  
ELECTRIC METER  
TELEPHONE MANHOLE  
TELEPHONE PEDESTAL  
CABLE TV MANHOLE  
CABLE TV PEDESTAL  
GAS VALVE  
GAS METER  
MAILBOX  
SIGN  
POST  
IRON PIPE/ROD  
PK NAIL  
INLET PROTECTION

DECIDUOUS TREE  
CONIFEROUS TREE  
BUSH  
BALE DITCH CHECK  
RIP RAP  
LATERAL LOCATION  
SPOT ELEVATION  
FIRST FLOOR/BASEMENT ELEVATION  
APPROXIMATE ROCK ELEVATION  
EXISTING CULVERT  
TRACKING PAD  
CUT AND PLUG

## INDEX TO DRAWINGS

SHT. NO.	DESCRIPTION
1	LOCATION MAPS
2	LEGEND AND INDEX TO DRAWINGS
3	PLAN DETAILS
4	PLAN DETAILS

EDGE OF PAVEMENT  
EDGE OF GRAVEL  
PROPOSED CURB & GUTTER  
EXISTING CURB & GUTTER  
TREE/BRUSH LINE  
EXISTING CONTOUR LINE  
PROPOSED CONTOUR LINE  
RETAINING WALL  
GUARD RAIL  
FENCE  
SILT FENCE

PROPOSED SANITARY SEWER  
EXISTING SANITARY SEWER (SIZE NOTED)  
PROPOSED FORCEMAIN  
EXISTING FORCEMAIN (SIZE NOTED)  
PROPOSED STORM SEWER  
EXISTING STORM SEWER (SIZE NOTED)  
PROPOSED WATERMAIN  
EXISTING WATERMAIN (SIZE NOTED)  
GAS LINE  
OVERHEAD TELEPHONE LINE  
UNDERGROUND TELEPHONE LINE  
FIBER OPTIC LINE  
OVERHEAD ELECTRIC LINE  
UNDERGROUND ELECTRIC LINE  
OVERHEAD CABLE TV LINE  
UNDERGROUND CABLE TV LINE  
R/W LINE  
PROPERTY LINE  
EASEMENT LINE  
BUILDING SETBACK LINE  
SECTION LINE



TO OBTAIN LOCATION OF PARTICIPANTS  
UNDERGROUND FACILITIES BEFORE YOU  
DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE.

GR. GRAVEL	WM WATERMAIN	VPC VERTICAL POINT OF CURVATURE	R/W RIGHT OF WAY
BIT. BITUMINOUS	HYD. HYDRANT	VPI VERTICAL POINT OF INTERSECTION	T/C TOP OF CURB
ASPH. ASPHALT PAVEMENT	WV WATER VALVE	VPT VERTICAL POINT OF TANGENCY	F/L FLOW LINE
CONC. CONCRETE	SAN SANITARY SEWER	PC POINT OF CURVATURE	C/L CENTERLINE
SW SIDEWALK	MH MANHOLE	PI POINT OF INTERSECTION	P/L PROPERTY LINE
BLDG BUILDING	ST STORM SEWER	PT POINT OF TANGENCY	R/L REFERENCE LINE
HSE HOUSE	CB CATCH BASIN	R RADIUS	INV. INVERT
PED PEDESTAL	TELE TELEPHONE	EX EXISTING	CMP CORRUGATED METAL PIPE
PP POWER POLE	ELEC ELECTRIC	PR PROPOSED	RCP REINFORCED CONCRETE PIPE
LP LIGHT POLE	TV TELEVISION	EOR END OF RADIUS	CULV. CULVERT
BM BENCH MARK	STA. STATION	B-B BACK TO BACK (OF CURB)	

**REL** Robert E. Lee  
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1250 Centennial Centre Blvd | Hobart, WI | 920-662-9641 | rel@inc.com



