

# CITY OF DE PERE

**PROJECT**

**21-03**

**SEWER LINING**

**BID DATE:**

**FEBRUARY 25, 2021**

**@ 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. 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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**FEBRUARY 4, 2021 – FEBRUARY 11, 2021**

**CITY OF DE PERE**

**ADVERTISEMENT TO BID**

**PROJECT 21-03**

**SEWER LINING**

Sealed proposals will be received by the Board of Public Works of the City of De Pere at the Municipal Service Center, 925 South Sixth Street, De Pere, Wisconsin 54115, until 1:00 PM, Thursday, February 25, 2021, at which time they will be publicly opened and read aloud. The bid opening will occur virtually. See section 00 21 13, Instructions to Bidders for additional information.

Project 21-03 for which proposals are being sought includes the following approximate quantities:

- 11,200 LF of 8” to 30” Cured-In-Place Pipe Lining and Associated Work

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 #7407808 on Quest’s Project Search page. 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.

Each proposal shall be accompanied by a certified check or 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 check or bid bond shall be forfeited to the City of De Pere as liquidated damages.

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

Section 62.15 regarding Public Works.

Section 66.0901(3) regarding Prequalification of Contractor.

Each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Monday, February 22, 2021. Prospective bidders who have previously submitted such forms subsequent to January 1, 2021 will not be required to separately submit such form for this project.

**Project 21-03  
Sewer Lining**

**City of De Pere**

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 4th day of February 2021.

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

Project 21-03

**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.
4. Photos and videos of existing sewers being lined are available for review. Request for the information should be made to Scott Lax at (920) 339-4072 ext. 2232 or at [slax@deperewi.gov](mailto:slax@deperewi.gov).

**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.
- 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 enclosed in a plainly marked package with the Project title (and, if applicable, designated portion of the Project for which the Bid is submitted), name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on outside with the notation "BID ENCLOSED." A mailed Bid shall be addressed to City of De Pere, Municipal Service Center, 925 South Sixth Street, De Pere, WI 54115. Electronically transmitted Bids will not be accepted.
- 14.2 See Bid Form for a list of documents typically required to be submitted with the Bid.
- 14.3 With the current COVID-19 restrictions, The Municipal Service Center is closed for access. In addition to mailing bids per Article 14.1, bids can be submitted via the following processes:
- A. Drop off between 12:30 PM and 12:55 PM, February 25, 2021 at the Municipal Service Center.
  - B. For other drop-off dates and times, contact 920-339-4060 to schedule an appointment.

**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 at the time and place indicated in the Advertisement to Bid. The bid opening can be viewed live via GoToMeeting information shown below. With the current COVID-19 restrictions, the Municipal Service Center is closed for access. An abstract of the amounts of the base bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

The bid opening can be viewed live via GoToMeeting as follows:

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/875901629>

You can also dial in using your phone.

(For supported devices, tap a one-touch number below to join instantly.)

United States (Toll Free): 1 877 568 4106

- One-touch: <tel:+18775684106,,875901629#>

United States: +1 (646) 749-3129

- One-touch: <tel:+16467493129,,875901629#>

Access Code: 875-901-629

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

<https://global.gotomeeting.com/install/875901629>

#### 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 21-03**

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 February 25, 2021 is to furnish and deliver all materials, and to perform and do all work on the project designated by September 30, 2021.

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:

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____

**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: \$\_\_\_\_\_**

**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)

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 21-03  
BID SCHEDULE – UNIT PRICE**

<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>AMOUNT BID</b>
SS-01	EASEMENT/ ALLEY 30" SANITARY SEWER	LF	724	\$ _____	\$ _____
SS-02	EASEMENT 18" SANITARY SEWER	LF	249	\$ _____	\$ _____
SS-03	APOLLO WAY 18" SANITARY SEWER	LF	768	\$ _____	\$ _____
SS-04	LEWIS STREET 12" SANITARY SEWER	LF	929	\$ _____	\$ _____
SS-05	OUTWARD AVENUE 8" SANITARY SEWER	LF	1,288	\$ _____	\$ _____
SS-06	SOUTH SIXTH STREET 8" SANITARY SEWER	LF	1,224	\$ _____	\$ _____
SS-07	WILCOX COURT 8" SANITARY SEWER	LF	1,277	\$ _____	\$ _____
SS-08	SMITS STREET 8" SANITARY SEWER	LF	903	\$ _____	\$ _____
SS-09	N. WINNEBAGO STREET 8" SANITARY SEWER	LF	908	\$ _____	\$ _____
SS-10	N. WASHINGTON STREET 8" SANITARY SEWER	LF	863	\$ _____	\$ _____
SS-11	IRWIN STREET 8" SANITARY SEWER	LF	821	\$ _____	\$ _____
SS-12	ARMOND COURT EASEMENT 8" SANITARY SEWER	LF	311	\$ _____	\$ _____
SS-13	WAUBAUNUQUA TRAIL 8" SANITARY SEWER	LF	1,145	\$ _____	\$ _____
SS-14	BYPASSING 30"/18" SANITARY SEWER (EASEMENT/ALLEY)	LS	1	\$ _____	\$ _____
SS-15	TELEVISIONING SANITARY LATERALS	EA	58	\$ _____	\$ _____
<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 21-03 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:

<u>ITEM</u>	<u>MATERIAL</u>	<u>SUPPLIER</u>
Cured In Place Pipe	_____	_____



SECTION 00 51 00

NOTICE OF AWARD

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

Project Description: 21-03 Sewer Lining

The City has considered the proposal submitted by you dated February 25, 2021 for the above-described project in response to its Advertisement for Bids dated February 4, 2021 and February 11, 2021.

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 \_\_\_th day of \_\_\_\_\_ 2021.

\_\_\_\_\_  
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 21-03 Sewer Lining, 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 February 4, 2021 and February 11, 2021.
- (b) Drawings designated for Project 21-03 Sewer Lining dated February 4, 2021.
- (c) City of De Pere 2020 Construction Specifications.
- (d) Special Provisions dated February 4, 2021.
- (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: 21-03 Sewer Lining

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 21-03, 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.

- 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 21-03, 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		
			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
Total	\$0.00	\$0.00	6. AMOUNT ELIGIBLE TO DATE (Line 4 minus 5).....	\$0.00
NET CHANGE BY CHANGE ORDERS:			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$0.00
			8. AMOUNT DUE THIS APPLICATION (Line 6 minus Line 7).....	\$0.00

CONTRACTOR'S CERTIFICATION

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

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

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

is recommended by: \_\_\_\_\_ (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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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
  - 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, 2020 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. Outward Avenue – 150' S/O Azalea Trail to Westwood Drive (8")
  - b. South Sixth Street – S. Seventh Street to Lande Street (8")
  - c. Wilcox Court – Fox River Drive to Termini (8")
  - d. Smits Street – Ridgeway Drive to Lebrun Street (8")
  - e. North Winnebago Street – 300' S/O Franklin Street to 300' N/O Fulton Street (8")
  - f. North Washington Street – 300' S/O Franklin Street to 300' N/O Fulton Street (8")
  - g. Irwin Street – Waubaunuqua Trail to N. Washington Street (8")
  - h. Armond Court Easement – Armond Court to Irwin Street (8")
  - i. Waubaunuqua Trail – Franklin Street to Ridgway Boulevard (8")
  - j. Lewis Street – S. Ontario Street to S. Superior Street (12")
  - k. Apollo Way – Grant Street to Morning Glory Lane (18")
  - l. 18" Sanitary Sewer Easement – 250' E/O Main Avenue to Main Avenue (18")
  - m. 30" Sanitary Sewer Easement/Alley – Main Avenue to Fourth Street (30")
2. Work will be performed under the following prime contract:
  - a. 21-03 – Sewer Lining

#### B. The Work includes:

1. Sewer cleaning and material disposal
2. Sewer televising
3. Televising sanitary laterals
4. Bypassing (where applicable)
5. Pipe lining – CIPP
6. Final Sewer televising
7. Traffic Control

**1.4 WORK SEQUENCE**

- A. Conduct construction activities to maintain access to businesses and residences throughout construction.
- B. Several of the sewers provide services to businesses. Coordinate the lining with businesses. Lining may need to occur at night to accommodate operations. Impact sewer includes:
  - 1. 30" Sanitary Sewer Easement/Alley – Main Avenue to Fourth Street
- C. The following street should be lined by June 1, 2021.
  - 1. South Winnebago Street – Fulton Street to 300' N/O of Fulton Street
- D. The following street should be lined by July 2, 2021.
  - 1. Apollo Way – Grant Street to Twilight Drive
  - 2. Outward Avenue – Meadow View Lane to Azalea Trail
- E. The following street should be lined after June 1, 2021.
  - 1. Lewis Street – S. Ontario Street to S. Superior Street
- F. Arterial and collector streets will require a traffic control plan. These streets along with work time restrictions are as follows:
  - 1. Ridgeway Drive at Smits Street – No traffic obstructions between 7:00 am to 8:30 am and between 3:30 pm and 5:00 pm.
  - 2. Ridgeway Boulevard at Waubuanuqua Trail – No time restrictions. Maintain one lane of travel in each direction on Ridgeway Boulevard.
  - 3. Grant Street at Apollo Way - No traffic obstructions between 7:00 am to 8:30 am and between 3:30 pm and 5:00 pm. Maintain one lane of traffic in each direction on Grant Street.
  - 4. Main Avenue and Third Street
    - a. Maintain two lanes of traffic for westbound between 7:00 AM and 8:30 AM.
    - b. Maintain two lanes of traffic for northbound Third Street to eastbound Main Avenue between 3:30 PM and 5:30 PM.
  - 5. Lewis Street – No time restrictions. Maintain one lane of travel in each direction on Lewis Street.

