

# CITY OF DE PERE

## PROJECT

**22-22**

## DOWNTOWN SIDEWALK AND STREET LIGHTING

**BID DATE:  
APRIL 21, 2022  
@ 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 \$15 for each contract. Bidders will be charged an additional fee of \$30 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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**APRIL 1, 2022 – APRIL 8, 2022**

**CITY OF DE PERE**

**ADVERTISEMENT TO BID**

**PROJECT 22-22**

**DOWNTOWN SIDEWALK AND STREET LIGHTING**

Online bids will be received and accepted for Project 22-22 Downtown Sidewalk and Street Lighting via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, April 21, 2022, at which time they will be publicly accepted, displayed and read aloud.

Project 22-22 for which proposals are being sought includes the following approximate quantities:

- 1,070 SY of 8-inch, 6-inch and 4-inch concrete and stamped, colored concrete sidewalk, driveway, and ramp replacement
- 30 LF of 24-inch curb and gutter replacement
- 4,250 LF of electrical wiring
- 650 LF of electrical conduit
- 6 EA of light pole base and light fixture installation
- 150 SY of landscape restoration
- Tree and stump removal
- Traffic control
- Erosion control

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 \$15 by inputting Quest project #8170671 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 \$30 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 liquidated damages.

**Project 22-22  
Downtown Sidewalk and Street Lighting**

**City of De Pere**

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, Monday, April 18, 2022. Prospective bidders who have previously submitted such forms subsequent to January 1, 2022 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 1<sup>st</sup> day of April 2022.

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

Project 22-22

**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/906930205>

You can also dial in using your phone.  
(For supported devices, tap a one-touch number below to join instantly.)

United States (Toll Free): 1 877 309 2073  
- One-touch: [tel:+18773092073,,906930205#](tel:+18773092073,906930205#)

Access Code: 906-930-205

**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 22-22**

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 April 21, 2022 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 22-22  
Downtown Sidewalk and Street Lighting**

**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. Proposed Products Form (Section 00 43 33)
- D. 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)

**Project 22-22  
Downtown Sidewalk and Street Lighting**

**City of De Pere**

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 22-22

BID SCHEDULE – UNIT PRICE

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STREET AND DRAINAGE</b>					
SD-01	Unclassified Excavation	CY	37	\$	\$
SD-02	Provide 1-¼-Inch Crushed Aggregate Base Course	TON	50	\$	\$
SD-03	Remove and Replace 24-Inch Integral Concrete Curb and Gutter	LF	30	\$	\$
SD-04	Profile Cut Concrete Curb Head	LF	30	\$	\$
SD-05	Remove Colored Concrete Terrace, Driveway, and Ramp (S. Broadway & Wisconsin Streets)	SY	225	\$	\$
SD-06	Remove Concrete Sidewalk (If Needed along S. Broadway & Wisconsin Streets)	SY	390	\$	\$
SD-07	Remove Concrete Sidewalk (Charles Street)	SY	75	\$	\$
SD-08	Provide 8-Inch Concrete Sidewalk and Driveway	SY	45	\$	\$
SD-09	Provide 6-Inch Concrete Sidewalk and Ramp	SY	40	\$	\$
SD-10	Provide 4-Inch Concrete Sidewalk	SY	610	\$	\$
SD-11	Provide 4-Inch Stamped Colored Concrete Sidewalk (DOT Red)	SY	360	\$	\$
SD-12	Drilled Tie Bars	EA	20	\$	\$

**Project 22-22  
Downtown Sidewalk and Street Lighting**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STREET AND DRAINAGE (Continued)</b>					
SD-13	Provide #4 Reinforcement Bars for Sidewalk	LF	1,400	\$	\$
SD-14	Provide Detectable Warning Field (Natural Patina)	EA	3	\$	\$
SD-15	Landscaping – Topsoil, Seed, Fertilizer and Mulch (S. Michigan Street)	SY	160	\$	\$
<b>SPECIAL CONSTRUCTION</b>					
SC-01	Inlet Protection Type D	EA	7	\$	\$
SC-02	Concrete Wash Out	LS	1	\$	\$
SC-03	Remove, Salvage, and Install Traffic Signs	EA	6	\$	\$
SC-04	Provide Temporary Traffic Signs	EA	4	\$	\$
SC-05	Remove and Salvage Existing Tree Grates	EA	3	\$	\$
SC-06	Traffic Control Phase I S. Broadway Street Closure	LS	1	\$	\$
SC-07	Traffic Control Phase II S. Wisconsin Street Lane Closure	LS	1	\$	\$
SC-08	Traffic Control Pedestrian Detour Plan	LS	1	\$	\$
<b>ELECTRIC CONSTRUCTION</b>					
E-01	Conduit Rigid Nonmetallic Schedule 40, 2-Inch	LF	650	\$	\$
E-02	Pull Box 24x48-Inch	EA	1	\$	\$
E-03	Concrete Base, Type 5	EA	6	\$	\$
E-04	Electrical Wire Lighting 12 AWG	LF	150	\$	\$

**Project 22-22  
Downtown Sidewalk and Street Lighting**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>ELECTRIC CONSTRUCTION (Continued)</b>					
E-05	Electrical Wire Lighting 4 AWG	LF	4,100	\$	\$
E-06	Type AE18, 25-Foot Light Fixture Installation (Fixture Provided by Others)	EA	2	\$	\$
E-07	Type AE19, 15-Foot Light Fixture Installation (Fixture Provided by Others)	EA	4	\$	\$
E-08	Remove Existing Light Pole Base	EA	6	\$	\$
<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 22-22 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)

**SECTION 00 43 33**

**PROPOSED PRODUCTS FORM**

The following is a list of material, type or model numbers and manufacturers used in the preparation of this proposal and to be used on this project:

ITEM	MATERIAL	SUPPLIER
Concrete	_____	_____
Concrete Sealant	_____	_____
Tie Bars	N/A	_____

**SECTION 00 43 36**

**TABULATION OF SUBCONTRACTORS**

The following information is submitted which gives the name, business address, and portion of work for each subcontractor that will be used in the work if the bidder is awarded the contract, and no subcontractor doing work in excess of one-half of one percent of the total amount of the bid and who is not listed will be used without the written approval of the Engineer. Additional numbered pages outlining this portion of the proposal may be attached to this page.

PORTION OF WORK	BUSINESS NAME	BUSINESS ADDRESS
Traffic Control		
Concrete Driveway, Sidewalk, Curb and Gutter		
Electrical		
Signage		

SECTION 00 51 00

NOTICE OF AWARD

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

Project Description: 22-22 Downtown Sidewalk and Street Lighting

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 April 1, 2022 and April 8, 2022.

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 \_\_\_\_\_ 2022.

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 22-22 Downtown Sidewalk and Street Lighting, 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 April 1, 2022 and April 8, 2022.
- (b) Drawings designated for Project 22-22 Downtown Sidewalk and Street Lighting dated April 1, 2022.
- (c) City of De Pere 2022 Construction Specifications.
- (d) Special Provisions dated April 1, 2022.
- (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: 22-22 Downtown Sidewalk and Street Lighting

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 22-22, 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 22-22  
Downtown Sidewalk and Street Lighting**

**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)
_____	_____
(WITNESS)	(SURETY)

**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 22-22, 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		
Number	Additions	Deductions
Total	\$0.00	\$0.00
NET CHANGE BY CHANGE ORDERS:		\$0.00

1. ORIGINAL CONTRACT PRICE:.....	_____
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
6. AMOUNT ELIGIBLE TO DATE (Line 4 minus 5):.....	_____ \$0.00
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: \_\_\_\_\_ (Contractor) \_\_\_\_\_ (Date)

Payment of: \$ \_\_\_\_\_  
(Line 8 or other - attach explanation of other amount)

is recommended by: \_\_\_\_\_ (Owner) \_\_\_\_\_ (Date)

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:

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\_\_\_\_\_  
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:

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Contractor's Amended Responsibilities:

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**Project 22-22  
Downtown Sidewalk and Street Lighting**

**City of De Pere**

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. Work by Others
  - 7. Project Utility Sources
  - 8. Miscellaneous 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. 221 S. Broadway Street
2. Work will be performed under the following prime contract:
  - a. Project 22-22 Downtown Sidewalk and Street Lighting

#### B. The Work includes:

1. Concrete and colored concrete sidewalk, driveway, ramp, curb and gutter removal and replacement.
2. Landscape restoration.
3. Erosion control.
4. Traffic control.
5. Lighting fixture and electrical appurtenance installation.

### 1.4 WORK SEQUENCE/SCHEDULE

- A. Project shall be completed by November 30, 2022.
- B. Conduct construction activities to maintain access to businesses and residences throughout construction.
- C. The City of De Pere Parks Department will complete the following removals:
  1. Banners and planter hangers from light poles by May 1, 2022.
  2. Two tree removals by June 1, 2022.
- D. Work within the travel lanes on S. Broadway Street and S. Wisconsin Street shall not start prior to Wednesday, June 8, 2022 to accommodate summer dismissal for the area school districts. Any work that can be staged within the terrace or sidewalk area will be permitted prior to this date. Lane closures on S. Broadway Street shall be limited to between the hours of 9:00 AM and 3:30 PM pursuant to City of De Pere Municipal Code section 22-11(c).

- E. Street signs will need to be removed and placed on temporary, portable poles where designated in the plans by June 17, 2022.
- F. The existing light poles will be removed by Wisconsin Public Service (WPS) by June 30, 2022 to accommodate jersey barrier relocation for the Mulva Development knee wall installation outlined below. The Project Engineer will provide WPS one-week notice to remove the streetlights as outlined in Work by Others.
- G. No work is to occur on the following holidays:
  - 1. Monday, July 4 for Independence Day.
  - 2. Monday, September 5 for Labor Day.
  - 3. Thursday & Friday, November 24 & 25 for Thanksgiving.
- H. From July 9 through July 30 the Mulva Development will shift their jersey barriers to the back of curb to facilitate the installation of a decorative knee wall along the right-of-way line on S. Broadway Street and S. Wisconsin Street (at the back of sidewalk). To complete this knee wall installation, they plan to remove the existing concrete sidewalk along S. Broadway Street and S. Wisconsin Street.
- I. All work along S. Broadway Street and S. Wisconsin Streets shall be completed by August 31, 2022 to accommodate school traffic starting September 1.
- J. Project Engineer will provide the Green Bay Metropolitan Sewerage District (GBMSD) with two-weeks advance notice to adjust the sanitary sewer manhole adjacent to the vacated Charles Street. Manhole will then be adjusted by GBMSD staff.
- K. Work on the new sidewalk and decorative terrace is to start within one-week of the knee wall completion and barricade removal by the Mulva Development.
- L. The list of critical project dates and deadlines are listed on the next page:

<b>Date</b>	<b>Description</b>
May 1, 2022	Banners and planter hangers removed from light poles by City Staff.
May 9, 2022	Board of Public Works
May 17, 2022	Common Council Award
June 1, 2022	Two trees will be removed by City Staff along S. Broadway Street and S. Broadway Street.
June 8, 2022	School Dismissal - Work within the travel lane on S. Broadway and S. Wisconsin Street is permitted. S. Broadway Street is restricted to between 9:00 AM and 3:30 PM.
June 17, 2022	Remove existing street signs and place designated signs on portable, temporary poles.
June 30, 2022	Light pole removal by Wisconsin Public Service.
July 4, 2022	No Work - Independence Day
July 9-30, 2022	Knee wall construction within project limits by the Mulva Development Contractor. Jersey barriers will be moved to the back of curb. Existing sidewalk to be removed by developer.
August 31, 2022	Construction completion deadline for work along S. Broadway Street and S. Wisconsin Street.
September 5, 2022	No Work - Labor Day
November 24-25, 2022	No Work - Thanksgiving
November 30, 2022	Construction completion deadline

**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 WORK BY OTHERS**

- A. Owner has awarded separate contracts for performance of certain construction operations which will be conducted at the Project Site simultaneously with work under this Contract. These Contracts include the following:
  - 1. Project 22-02 Lewis Street Reconstruction and Utility Relay. Lewis Street is to be reconstructed from S. Broadway Street to S. Ontario Street. Utility work to service the Redevelopment Project at 221 S. Broadway Street may need to be completed concurrently to this sidewalk and lighting installation work.
  - 2. The alley from Charles Street to George Street between S. Wisconsin Street and S. Michigan Street will be reconstructed. Work on this alley may be concurrent to this project.
- B. The Mulva Cultural Center will have ongoing construction at 221 S. Broadway Street throughout the duration of construction. Site access for the Mulva Site is off Charles Street, S. Michigan Street and Lewis Street. The S. Michigan Street site access can be disrupted to accommodate the 8-inch concrete sidewalk installation through the driveway. Dates will need to be provided to the developer for the driveway closure.
- C. The existing light poles will be removed by Wisconsin Public Service (WPS). WPS requires one-week advance notice prior to the street light removal in conjunction with this project. The Project Engineer will provide notice to WPS.
- D. The City of De Pere Parks Department will remove the two trees, banners and planter hangers located within the project limits.

- E. Brown County Public Works will remove the existing county highway route signage located behind the sidewalk in advance of the knee wall construction.
- F. Green Bay Metropolitan Sewerage District staff will adjust the sanitary sewer manhole near the vacated Charles Street.
- G. Cooperate fully with separate contractors and/or Owner so work by others may be carried out smoothly, without interfering with or delaying work under this Contract.

**1.8 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, ([vk352k@att.com](mailto:vk352k@att.com)) (920-202-4002)
- 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)

**1.9 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.
- B. The entirety of the site abuts truck routes. Empty concrete trucks are permitted to travel south on S. Michigan Street to Lewis Street to wash out trucks at the designated concrete wash location.

C. Sidewalk removals:

1. The Mulva Development plans to remove the existing sidewalk along S. Broadway Street and S. Wisconsin Street to accommodate the knee wall installation along the back of walk. If the development removes the existing sidewalk bid item SD-06 will no longer be used.
2. The sidewalk along S. Michigan Street has already been removed by the Mulva Development.
3. Sidewalk removal is required under this contract along Charles Street.
4. Driveway, ramp, and terrace removals are required along S. Broadway Street and S. Wisconsin Street as part of this contract.

- D. Sidewalk installed along the knee wall shall have full-depth, foam expansion joint and two #4 epoxy coated reinforcement bars installed the entire length of the knee wall.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 22 04

MEASUREMENT AND PAYMENT STREET AND DRAINAGE CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- | A. Section includes:                                    | <u>Bid Item No.</u>         |
|---|-----------------------------|
| 1. Unclassified Excavation                              | SD-01                       |
| 2. Crushed Aggregate Base Course                        | SD-02                       |
| 3. Portland Cement Concrete Curb and Gutter             | SD-03                       |
| 4. Profile Cut Concrete Curb Head                       | SD-04                       |
| 5. Remove Concrete Sidewalk, Driveway and Ramp          | SD-05, SD-06 & SD-07        |
| 6. Portland Cement Concrete Sidewalk, Driveway and Ramp | SD-08, SD-09, SD-10 & SD-11 |
| 7. Drilled Tie Bars                                     | SD-12                       |
| 8. Deformed Reinforcement Bars                          | SD-13                       |
| 9. Detectable Warning Field                             | SD-14                       |
| 10. Landscaping – Topsoil, Seed, Fertilizer, and Mulch  | SD-15                       |
- 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 street and drainage systems.
- 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. Sawcutting asphalt and/or concrete.
  3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  4. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site.