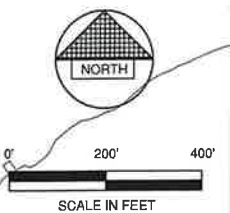
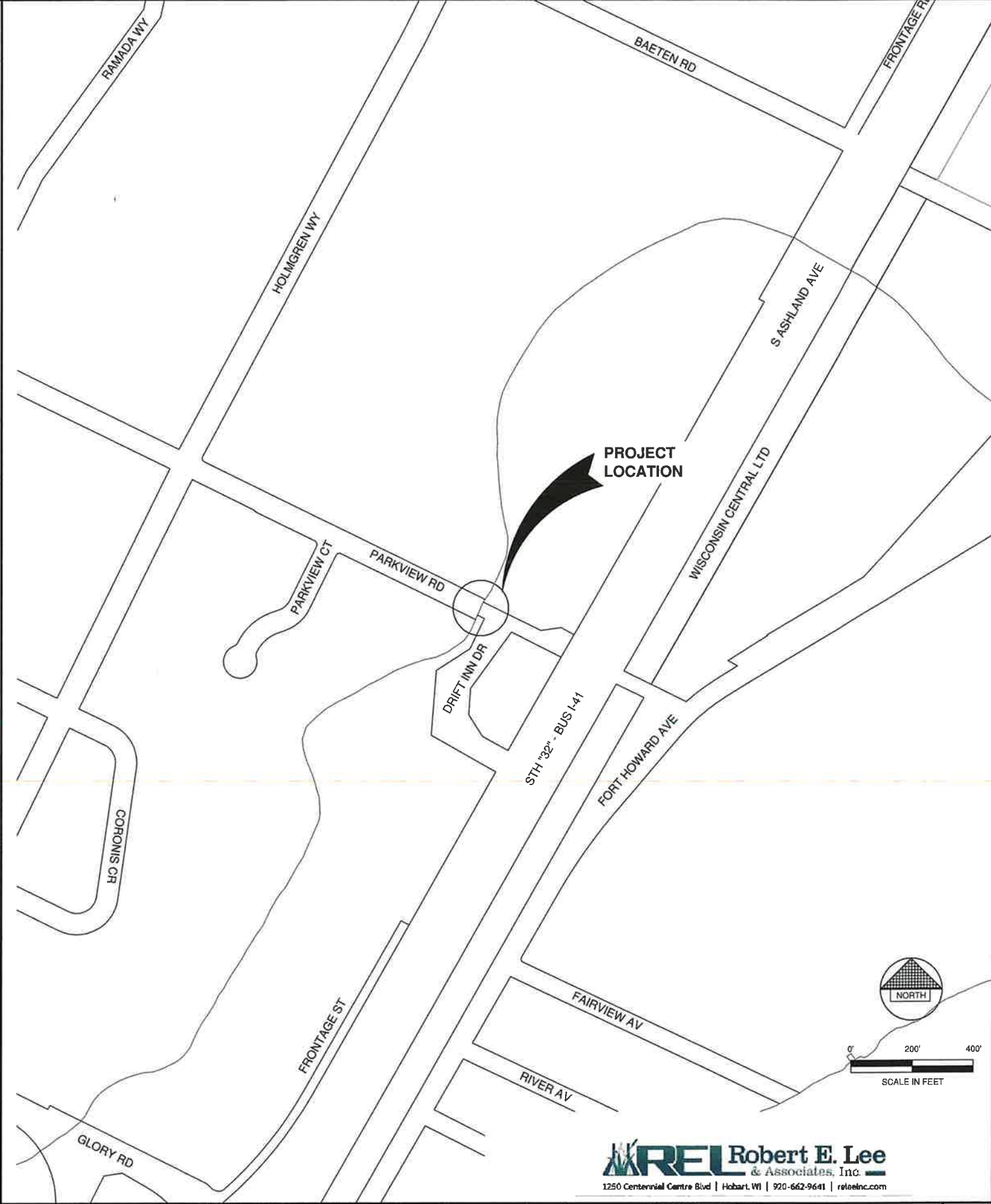
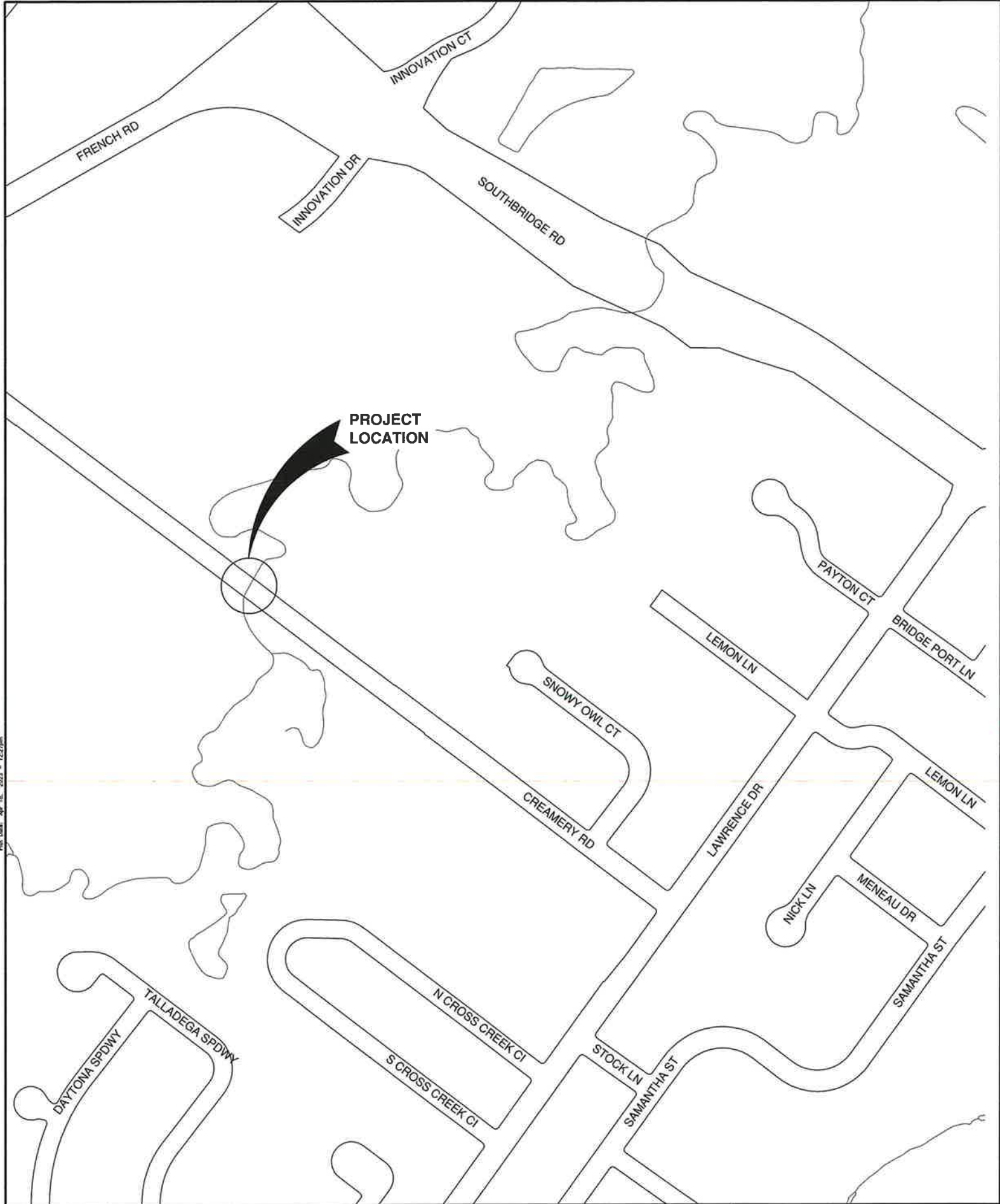
### CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