**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. The City of De Pere Park Department will trim trees in conflict with construction if the City receives advanced notification. Questions regarding trees or landscaping that is bid as part of this contract can be directed to the Engineer.
- B. Owner has awarded a separate contract for performance of certain construction operations which will be conducted at the Project Site simultaneously with work under this Contract. This Contract includes the following:
  - 1. Project 21-01 – Sewer and Water Relay and Street Resurfacing
    - a. Lewis Street – S. Ontario Street to S. Superior Street – Spot repairs on the sanitary sewer main. Sewer lining shall be completed per Section 1.4 Work Sequence.
    - b. South Winnebago Street – Fulton Street to 300' N/O of Fulton Street – Water main/services and sanitary laterals to be relayed. Street to be resurfaced. Sewer lining shall be completed per Section 1.4 Work Sequence.
  - 2. Project 21-07 – Curb Repair and Street Resurfacing

- a. Outward Avenue – Meadowview Drive to Azalea Trail – Curb and gutter repairs and street to be resurfaced. Sewer lining shall be completed per Section 1.4 Work Sequence.
  - b. Apollo Way – Grant Street to Twilight Drive – Reconstruction of street and street to be resurfaced. Sewer lining shall be completed per Section 1.4 Work Sequence.
- C. 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, Shea Gorzelanczyk, ([sg2528@att.com](mailto:sg2528@att.com)) (920-433-4250)
- 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, ([nationalrelo@centurylink.com](mailto:nationalrelo@centurylink.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 1-week 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 intent of televising the sanitary sewer laterals is to find out if the laterals are active or not. Contractor is not to open the liner to the laterals that are abandoned and/or capped. Any questions on any laterals, contact the Engineer.
- C. If repair by excavation is required based on pre-televising, the City will repair under a separate contract.

- G. The 30" and 18" Easement/Alley sanitary sewer may require a sewage bypass plan. Submit a bypass plan and a traffic control plan for this work. The sewer basin for this area may experience high flows when St Norbert College is in session. Schedule work according. A large portion of the 18" and 30" sanitary sewer near Main Avenue services St Norbert College. St Norbert College has summer classes between May 17, 2021 to August 31, 2021.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 22 06

MEASUREMENT AND PAYMENT PIPE LINING - CIPP

PART 1 – GENERAL

1.1 SUMMARY

- |  |                  |
|--|------------------|
| A. Section includes:                     | <u>Bid Items</u> |
| 1. Pipe Lining – CIPP                    | SP-1 Thru SP-13  |
| 2. Televising Sanitary Laterals          | SP-15            |
| 3. 30"/18" Sanitary Sewer Flow Bypassing | SP-14            |
- 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 sanitary sewer 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. Mobilization.
  3. All labor, material and equipment.
  4. Dust control.

1.3 PIPE LINING - CIPP

- A. The unit price for Sewer Cleaning work includes:
1. General Work Items of Article 1.2.
  2. Cleaning sewer pipe pre-lining and post lining.
  3. Removal of roots, mineral deposits, protruding laterals, and other debris in the sewer pipe.

4. Televising of the sewer pipe pre-lining and post lining.
5. Bypassing existing flow.
6. Installation of liner.
7. Reconnection of all active services.
8. Restoration of surfaces.
9. Cleaning the manhole of lining material.
10. Dispose of material from the sewer pipe.

B. Measurement of payment will be from center of manhole to center of manhole.

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

#### 1.4 TELEVISIONING SANITARY SEWER LATERALS

A. The unit price for Televising Sanitary Sewer Laterals work includes:

1. General Work Items of Article 1.2.
2. Televising of sewer laterals indicated by the Engineer to determine if it is active or not prior of lining the sewer line.

B. Measurement of payment will be the actual number of sanitary laterals televised.

C. The unit of measurement for payment is each.

#### 1.5 30"/18" SANITARY SEWER FLOW BYPASSING

A. The unit price for Internal Grouting work includes:

1. General Work Items of Article 1.2.
2. Bypass plan preparation.
3. Additional piping for bypassing.
4. Pumping equipment if required.
5. Haul trucks if required.
6. Ramps if piping crosses streets.
7. Backup generator if pumping.
8. Additional traffic control.
9. Permanent restoration for areas outside of the construction limits.

B. Measurement of payment will not be made.

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

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.

**1.6 PERMITS FOR PROJECT**

- A. The following permits are being obtained by the Owner:

1. Brown County Highway Department – Grant Street lane closure

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SECTION

**SECTION 33 01 30**

**CURED IN PLACE PIPE (CIPP)**

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes

1. Section includes lining processes for the rehabilitation of existing sanitary sewer mains using cured-in-place pipe.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D543 Test Method for Resistance of Plastics to Chemical Reagents
2. ASTM D638 Test Method for Tensile Properties of Plastics
3. ASTM 790 Test Method for Tensile Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
4. ASTM 903 Standard Test for Delamination of Plastic Composites
5. ASTM F1216 Rehabilitation of Existing Pipelines and Conduits by Inversion and Curing of a Resin-Impregnated Tube
6. ASTM D2990 Standard Test Methods for Flexural Properties of Unreinforced Plastics and Electrical Insulating Materials
7. ASTM 3034 Type PSM Poly (Vinyl/chloride)(PVC) Sewer Pipe and Fittings
8. ASTM D1248 Specification for Polyethylene Plastics molding and Extrusion Materials.
9. ASTM F1504 Standard Specification for Folded Poly (Vinyl/Chloride) (PVC) Pipe for Existing Sewer and Condit Rehabilitation
10. ASTM F1533 Standard Specification for Deformed Polyethylene (PE) Liner
11. ASTM D1784 Standard Specification for Rigid Poly (Vinyl/Chloride) and Chlorinated Poly (Vinyl/Chloride) Components
12. ASTM D2122 Method for Determining Dimensions of Thermoplastic Pipe and Fittings
13. ASTM D3350 Specifications for Polyethylene Plastics Pipe and Fittings Material

1.3 SUBMITTALS

A. Product Data.

1. Manufacturer's product literature and application and installation requirement for materials used in liner.
2. Manufacturer's product certification for materials used in liner.
3. Liner Pipe Thickness Design (Cured-in-Place).
4. Liner Pipe Thickness Design shall be in accordance with Appendix XI of ASTM F1216. In the liner thickness calculations shall be based on the following.
  - a. Fully deteriorated Pipe (No structure support from existing pipe).

- b. Minimum ovality of Host Pipe shall be 2%.
  - c. Height of Groundwater shall be 50% of Pipe Depth.
  - d. The Enhancement Factor (K) shall not be greater than 7.0.
  - e. The Minimum Safety Factor shall be 2.0.
  - f. The Flexural Modulus of Elasticity shall be reduced 50% to account for long term effects and used in the design equation EL.
5. No liner shall be installed until it has been approved for installation.
  6. No liner will be approved for installation until liner thickness calculations have been submitted and reviewed for conformance with the specifications and installation requirements.

**B. Miscellaneous Submittals**

1. Copies of video DVD (MPEG 2 format) of pre-lining and post-lining.
2. Test results required under Part 3.
3. Proposed plan for bypassing sewage during liner installation.
4. Documentation of when liner is impregnated and the potential life of impregnated liner.
5. Provide photographs of existing ground conditions prior to performing sanitary sewer lining.

**1.4 QUALITY ASSURANCE**

**A. Corrosion**

1. Fabricate finished liner from materials which, when cured, will be chemically resistant to withstand internal exposure to domestic sewage.