5. Site access requirements including temporary aggregate material as required for local traffic access.
6. Dust control.
7. Remove and replace existing mailboxes and traffic signs.
8. Restroom facilities.
9. Construction staking and other survey work not provided by the Engineer.
10. Regulatory requirements.
11. Quality assurance and quality control testing and inspections.
12. Final casting and valve box adjustment.
13. Shop drawings and other submittals.

### 1.3 UNCLASSIFIED EXCAVATION

- A. The unit price for Unclassified Excavation work includes:
1. General Work Items of Article 1.2.
  2. Removal of topsoil to depth available.
  3. Hauling and stockpiling topsoil.
  4. Excavation to subgrades shown on the Drawings.
  5. Hauling of unclassified material.
  6. Placing unclassified material in fill areas to subgrades shown on the Drawings and the subgrade required for placement of topsoil.
  7. Compaction of subgrade and fill areas.
  8. Test rolling subgrade.
  9. Excavation of undercut areas for placing topsoil.
  10. Respreading topsoil to final grades shown on the Drawings.
  11. Disposal of surplus topsoil, unclassified material and unsuitable material.
  12. Preparation of disposal site and transportation of material over an Engineer approved haul route from the site including all loading and dumping of material.
  13. Finish grading.
- B. Measurement of payment will not be made unless there is a change in project scope. The estimated quantity represents the computed volume by comparing the triangulated surfaces and will be the basis for payment.
- C. The unit of measurement for payment is cubic yards.

### 1.4 CRUSHED AGGREGATE BASE COURSE

- A. The unit price for Crushed Aggregate Base Course work includes:
1. General Work Items of Article 1.2.
  2. Aggregate material.
  3. Preparation of foundation.
  4. Placing and compacting to thickness and width shown on the Drawings or specified elsewhere.

5. Maintenance until surface pavement is constructed.
6. Preparation of crushed aggregate base for paving.
7. Adjustment of manholes and valve boxes to proposed finish road grade.

B. Measurement of payment will be the actual amount of material required and incorporated in the work verified by submitting to the Engineer delivery tickets provided with each load showing the weight measured on a certified scale, type of material, the date delivered and the project name. Aggregates in excess of seven percent (7%) total moisture determined based on the dry mass of the aggregates will have moisture content in excess of seven percent (7%) deducted from the measured weight.

C. The unit of measurement for payment is tons.

#### 1.5 PORTLAND CEMENT CONCRETE CURB AND GUTTER

A. The unit price for Portland Cement Concrete Curb and Gutter work includes:

1. General Work Items of Article 1.2.
2. Providing Portland cement concrete mixture of size shown in the drawings or specified elsewhere.
3. Providing expansion joints.
4. Providing curing.
5. Saw cutting existing integral curb and gutter.
6. Existing curb and gutter removal.
7. Subgrade preparation.
8. Provide crushed aggregate base.
9. Fine grading of subgrade.
10. Providing contraction joints.
11. Driveway entrances and handicap ramp entrances.
12. Adjustment of catch basin/inlets.
13. Finishing.
14. Protection.
15. Restoration behind the curb.

B. Measurement for payment will be along the flow line of the gutter and through inlets/catch basins.

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

#### 1.6 PROFILE CUT CONCRETE CURB HEAD

A. The unit price for Profile Cut Concrete Curb Head work includes:

1. General Work Items of Article 1.2.
2. Excavate behind concrete curb and gutter.
3. Profile cut curb head to create a mountable/curb ramp curb.

4. Remove and dispose of curb head.
5. Patch holes in concrete used for mounting saw rail.

B. Measurement for payment will be along the flow line of the gutter.

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

**1.7 REMOVE CONCRETE SIDEWALK, DRIVEWAY AND RAMP**

A. The unit price for Remove Concrete Sidewalk, Driveway and Ramp work includes:

1. General Work Items of Article 1.2.
2. Excavating, backfilling and compaction.
3. Saw cutting adjacent surfaces.
4. Removing the surface as bid.

B. Measurement of payment will be the length and the width of the removal.

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

**1.8 PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY AND RAMP**

A. The unit price for Portland Cement Concrete Sidewalk, Driveway and Ramp work includes:

1. General Work Items of Article 1.2.
2. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
3. Providing reinforcement.
4. Providing expansion joint (foam expansion joint along the knee wall).
5. Providing curing.
6. Subgrade preparation.
7. Providing contraction joints.
8. Handicap ramps.
9. Finishing.
10. Protection.
11. Restoration.

B. Measurement for payment will be the average horizontal length and width of the concrete placed.

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

**1.9 DRILLED TIE BARS**

A. The unit price for Drilled Tie Bars work includes:

1. General Work Items of Article 1.2.

2. Providing and installing tie bars, including coating.
3. For drilling holes in concrete not placed under the contract.
4. For epoxying or driving.

B. Measurement for payment will be the actual number of bars installed.

C. The unit of measurement for payment is each.

#### 1.9 DEFORMED REINFORCEMENT BARS

A. The unit price for Deformed Reinforcement Bar work includes:

1. General Work Items of Article 1.2.
2. Supply and install two - #4 deformed reinforcement bars over the entirety of the sidewalk abutting the newly constructed knee wall as part of the Mulva Development.

B. Measurement for payment will be the horizontal length of each bar installed.

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

#### 1.11 DETECTABLE WARNING FIELD

A. The unit price for Detectable Warning Field work includes:

1. General Work Items of Article 1.2.
2. Providing and installing Detectable Warning Field per ADA requirements.
3. Each detectable warning field shall be two (2) feet by four (4) feet.

B. Measurement for payment will be the actual number of detectable warning field installed.

C. The unit of measurement for payment is each.

#### 1.12 LANDSCAPING - TOPSOIL, SEED, FERTILIZE AND MULCH

A. The unit price for Landscaping- Topsoil, Seed, Fertilize, and Mulch work includes:

1. General Work Items of Article 1.2.
2. Provide 4" topsoil or salvaged topsoil, seed, fertilizer, and mulch.
3. Provide maintenance.

B. Measurement for payment will be the width and length of the terrace restored along the newly replaced sidewalk.

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

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. Inlet Protection Erosion Control | SC-01                |
| 2. Concrete Wash Out                | SC-02                |
| 3. Salvage and Reinstall Signs      | SC-03                |
| 4. Temporary Signing                | SC-04                |
| 5. Salvage Tree Grates              | SC-05                |
| 6. Traffic Control                  | SC-06, SC-07 & 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 INLET PROTECTION EROSION CONTROL**

- A. The unit price for Inlet Protection Erosion Control work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Provide geotextile and wood materials for type shown on the Drawings.
  - 3. Placing inlet protection system.
  - 4. Inspection and maintenance of the installed inlet protection.
  - 5. Removal of the inlet protection.
  - 6. Cleaning debris buildup around inlet.
- B. Measurement for payment will be actual number of inlet protection erosion control installed.
- C. The unit of measurement for payment is each.

**1.4 CONCRETE WASH OUT**

- A. The unit price for Concrete Wash Out work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing temporary, plastic lined containment facilities.
  - 3. Cleaning or replacement of washout facilities once the washout container is 75% full.
  - 4. Hauling and disposal of washout liquids, if not evaporated, and hardened solids for recycling or disposal.
  - 5. Restoration of terrace under temporary washout area.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

**1.5 SALVAGE AND REINSTALL SIGNS**

- A. The unit price for Salvage and Reinstall Signs work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Removing and storing signs as identified in the bid.
  - 3. Installation, including assembling, attaching to concrete (where applicable) and clean up.
  - 4. 8-inch diameter coring of newly poured concrete or placement of full-depth 8-inch diameter PVC pipe prior to concrete placement for installation of new signs posts.
  - 5. Touch-up painting any minor scratches.
- B. Measurement of payment will be the actual number installed.
- C. The unit of measurement for payment is each.

**1.6 TEMPORARY SIGNING**

- A. The unit price for Temporary Signing work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Installation of salvaged signs on portable, temporary signposts including assembling and clean-up.
  - 3. Relocation of signposts to facilitate the multiple phases of concrete paving.
  - 4. Removal and dismantling of temporary signage for installation of permanent signage.
- B. Measurement of payment will be the actual number installed.
- C. The unit of measurement for payment is each.

**1.7 SALVAGE TREE GRATES**

- A. The unit price for Temporary Signing work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Remove tree grates as shown on plans.
  - 3. Provide and place salvaged backfill or other approved material in all trenches or holes resulting from the removal.
  - 4. Deliver salvaged tree grates to the Municipal Service Center at 925 S. Sixth Street.
- B. Measurement of payment will be the actual number installed.
- C. The unit of measurement for payment is each.

**1.8 TRAFFIC CONTROL**

- A. The unit price for Traffic Control 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 not be made.
  - 1. This item applies to the specific bid items lists. All other traffic control is incidental to other items bid.
- C. The unit of measurement for payment is for each intersection lump sum.

END OF SECTION

SECTION 01 22 10

MEASUREMENT AND PAYMENT ELECTRIC CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- |                                    |                     |
|------------------------------------|---------------------|
| A. Section includes:               | <u>Bid Item No.</u> |
| 1. Conduit                         | E-01                |
| 2. Pull Box                        | E-02                |
| 3. Concrete Bases                  | E-03                |
| 4. Electrical Wire                 | E-04 & E-05         |
| 5. Light Fixture Installation      | E-06 & E-07         |
| 6. Remove Existing Light Pole Base | E-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 electric and lighting systems.
- 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. Sawcutting asphalt and/or concrete.
  3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  4. Excavation/plowing
  5. Backfilling and compacting native obtained from the excavation.
  6. Supplying, hauling, backfilling and compacting granular material.
  7. Loading, hauling and disposing of surplus excavated material.
  8. Landscaping – turf establishment surface restoration and trees and bushes damaged during construction.

9. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
10. Restroom facilities.
11. Easement and right-of-way requirements.
12. Construction staking and other survey work not provided by the Engineer.
13. Regulatory requirements.
14. Preconstruction videotaping and video equipment.
15. Quality assurance and quality control testing and inspections.
16. Shop drawings and other submittals.

### 1.3 CONDUIT

- A. The unit price for Electrical Wire includes:
  1. General Work Items of Article 1.2.
  2. Providing and installing conduit for electrical wire.
  3. For providing all connectors.
- B. Measurement for payment will be by the length of conduit installed and through pull boxes and bases.
- C. The unit of measurement for payment is linear feet.

### 1.4 PULL BOX

- A. The unit price for Pull Box includes:
  1. General Work Items of Article 1.2.
  2. Providing and installing all materials including drain piping components and aggregate.
  3. For providing and installing manhole frames and covers.
  4. For all pull box extensions and conduit extensions less than 10 feet long including fittings.
  5. For excavating, backfilling, and disposing of surplus materials, and for restoring the site.
- B. Measurement for payment will be as each individual box.
- C. The unit of measurement for payment is by each.

### 1.5 CONCRETE BASES

- A. The unit price for Concrete Bases includes:
  1. General Work Items of Article 1.2.
  2. Providing, installing, and protecting the concrete base.
  3. For embedded conduit and electrical components.
  4. For furnishing and installing anchor rods, nuts, washers, ground electrodes, connections, conduit and fittings.
  5. For bar steel reinforcement, if required.
  6. For excavating, backfilling, and disposing of surplus materials, and restoring the site.

- B. Measurement for payment will be as each individual base.
- C. The unit of measurement for payment is by each.

**1.6 ELECTRICAL WIRE LIGHTING**

- A. The unit price for Electrical Wire Lighting includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing the electrical wire and for making all connections.
  - 3. For providing all connectors, including wire nuts, fuses, fuse holders, splices, tape, insulating varnish or sealant, and for testing circuits.
  - 4. Verify all voltages drops does not exceed 3% and make sure connections meet local, state, and federal codes.
  - 5. Underground wiring shall be sized per load and code requirements.
- B. Measurement for payment will be by the linear foot, measured separately for each conductor.
- C. The unit of measurement for payment is linear feet.

**1.7 LIGHT FIXTURE INSTALLATION**

- A. The unit price for Light Fixture Installation work includes:
  - 1. General Work Items of Article 1.2.
  - 2. For hardware and fittings necessary to install the light fixtures and poles supplied by others.
  - 3. For leveling shims, dampeners, and for corrosion protection.
  - 4. Installing all materials for light fixtures supplied by others, including luminaire with accessories, hardware and fittings necessary to install the luminaire in a workable first class condition.
- B. Measurement of payment will be as each individual light fixture installed.
- C. The unit of measurement for payment is each.

**1.8 REMOVE CONCRETE BASES**

- A. The unit price for Remove Street Lights and Concrete Bases includes:
  - 1. General Work Items of Article 1.2.
  - 2. Remove concrete bases as shown on plans.
  - 3. Provide and place salvaged backfill or other approved material in all trenches or holes resulting from the removal.
  - 4. Hauling and disposal of all concrete, stone, conduit, and other material not designated for salvage in accordance with all regulations governing solid waste disposal.
  - 5. Disconnect wires at adjacent light/pull box.

- B. Measurement for payment will be based on the number of concrete bases and street lights removed.
- 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 3rd 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 four (4) hard copies or electronic copies 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 four (4) copies of each required submittal. The Engineer will retain two (2) copies, and return the others 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.
  - 4. Permits for Project.

**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.

**Project 22-22**  
**Downtown Sidewalk and Street Lighting**

**City of De Pere**

1.5 PERMITS FOR PROJECT

- A. The City will obtain a Brown County Lane Closure Permit for the traffic control needed along S. Wisconsin Street. Contractor shall provide anticipated closure dates for inclusion with this permit.

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. 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.
- C. 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.

**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.

END OF SECTION

**SECTION 03 35 33**

**STAMPED COLORED CONCRETE FINISHING**

**1.1 SUMMARY**

**A. Section Includes:**

1. Constructing stamped colored concrete.

**1.2 REFERENCES**

- A. WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

**1.3 SUBMITTALS**

**A. Design Mixes**

1. Submit copies of the composition and strength testing results for design mix for each type of concrete.

**B. Certificates**

1. Manufacturer's certification of the curing compound.
2. Manufacturer's certification of evaporation retarders.
3. Manufacturer's certification of sealer with sure grip.

**C. Samples**

1. Provide all material samples needed for the required testing.

**1.4 QUALITY ASSURANCE**

- A. Independent testing will be completed by the Owner.

**PART 2 – PRODUCTS**

**2.1 MATERIALS**

- A. Concrete shall be in accordance with the Standard Specifications.
- B. The stamping pattern shall be Belgian Basket Weave used brick.
- C. The coloring admixture shall be WisDOT Red, conforming to Section 405 of the WisDOT Standard Specification for Highway and Structure Construction.
- D. The maximum amount of chert allowed shall be less than one percent (1.0%) by weight.

- E. The City of De Pere will provide three sets of six basic concrete stamping and patterning tools. The contractor shall provide other tools necessary to complete the work.
- F. Evaporation retarders: Waterborne monomolecular film forming manufactured for application to fresh concrete, Dayton Superior Day-Chem Sure Film J-74 or equal.
- G. Form Release Agent.
- H. AK-2 ACHRO KURE 1315 sealer with sharp grip added.
- I. Curing and sealing materials shall be compatible with colored concrete as recommended by the manufacturer.