### LEGEND AND INDEX TO DRAWINGS

NAME: BRIDGE REHABILITATION	BY	DATE	REVISIONS / ISSUES				PAGE NO.
			NO.	DATE	BY	REMARKS	
PROJECT # 23-16			SURVEYED				2
			DRAWN	RLB	06-2022		
			DESIGNED	RHT	06-2022		
			CHECKED				





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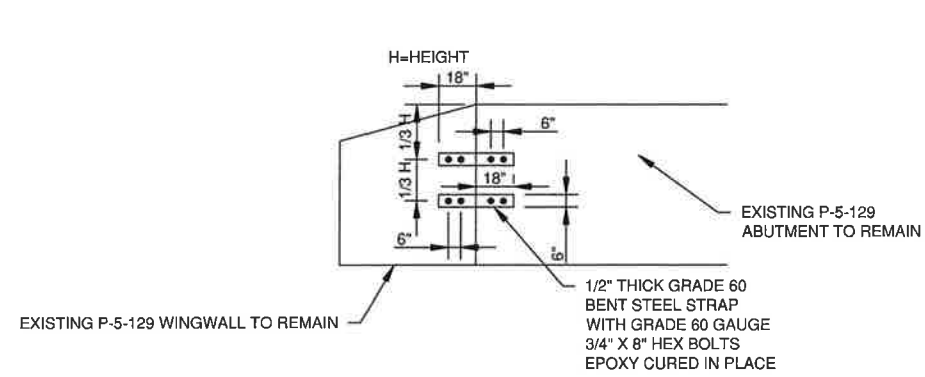