**B. Manhole Connections**

1. All manhole connections shall be watertight and approved by the Engineer.

**C. Testing**

1. Test finished pipe liner in accordance with this section.

**PART 2 – PRODUCTS**

**2.1 CURED – IN – PLACE PIPE LINER (CIPP LINER)**

**A. Resin**

1. Liner Bag: Polyester resin for general chemical applications.
  - a. Resin shall not contain fillers, except those required for viscosity control or fire retardance. Up to 5% by mass thixotropic agent which will not interfere with visual inspection may be added for viscosity control.
  - b. Resins may contain pigments, dyes or colorants which will not interfere with visual inspection of cured liner.
2. Epoxy resin may be required by contractor, if conditions are deemed to warrant their use.
  - a. Use of up to 40% by mass of suitable fillers may be permitted.

**B. Reinforcing Material**

1. Non-woven needle interlocked polyester felt formed into sheets of required thickness.
2. Felt tubes may be made of single or multiple layer construction with any layer not less than 1.5 mm thick.
3. Mechanical strengthener membrane or strips may be sandwiched in between layers where required to control longitudinal stretching.
4. Polyurethane membrane used during inversion of tube may be left on internal surface of liner after curing.
5. Minimum thickness of bonded polyurethane membrane and inner liner, if used shall be 0.30 mm, +5% and shall not affect structural dimension requirements of cured liner.
6. Minimum liner thickness shall be 6 millimeters, with an allowable spot variation of 10%.

**C. Felt Content**

1. Content shall ensure cured thickness of liner as specified.
2. Thickness of cured liner to be as specified (+10%-4%) and shall not include thickness of polyurethane inner liner.

**D. Resin Content**

1. 10% to 15% by volume greater than volume of felt in liner bag.

**E. Cured liner shall conform to minimal structure standards listed:**

Tensile Strength	ASTM D638	3,000 psi
Flexural Modulus of Elasticity	ASTM D790	250,000 psi
Flexural	ASTM D790	4,500 psi

**F. Fabricate liner to size when installed, will fit internal circumference of pipe, allowance shall be made for circumferential stretching during insertion.**

**G. Meet requirements of ASTM F1216.**

**PART 3 – INSTALLATION**

**3.1 EXAMINATION**

- A. Examine videos for condition of pipe interior before starting work.

**3.2 PREPARATION**

- A. Prior to liner installation, sufficiently clean roots, encrustations of cast iron pipe, mineral deposits, and other debris from sewer line to provide for proper installation of product. Sewer liner to be televised after cleaning.
- B. Remove or repair offset joints, protruding services or collapsed pipe that will prevent insertion of liner.

1. Excavation to make repairs or due to bends in the pipe that are required due to a pre-existing condition will be completed by the City under a separate contract. The City shall be notified of repairs in a timely fashion to facilitate the repair prior to lining.
- C. If Contractor or Engineer determines that existing pipe is 15% or more out of roundness, Contractor shall redesign liner.
  1. Notify Engineer of condition of pipe.
- D. Any visible leaks prior to sewer lining that will prevent proper installation of the liner shall be grouted prior to lining.
- E. Field verify all active sanitary sewer laterals prior to lining.
- F. Sewage Bypassing
  1. Provide for flow of sewage around section of pipe to be lined.
    - a. Pump or bypass lines shall be adequate size and capacity to handle flow.
    - b. Coordinate bypassing operations with Engineer.

### 3.3 INSTALLATION

#### A. CIPP Liner

1. Preparation of liner:
  - a. Designate location where uncured resin in original containers and unimpregnated liner will be vacuum impregnated prior to installation. Contractor shall allow Engineer to inspect materials and “wet out” procedure.
  - b. Resin and catalyst system compatible with requirement of this method shall be used. Quantities of liquid thermosetting materials shall be to manufacturer’s standards to provide lining thickness required.
  - c. Liner tube shall be impregnated with resin not more than seven days before proposed time for installation and stored out of direct sunlight at temperature less than 40°F(4°C).
  - d. Transport resin impregnated liner to site immediately prior to inversion in suitable light-proof container with temperature maintained below 40°F (4°C).
2. Insertion of liner:
  - a. Insert liner through an existing manhole or other access by means of an inversion process and application of hydrostatic head or air insertion sufficient to fully extend liner to next designated manhole or termination point or by means of winching the liner through the last pipe to the next designated manhole or termination point. Lubricant may be used.
3. Curing liner:
  - a. After inversion is complete, provide heat source and water or steam recirculation equipment. Equipment shall be capable of delivering hot water or steam throughout section to uniformly raise water temperature above temperature required to effect cure of resin.

- b. Provide heat source with suitable monitors to gauge temperature of incoming and outgoing water or steam supply. Place second gauge between impregnated liner and pipe invert at remote manhole to determine temperatures during cure. Water or steam temperature in line during cure period shall be as recommended by resin manufacturer.
  - c. Initial cure shall be complete when inspection of exposed portions of liner are hard and sound and remote temperature sensor indicates that temperature is of magnitude to realize an exotherm. Cure period shall be of duration recommended by resin manufacturer.
  - d. Cool hardened liner to temperature below 100°F before relieving static head in inversion standpipe or before relieving steam pressure. Cool down by introduction of cool water or air into CIPP to replace water or steam being drained from downstream end. Care shall be taken in release of static head or steam so that a vacuum will not be developed that could damage newly installed liner.
4. Lateral reinstatement:
- a. Reinstatement all active sanitary laterals after pipe has been cured by using a remote cutting device with a camera.
  - b. After reinstatement all lateral connections shall be brushed/cleaned to remove jagged edges and to smooth the cut edge.

### 3.4 FIELD QUALITY CONTROL

#### A. CIPP Liners

- 1. Finished Liner:
  - a. Liner shall be continuous over entire length of insertion run and be as free as commercially practicable from visual defects such as foreign inclusions, dry spots, pinholes, lifts, and delamination.
  - b. During curing process, gauge water tightness under positive head.
  - c. Liner shall conform to shape of existing pipe before installation and not be out of round by more than 15%.
- 2. Liner Thickness:
  - a. Cured liner shall be accurately measured and shall not be more than 5% thickness specified.
- 3. Felt and Resin Content of Liner:
  - a. Visually inspect liner to ensure number of layers of felt conform to specified number of layers and thickness.
  - b. Calculate resin to felt ration by weight.
  - c. Ratio shall fall in range 1.0.1 to 1.15.1
- 4. Testing:
  - a. Tensile Strength for Force Main Lined Pipe
    - i. Test in accordance with ASTM D638
    - ii. Specimens tested shall be actual thickness of fabricated liner.
    - iii. Do not machine specimen on surface.
    - iv. Tensile strength shall be average of 5 specimens tested.
  - b. Flexural Strength and Modulus of Elasticity.

- i. Test in accordance with ASTM D790.
  - ii. Specimens tested shall be actual thickness of fabricated liner.
  - iii. Do not machine specimen on surface.
  - iv. Make test with smooth (inner) face in compression using 5 specimens.
5. Examination:
  - a. Televis interior of pipe after completion of work but before introducing wastewater flow and provide DVD (MPEG 2) to Engineer.
  - b. Naming convention of the televising inspection report shall follow what is on the Drawings or in the Exhibits.
  - c. Use pan and tilt color 3 lux camera to view the sewer service lateral connection reinstatement.

### 3.5 CLEANING AND RESTORATION

- A. At completion of work, remove rubbish, debris, dirt, equipment and excess material from site. Clean adjacent surfaces soiled by and during course of work.
- B. Restore areas disturbed to original condition.
- C. Repair any surface damage that may occur during the heating of the liner caused by frost heave.

### 3.6 ACCEPTANCE

- A. Grounds for rejection or repair of CIPP shall be:
  1. Excessive bending or flattening of CIPP not related to the existing pipe condition.
  2. Visible infiltration.
  3. Visible damage from the lining procedure.
  4. Bulges/intrusions in the invert of the liner that impede flow and not related to the shape of the existing pipe.
  5. Bulges/intrusions above the invert that extend into the pipe by greater than 10% of the pipe diameter and not related to the shape of the existing pipe.