### **PART 3 – EXECUTION**

#### **3.1 PLACING AND FINISHING CONCRETE**

- A. Construct stamped colored concrete pavement in accordance with the standard specifications and as hereinafter provided. The coloring of the concrete shall be full depth color, not surface application
- B. The City of De Pere will provide the decorative stamping and patterning tools for stamping the concrete. The City has 21 rigid stamps and 3 flexible stamps. The stamps owned by the City are Belgian Basket Weave used brick. If the Contractor needs to purchase more stamps to perform the work, the additional stamps purchased shall be considered incidental to the stamped colored concrete. Return the concrete stamping and patterning tools to the City once work is complete. Return concrete stamping and patterning tools in good condition. If the concrete stamping and patterning tools are not returned to the City in good condition the contractor shall replace the stamping and patterning tools.
- C. Provide all other standard finishing tools for stamping the colored concrete.
- D. Colored concrete shall be produced in one (1) cubic yard increments. No ½ cubic yard loads will be accepted.
- E. Water/cement in mix design shall be consistent to maintain consistent color.
- F. Colored concrete mixes for the entire project shall be consistent. If the mix is started with High Early Strength then all colored concrete shall be provided as High Early Strength. Switching from regular colored concrete to High Early Strength colored concrete or High Early Strength colored concrete to regular colored concrete will not be allowed.
- G. Once pouring of the colored concrete on the project has begun, cement switching in the colored concrete will not be allowed because it will affect the color consistency of the colored concrete.

- H. Any additional water added to colored concrete once the truck is on site will be rejected.
- I. Blessing of the colored concrete pavement with water once concrete is in place will not be allowed. If water is added to the surface of the colored concrete surface once concrete is in place, the colored concrete will be rejected and will need to be removed.
- J. Evaporation reducers will be used throughout the construction of the colored concrete.
- K. Cover and protect adjacent construction and concrete from discoloration and spillage during placement of colored concrete, application of release agents, and sealers.
- L. Liquid release agent shall be uniformly applied onto the colored still plastic state concrete to provide clean release of imprinting tools from the concrete surface without lifting imprint or tearing concrete.
- M. While initially finished concrete is in plastic state, accurately align and place imprinting stamps. Monitor the setting up of the concrete. Once the concrete has set to the point it can be stamped the contractor shall begin stamping. Uniformly pound or press imprint tool into concrete to produce required pattern and depth of imprint on concrete surface. Remove platform tools immediately. Hand texture and stamp edges and surfaces unable to be imprinted by stamp mats. Touch up imperfections such as broken corners, double imprints and surface cracks.
- N. Stamp concrete consistently so that stamped concrete does not have a vertical elevation difference of ½ inch or depressions in concrete capable of causing ponding water or ice.
- O. For concrete hand stamp edges and surfaces that are unable to be imprinted by platform tools, use texture mats and single blade hand stamps to match platform tool stamping pattern. Finished imprinting shall match pre-construction mock-up.
- P. After concrete has been stamped and the sheen has left the surface of the colored concrete, the colored concrete shall be sealed with AK-2 ACHRO KURE 1315 with sharp grip added. Apply per manufacturer's recommendations. Two coats of seal shall be applied. Apply second coat after first coat has dried. Do not seal over blemishes or imperfections caused by rainfall or protection materials.
- Q. In general colored concrete must be protected from premature drying and excessive cold or hot temperatures. Apply evaporation retarders to concrete surfaces only if hot, dry, or windy conditions causing a moisture loss approaching 0.20lb./sq.ft. x h before and during initial finishing operations. Apply according to manufacturer's written instructions after placing and screeding and during initial floating operations.
- R. Protect the colored concrete from damage.

- S. Adjacent concrete that is discolored shall be removed and replaced to the approval of the engineer.

END OF SECTION

**SECTION 26 56 19**

**LED STREET LIGHTING**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Conduit
  - 2. Pull Box 24x42-Inch
  - 3. Concrete Bases
  - 4. Electrical Wire Lighting

**1.2 REFERENCES**

- A. State of Wisconsin, Department of Transportation, Standard Specification for Highway and Structure Construction, current edition, and all supplemental and interim supplemental specifications, as they may pertain, except the items: method of measurement and basis of payment shall not apply.
- B. American Association of State Highway and Transportation Officials (AASHTO).

**1.3 SUBMITTALS**

- A. Submit manufacturer's certification for each product stated that products delivered comply with the requirements of this section and the referenced standard.
- B. Driver specification sheet.
- C. Surge protection specification sheet.

**PART 2 – PRODUCTS**

**2.1 CONDUIT**

- A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 652 for electrical conduit. The minimum conduit size is 2-inch.

**2.2 PULL BOX 24x42-INCH**

- A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 653 for Pull Boxes.

**2.3 CONCRETE BASES**

- A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 654 for Concrete Bases.

**2.4 ELECTRICAL WIRE LIGHTING**

- A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 655 for Electrical Wire Lighting.

**PART 3 – EXECUTION**

**3.1 CONSTRUCTION METHODS LUMINAIRES**

**A. Luminaires**

1. Furnish and install luminaires and all necessary miscellaneous accessories and hardware to complete the installation of the luminaires.
2. Follow manufacturer's instructions regarding luminaire installation.
3. Three single-conductor No. 12 stranded wire shall be used to connect the luminaires to their respective brand conductors in the pole base. Each luminaire feeder wire shall be protected by one 5-amp fuse. Fuses and fuse holders shall be as per the details in the Plan.
4. All exposed threaded equipment mounting hardware shall be stainless steel. All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube) by the Contractor.

END OF SECTION

# PROJECT #22-22 DOWNTOWN SIDEWALK AND STREET LIGHTING

CITY OF DE PERE



ENGINEER DIVISION  
925 S. SIXTH ST  
DE PERE, WI 54115



SITE LOCATION MAP  
N.T.S.

SHEET NO.	DESCRIPTION
G001	TITLE SHEET
G002	STANDARD ABBREVIATION & SYMBOLS
C101 - C104	PLAN SHEETS
C401 - C403	TRAFFIC CONTROL PLANS
C404	EROSION CONTROL AND BENCHMARK PLAN
C501 - C502	CONSTRUCTION DETAILS
E101	STREET LIGHTING AND ELECTRICAL PLAN
E501 - E502	ELECTRICAL CONSTRUCTION DETAILS

**CITY OF DE PERE  
BOARD OF PUBLIC WORKS**

4/8/2022  
DATE

*E.P. Rakers*  
CITY ENGINEER

4/8/22  
DATE

*James M. DeLo*  
CITY ADMINISTRATOR

4/8/22  
DATE

*J.J. Boyd*  
MAYOR

STAMPS:



4/8/2022

## LIST OF STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	N	NORTH
AGGR	AGGREGATE	NB	NORTHBOUND
AH	AHEAD	NC	NORMAL CROWN
ASPH	ASPHALT	NE	NORTHEAST
B/B	BACK TO BACK	NO	NUMBER
BARR	BARRICADE	NTS	NOT TO SCALE
BC	BACK OF CURB	NW	NORTHWEST
BK	BACK	O	OIL
BL	BASELINE	O&C	OIL AND CHIP
BLVD	BOULEVARD	OBLIT	OBLITERATE
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BM	BENCHMARK	PC	POINT OF CURVATURE
BOW	BACK OF SIDEWALK	PCC	POINT OF COMPOUND CURVE
BSMT	BASEMENT	PCC	PORTLAND CEMENT CONCRETE
C	CUT	PE	PEDESTAL
C&G	CURB AND GUTTER	PLE	PERMANENT LIMITED EASEMENT
C/C	CENTER TO CENTER	PVMT	PAVEMENT
CABC	CRUSHED AGGREGATE BASE COURSE	PE	PRIVATE ENTRANCE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CE	CONSTRUCTION ENTRANCE	PJF	PRE-FORMED JOINT FILLER
CI	CAST IRON PIPE	PL	PROPERTY LINE
CL	CENTERLINE	POC	POINT OF CURVE
CMP	CORRUGATED METAL PIPE	POT	POINT ON TANGENT
CNTY	COUNTY	PP	POLYETHYLENE
CO	CLEANOUT	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROJ	PROJECT
CONSTR	CONSTRUCTION	PROP	PROPOSED
CONSTR JT	CONSTRUCTION JOINT	PSI	POUND PER SQUARE INCH
CORP	CORPORATION	PT	POINT OF TANGENCY
CP	CONTROL POINT	PVC	POLYVINYL CHLORIDE
CTH	COUNTY TRUNK HIGHWAY	R	RANGE OR RADIUS
CTRL JT	CONTROL JOINT	RCP	REINFORCED CONCRETE PIPE
CTV	CABLE TV	REBAR	REINFORCEMENT BAR
CY	CUBIC YARD	REL	RELOCATE
D	DEPTH	REM	REMAINING
DIA	DIAMETER	REQD	REQUIRED
DI	DUCTILE IRON PIPE	RL	REFERENCE LINE
DISCH	DISCHARGE	ROW	RIGHT OF WAY
DW	DRIVEWAY	RP	REFERENCE POINT
E	EAST (SEE ELEC BELOW)	RR	RAILROAD
EA	EACH	RT	RIGHT
EB	EASTBOUND	RW	RETAINING WALL
EBS	EXCAVATION BELOW SUBGRADE	S	SOUTH
ECS	EXTERNAL CHIMNEY SEAL	SALV	SALVAGE
EL	ELEVATION	SAN	SANITARY
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)	SB	SOUTHBOUND
EMB	EMBANKMENT	SDWK	SIDEWALK
ENTR	ENTRANCE	SE	SOUTHEAST
EP	EDGE OF PAVEMENT	SF	SQUARE FEET
EW	ENDWALL	SHLDR	SHOULDER
EXC	EXCAVATION	SY	SQUARE YARD
EXIST	EXISTING	SS	STORM SEWER
F	FILL	SSD	STOPPING SIGHT DISTANCE
F/F	FACE TO FACE	ST	STREET
FDN	FOUNDATION	STA	STATION
FE	FIELD ENTRANCE	STD	STANDARD
FERT	FERTILIZER	STH	STATE HIGHWAY TRUNK
FIN GR	FINISHED GRADE	STM	STORM
FL	FLOWLINE	STP	SEWAGE TREATMENT PLANT
FO	FIBER OPTIC	STRUCT	STRUCTURE OR STRUCTURAL
FOW	FRONT OF SIDEWALK	SW	SOUTHWEST
FT	FOOT	TAN	TANGENT
FTG	FOOTING	T	TOWN (T WHEN USED FOR TELEPHONE LINE)
G	GAS	TEL	TELEPHONE
GV	GAS VALVE	TEMP	TEMPORARY
GW	GUY WIRE	TLE	TEMPORARY LIMITED EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
HR	HANDICAP RAMP	TOW	TOP OF WATER
HSE	HOUSE	TRANS	TRANSITION
HT	HEIGHT	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
I	INTERSECTION ANGLE	USH	US HIGHWAY
ICS	INTERNAL CHIMNEY SEAL	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCH	VOL	VOLUME
INL	INLET	VPC	VERTICAL POINT OF CURVATURE
INTERS	INTERSECTION	VPI	VERTICAL POINT OF INTERSECTION
INV	INVERT	VPRC	VERTICAL POINT OF REVERSE CURVE
IP	IRON PIPE OR PIN	VPT	VERTICAL POINT OF TANGENCY
JCT	JUNCTION	W	WEST
L	LENGTH (OF CURVE)	WB	WESTBOUND
LC	LONG CHORD OF CURVE	WM	WATERMAIN
LP	LIGHTPOLE	WSO	WATER SHUTOFF VALVE
LS	LIFT STATION OR LUMP SUM	WTP	WATER TREATMENT PLANT
LT	LEFT	WV	WATER VALVE
MAINT	MAINTENANCE	WWTP	WASTE WATER TREATMENT PLANT
MATL	MATERIAL	YD	YARD
MB	MAILBOX		
MH	MANHOLE		
MP	MARKER POST		

## MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
BENCHMARK		
BUSH		
CATCH BASIN/INLET		
CABLE TV BOX		
CONTROL POINT		
ELECTRICAL BOX		
EROSION CONTROL - INLET		
FIELD INLET		
GAS VALVE		
HEDGE		
HYDRANT		
IRON PIPE		
LIGHTPOLE		
MAILBOX		
MANHOLE ELECTRIC		
MANHOLE SANITARY		
MANHOLE STORM		
MONITORING WELL		
POWER POLE		
LIGHT POLE		
SIGN		
SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE		
SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE		
SOIL BORING		
STUMP		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TREE		
WELL		
WATER SERVICE VALVE		
BUTTERFLY WATER VALVE		
WATER VALVE		

### GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
2. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY SPECIFICATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.
4. EXISTING UTILITIES SHOWN ON THE 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 UTILITIES OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

## MAPPING & TOPOGRAPHY SYMBOLOGY

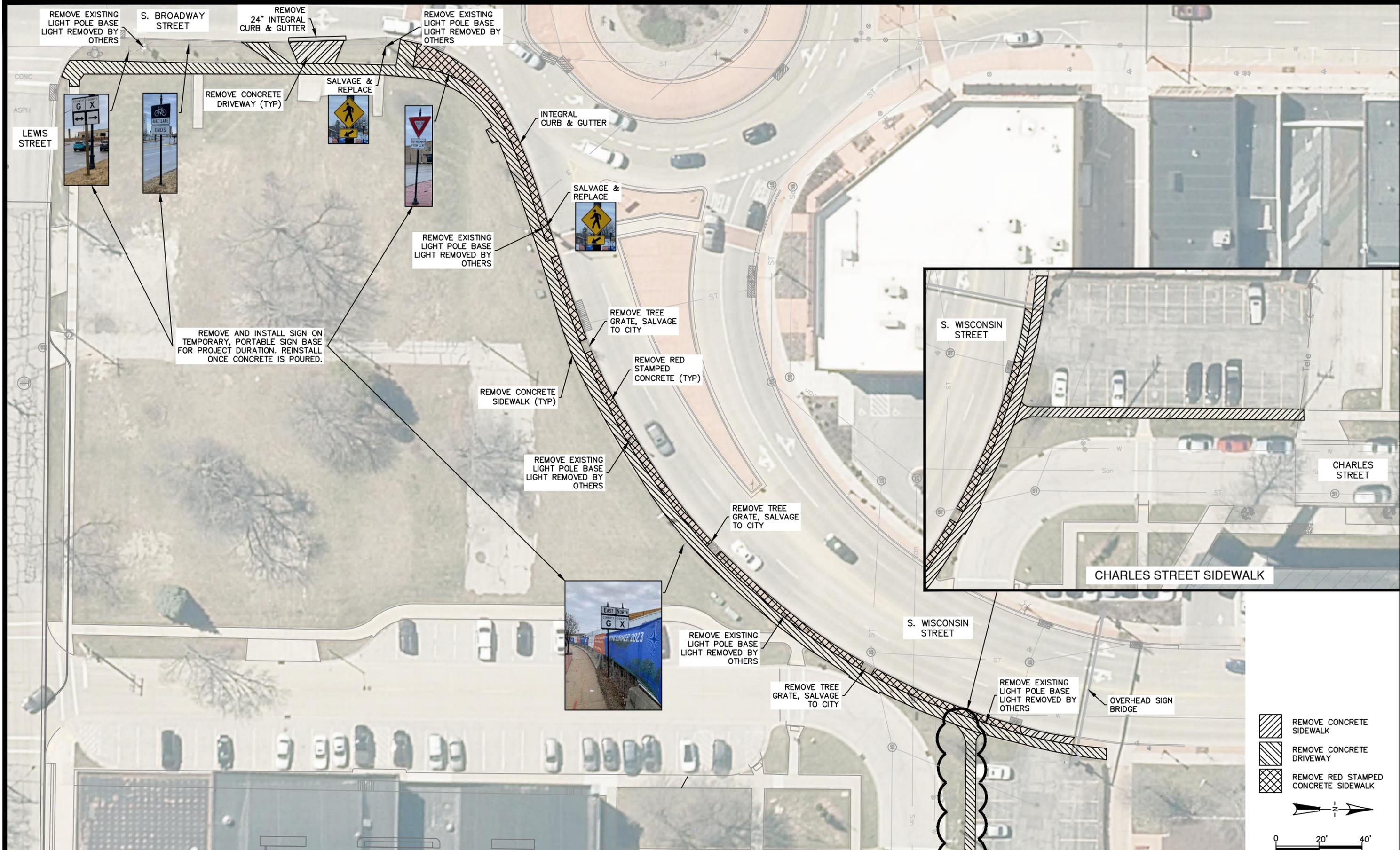
DESCRIPTION	SYMBOL	
	PLAN	PROFILE
EXISTING SANITARY SEWER LINE		
PROPOSED SANITARY SEWER LINE		
EXISTING STORM SEWER LINE		
PROPOSED STORM SEWER LINE		
EXISTING WATER MAIN LINE		
PROPOSED WATER MAIN LINE		
EXISTING ELECTRICAL LINE		
EXISTING GAS MAIN LINE		
EXISTING TELEPHONE LINE		
EXISTING CABLE TV LINE		
EXISTING SANITARY LATERAL		
EXISTING WATER SERVICE		
RIGHT OF WAY		
PROPERTY LINE		
EASEMENT		
SILT FENCE EROSION CONTROL		
EXISTING FIBER OPTIC		
EXISTING MAJOR CONTOUR		
EXISTING MINOR CONTOUR		
PROPOSED MAJOR CONTOUR		
PROPOSED MINOR CONTOUR		