**CITY OF DE PERE**

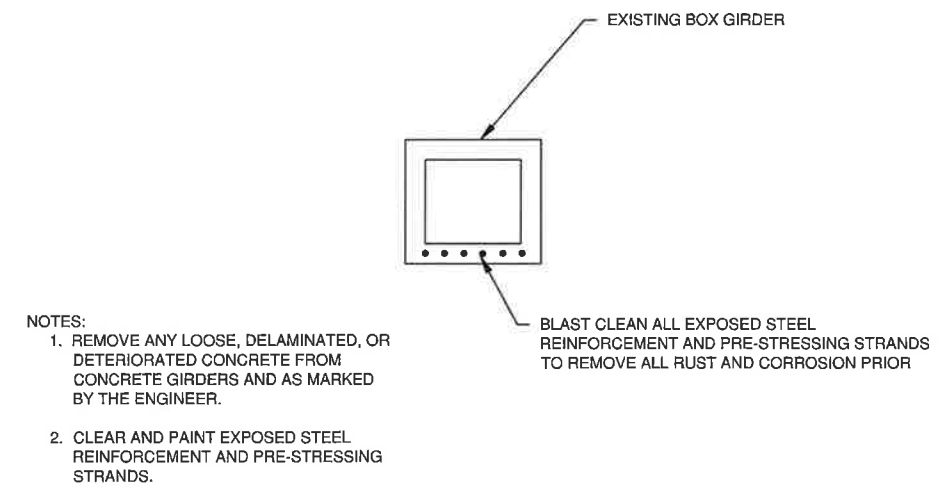
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**PLAN DETAILS**

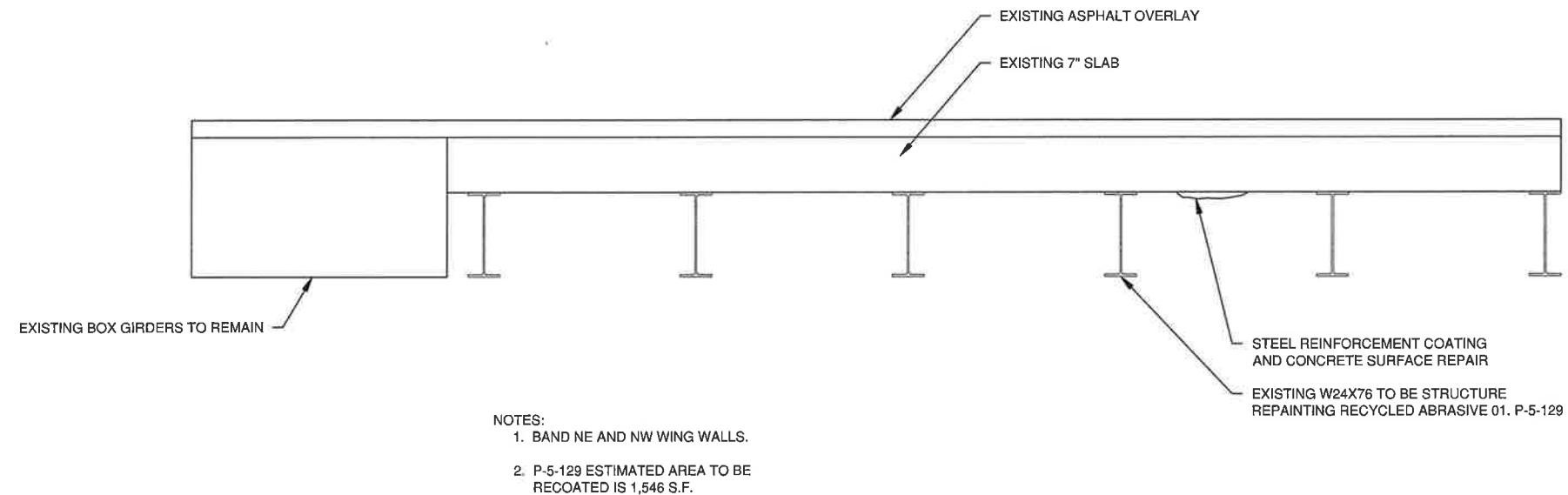
NAME: BRIDGE REHABILITATION		BY	DATE	REVISIONS / ISSUES				PAGE NO. <b>3</b>
PROJECT # 23-16		SURVEYED		NO	DATE	BY	REMARKS	
		DRAWN	RLB	06-2022				
		DESIGNED	RHT	06-2022				
		CHECKED						