END OF SECTION

**CITY OF DE PERE  
PROJECT 21-03  
SEWER LINING  
APPENDIX A  
TELEVISIONING REPORTS**

**Upstream MH**

I8-BN6D10

**Downstream MH**

I8-9SXDA A

<b>Date</b> 4/6/2020	<b>Time</b> 1:49 PM	<b>Street</b> Alley n/o Main			<b>Page</b> 1
<b>Sewer Use</b> Sanitary	<b>Pipe Size</b> 30	<b>Pipe ID</b>	<b>Jt. Spacing</b> 2	<b>Shape</b> Circular	<b>Survey Direction</b> Downstream
<b>Pre-Cleaning</b> Jetting	<b>Weather</b> Dry	<b>Media Label</b>	<b>Rim to Invert (U)</b> 10.5	<b>Rim to Invert (D)</b> 16	<b>Flow Direction</b> W
<b>Date Cleaned</b> 4/2/2020	<b>Surveyed Length</b> 241	<b>Total Length</b> 241	<b>Surveyor</b> Steven De Keyser	<b>Certificate No.</b> U-207-4512	<b>Surface</b> Bituminous
<b>Owner</b> City Of De Pere		<b>Material</b> Vitrified Clay Pipe		<b>Project</b> 20-15	
<b>Additional Information</b>					

I8-BN6D10	Ftg. Code	Description	Position	% Cont.	Comment
0.0	AMH	Access Point - Manhole			Starting Manhole: I8-BN6D10 Brick Good
0.0	MWL	Water Level		10	
11.1	TB	Tap, Break-in / Hammer	12		
48.8	TF	Tap, Factory Made	11		
51.6	TBA	Tap, Break-in / Hammer: Active	10		
51.9	TBA	Tap, Break-in / Hammer: Active	2		
51.9	TBI	Tap, Break-in / Hammer: Intruding	2		
78.8	TBA	Tap, Break-in / Hammer: Active	12		
95.0	TB	Tap, Break-in / Hammer	10		
100.6	TF	Tap, Factory Made	10		
143.5	CL	Crack Longitudinal	1		
148.6	TB	Tap, Break-in / Hammer	12		
171.0	FM	Fracture Multiple	10 to 2		
173.6	TB	Tap, Break-in / Hammer	12		
196.6	DAE	Deposits Attached: Encrustation	7 to 5	5	S01
234.8	DAE	Deposits Attached: Encrustation	7 to 5	5	F01
241.0	AMH	Access Point - Manhole			Ending Manhole: I8-9SXDA A Brick Good

I8-9SXDA A

**Upstream MH**

I8-E5XCPD

**Downstream MH**

I8-BN6D1O

Date	Time	Street			Page
4/6/2020	1:27 PM	Alley n/o Main			1
Sewer Use	Pipe Size	Pipe ID	Jt. Spacing	Shape	Survey Direction
Sanitary	30		2	Circular	Upstream
Pre-Cleaning	Weather	Media Label	Rim to Invert (U)	Rim to Invert (D)	Flow Direction
Jetting	Dry		9.5	10.5	W
Date Cleaned	Surveyed Length	Total Length	Surveyor	Certificate No.	Surface
4/2/2020	330	330	Steven De Keyser	U-207-4512	Bituminous
Owner	Material		Project		
City Of De Pere	Vitrified Clay Pipe		20-15		

**Additional Information**

I8-E5XCPD	Ftg.	Code	Description	Position	%	Cont.	Comment
	330.0	AMH	Access Point - Manhole				Ending Manhole: I8-E5XCPD Brick Good
	322.8	CL	Crack Longitudinal	12		F01	
	302.7	TFC	Tap, Factory Made: Capped	2			
	295.3	TBA	Tap, Break-in / Hammer: Active	2			
	260.8	TFC	Tap, Factory Made: Capped	2			
	251.7	TBA	Tap, Break-in / Hammer: Active	2			
	248.0	TBA	Tap, Break-in / Hammer: Active	10			
	241.1	TF	Tap, Factory Made	2			
	233.2	CL	Crack Longitudinal	12		S01	
	227.5	TB	Tap, Break-in / Hammer	1			
	222.0	CL	Crack Longitudinal	12			
	218.9	TBI	Tap, Break-in / Hammer: Intruding	10			
	218.9	TBA	Tap, Break-in / Hammer: Active	10			
	208.6	TFC	Tap, Factory Made: Capped	2			
	203.4	TBA	Tap, Break-in / Hammer: Active	3			
	198.9	TF	Tap, Factory Made	2			
	175.7	TB	Tap, Break-in / Hammer	2			
	171.6	TFC	Tap, Factory Made: Capped	2			
	150.0	TF	Tap, Factory Made	2			
	105.7	TFA	Tap, Factory Made: Active	2			
	94.4	TBA	Tap, Break-in / Hammer: Active	1			
	80.4	TF	Tap, Factory Made	2			
	63.7	CL	Crack Longitudinal	12			
	57.9	CL	Crack Longitudinal	12			
	51.9	TB	Tap, Break-in / Hammer	1			
	44.6	TFC	Tap, Factory Made: Capped	2			
	23.5	TFC	Tap, Factory Made: Capped	2			
	12.0	TBA	Tap, Break-in / Hammer: Active	12			
	0.0	MWL	Water Level		10		
	0.0	AMH	Access Point - Manhole				Starting Manhole: I8-BN6D1O Brick Good