### PROFILE

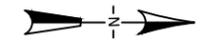
EXISTING SANITARY SEWER LINE	
PROPOSED SANITARY SEWER LINE	
EXISTING STORM SEWER LINE	
PROPOSED STORM SEWER LINE	
EXISTING WATER MAIN LINE	
PROPOSED WATER MAIN LINE	

### PATCH SYMBOLS

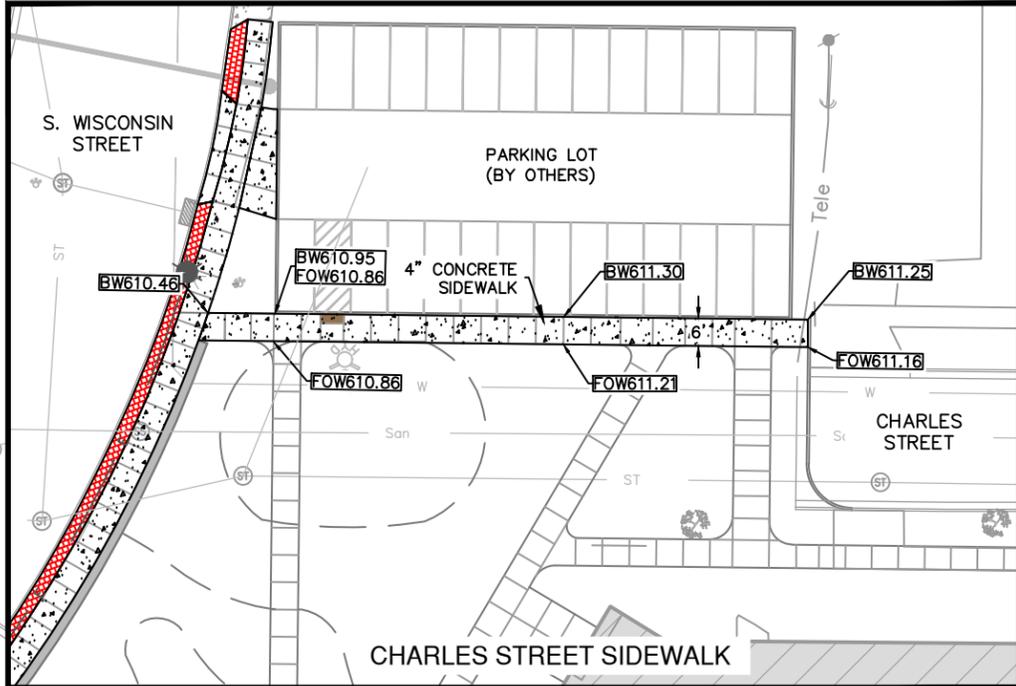
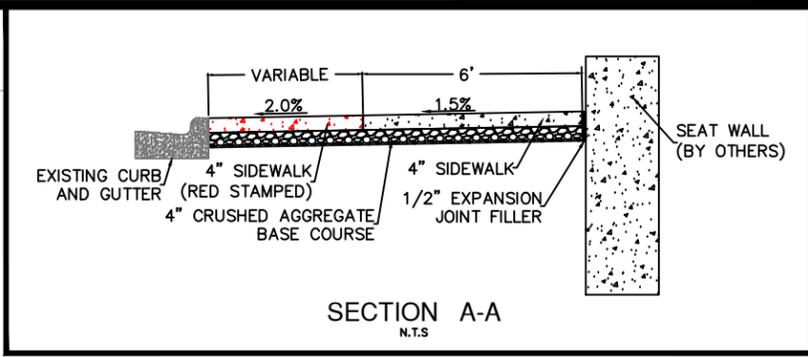
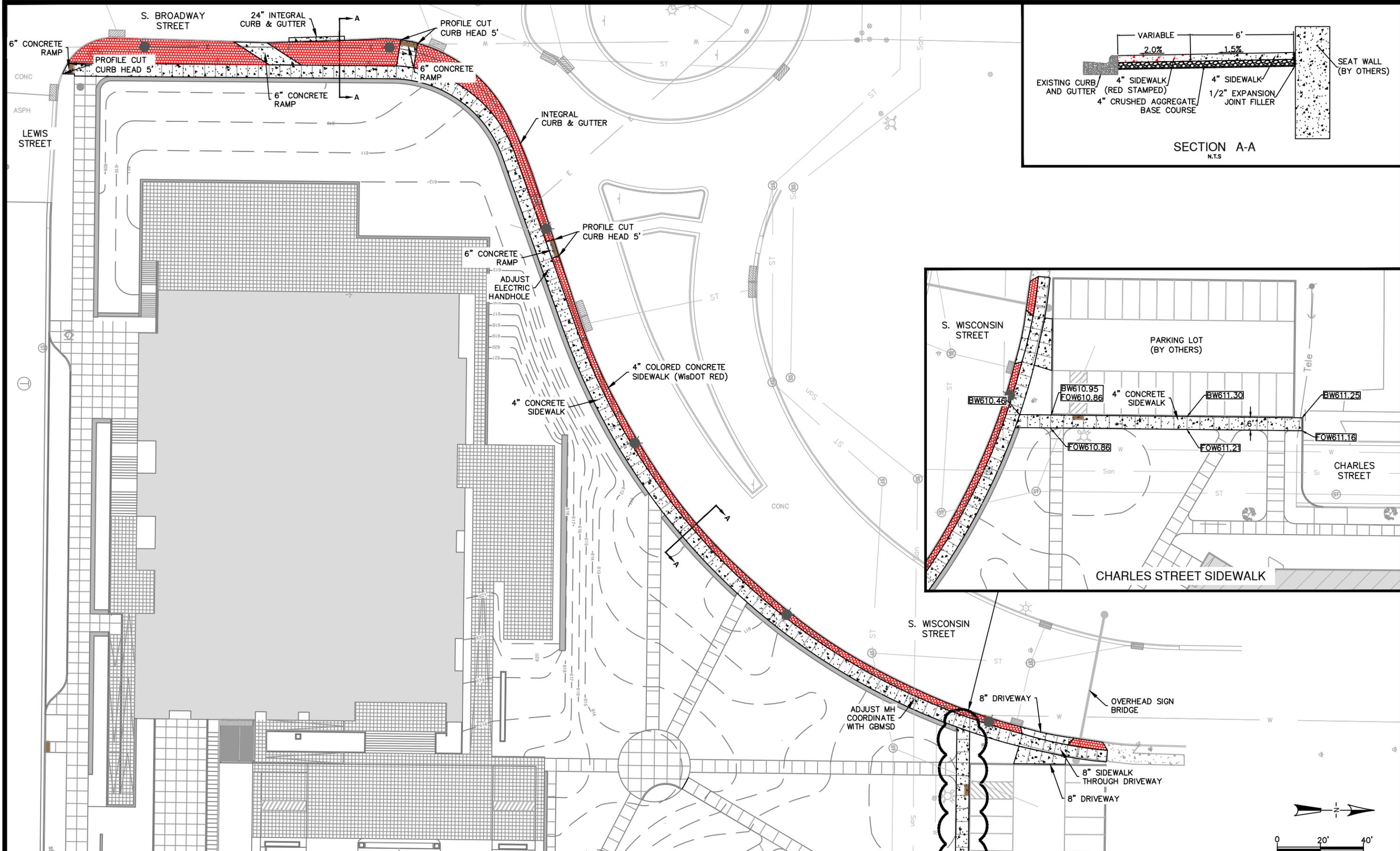
ASPHALTIC CONCRETE PAVEMENT		CRUSHED AGGREGATE BASE COURSE	
PORTLAND CEMENT CONCRETE			



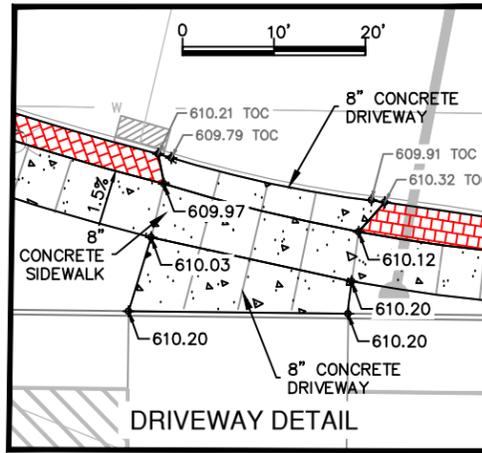
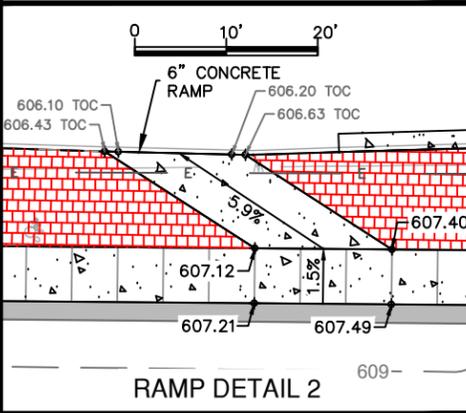
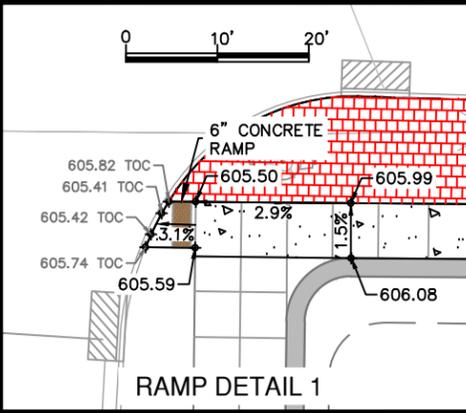
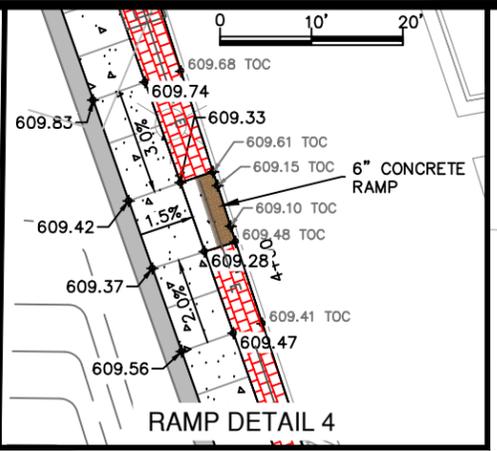
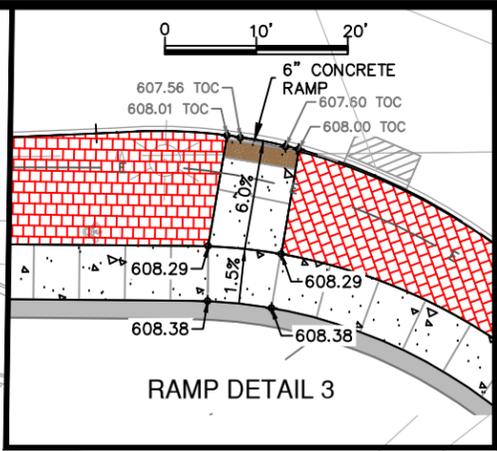
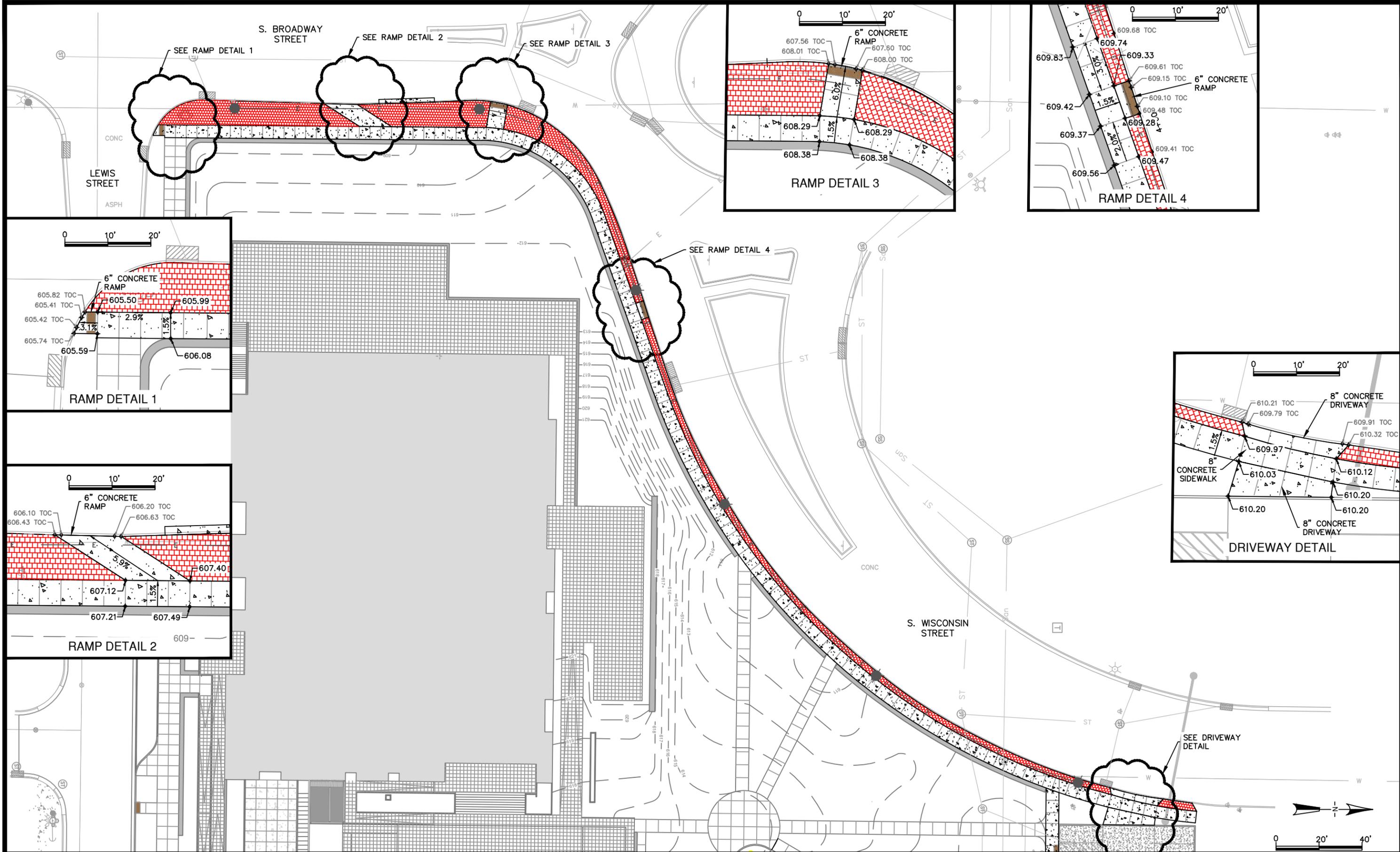
-  REMOVE CONCRETE SIDEWALK
-  REMOVE CONCRETE DRIVEWAY
-  REMOVE RED STAMPED CONCRETE SIDEWALK