WINGWALL BANDING DETAIL



CLEANING BOX GIRDER DETAIL



P-5-129 CONSTRUCTION DETAIL



NO.	DATE	BY	REMARKS
SURVEYED			
DRAWN	RLB	06-2022	
DESIGNED	RHT	06-2022	
CHECKED			

**APPENDIX B**

**WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS  
SECTION 509**

## 509 Concrete Overlay and Structure Repair

### 509.1 Description

- (1) This section describes cleaning or scarifying areas of decks and approach pavements to be overlaid; removing and disposing any remaining asphaltic patches or unsound concrete from those areas; the furnishing, placing and curing concrete overlays; and full depth deck, surface, curb and joint repairs, as required.

### 509.2 Materials

- (1) Furnish a neat cement bonding grout. Mix the neat cement in a water-cement ratio approximately equal to 5 gallons of water per 94 pounds of cement.
- (2) Furnish grade E conforming to [501](#) for overlays.
- (3) Furnish grade C or E concrete conforming to [501](#) for surface repairs. The contractor may increase the slump for grade E concrete to a maximum of 4 inches. The contractor may apply an engineer-approved commercial grout or surface coating to surfaces being repaired instead of the grades of concrete designated above if the engineer approves in writing.
- (4) Furnish grade C or E concrete conforming to [501](#) for joint repairs, curb repairs, and full-depth deck repairs; except as follows:
  1. The contractor may increase slump of grade E concrete to 3 inches.
  2. The contractor may use ready-mixed concrete.
- (5) Provide QMP for class II ancillary concrete as specified in [716](#).

### 509.3 Construction

#### 509.3.1 Repair rebar coating using ASTM specified materials and methods.

#### 509.3.1 General

- (1) Repair damage to existing epoxy-coated reinforcement remaining in place that is either uncovered by or damaged by the contractor's operations. **Use a two-part epoxy resin conforming to materials and according to the methods specified in [ASTM A775](#) for field repairs and patching.**

#### 509.3.2 Equipment

- (1) Use a finishing machine to finish concrete overlays conforming to [502.3.7.8](#) and the following:
  1. The machine must have 2 linearly oscillating transverse screeds. For the front screed use, a synchronous vibratory screed with a variable frequency the operator can adjust. Provide enough identical vibrators to provide at least 2 vibrators for each 5 feet of screed length. Ensure that the bottom face of each screed is at least 7 inches wide with a rounded leading edge. Each screed must have an effective weight of at least 75 pounds per square foot of bottom face area. Provide each screed with the capability to positively control of the vertical position, the angle of tilt and the shape of the crown.
  2. The machine must have an adjustable metering device ahead of the leading screed that traverses the width of the machine.
  3. The machine must have capability of forward and reverse motion under positive control. Make provisions for raising the screeds to clear the screeded surface for traveling in reverse.
- (2) If placing concrete in a line next to a previously completed lane, equip the side of the finishing machine next to the completed lane, to travel on the lane.

#### 509.3.3 Cleaning

- (1) Under the Cleaning Decks and Cleaning Approaches bid items, clean the decks and approach pavements before placing the concrete overlay.
- (2) Use construction methods conforming to [502](#) and the following:
  1. Clean the entire surface of the bridge deck or approach pavement receiving the new concrete by using a suitable mechanical scarifier. Accomplish this in a way that prevents hooking or tearing the reinforcing steel and that removes at least one inch of concrete from the deck or pavement surface but not more than the maximum depth the plans show.
  2. If scarification is impracticable, as along curb faces or at expansion joints, remove deteriorated concrete to sound material by using chippers conforming to [509.3.4](#) for chippers.
  3. Perform scarification before preparation. After completing scarification, remove the remaining asphaltic patches and unsound concrete as specified for preparation in [509.3.4](#).
  4. Blast clean the entire surface of the deck and approach pavements being overlaid, exposed reinforcing steel, the vertical faces of curbs, sidewalks and parapets to the depth of the adjoining concrete overlay after completing preparation.

5. Clean the surface receiving the new concrete by mechanically dislodging contamination or debris and removing loose particles and dust with high-pressure water or air. Ensure that no free-standing water remains before placing grout and that cleaning water conforms to [501.2.6](#).