I8-BN6D1O



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> ApolloH8- FJM5DA	<b>Downstream MH</b> H8-FJY7TV	<b>Date</b> 07-07-2014	<b>Time</b> 1:33 PM
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<b>Surveyor</b> DARYL	<b>Street</b> Apollo	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 18	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 319
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 314.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 20%
9.1	SD	Surface Damage		1	SRI S01
9.1	DP	Deposits	12 to 5	1	DAEJ
21.5	DP	Deposits	7 to 5	1	DAEJ AT SOME JOINTS
31.6	GO	General Observation			MWL 10%
38.8	GO	General Observation			MWL 15%
73.1	SC	Service Connection	2		TFA
73.1	GO	General Observation			MWL 10%
77.2	SC	Service Connection	10		TFA?
77.3	DP	Deposits	7 to 10	1	DAE
86.3	I	Infiltration	12 to 2	1	ID
89.9	GO	General Observation			MWL 15%
172.2	I	Infiltration	12 to 2	1	ID
175.9	GO	General Observation			MWL 10%
191.6	GO	General Observation			MWL 15%
200.6	I	Infiltration	1 to 2	1	ID
216.8	I	Infiltration	1 to 2	1	ID
255.7	SC	Service Connection	10		TFA
291.5	GO	General Observation			MWL 35%
294.8	GO	General Observation			MCU
295.5	SD	Surface Damage		1	SRI F01
297.5	GO	General Observation			MWL 30%
314.3	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> ApolloH8- FJY7TV	<b>Downstream MH</b> H8-FKYBAN	<b>Date</b> 07-07-2014	<b>Time</b> 1:01 PM
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<b>Surveyor</b> DARYL	<b>Street</b> Apollo	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 18	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 449
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 449.1
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 15%
0.0	SD	Surface Damage		1	SRI S01
10.6	DP	Deposits	7 to 5	1	DAEJ AT SOME JOINTS
43.4	GO	General Observation			MWL 25%
74.4	SC	Service Connection	2		TFA
80.2	I	Infiltration	1 to 3	1	ID
88.1	I	Infiltration	1 to 2	1	ID
88.1	GO	General Observation			MWL 10%
99.3	GO	General Observation			MWL 15%
127.7	SC	Service Connection	10		TFA?
165.5	I	Infiltration	11 to 1	1	ID
165.5	GO	General Observation			MWL 10%
172.6	SC	Service Connection	2		TFA?
172.6	DP	Deposits	2 to 5	2	DAE
178.9	GO	General Observation			MWL 15%
229.8	SC	Service Connection	10		TFA
238.3	SC	Service Connection	2		TFA
258.4	GO	General Observation			MWL 10%
284.7	GO	General Observation			MWL 15%
295.4	GO	General Observation			MWL 10%
303.8	GO	General Observation			MWL 20%
308.3	SC	Service Connection	10		TFA
308.3	GO	General Observation			MWL 10%
312.5	SC	Service Connection	2		TFA
359.2	GO	General Observation			MWL 15%
381.3	SC	Service Connection	10		TFA
385.7	SC	Service Connection	2		TFA
405.8	GO	General Observation			MWL 20%
416.9	GO	General Observation			MWL 10%
428.4	GO	General Observation			MWL 15%
447.8	SD	Surface Damage		1	SRI F01
449.1	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> ARMAND CT J8-KGFK2B	<b>Downstream MH</b> J8-JI2JAF	<b>Date</b> 07-30-2012	<b>Time</b> 2:05 PM
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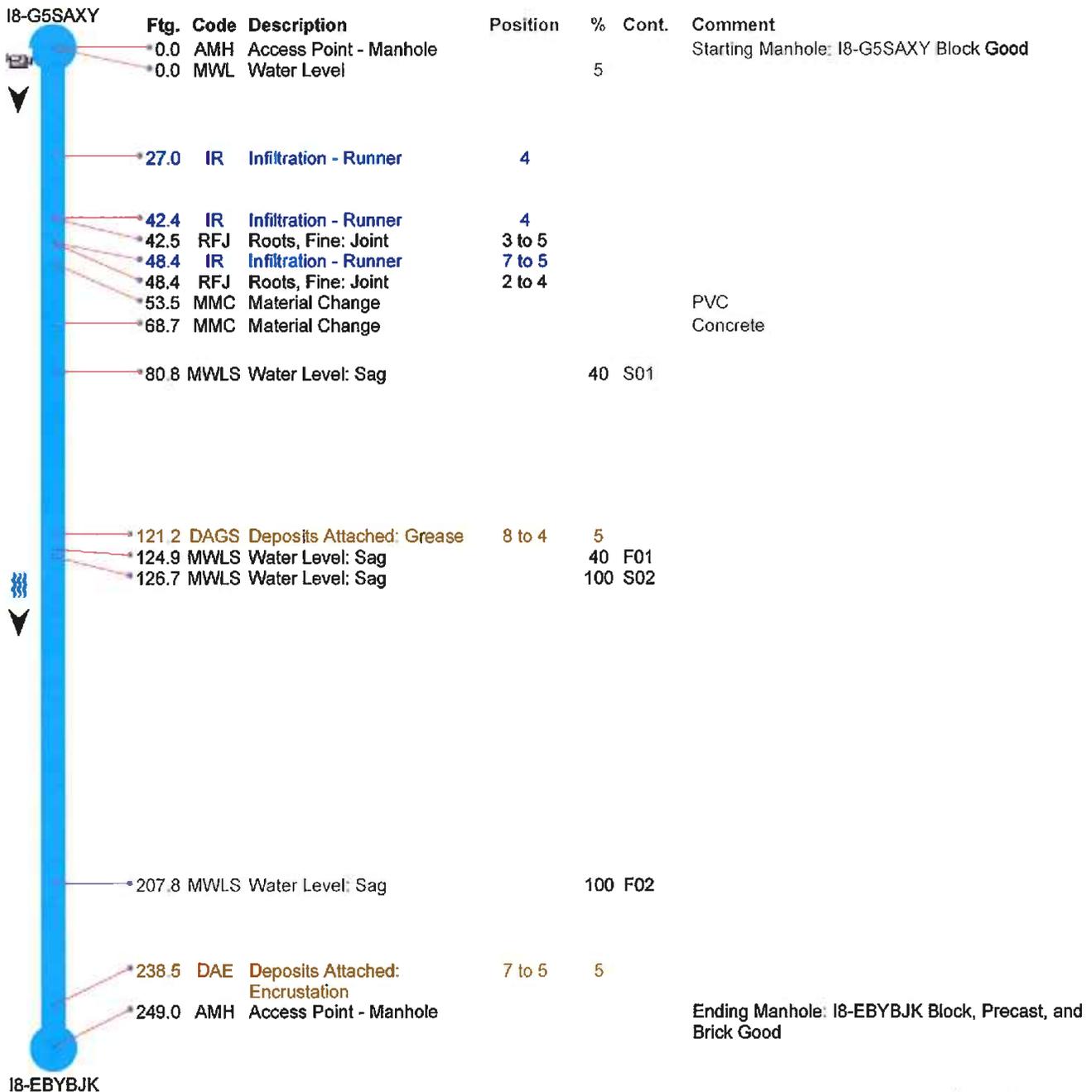
<b>Surveyor</b> DARYL	<b>Street</b> ARMAND CT	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 159
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 156.5
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.4	DP	Deposits	7 to 5	2	DAEJ
4.9	SC	Service Connection	3		TFA
8.4	GO	General Observation			MWL 5%
21.2	GO	General Observation			MWL 10%
33.0	GO	General Observation			MWL 5%
99.6	SC	Service Connection	3		TFC
103.8	SC	Service Connection	9		TFA
105.5	SC	Service Connection	2		TBA?
113.8	GO	General Observation			MWL 10%
121.4	GO	General Observation			MWL 20%
126.2	GO	General Observation			MWL 25%
146.3	GO	General Observation			MWL 30%
150.5	DP	Deposits	11 to 1	1	DAE
155.2	DP	Deposits	7 to 5	2	DAEJ
156.5	IE	End Inspection			

<b>Upstream MH</b> I8-G5SAXY		<b>Downstream MH</b> I8-EBYBJK			
<b>Date</b> 4/6/2020	<b>Time</b> 8:01 AM	<b>Street</b> Esmnt e/o Third			<b>Page</b> 1
<b>Sewer Use</b> Sanitary	<b>Pipe Size</b> 18	<b>Pipe ID</b>	<b>Jt. Spacing</b> 8	<b>Shape</b> Circular	<b>Survey Direction</b> Downstream
<b>Pre-Cleaning</b> Jetting	<b>Weather</b> Dry	<b>Media Label</b>	<b>Rim to Invert (U)</b> 7.5	<b>Rim to Invert (D)</b> 11.5	<b>Flow Direction</b> W
<b>Date Cleaned</b> 4/5/2020	<b>Surveyed Length</b> 249	<b>Total Length</b> 249	<b>Surveyor</b> Tyler Derenne	<b>Certificate No.</b> U-116-07002794	<b>Surface</b> Concrete
<b>Owner</b> City of De Pere		<b>Material</b> Reinforced Concrete Pipe		<b>Project</b> 20-15	
<b>Additional Information</b>					



<b>Upstream MH</b>		<b>Downstream MH</b>			
I8-EBYBJK		I8-E5XCPD			
<b>Date</b>	<b>Time</b>	<b>Street</b>			<b>Page</b>
4/6/2020	7:34 AM	Esmnt n/o Main			1
<b>Sewer Use</b>	<b>Pipe Size</b>	<b>Pipe ID</b>	<b>Jt. Spacing</b>	<b>Shape</b>	<b>Survey Direction</b>
Sanitary	30		6	Circular	Downstream
<b>Pre-Cleaning</b>	<b>Weather</b>	<b>Media Label</b>	<b>Rim to Invert (U)</b>	<b>Rim to Invert (D)</b>	<b>Flow Direction</b>
Jetting	Dry		11.5	9.3	N
<b>Date Cleaned</b>	<b>Surveyed Length</b>	<b>Total Length</b>	<b>Surveyor</b>	<b>Certificate No.</b>	<b>Surface</b>
4/2/2020	152	152	Tyler Derenne	U-116-07002794	Concrete
<b>Owner</b>		<b>Material</b>		<b>Project</b>	
City of De Pere		Vitrified Clay Pipe		20-15	
<b>Additional Information</b>					





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> IRWIN AVE J8- HLKIXG	<b>Downstream MH</b> J8-F6JK4U	<b>Date</b> 07-31-2012	<b>Time</b> 9:14 AM
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<b>Surveyor</b> DARYL	<b>Street</b> IRWIN AVE	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 350
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 140.4
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MMC PVC
3.4	GO	General Observation			MMC CONCRETE
3.4	SD	Surface Damage		1	SAV S01
3.4	GO	General Observation			MWL 10%
46.6	SC	Service Connection	9		TFC
49.5	SC	Service Connection	3		TFC
70.7	SC	Service Connection	3		TFA
91.4	GO	General Observation			MWL 20%
108.1	GO	General Observation			MWL 30%
113.1	SC	Service Connection	9		TFC
113.1	DP	Deposits	4 to 5	1	DAE
117.6	GO	General Observation			MWL 20%
128.7	GO	General Observation			MWL 25%
136.8	DP	Deposits	3 to 5	1	DAE
140.0	DP	Deposits	7 to 9	1	DAE
140.4	DP	Deposits	5 to 7	2	DSZ
140.4	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
140.4	IE	End Inspection			
140.4	SD	Surface Damage		1	SAV F01