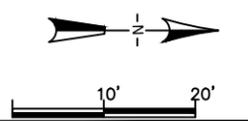
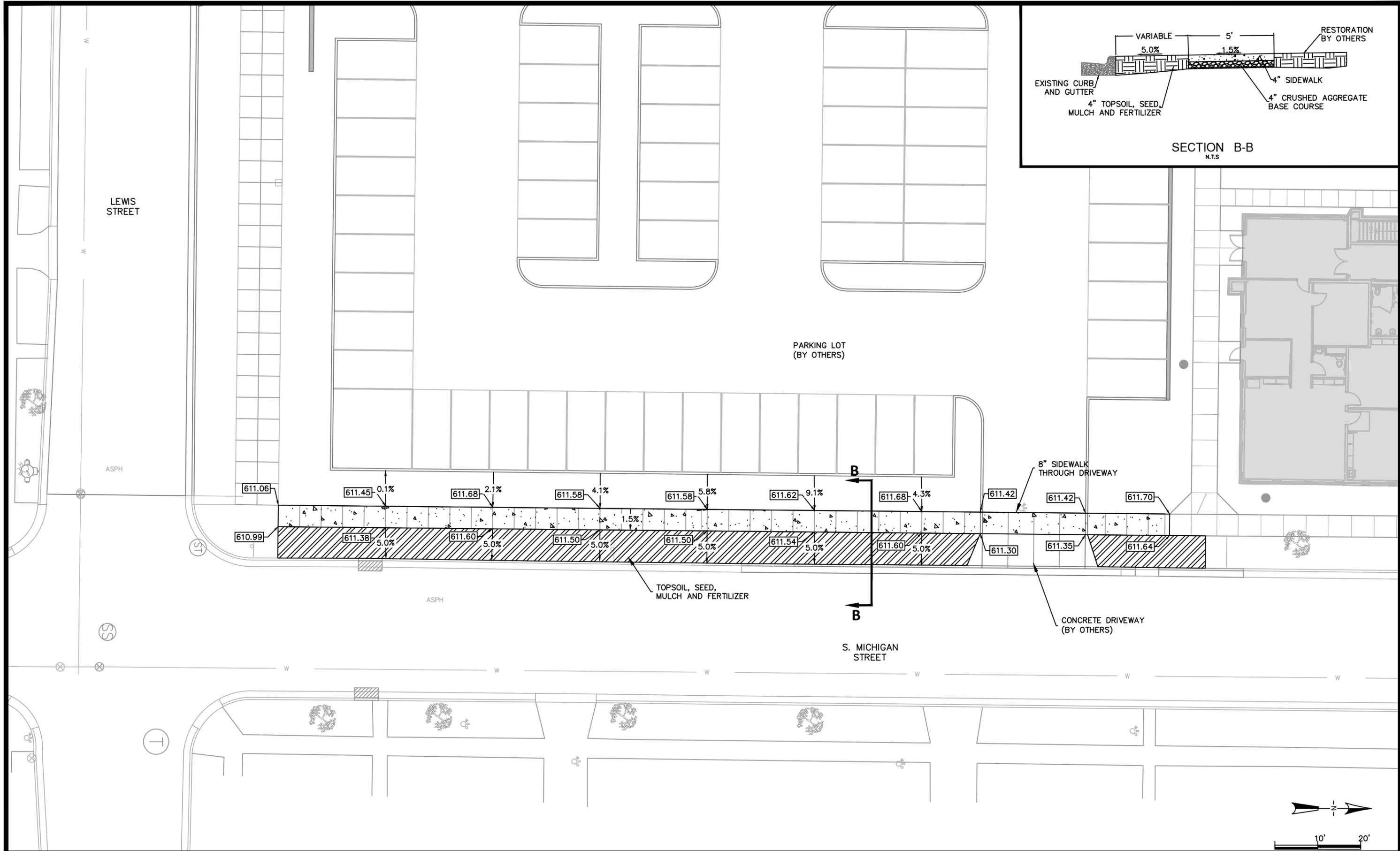
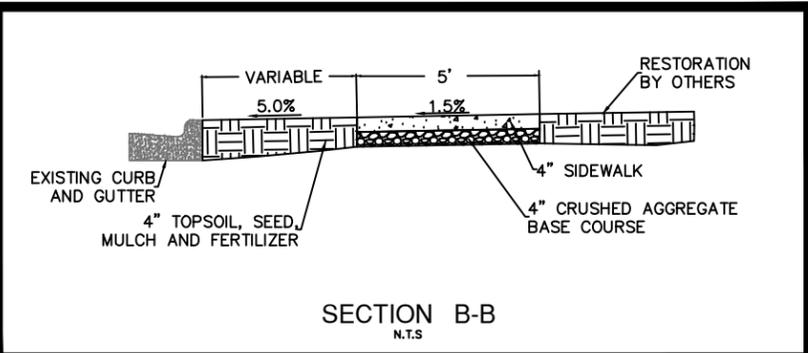
0 20' 40'



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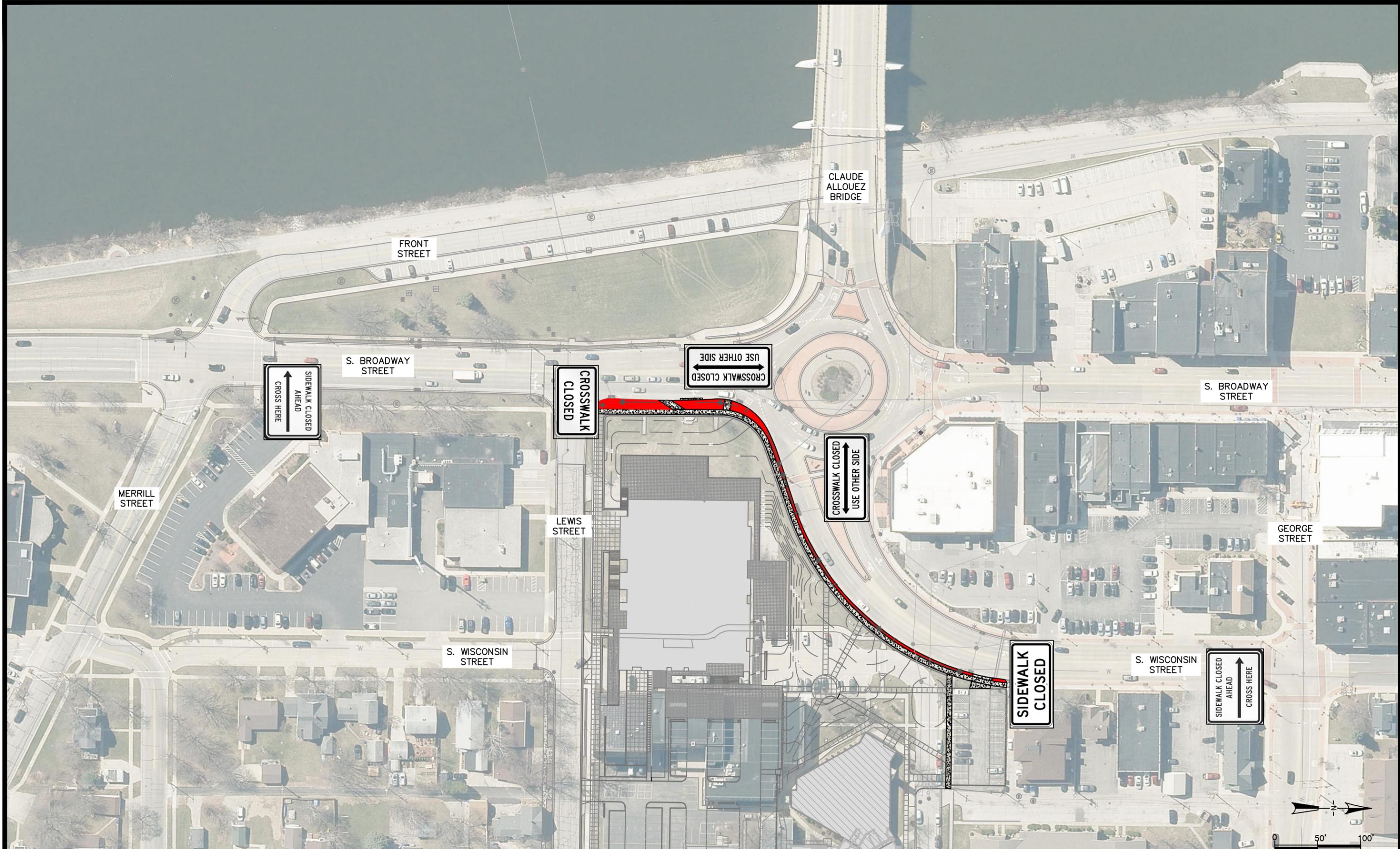
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**S. BROADWAY ST AND S. WISCONSIN ST**  
**PHASE 2: TRAFFIC CONTROL PLAN**

NAME: DOWNTOWN SIDEWALK AND STREET LIGHTING	BY: MAU & ASSOC.	DATE: 01-2017	REVISIONS / ISSUES		PAGE NO. <b>C402</b>
PROJECT # 22-22	DRAWN: KAD	03-2022	NO.	DATE	
	DESIGNED: KAD	03-2022			REMARKS
	CHECKED: CKK	03-2022			

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**CITY OF DE PERE**

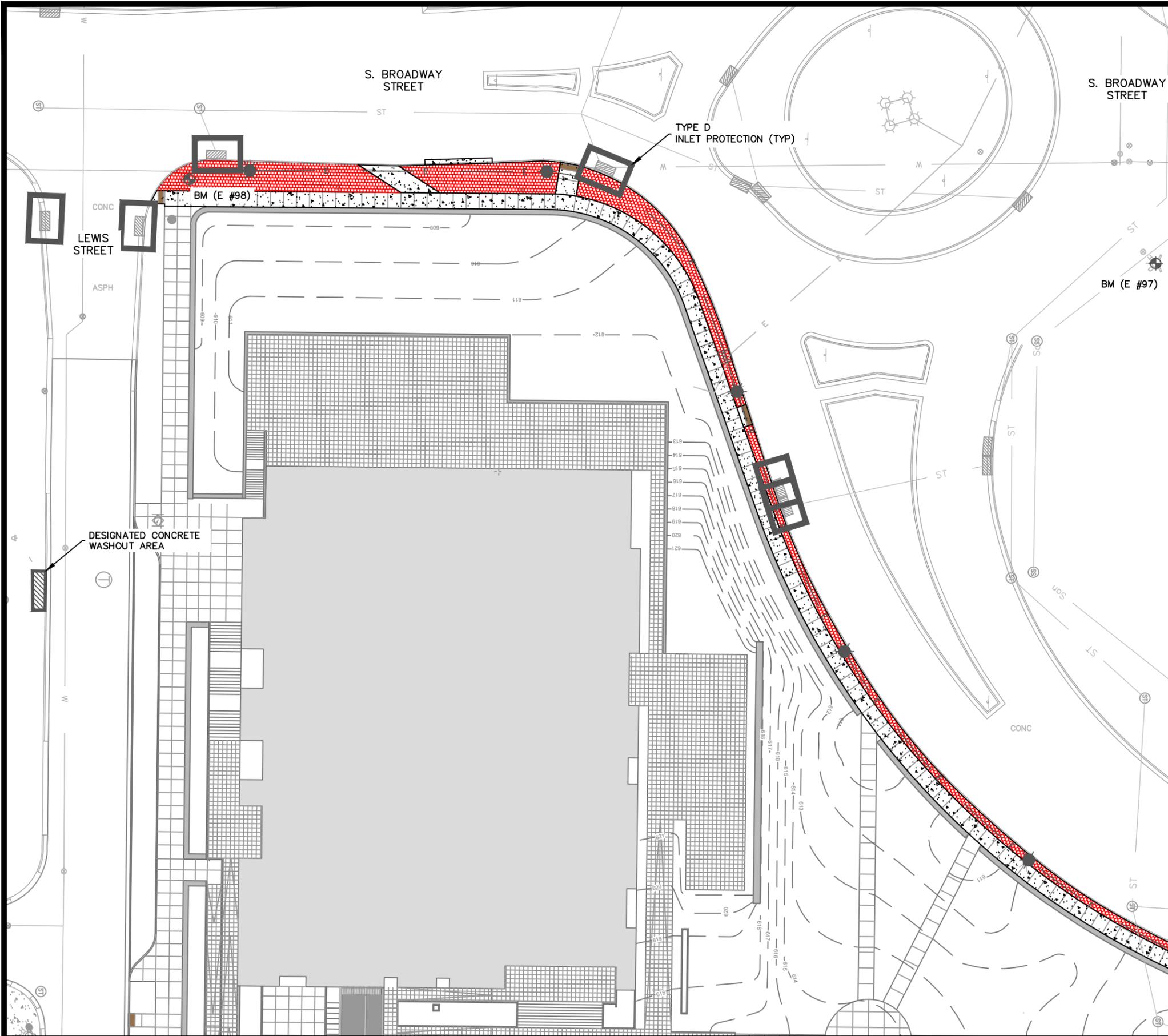
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
 OFFICE 920-339-4061 FAX 920-339-4071

**S. BROADWAY ST AND S. WISCONSIN ST  
 PEDESTRIAN TRAFFIC CONTROL PLAN**

NAME: DOWNTOWN SIDEWALK AND STREET LIGHTING  
 PROJECT # 22-22

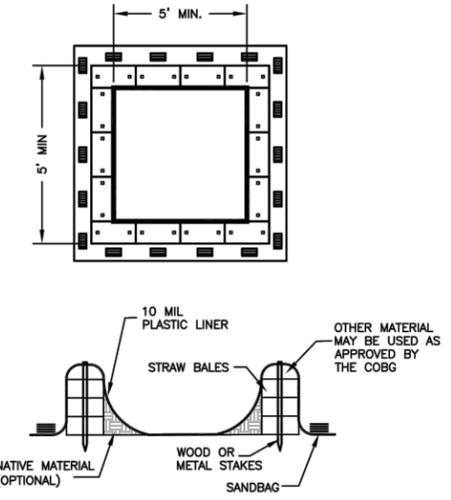
	BY	DATE
SURVEYED	MAU & ASSOC.	01-2017
DRAWN	KAD	03-2022
DESIGNED	KAD	03-2022
CHECKED	CKK	03-2022

REVISIONS / ISSUES		
NO.	DATE	REMARKS



**NOTES:**

1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASH GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.