#### **509.3.4 Preparation**

- (1) Under the Preparation Decks and Preparation Approaches bid items, remove asphaltic patches and unsound or disintegrated areas of concrete decks and approach pavements as the plans show, or as the engineer directs.
- (2) Use construction methods conforming to [203](#) and the following:
  1. Under the Preparation Decks Type 1 bid item, remove existing asphaltic patching and unsound bridge deck concrete only to a depth that exposes 1/2 of the peripheral area of the top or bottom bar steel in the top mat of reinforcement.
  2. Under the Preparation Decks Type 2 bid item, remove existing unsound bridge deck concrete below the limit of the type 1 removal described above. One inch below the bottom of the top or bottom bar steel in the top mat of reinforcement is the minimum depth of type 2 removal. The engineer will direct any further removal.
  3. Remove the existing asphaltic patching and unsound concrete using equipment that causes no damage to the bridge floor. If chipping exposes the existing bar steel reinforcement for more than 1/2 of its peripheral area, and where bond between existing concrete and reinforcing bar has been destroyed, remove the adjacent concrete to provide a minimum one-inch clearance around the bar.
  4. For chipping off the old concrete surface, use air chippers or breakers that weigh no more than 35 pounds and are equipped with flat, chisel-type points with a cutting edge not less than 3/4 inch or greater than 3 inches wide.
  5. After reaching the top of the reinforcing steel, do not use hammers heavier than 15 pounds within one inch of the steel.
  6. Dispose of old concrete and asphaltic patching removed away from the bridge site. Implement necessary procedures to minimize debris dropping into the stream, streambed, roadway, or right-of-way below.

#### **509.3.5 Joint Repair**

- (1) Under the Joint Repair bid item, remove and dispose of deteriorated concrete at existing joints over piers, abutments and deck ends and other locations, and form new joints as the plans show, and the engineer directs.
- (2) Use construction methods conforming to [203](#), [502](#), and the following:
  1. Remove the concrete at an existing joint to be replaced to the limits the plans show, or as the engineer directs. Place a 1/2 inch deep saw cut at the line of removal on the bottom edge of the deck to control concrete breakout or cover the line of removal with a 1 1/2 inch thick layer of concrete to cover reinforcing steel exposed during joint repair. Use removal equipment that causes no damage to the portion of the concrete floor, curbs, and reinforcing steel remaining in place. Do not use tractor-mounted rams for removal operations within 9 inches of the edge, or within the depth of the slab from the edge, whichever is less.
  2. Preserve and reuse required existing reinforcing steel, and blast clean, realign, and retie, as the engineer deems necessary. If additional reinforcement is required, use grade 60 steel conforming to AASHTO M31, and to [505.2](#).
  3. Dispose of removed material as specified in [509.3.4](#).
  4. Clean the surface receiving the new concrete by brooming and water pressure using a high-pressure nozzle to remove loose particles and dust.
  5. Immediately before placing concrete, coat the surfaces of the old concrete receiving new concrete with neat cement as specified for concrete overlays in [509.3.9.2](#).
  6. Restore painted surfaces damaged by any construction operation to the satisfaction of the engineer.
  7. Place concrete as specified for joint repair in [509.3.9.1](#).

#### **509.3.6 Curb Repair**

- (1) Under the Curb Repair bid item, remove and dispose of portions of deteriorated concrete on the concrete curbs and form new curb faces, top or back as the plans show.
- (2) Use construction methods conforming to [203](#), [502](#), and the following:
  1. Take the precautions necessary while removing deteriorated concrete to preserve existing reinforcing steel. Clean, realign, and retie existing reinforcing steel, as the engineer considers necessary.
  2. Remove concrete to sound concrete or at least one inch behind existing reinforcing steel as the plans show and the engineer directs.
  3. Make a 1/2-inch deep saw cut at the limits of curb repair before removing the deteriorated concrete.
  4. Dispose of removed material as specified in [509.3.4](#).



5. Clean the surface against which placing the new concrete to remove loose particles and dust, and keep continuously wet for 2 hours before placing new concrete. Immediately before placing concrete, coat the surfaces of old concrete with neat cement as specified in [509.3.9.2](#).
6. Place concrete as specified in [509.3.9.1](#).