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> IRWIN AVE J8-IZO18J	<b>Downstream MH</b> J8-HLKIXG	<b>Date</b> 07-30-2012	<b>Time</b> 1:27 PM
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<b>Surveyor</b> DARYL	<b>Street</b> IRWIN AVE	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 201
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 200.4
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Fig.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	SD	Surface Damage		1	SAV S01
0.0	GO	General Observation			MWL 5%
1.9	DP	Deposits	7 to 5	1	DAEJ
4.1	R	Roots	7 to 2	1	RFJ
7.3	R	Roots	9 to 5	1	RFJ
10.3	R	Roots	7 to 4	2	RFJ
16.5	R	Roots	9 to 4	2	RFJ
19.4	R	Roots	12 to 5	1	RFJ
22.5	R	Roots	8 to 4	1	RFJ
26.1	SC	Service Connection	11		TBAI
29.2	SC	Service Connection	11		TFC
53.4	SC	Service Connection	1		TFA?
71.5	SC	Service Connection	1		TFA?
84.5	GO	General Observation			MWL 10%
120.1	DP	Deposits	7 to 5	1	DAE
121.8	DP	Deposits	3 to 5	1	DAEJ
127.8	DP	Deposits	3 to 5	1	DAEJ
130.4	GO	General Observation			MWL 5%
143.8	SC	Service Connection	9		TFC
150.1	SC	Service Connection	3		TFA?
152.3	GO	General Observation			MWL 15%
157.8	GO	General Observation			MWL 5%
195.1	SD	Surface Damage		1	SAV F01
195.1	GO	General Observation			MMC PVC
200.4	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> IRWIN AVE J8- KUVHB2	<b>Downstream MH</b> J8-IZOI8J	<b>Date</b> 07-30-2012	<b>Time</b> 1:00 PM
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<b>Surveyor</b> DARYL	<b>Street</b> IRWIN AVE	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 270
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 269.8
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	SD	Surface Damage		1	SAV S01
4.6	GO	General Observation			MWL 5%
65.2	DP	Deposits	3 to 5	1	DAE
72.8	DP	Deposits	3 to 5	1	DAEJ
73.6	SC	Service Connection	11		TFC
106.8	SC	Service Connection	2		TFC
156.0	DP	Deposits	7 to 6	1	DAE
158.6	SC	Service Connection	1		TFA
158.6	GO	General Observation	11	1	FL
158.6	DP	Deposits	7 to 5	1	DAE
170.4	R	Roots	1 to 5	1	RFB
171.5	SC	Service Connection	11		TBAI
173.6	SC	Service Connection	11		TFC
237.1	SC	Service Connection	10		TFA
247.7	GO	General Observation			MWL 20%
254.2	R	Roots	4 to 5	1	RFJ
254.2	GO	General Observation			MWL 5%
257.4	R	Roots	7 to 10	1	RFJ
257.4	R	Roots	1 to 4	1	RFJ
260.6	R	Roots	8 to 11	1	RFJ
260.6	R	Roots	2 to 5	1	RFJ
260.6	DP	Deposits	3 to 5	1	DAE
261.5	SC	Service Connection	2		TFA?
267.4	DP	Deposits	7 to 5	2	DAEJ
267.4	SD	Surface Damage		1	SAV F01
269.8	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> IRWIN AVE 2 J8-HLKIXG	<b>Downstream MH</b> J8-F6JK4U	<b>Date</b> 07-31-2012	<b>Time</b> 1:13 PM
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<b>Surveyor</b> DARYL	<b>Street</b> IRWIN AVE	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 350
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<b>Comments</b> UPSTREAM DSGV IN 206' OF PIPE	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 206.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	SD	Surface Damage		1	SAV S01
1.9	GO	General Observation			MWL 20%
48.3	SC	Service Connection	9		TFC
51.5	SC	Service Connection	3		TFC
72.0	GO	General Observation			MWL 35%
100.1	GO	General Observation			MWL 25%
109.3	SC	Service Connection	9		TFC
170.1	SC	Service Connection	9		TFC
173.2	SC	Service Connection	3		TFC
182.5	GO	General Observation	10		TFA?
206.6	DP	Deposits	5 to 7	2	DSZ
206.6	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
206.6	SD	Surface Damage		1	SAV F01
206.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> LewisJ8-2LD9BK	<b>Downstream MH</b> J8-1H49C3	<b>Size</b> 12	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 145	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis	<b>Location Details</b>
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<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/14/2015	<b>Time</b> 13:51	<b>Length Surveyed</b>
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**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: J8-1H49C3
0.0	MVL	Water Level		
0.0	MMC	Material Change		PVC
2.8	MMC	Material Change		CONCRETE
2.8	SRI	Surface: Roughness Increased	6 to 6	S01
2.8	JOM	Joint Offset (displaced): Medium		
8.2	MGO	General Observation		SMALL CRACKS IN SOME PIPE
16.3	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
77.9	TBA	Tap, Break-in / Hammer: Active	10	ACTIVE?
127.5	TFA	Tap, Factory Made: Active	9	ACTIVE
130.4	TFA	Tap, Factory Made: Active	3	ACTIVE?
138.0	SRI	Surface: Roughness Increased	6 to 6	F01
138.0	MMC	Material Change		PVC
143.2	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> LewisJ8-7EA9AK	<b>Downstream MH</b> J8-68M9AU	<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Total Length</b> 150	<b>City</b> City of DePere
<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/12/2015	<b>Time</b> 12:53	<b>Length Surveyed</b>

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisJ8-7EA9AK
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
3.7	MWL	Water Level		
7.7	MWL	Water Level		
8.2	MMC	Material Change		CLAY TILE
8.2	CH2	Crack Longitudinal Hinge, 2	12 to 3	
8.8	JOM	Joint Offset (displaced): Medium		
10.1	MGO	General Observation		CRACKS IN SOME PIPE
10.1	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
15.5	RFJ	Roots, Fine: Joint	7 to 9	
35.1	TBI	Tap, Break-in / Hammer: Intruding	10	
38.4	MWL	Water Level		
43.1	MWL	Water Level		
60.9	TBI	Tap, Break-in / Hammer: Intruding	2	
89.5	TFC	Tap, Factory Made: Capped	10	
147.8	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> LewisJ8-8N999Y	<b>Downstream MH</b> J8-7EA9AK	<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Total Length</b> 162	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis	<b>Location Details</b>
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<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/12/2015	<b>Time</b> 12:19	<b>Length Surveyed</b>
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**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: J8-7EA9AK
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
3.5	MMC	Material Change		CLAY TILE
6.1	RFJ	Roots, Fine: Joint	7 to 8	
7.1	CL	Crack Longitudinal	1	
7.1	CS	Crack Spiral	11 to 1	
12.1	RFJ	Roots, Fine: Joint	7 to 8	
12.1	RFJ	Roots, Fine: Joint	3 to 4	
14.4	RFJ	Roots, Fine: Joint	4 to 5	
42.7	MGO	General Observation		SMALL CRACKS IN SOME PIPE
62.3	TFA	Tap, Factory Made: Active	2	TFA?
66.3	TFC	Tap, Factory Made: Capped	10	
124.9	TFB	Tap, Factory Made: Abandoned	3	
129.0	MWL	Water Level		
154.4	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> LewisJ8-50F9B0	<b>Downstream MH</b> J8-3U89B7	<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Total Length</b> 152	<b>City</b> City of DePere
<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/12/2015	<b>Time</b> 13:36	<b>Length Surveyed</b>

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisJ8-50F9B0
0.0	MWL	Water Level		
0.0	FM	Fracture Multiple	7 to 5	
0.0	CM	Crack Multiple	6 to 6	S01
11.8	TFA	Tap, Factory Made: Active	3	ACTIVE?
11.8	CM	Crack Multiple	6 to 6	F01
13.5	TFC	Tap, Factory Made: Capped	10	
22.9	DAE	Deposits Attached: Encrustation	7 to 9	
29.9	MGO	General Observation		SMALL CRACKS IN SOME PIPE
45.8	RFJ	Roots, Fine: Joint	8 to 9	
45.8	RFJ	Roots, Fine: Joint	3 to 4	
52.0	RFJ	Roots, Fine: Joint	7 to 10	
52.0	RFJ	Roots, Fine: Joint	3 to 5	
54.2	TBI	Tap, Break-in / Hammer: Intruding	10	
54.2	RFC	Roots, Fine: Connection	7 to 9	
54.2	RFJ	Roots, Fine: Joint	2 to 4	
54.2	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



**City of DePere**  
 925 South Sixth Street  
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<b>Upstream MH</b> Lewis2J8-50F9B0	<b>Downstream MH</b> J8-3U89B7	<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Total Length</b> 152	<b>City</b> City of DePere
<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis		<b>Location Details</b>	
<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/13/2015	<b>Time</b> 12:37	<b>Length Surveyed</b>