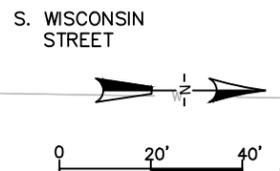


CONCRETE WASHOUT DETAIL

N.T.S.

**BENCHMARKS**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (E #98)	542468.964	87903.690	609.10	TOP NUT
BM (E #97)	542839.125	87935.287	612.76	TOP NUT



**CITY OF DE PERE**

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

**S. BROADWAY ST AND S. WISCONSIN ST  
EROSION CONTROL PLAN AND BENCHMARKS**

NAME: DOWNTOWN SIDEWALK AND STREET LIGHTING  
PROJECT # 22-22

BY	DATE
MAU & ASSOC.	01-2017
KAD	03-2022
KAD	03-2022
CHK	03-2022

REVISIONS / ISSUES	
NO.	DATE

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**SDD 15D20-b Traffic Control, Single Right Lane Closure, Undivided Non-Freeway/Expressway**

**LEGEND**

- Sign on permanent support
- Traffic control drum
- Traffic control drum with Type "C" steady burn light
- Type II Barricade with attached sign
- Type "X" warning light (flashing)
- Flashing arrow board
- Direction of traffic
- Remove pavement marking (see general notes)
- Work area

**GENERAL NOTES**

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION. ALL SIGNS ARE 48"x36" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x30" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"W0" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (50' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W0-1A, Q20-1 AND Q20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF EACH WORKING DAY.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

① OMIT Q20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (L) FEET	BUFFER SPACE (B) FEET
25	200'	120'	50'
30	200'	180'	80'
35	350'	240'	120'
40	350'	300'	150'
45	500'	360'	200'
50	500'	420'	250'
55	500'	480'	300'

**TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREWAY/EXPRESSWAY**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: February 2022 By: Andrew Hedlitz  
DATE: WORK ZONE ENGINEER

**SDD 15C11-b Channelizing Devices, Drums, Cones, Barricades and Vertical Panels**

**GENERAL NOTES**

- REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**DRUM**

FLUORESCENT ORANGE 360° REBOUNDABLE REFLECTIVE SHEETING  
WHITE 360° REBOUNDABLE REFLECTIVE SHEETING  
WEIGHTED BASE

**42" CONE**

DO NOT USE IN TAPERS  
1/2 SPACING OF DRUMS

FLUORESCENT ORANGE 360° REBOUNDABLE REFLECTIVE SHEETING  
WHITE 360° REBOUNDABLE REFLECTIVE SHEETING  
WEIGHTED BASE

**VERTICAL PANEL**

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

**TYPE II BARRICADE**

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

**TYPE III BARRICADE**

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.  
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES, DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: May 2021 By: Andrew Hedlitz  
DATE: WORK ZONE ENGINEER

**SDD 08E10 Inlet Protection, Types A, B, C and D**

**INLET PROTECTION, TYPE "A"**

**INLET PROTECTION, TYPE "B" (WITHOUT CURB BOX)**

**INLET PROTECTION, TYPE "C" (WITH CURB BOX)**

**INLET PROTECTION, TYPE "D"**

**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXCEED A MINIMUM OF 1" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION TYPE C (WITH CURB BOX), AN ADDITIONAL 1" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

**INSTALLATION NOTES**

**TYPES B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3" WHERE NECESSARY THE CONTRACTOR SHALL GRUB THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

**INLET PROTECTION TYPES A, B, C AND D**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: 10/16/22 By: Beth Conrath  
DATE: ROADWAY RECONSTRUCTION DEVELOPMENT ENGINEER

**SDD 15D30-a Traffic Control, Pedestrian Accommodation**

**MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE**

**MID-BLOCK SIDEWALK CLOSURE**

**CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK**

**SIDEWALK DIVERSION**

**GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK FOR ALL TIMES.

"W0" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE, USE TYPE "X" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC. PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED SIDEWALK SHALL BE COVERED OR DEACTIVATED.

POST INDICATED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE EXISTING PEDESTRIAN ROUTE.

② "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 10 FEET BEHIND THE CURB.

③ IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

④ TEMPORARY CURB RAMPS, SEE SDD 15D30 SHEET "V".

⑤ DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

⑥ TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

⑦ LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

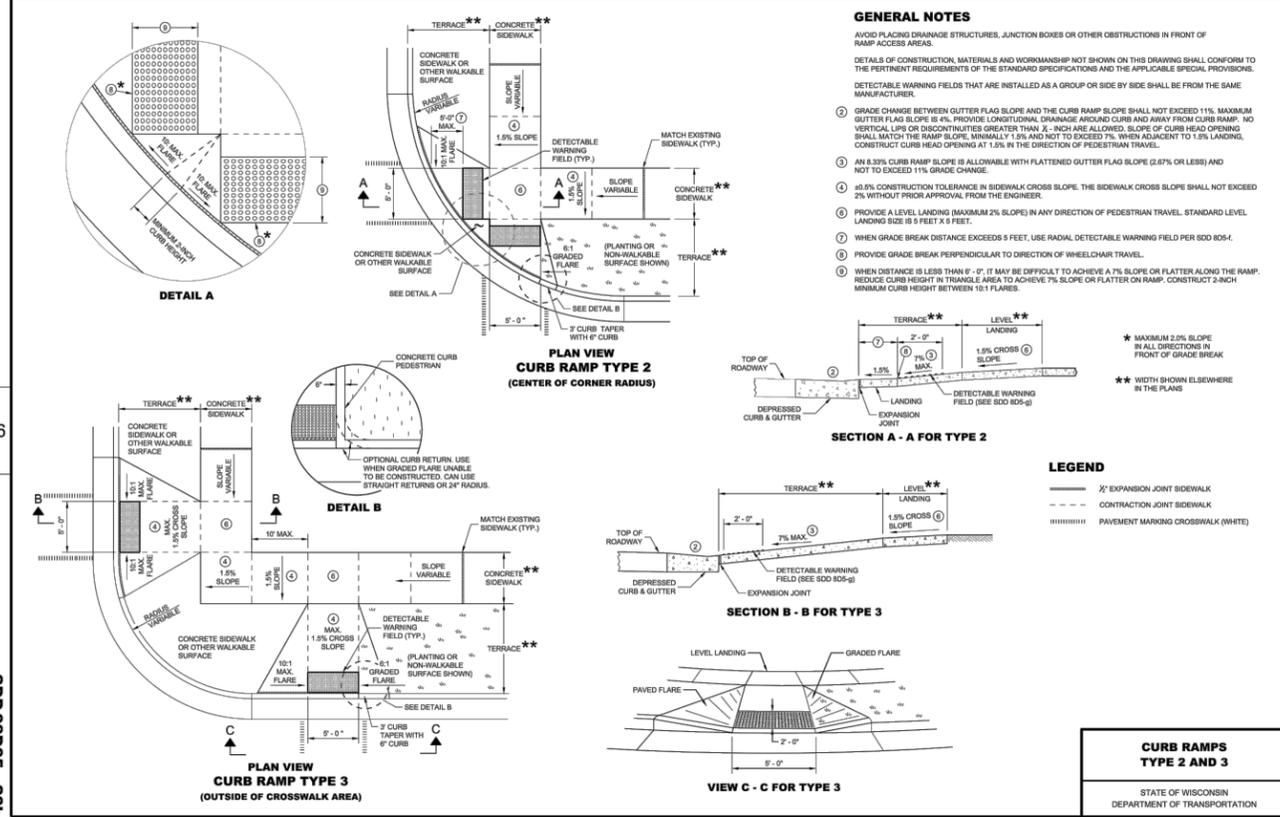
**LEGEND**

- Sign on permanent support
- Traffic control drum
- Type II Barricade with/without sign (all with one warning light, type A low intensity flashing)
- Type II Barricade with/without sign (all with one warning light, type A low intensity flashing)
- Under pedestrian traffic
- Work area
- Pedestrian channelization device
- Direction of traffic

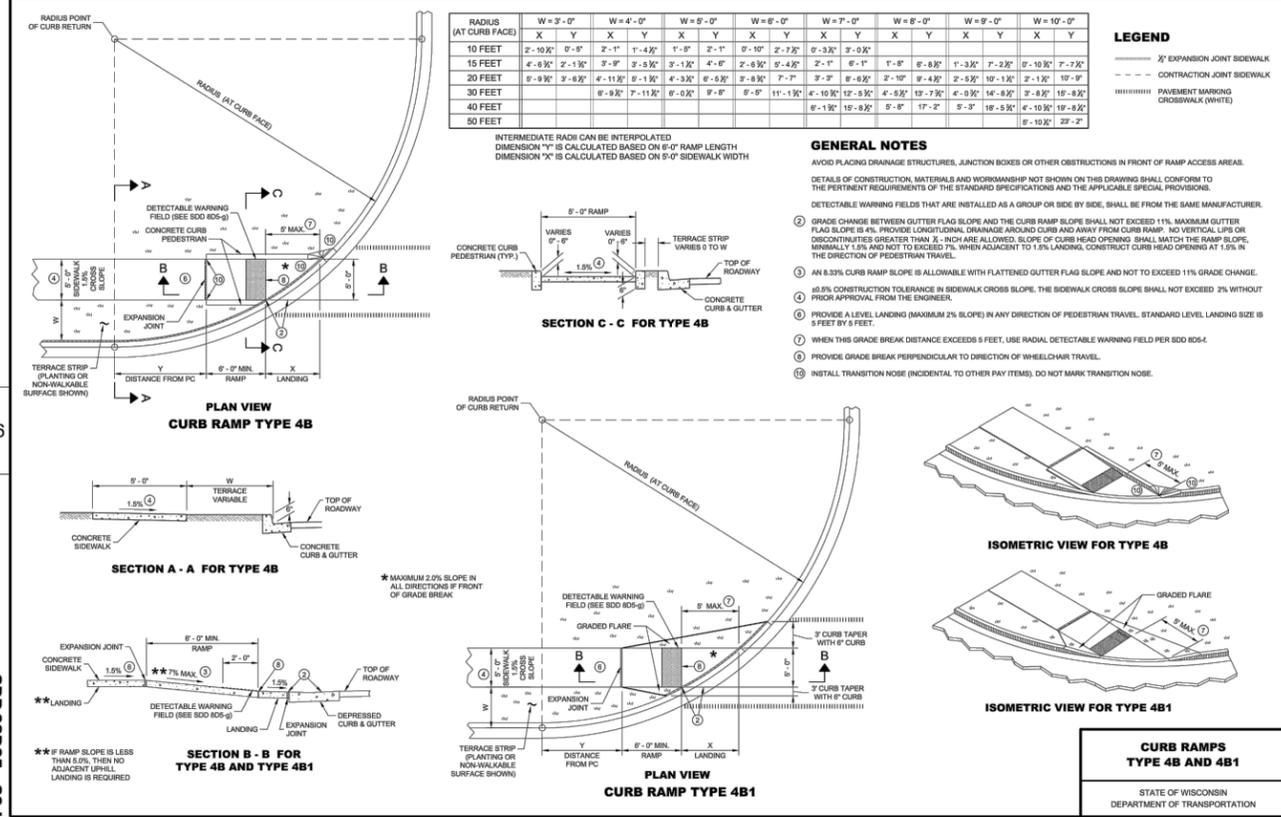
**TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

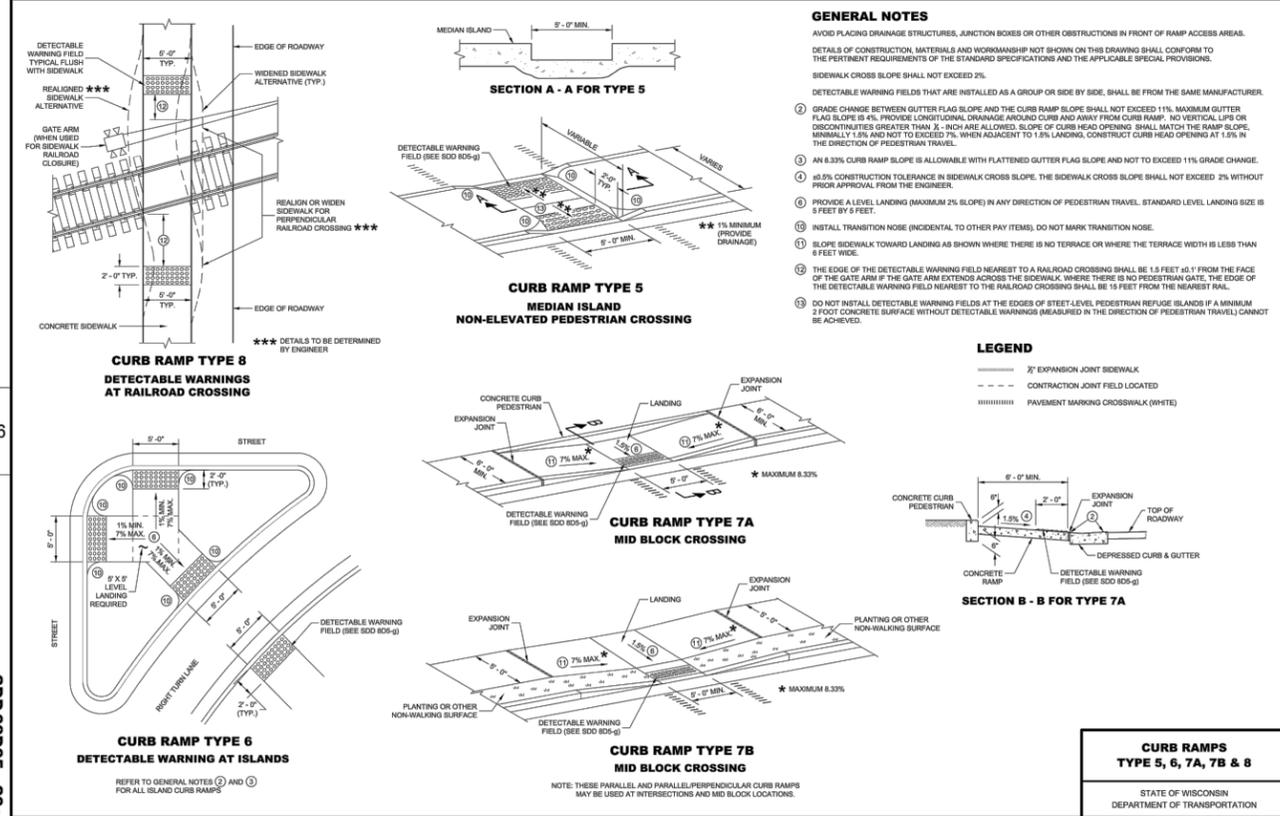
**SDD 08D05-b Curb Ramps Types 2 and 3**