#### **509.3.7 Concrete Surface Repair**

- (1) Under the Concrete Surface Repair bid item, remove those portions of abutments, piers, girders, and other elements that the plans show, and the engineer directs, and replace those portions with concrete.
- (2) Use construction methods conforming to [203](#), [502](#), and the following:
  1. Take necessary precautions while removing deteriorated concrete to preserve existing reinforcing steel. Clean, realign, and retie existing reinforcing steel, as the engineer considers necessary.
  2. Remove concrete to sound concrete or to one inch behind the existing reinforcing steel, whichever depth is greater, at locations the plans show or as the engineer directs.
  3. Make a 1/2-inch deep saw cut at the limits of the concrete surface repair before removal of the deteriorated concrete.
  4. Dispose of removed material as specified in [509.3.4](#).
  5. Clean the surfaces against which placing the new concrete to remove loose particles and dust, and keep continuously wet for a period of 2 hours before placing new concrete.

#### **509.3.8 Full Depth Deck Repair**

- (1) Under the Full-Depth Deck Repair bid item, perform full-depth removal of unsound concrete at locations on the deck as the engineer directs, and then prepare and form these areas.
- (2) Use construction methods conforming to [203](#), [502](#), and the following:
  1. Completely remove the existing concrete deck areas being repaired using equipment that causes no significant damage to that portion of the structure remaining in place. Preserve and reuse required existing reinforcing steel.
  2. If damage occurs to anything designated for re-use in the new work repair, or replace it at no expense to the department.
  3. Dispose of removed material as specified in [509.3.4](#).
  4. Blast clean, realign, and retie the existing reinforcing steel to be re-used, as the engineer considers necessary.
  5. Clean the vertical surface receiving the new concrete by brooming and water pressure to remove loose particles and dust, and keep continuously wet for 2 hours before placing concrete. Immediately before placing concrete in the full depth deck replacement, coat the entire surface receiving the new concrete with neat cement as specified in [509.3.9.2](#).
  6. Place the concrete for the repair as specified in [509.3.9.1](#).

#### **509.3.9 Concrete**

##### **509.3.9.1 General**

- (1) Under the Concrete Masonry Overlay Decks and Concrete Masonry Overlay Approaches bid items, construct a concrete overlay course on concrete deck and approach pavement to the lines, grades, thickness, and cross-section the plans show, or the engineer directs.
- (2) Use construction methods conforming to [502](#) and the following:
  1. For joint repair, place the concrete and consolidate by vibrating in the prepared joints before placing the overlay.
  2. For curb repair, place the concrete, consolidate, and strike off to the required alignment for curb faces, tops, and backs.
  3. For full depth deck repair, place the concrete; consolidate by internal vibration, and strike off to the existing deck elevation before placing the overlay.

##### **509.3.9.2 Placing Concrete Overlays**

- (1) Do not place the concrete overlay less than 24 hours after placing concrete in the joint repair and full-depth deck repair areas.
- (2) Immediately before placing the concrete overlay, coat the surface of the bridge decks or approach pavement being overlaid, and vertical joints with a neat cement mixture. Ensure the surface of the existing deck is moist without any standing water before coating with the neat cement mixture. Brush the neat cement over the prepared concrete surface to ensure all parts receive an even coating and do not allow excess neat cement to collect in pockets. Apply the neat cement at a rate that ensures the cement does not dry out before covering with the new concrete.

- (3) Place concrete for deck preparation immediately in front of the overlay course and vibrate internally in addition to surface screed vibration. Place concrete in a single operation, with no construction joints in the overlay section except as the plan show or the engineer directs. Do not place concrete if the ambient air temperature is above 88 F.
- (4) The contractor may operate the finishing machine with the transverse screeds normal to the centerline of the structure. Conduct bridge deck finishing operations so that the elapsed time between depositing the concrete on the deck and final screeding does not exceed 10 minutes.
- (5) If the plan requires construction joints, make them sharp-edged, perpendicular to the overlay surface, at the locations the plan show, and true to the alignments the plan show.
- (6) Provide the final surface finish specified in [502.3.7.8](#) for floors of structures having approach pavements with design speeds of 40 mph or greater, except there is no requirement for the turf drag or broom finish.
- (7) Form or saw contraction joints to the width, depth, and at locations the plans show and seal as the plans show. Begin sawing joints within 6 hours after placing the concrete, unless the engineer directs otherwise, and complete within 12 hours.

#### **509.3.9.3 Curing Concrete Overlays**

- (1) Cure concrete overlays as specified for curing concrete in floors, wearing surfaces, and sidewalks in [502.3.8](#), including fogging, and allow to cure for 3 days.