**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: J8-3U89B7
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
4.9	MMC	Material Change		CLAY TILE
4.9	JOM	Joint Offset (displaced): Medium		
26.5	CL	Crack Longitudinal	12	
28.6	CM	Crack Multiple	7 to 5	CRACKS IN SOME PIPE
34.5	RFJ	Roots, Fine: Joint	7 to 9	
36.4	MMC	Material Change		PVC
39.4	MMC	Material Change		CLAY TILE
41.6	TFA	Tap, Factory Made: Active	10	ACTIVE?
60.8	TBA	Tap, Break-in / Hammer: Active	10	ACTIVE?
80.0	TFC	Tap, Factory Made: Capped	2	
84.9	RFJ	Roots, Fine: Joint	7 to 8	
84.9	RFJ	Roots, Fine: Joint	3 to 5	
90.3	RFJ	Roots, Fine: Joint	7 to 9	
91.8	RFJ	Roots, Fine: Joint	7 to 8	
91.8	RFJ	Roots, Fine: Joint	3 to 5	
93.7	TBI	Tap, Break-in / Hammer: Intruding	2	
93.7	RFC	Roots, Fine: Connection	3 to 4	
93.7	MSA	Survey Abandoned		CAN'T GET CAMERA BY ROOTS



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
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<b>Upstream MH</b>	<b>Downstream MH</b>	<b>Size</b>	<b>Material</b>	<b>Total Length</b>	<b>City</b>
LewisJ8-68M9AU	J8-50F9B0	12	Clay Tile	159	City of DePere

<b>Surveyor's Name</b>	<b>Certificate Number</b>	<b>Street Address</b>	<b>Location Details</b>
Daryl	U-312-14702	Lewis	

<b>Direction</b>	<b>Purpose</b>	<b>Weather</b>	<b>Date</b>	<b>Time</b>	<b>Length Surveyed</b>
Downstream	Maintenance Related	Dry	08/12/2015	13:15	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisJ8-68M9AU
0.0	MWL	Water Level		
5.8	CL	Crack Longitudinal	12	
7.6	CL	Crack Longitudinal	12	
9.8	MGO	General Observation		SMALL CRACKS IN SOME PIPE
20.6	TBC	Tap, Break-in / Hammer: Capped	10	
23.9	MMC	Material Change		PVC
24.6	JOM	Joint Offset (displaced): Medium		
34.5	MMC	Material Change		CLAY TILE
49.6	CM	Crack Multiple	7 to 5	CM IN MOST PIPE
88.8	TFC	Tap, Factory Made: Capped	10	
93.0	TFC	Tap, Factory Made: Capped	2	
102.3	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
137.3	FM	Fracture Multiple	8 to 5	
152.6	FM	Fracture Multiple	7 to 5	
157.3	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
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<b>Upstream MH</b> LewisJ8-3U89B7	<b>Downstream MH</b> J8-2LD9BK	<b>Size</b> 12	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 161	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Lewis	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/21/2015	<b>Time</b> 07:07	<b>Length Surveyed</b>
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**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisJ8-3U89B7
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
4.7	MMC	Material Change		CONCRETE
4.7	DAE	Deposits Attached: Encrustation	7 to 5	
4.7	MWL	Water Level		
4.7	SRI	Surface: Roughness Increased	6 to 6	S01
7.9	DAE	Deposits Attached: Encrustation	7 to 5	S02
9.2	CL	Crack Longitudinal	12	
16.6	CH3	Crack Longitudinal Hinge, 3	9 to 3	
21.5	CH4	Crack Longitudinal Hinge, 4	6 to 6	
25.1	CH4	Crack Longitudinal Hinge, 4	6 to 6	
29.2	TFC	Tap, Factory Made: Capped	3	
29.2	MGO	General Observation		CRACKS IN MOST PIPE
32.2	TFC	Tap, Factory Made: Capped	10	
104.7	DAE	Deposits Attached: Encrustation	7 to 5	F02
109.0	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
152.0	SRI	Surface: Roughness Increased	6 to 6	F01
152.0	MMC	Material Change		PVC
157.6	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WASHINGTON ST J8-DRNH7T	<b>Downstream MH</b> J8-EKNIVO	<b>Date</b> 07-31-2012	<b>Time</b> 11:53 AM
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<b>Surveyor</b> DARYL	<b>Street</b> N WASHINGTON ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 240
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 237.4
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
1.9	SD	Surface Damage		1	SRI S01
17.2	GO	General Observation			MWL 5%
32.6	DP	Deposits	7 to 12	1	DAEJ
53.4	DP	Deposits	7 to 5	1	DAEJ
54.4	SC	Service Connection	3		TFA
57.6	SC	Service Connection	9		TFA
57.6	SD	Surface Damage		1	SRI F01
57.6	SD	Surface Damage		1	SAV S02
61.4	C	Crack	12	1	CL
77.4	GO	General Observation			MWL 25%
86.5	GO	General Observation			MWL 10%
89.8	R	Roots	7 to 8	1	RFJ
94.4	GO	General Observation			MWL 5%
118.1	SC	Service Connection	3		TFC
118.1	GO	General Observation			MWL 25%
121.1	SC	Service Connection	9		TFC
130.8	GO	General Observation			MWL 5%
172.6	SC	Service Connection	3		TFA
178.7	SC	Service Connection	9		TFA
184.8	SC	Service Connection	3		TFC
192.9	GO	General Observation	7	1	FL
192.9	GO	General Observation	4	1	FL
205.2	GO	General Observation			MWL 10%
223.3	DP	Deposits	7 to 5	1	DAEJ
237.3	SD	Surface Damage		1	SAV F02
237.4	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WASHINGTON ST J8-EKNIVO	<b>Downstream MH</b> J8-F6JK4U	<b>Date</b> 07-31-2012	<b>Time</b> 12:16 PM
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<b>Surveyor</b> DARYL	<b>Street</b> N WASHINGTON ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 181
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 180.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	SD	Surface Damage		1	SAV S01
0.0	GO	General Observation			MWL 20%
2.2	DP	Deposits	3 to 5	1	DAEJ
5.0	GO	General Observation			MWL 25%
33.6	GO	General Observation			MWL 10%
68.7	SC	Service Connection	9		TFA
71.7	SC	Service Connection	3		TFC
78.0	SC	Service Connection	3		TBA
114.7	SC	Service Connection	9		TBA
123.2	GO	General Observation	4	1	FL
126.0	SC	Service Connection	9		TFC
126.0	GO	General Observation			MWL 25%
129.1	SC	Service Connection	3		TFC
129.7	SC	Service Connection	3		TBAI?
134.8	GO	General Observation			MWL 40%
141.9	GO	General Observation			MWL 25%
160.4	GO	General Observation			MWL 20%
175.4	GO	General Observation			MWL 10%
179.2	SD	Surface Damage		2	SAV F01
180.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WASHINGTON ST J8-F6JK4U	<b>Downstream MH</b> J8-FSXLDLDM	<b>Date</b> 07-31-2012	<b>Time</b> 1:50 PM
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<b>Surveyor</b> DARYL	<b>Street</b> N WASHINGTON ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 180
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 178
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	SD	Surface Damage		1	SAV S01
0.9	SC	Service Connection	9		TFA
2.1	GO	General Observation			MWL 25%
12.7	GO	General Observation			MWL 10%
23.8	SC	Service Connection	9		TFC
25.3	GO	General Observation			MWL 25%
31.6	GO	General Observation			MWL 10%
42.1	GO	General Observation			MWL 20%
45.1	SC	Service Connection	9		TBAI
57.9	SC	Service Connection	2		TFA?
61.2	GO	General Observation			MWL 10%
66.4	SC	Service Connection	3		TFC
69.6	SC	Service Connection	9		TFC
72.0	GO	General Observation			MWL 35%
90.5	GO	General Observation			MWL 25%
124.1	SC	Service Connection	3		TFC
127.1	SC	Service Connection	9		TFC
148.0	GO	General Observation			MWL 30%
153.9	DP	Deposits	7 to 4	1	DAEJ
157.7	SC	Service Connection	3		TFA
160.4	DP	Deposits	7 to 5	1	DAEJ
172.4	R	Roots	2 to 5	2	RFJ
178.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WASHINGTON ST J8-GP6N6V	<b>Downstream MH</b> J8-FSXLDLDM	<b>Date</b> 08-01-2012	<b>Time</b> 8:14 AM
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<b>Surveyor</b> DARYL	<b>Street</b> N WASHINGTON ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 262
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 260.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
11.5	GO	General Observation			MWL 25%
21.0	GO	General Observation			MWL 5%
27.5	SC	Service Connection	3		TFA?
27.5	R	Roots	3 to 5	1	RFL
30.0	R	Roots	3 to 5	1	RFJ
33.6	SC	Service Connection	10		TBA
33.6	R	Roots	7 to 9	1	RFL
33.6	GO	General Observation			MWL 25%
34.7	SD	Surface Damage		1	SRI S01
40.2	GO	General Observation			MWL 5%
42.1	R	Roots	12 to 5	1	RFJ
48.2	R	Roots	7 to 9	1	RFJ
48.2	GO	General Observation			MWL 25%
51.2	DP	Deposits	3 to 5	1	DAE
57.1	R	Roots	12 to 5	1	RFJ
57.1	GO	General Observation			MWL 10%
60.4	R	Roots	7 to 1	1	RFJ
73.4	SC	Service Connection	3		TFA
81.7	SD	Surface Damage		1	SRI F01
81.7	SD	Surface Damage		1	SAV S02
88.5	SC	Service Connection	3		TFC
90.0	GO	General Observation			MWL 5%
94.8	SC	Service Connection	9		TFC
98.0	SC	Service Connection	9		TBA
117.5	GO	General Observation			MWL 10%
138.3	GO	General Observation			MWL 5%
149.2	SC	Service Connection	3		TFC
154.9	SC	Service Connection	3		TBA
155.0	SC	Service Connection	9		TFC
162.4	GO	General Observation			MWL 10%
170.7	DP	Deposits	4 to 5	1	DAE
172.3	DP	Deposits	6 to 8	1	DAEJ
172.3	GO	General Observation			MWL 25%
176.9	GO	General Observation			MWL 50%
182.9	DP	Deposits	3 to 5	1	DAE
182.9	GO	General Observation			MWL 30%
202.6	GO	General Observation			MWL 10%
215.8	SC	Service Connection	10		TFA?
236.1	GO	General Observation			MWL 25%
244.4	GO	General Observation			MWL 40%
259.3	SD	Surface Damage		1	SAV F02
260.6	IE	End Inspection			