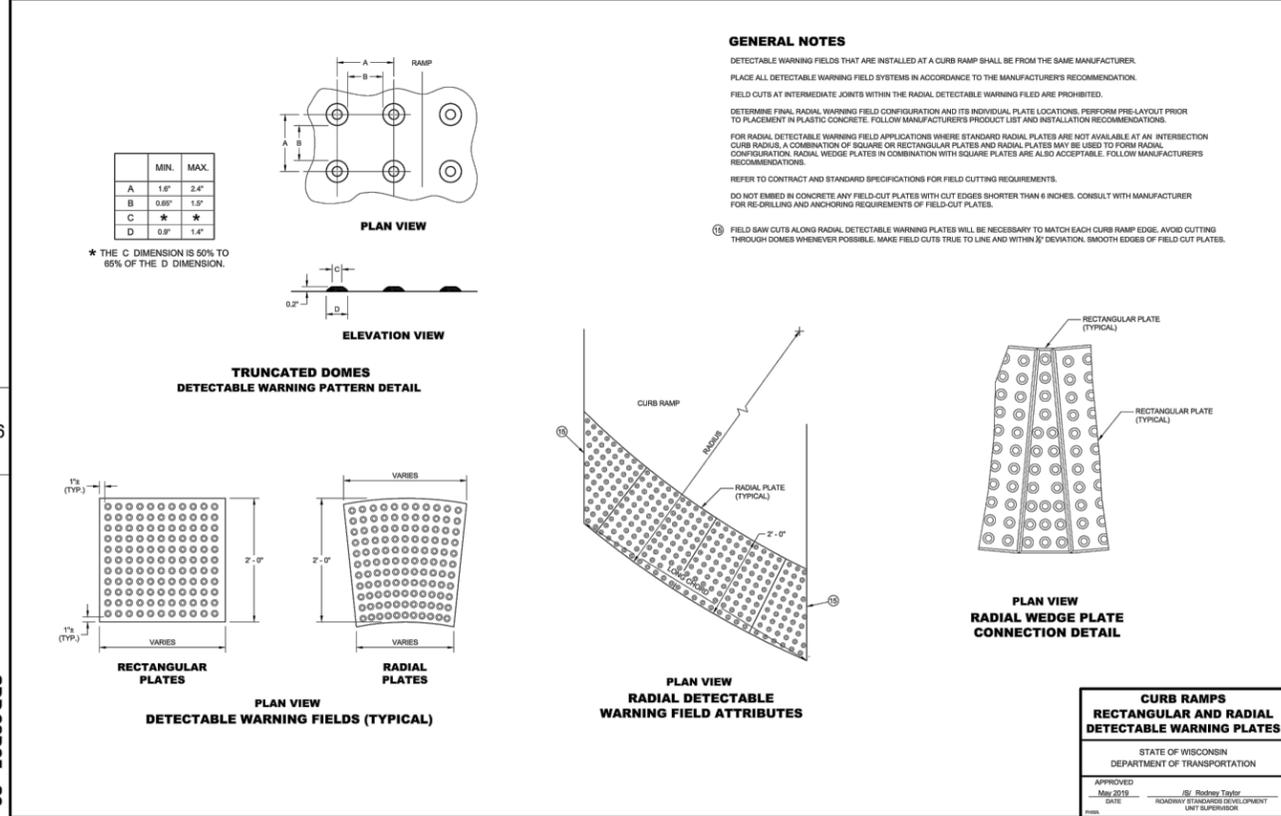
**SDD 08D05-d: Curb Ramps Types 4B and 4B1**



**SDD 08D05-e: Curb Ramps Types 5, 6, 7A, 7B and 8**



**SDD 08D05-g: Curb Ramps Rectangular and Radial Detectable Warning Plates**



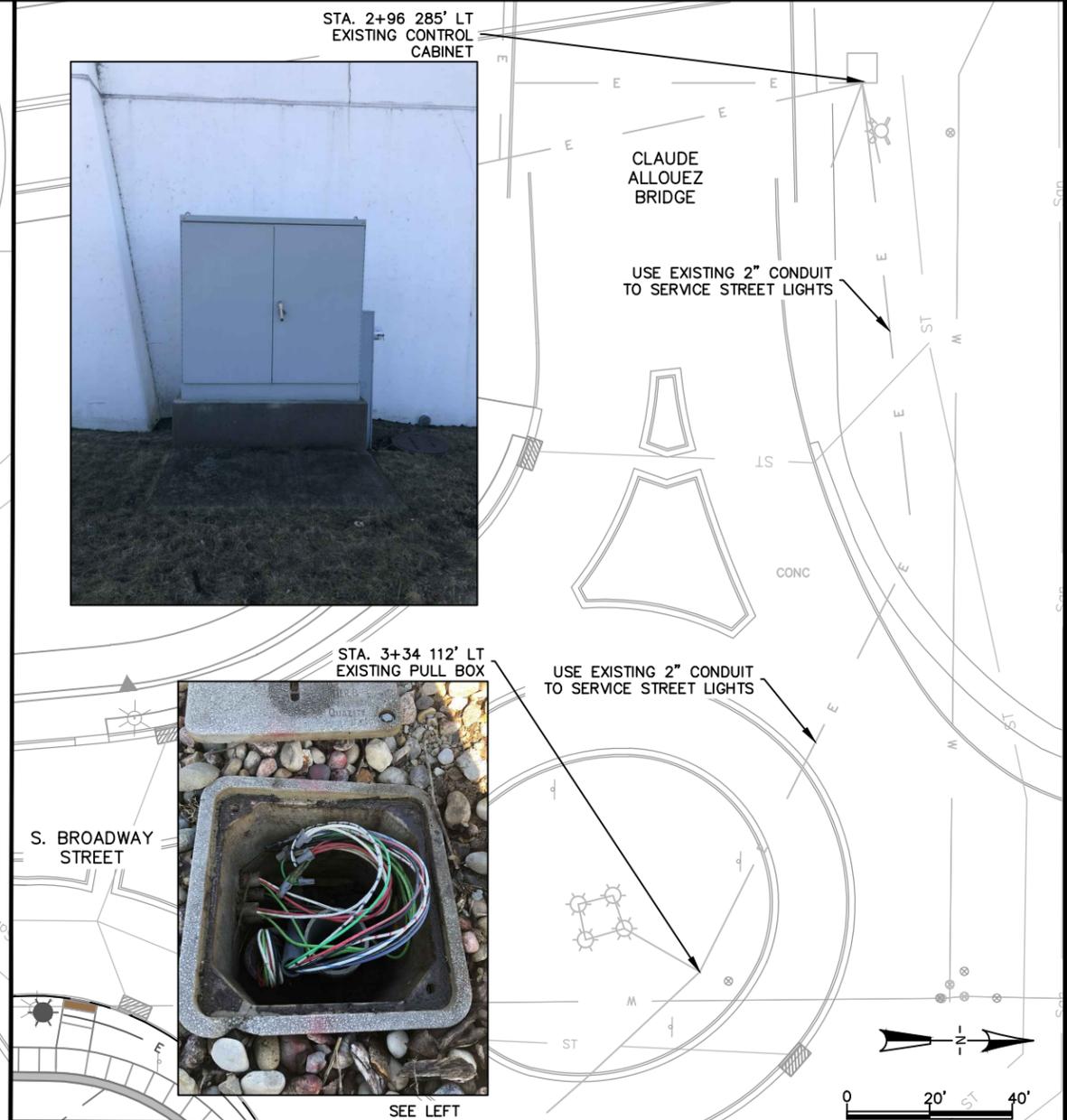
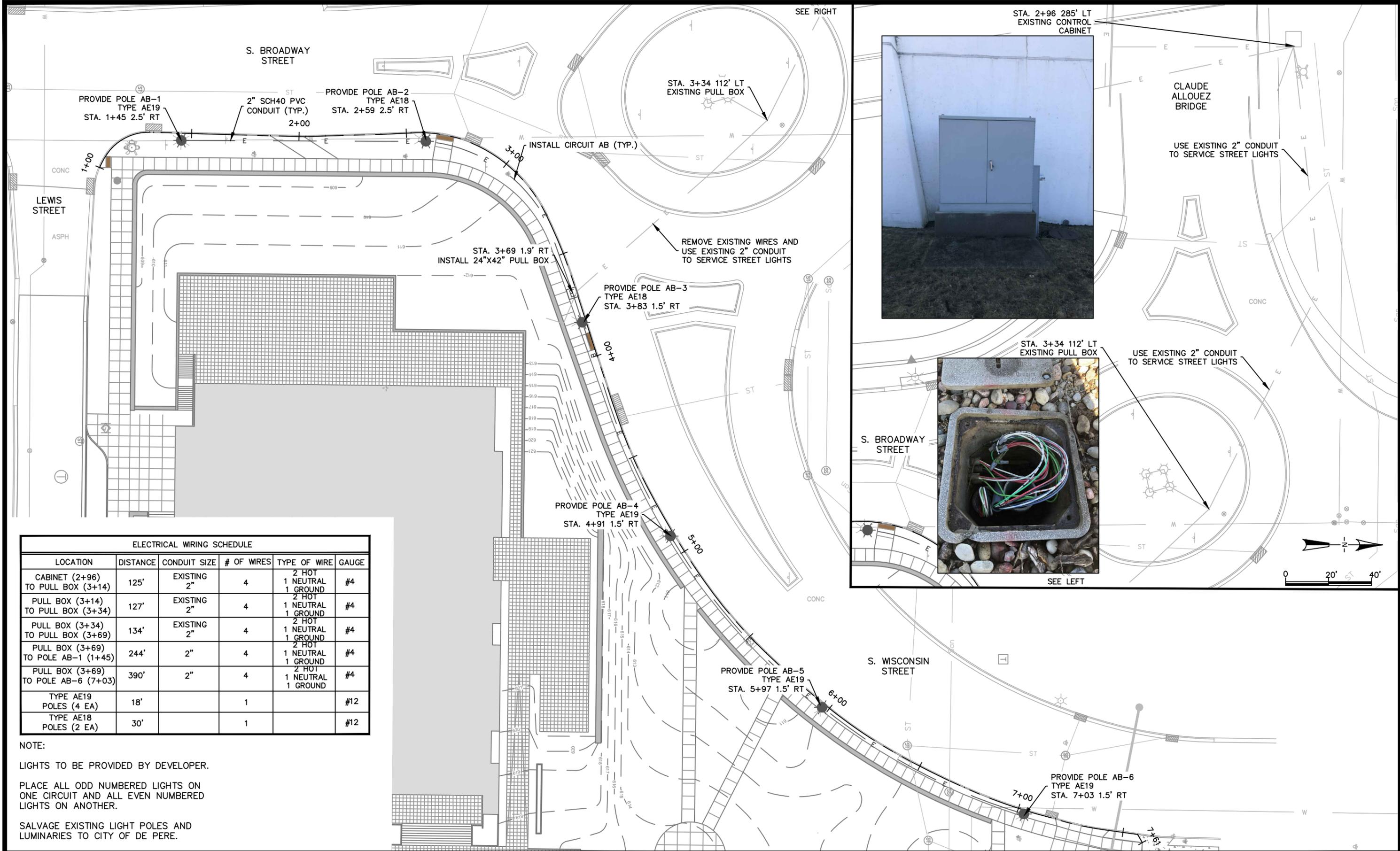
**CITY OF DE PERE**

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

**CONSTRUCTION DETAILS**

NAME: DOWNTOWN SIDEWALK AND STREET LIGHTING	BY: KAD	DATE: 03-2022	REVISIONS / ISSUES		PAGE NO. <b>C502</b>
PROJECT # 22-22	CHECKED: CKK	DATE: 03-2022	NO.	DATE	
			BY	REMARKS	

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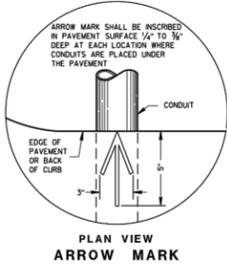


ELECTRICAL WIRING SCHEDULE					
LOCATION	DISTANCE	CONDUIT SIZE	# OF WIRES	TYPE OF WIRE	GAUGE
CABINET (2+96) TO PULL BOX (3+14)	125'	EXISTING 2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (3+14) TO PULL BOX (3+34)	127'	EXISTING 2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (3+34) TO PULL BOX (3+69)	134'	EXISTING 2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (3+69) TO POLE AB-1 (1+45)	244'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (3+69) TO POLE AB-6 (7+03)	390'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
TYPE AE19 POLES (4 EA)	18'		1		#12
TYPE AE18 POLES (2 EA)	30'		1		#12

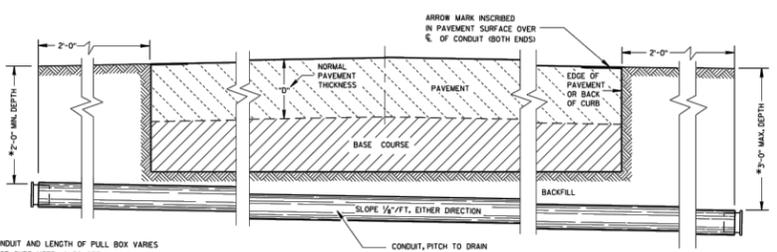
NOTE:  
LIGHTS TO BE PROVIDED BY DEVELOPER.  
PLACE ALL ODD NUMBERED LIGHTS ON ONE CIRCUIT AND ALL EVEN NUMBERED LIGHTS ON ANOTHER.  
SALVAGE EXISTING LIGHT POLES AND LUMINARIES TO CITY OF DE PERE.