#### **509.3.9.4 Opening to Traffic**

- (1) Do not allow traffic on the completed overlay for a minimum of 3 days after placement. The engineer may extend this time if conditions warrant.

### **509.4 Measurement**

- (1) The department will measure Preparation Approaches and the Preparation Decks bid items by the square yard acceptably completed. The department will not subtract areas of type 2 removal from areas of type 1 removal. The department will subtract areas of full-depth deck repair, the engineer directs before beginning the type 1 or type 2 deck removals, from the areas of the type 1 or type 2 removals. The department will not subtract areas of full-depth deck repair, the engineer directs after type 1 or type 2 deck removals are underway, from the areas of the type 1 or type 2 removals. The department will not measure areas of joint repair under these bid items.
- (2) The department will measure Cleaning Decks, Cleaning Approaches, Joint Repair, and Full-Depth Deck Repair by the square yard acceptably completed.
- (3) The department will measure Curb Repair by the linear foot acceptably completed.
- (4) The department will measure Concrete Surface Repair by the square foot acceptably completed, measured as the exposed surface area, following removal, as delineated by the saw cuts.
- (5) The department will measure the Concrete Masonry Overlay bid items by the cubic yard acceptably completed. The department will include the volume of concrete used in associated approach and deck preparation, joint repair, curb repair, and in full-depth deck repair as part of the Concrete Masonry Overlay bid items. The department will compute yardage based on the nominal cubic yard of concrete from the contractor's mix design. The department will not measure wasted concrete.

### **509.5 Payment**

#### **509.5.1 General**

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

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
509.0200	Preparation Approaches	SY
509.0300 - 0399	Preparation Decks (type)	SY
509.0500	Cleaning Decks	SY
509.0600	Cleaning Approaches	SY
509.1000	Joint Repair	SY
509.1200	Curb Repair	LF
509.1500	Concrete Surface Repair	SF
509.2000	Full-Depth Deck Repair	SY
509.2500	Concrete Masonry Overlay Decks	CY
509.2600	Concrete Masonry Overlay Approaches	CY

- (2) Repairing damage to existing reinforcement is incidental to the contract.

#### **509.5.2 Preparation**

- (1) Payment for Preparation Approaches and the Preparation Decks bid items is full compensation for removing asphaltic patches and unsound concrete; and for disposing of waste materials.
- (2) The department will pay separately for the volume of concrete used under the Concrete Masonry Overlay bid items.

#### **509.5.3 Cleaning**

- (1) Payment for Cleaning Decks and Cleaning Approaches is full compensation for scarifying, and cleaning the deck or approaches; and for blast cleaning the entire deck or approaches, including exposed existing reinforcing steel.

#### **509.5.4 Joint Repair**

- (1) Payment for Joint Repair is full compensation for removing and disposing of deteriorated concrete, and for forming new joints.
- (2) The department will pay separately for the volume of concrete used under the Concrete Masonry Overlay bid items.
- (3) The department will not pay for restoration of painted surfaces damaged by construction operations.

#### **509.5.5 Curb Repair**

- (1) Payment for Curb Repair is full compensation for removing and disposing of deteriorated concrete; for forming; and for disposing of waste material.
- (2) The department will pay separately for the volume of concrete used under the Concrete Masonry Overlay Decks bid item.

#### **509.5.6 Concrete Surface Repair**

- (1) Payment for Concrete Surface Repair is full compensation for providing the repair; for removing and disposing of deteriorated concrete; for cleaning reinforcing steel; and for the volume of concrete used in the surface repair.

#### **509.5.7 Full Depth Deck Repair**

- (1) Payment for Full-Depth Deck Repair is full compensation for completely removing the deteriorated concrete areas; for disposing of waste material; for forming; and for salvaging and using the existing bar steel reinforcement. The department will pay for this bid item at the contract unit price regardless of whether the engineer directs it before or after beginning the type 1 or type 2 removals.
- (2) The department will pay separately for the volume of concrete used under the Concrete Masonry Overlay Decks bid item.

#### **509.5.8 Concrete Overlays**

- (1) Payment for the Concrete Masonry Overlay bid items is full compensation for providing the overlay; for the concrete used including the volume needed to complete the work done under the associated Preparation Approaches, Preparation Decks, Joint Repair, Curb Repair, and Full-Depth Deck Repair bid items; and for sawing and sealing joints.