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**SDD 9b2 Conduit**



PLAN VIEW  
ARROW MARK

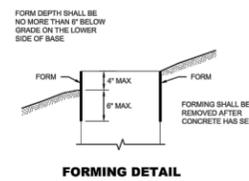


SIDE ELEVATION  
DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.  
 METALLIC STANDARD SPECIFICATION 652.2.2 OR NONMETALLIC STANDARD SPECIFICATION 652.2.3 CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.  
 DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.  
 DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.  
 ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.  
 THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.  
 ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.  
 ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.  
 ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.  
 ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.  
 NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.  
 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSON TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.  
 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE SEC. 341.6)  
 WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.  
 PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS RE-INSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.  
 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.  
 CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX TO JUNCTION BOX OR BASE TO BASE, ETC.).  
 TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.3.3.  
 ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

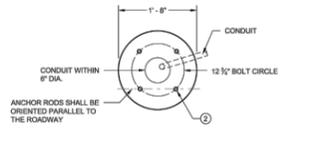
**CONDUIT**  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED: [Signature]  
 DATE: [Date]  
 TITLE: STATE ELECTRICAL ENGINEER

**SDD 9C2 Concrete Bases, Types 1, 2, 5 & 6**

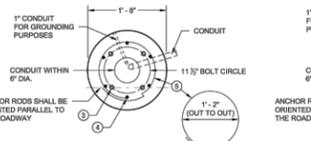


FORMING DETAIL

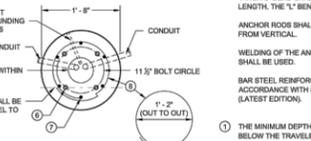
QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LB. OF HOOP BAR STEEL	NONE	23	16
LB. OF VERTICAL BAR STEEL	NONE	60	18



HALF SECTION IN UNPAVED AREA (TYPICAL FOR TYPES 1, 2, 5 & 6)



HALF SECTION IN PAVEMENT (TYPICAL FOR TYPES 1, 2, 5 & 6)

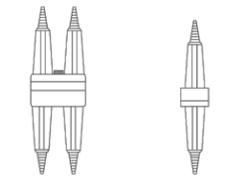


HALF SECTION IN PAVEMENT (TYPICAL FOR TYPES 1, 2, 5 & 6)

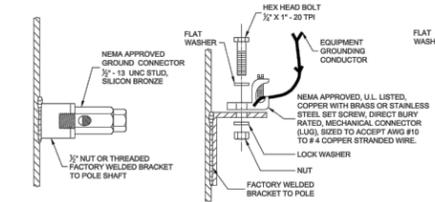
**CONCRETE BASES**  
 TYPES 1, 2, 5, & 6  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED: [Signature]  
 DATE: [Date]  
 TITLE: STATE ELECTRICAL ENGINEER

**SDD 9e3 Non-Freeway Lighting Unit Pole Wiring**

**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.  
 THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.  
 WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

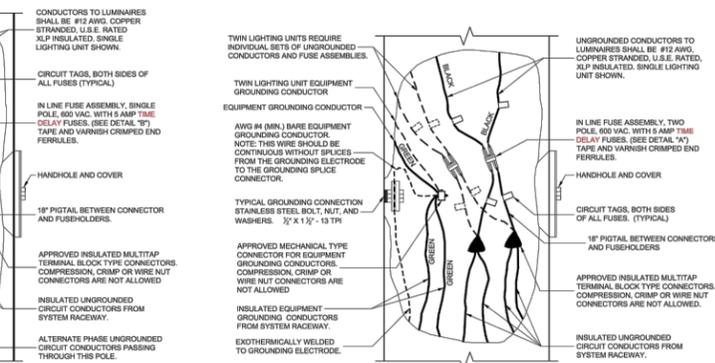
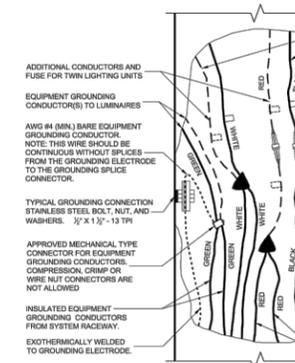


DETAIL "A" BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT  
 DETAIL "B" BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS  
 NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

**LIGHTING UNIT CODE (TYPICAL)**



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDING CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR  
 2 WIRE - 240 OR 480 VAC (UNGROUNDING CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

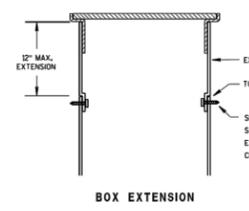
**NON - FREEWAY LIGHTING UNIT POLE WIRING**  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED: [Signature]  
 DATE: [Date]  
 TITLE: STATE ELECTRICAL ENGINEER

**SDD 9B16 Pull Boxes Non-Conductive**

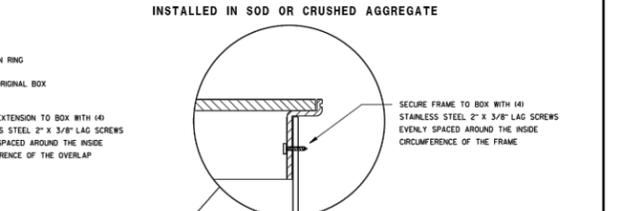
**TABLE OF NOMINAL DIMENSIONS AND WEIGHTS**

DIMENSION IN INCHES	NON-CONDUCTIVE PULL BOX	
	A	B
BOX DIAMETER **	24	24
BOX OVERALL OUTSIDE DIAMETER	27	27
BOX LENGTH	36	42
FRAME OPENING	22 1/2	22 1/2
<b>WEIGHT IN POUNDS *</b>		
COVER	50	50
BOX ONLY	75	85

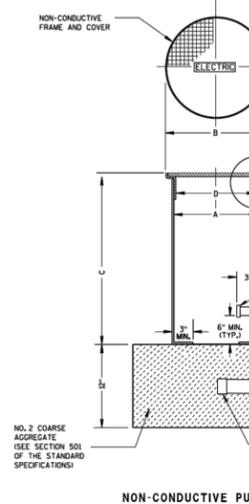
\* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 300 LBS INDIVIDUALLY.  
 \*\* DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE



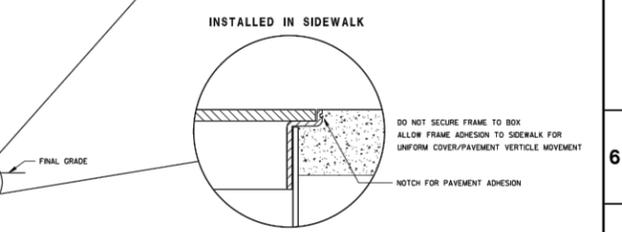
BOX EXTENSION



INSTALLED IN SOD OR CRUSHED AGGREGATE



NON-CONDUCTIVE PULL BOX



INSTALLED IN SIDEWALK

**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.  
 ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 1 LOADING AS SPECIFIED IN ANSICR/STE 11.  
 PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL, NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER.  
 ENSURE COVER SURFACE IS SMOOTH RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DISCONTINUITIES LESS THAN 1/4".  
 COVER SHALL BE MAGNETICALLY LOCATABLE.  
 BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.  
 ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".  
 THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.  
 ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.  
 ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.  
 WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDER, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.  
 LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT 115" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

**PULL BOX NON-CONDUCTIVE**  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED: [Signature]  
 DATE: [Date]  
 TITLE: STATE ELECTRICAL ENGINEER



**CITY OF DE PERE**

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

**ELECTRICAL CONSTRUCTION DETAILS**

NAME:	BY:	DATE:	REVISIONS / ISSUES		PAGE NO.
PROJECT #	DRAWN	DESIGNED	NO.	DATE	REMARKS
DOWNTOWN SIDEWALK AND STREET LIGHTING	KAD	03-2022			
22-22	CKK	03-2022			

Lineal Wide LED Luminaire

STRUCTURA

FIXTURE TYPE: TYPE AE19  
PROJECT NAME: MUVLA CULTURAL CENTER



SPECIFICATIONS:

**CONSTRUCTION:** Seamless aluminum housing comprised of 6005A-T61 extrusion and 6061-T6 end plates. Gas-killed aluminum electrical access cover attached with captive stainless steel hardware and safety cable.

**ELECTRICAL:** Integral Class P, 120-277V or 347-480V, dimmable constant current driver. Luminaire is pre-wired with watertight 5 conductor 18 gauge SJEOOW whip. 10kA surge suppression is standard with optional external 20kA surge suppression. Operating temperature of -40°C to 50°C.

**OPTICAL SYSTEM:** LED boards have solderless connections for field upgradability. Available in CCT of 2700, 3000, 3500, and 4000K. >90 CRI. Optics are UV resistant molded PMMA in Type II and IV distributions. Consult factory for additional lumen output, CCT, and optical distribution options.

**CONTROLS:** Dimming through 0-10V input is standard. Available with integral motion sensor with photocell providing on/off and full light to dim control. Also available with wireless smart city control. See SmartCity control documentation for more information.

**FINISHES:** All aluminum parts are polyester powder coat painted to meet AAMA 2604 standards. See Structura's finish options for available colors. [Care and Maintenance](#)

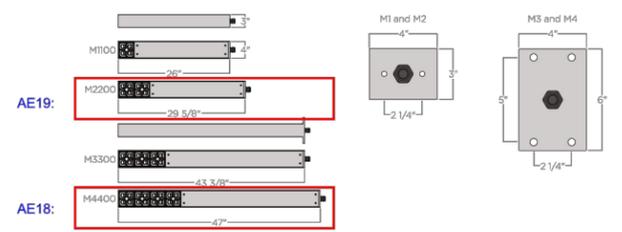
**LISTINGS & RATINGS:** Luminaire CSA listed according to CSA C22.2 No. 250.0-18/UL Standard 1598. Suitable for wet locations. LM-80 test reported L70 > 80,000 hours and calculated L70 > 110,000 hours. Bug rating: B1-UG-G1.

**WARRANTY:** 5-year warranty on LED and drivers.



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STRUCTURA



	2700K	3000K	3500K	4000K		
mA	40.4	>90	2695	2761	2872	2982
Wattage	40.4	>90	2695	2761	2872	2982
CRI	>90	>90	>90	>90	>90	>90
Lumen <sup>1)</sup>	2695	2761	2872	2982	3093	3204
Lumen <sup>2)</sup>	5390	5523	5744	5965	6186	6407
EPA	0.67ft <sup>2</sup>					
Weight	11.4lbs.	11.4lbs.	11.4lbs.	11.4lbs.	11.4lbs.	11.4lbs.

ORDERING GUIDE: EXAMPLE: LINW-M2150-UNV-L30-3-C4-SP-WC-MS/L3-STD

M2200 FOR 15' TYPE AE19 POLES

LINW M4400 L40 4 BLACK UNV ST

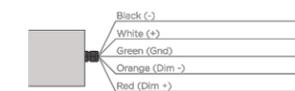
1	Series	4	Distribution <sup>3)</sup>	7	Mounting
LINW	Lineal Wide	4	Type II	SP	Structure Pole <sup>4)</sup>
2	Output <sup>5)</sup>	4	Type IV	ST	Square Steel Pole by Structura <sup>4)</sup>
M1100	1000mA	5		NA	Pole by Others
M2200	2000mA	C*		8	Options
M3300	3000mA	CSM		WC	Wireless Control <sup>6)</sup>
M4400	4000mA			MS/L*	Motion Sensor/Photocell <sup>7)</sup>
3	CCT	6		SS	20kA Surge Suppressor <sup>8)</sup>
L37	2700K <sup>2)</sup>	UNV		9	Special
L30	3000K <sup>2)</sup>	HIGH		STD	Standard
L35	3500K <sup>2)</sup>			MOD	Modified
L40	4000K <sup>2)</sup>				
A1B	Amber				

1. Lumen output based upon Type II distribution.  
2. 2700K or 3000K color temperature required for IES certification.  
3. Contact factory for alternative output, CCT, or distribution options.  
4. Structura pole specification sheet must be completed showing mounting locations and quantities as a separate item.  
5. Specify steel pole on page 110 as separate item.  
6. Wireless smart city control must be ordered separately. Please contact factory for design assistance.  
7. Specify coverage pattern (see page 109 for details). Requires wireless handheld configuration tool.  
8. 20kA surge suppressor is only available when pole is supplied by Structura. 10kA surge suppressor supplied as standard in the fixture.  
Product specification sheets subject to change. ©2021 STRUCTURA, INC. 103

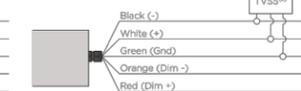
Lineal Wide LED Luminaire

STRUCTURA

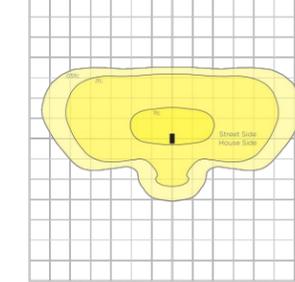
Lineal with standard wiring<sup>1)</sup>



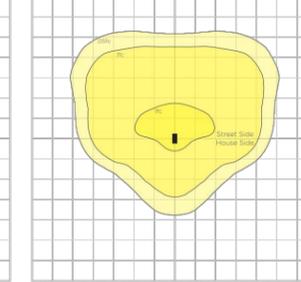
Lineal with 20kA surge suppressor<sup>2)</sup>



Type II Distribution



Type IV Distribution



LINW-M1100-L27-2-COQ-UNV-XX-STD mounted at 16'

IES file download

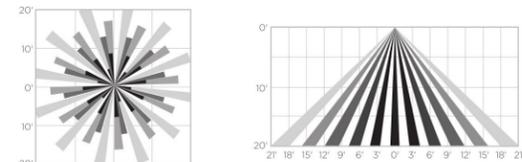
LINW-M1100-L27-4-COQ-UNV-XX-STD mounted at 16'

1. All fixtures are provided with a 12' 18/5 SJEOOW whip. Cap dimming wire if dimming is not required.  
2. 20kA surge suppressor and step down transformers are mounted in pole base when pole is supplied by Structura.  
3. 20kA surge suppressor is only available when pole is supplied by Structura. 10kA surge suppressor supplied as standard in the fixture.  
©2021 STRUCTURA, INC. 104

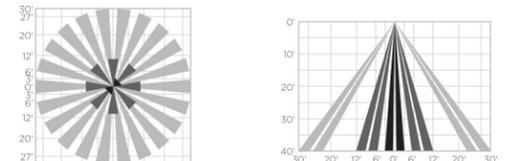
Lineal Wide Motion Sensor Coverage

STRUCTURA

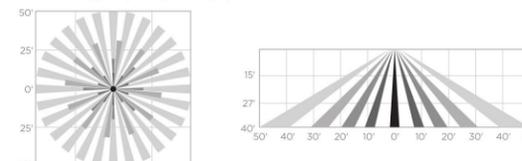
Motion Sensor Type L3 (ordering code MS/L3)



Motion Sensor Type L4 (ordering code MS/L4)



Motion Sensor Type L7 (ordering code MS/L7)



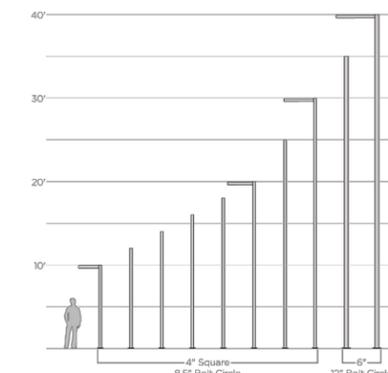
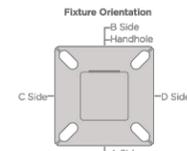
Product specification sheets subject to change. ©2021 STRUCTURA, INC. 105

ST Straight Square Steel Pole

STRUCTURA

FIXTURE TYPE:  
PROJECT NAME:

- FEATURES:**
- Heights available from 10' to 40'
  - Galvanized then polyester powder coat painted (AAMA 2604 standard)
  - Supplied with a two piece casted aluminum base cover
  - Multiple mounting options



ORDERING GUIDE: EXAMPLE: ST-20-C7-A20-B12-STD

15' FOR TYPE AE19

ST 25' BLACK 25'

1	Series	4	A Side Fixture Mounting Height	7	D Side Fixture Mounting Height
ST	Square Steel Pole	Blank A10	No fixture on this side	Blank D**	No fixture on this side
2	Pole Height	A12	10' A Side	**	Specify
10	10'	A**	12' A Side	8	Options
40	40'		Specify	BNR	Barner <sup>3)</sup>
**	Specify	5	B Side Fixture Mounting Height	GFCI	GFCI Box
3	Pole Finish	Blank B**	No fixture on this side	VD	Vibration Damper
****	See color options on finishes technical sheet	**	Specify	9	Special
CSM	Custom Color	6	C Side Fixture Mounting Height	STD	Standard
		C**	No fixture on this side	MOD	Modified
			Specify		

1. Consult factory for allowable EPA for bonnets.  
Product specification sheets subject to change. ©2021 STRUCTURA, INC. 106



CITY OF DE PERE

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

ELECTRICAL CONSTRUCTION DETAILS

NAME: DOWNTOWN SIDEWALK AND STREET LIGHTING  
PROJECT # 22-22

BY	DATE	REVISIONS / ISSUES	
		NO.	DATE
SURVEYED			
DRAWN	KAD	03-2022	
DESIGNED			
CHECKED	CKK	03-2022	

PAGE NO. E502

X:\ENG\Projects\City Projects\2022\Project 22-22 Downtown Sidewalk and Street Lighting\1200-CAD\22-22 CONSTRUCTION DETAILS.dwg