<b>Owner</b>	<b>Customer</b>	<b>Upstream MH</b>	<b>Downstream MH</b>	<b>Date</b>	<b>Time</b>
City of DePere	ENGINEERING	N WINNEBAGO ST J8-C5SK37	J8-DE3MKS	08-01-2012	12:44 PM

<b>Surveyor</b>	<b>Street</b>	<b>City</b>	<b>Weather</b>
DARYL	N WINNEBAGO ST	City of DePere	Dry

<b>Size</b>	<b>Material</b>	<b>Sewer Use</b>	<b>Purpose</b>	<b>Length</b>
8	Concrete segments (unbolted)	Sanitary	Maintenance Related	360

<b>Comments</b>	<b>Pre-Cleaning</b>	<b>(TV'd)</b>
	Jetting	359.8

Ftg.	Code	Description	Position	Severity	Comment
1.0	IB	Begin Inspection			
3.2	GO	General Observation			MWL 5%
11.0	DP	Deposits	4 to 8	2	DSC
34.8	DP	Deposits	7 to 9	1	DAEJ AT MOST JOINTS
34.8	DP	Deposits	4 to 5	1	DAEJ AT MOST JOINTS
50.2	R	Roots	7 to 9	1	RFJ
57.2	SC	Service Connection	2		TFA
72.5	SD	Surface Damage		1	SAV S01
86.5	R	Roots	4 to 5	1	RFJ
89.5	R	Roots	3 to 5	1	RFJ
89.5	GO	General Observation			MWL 10%
92.4	R	Roots	8 to 10	1	RFJ
101.6	R	Roots	7 to 9	1	RFJ
101.6	GO	General Observation			MWL 5%
104.7	R	Roots	7 to 9	1	RFJ
104.7	R	Roots	4 to 5	1	RFJ
107.6	R	Roots	7 to 9	1	RFJ
107.6	R	Roots	2 to 5	1	RFJ
110.6	R	Roots	3 to 5	1	RFJ
113.5	R	Roots	3 to 5	1	RFJ
116.7	R	Roots	4 to 5	1	RFJ
119.8	R	Roots		1	RFJ AT MOST JOINTS
120.5	SC	Service Connection	10		TFC
123.6	SC	Service Connection	2		TFC
126.4	SC	Service Connection	1		TBA
126.4	R	Roots	3 to 5	1	RFL
134.9	R	Roots	7 to 9	1	RFJ
134.9	R	Roots	3 to 5	2	RFJ
138.1	R	Roots	6 to 9	2	RFJ
138.1	R	Roots	3 to 5	2	RFJ
141.1	R	Roots	7 to 9	2	RFJ AT MOST JOINTS
141.1	R	Roots	3 to 5	2	RFJ AT MOST JOINTS
169.1	SC	Service Connection	10		TFA?
169.1	R	Roots	8 to 11	1	RFL
172.0	SC	Service Connection	2		TFA
174.4	GO	General Observation			MWL 15%
198.9	GO	General Observation			MWL 5%
219.2	GO	General Observation			MWL 10%
227.9	GO	General Observation			MWL 5%
241.5	SC	Service Connection	9		TFC
241.5	GO	General Observation			MWL 15%
244.6	SC	Service Connection	2		TFA
250.4	SC	Service Connection	10		TFA
256.1	GO	General Observation			MWL 5%
273.2	GO	General Observation			MWL 10%
299.4	SC	Service Connection	9		TFA
301.9	SC	Service Connection	2		TFC
305.7	GO	General Observation			MWL 5%
321.0	GO	General Observation			MWL 20%
330.2	GO	General Observation			MWL 10%
357.7	SD	Surface Damage		1	SAV F01
359.8	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WINNEBAGO ST J8-EAROFO	<b>Downstream MH</b> J8-DE3MKS	<b>Date</b> 08-01-2012	<b>Time</b> 11:42 AM
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<b>Surveyor</b> DARYL	<b>Street</b> N WINNEBAGO ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 268
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 266.5
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
8.9	DP	Deposits	7 to 8	1	DAEJ
12.0	DP	Deposits	7 to 9	1	DAEJ
12.0	DP	Deposits	3 to 5	1	DAEJ
15.9	C	Crack	11	1	CL
19.2	C	Crack	12	1	CL
26.9	GO	General Observation			MWL 5%
36.9	SC	Service Connection	3		TFA
36.9	GO	General Observation			MWL 15%
39.9	SC	Service Connection	9		TFC
48.0	DP	Deposits	7 to 8	1	DAEJ
48.0	DP	Deposits	4 to 5	1	DAEJ
53.7	GO	General Observation			MWL 5%
57.3	DP	Deposits	7 to 9	1	DAEJ AT MOST JOINTS
57.3	DP	Deposits	3 to 5	1	DAEJ AT MOST JOINTS
57.3	SD	Surface Damage		1	SRI S01
82.5	SC	Service Connection	3		TFA
82.5	SD	Surface Damage		1	SRI F01
82.5	SD	Surface Damage		1	SAV S02
82.5	GO	General Observation			MWL 10%
85.5	SC	Service Connection	2		TFC
88.8	SC	Service Connection	9		TFA?
93.2	GO	General Observation			MWL 5%
103.1	DP	Deposits	9 to 10	1	DAE
103.1	GO	General Observation			MWL 10%
111.2	GO	General Observation			MWL 5%
143.0	SC	Service Connection	2		TFC
145.9	SC	Service Connection	9		TFA
155.8	SC	Service Connection	3		TBA
156.7	DP	Deposits	3 to 4	1	DAE
166.3	GO	General Observation			MWL 25%
194.5	GO	General Observation			MWL 5%
200.4	SC	Service Connection	2		TFA?
203.3	SC	Service Connection	9		TFC
218.1	GO	General Observation			MWL 10%
226.0	GO	General Observation			MWL 20%
233.8	GO	General Observation			MWL 35%
258.2	GO	General Observation			MWL 50%
264.6	SD	Surface Damage		1	SAV F02
266.5	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> N WINNEBAGO ST J8-B7BI5I	<b>Downstream MH</b> J8-C5SK37	<b>Date</b> 08-09-2012	<b>Time</b> 7:53 AM
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<b>Surveyor</b> DARYL	<b>Street</b> N WINNEBAGO ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 280
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 279
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.3	C	Crack	12	1	CL
3.4	C	Crack	11	1	CL
6.4	C	Crack	12	1	CL
9.3	C	Crack	12	1	CL
23.0	GO	General Observation			MWL 25%
30.3	R	Roots	7 to 5	1	RFJ
30.3	GO	General Observation			MWL 10%
34.1	SC	Service Connection	10		TBA
36.3	GO	General Observation			MWL 5%
36.3	SD	Surface Damage		2	SRI S01
39.5	DP	Deposits	4 to 5	1	DAE
40.3	SC	Service Connection	9		TFC
42.5	DP	Deposits	7 to 9	1	DAE
42.5	DP	Deposits	4 to 5	1	DAE
43.7	SC	Service Connection	1		TFA
45.6	DP	Deposits	4 to 9	1	DAEJ
48.4	DP	Deposits	7 to 8	1	DAEJ
48.4	DP	Deposits	4 to 5	1	DAEJ
54.3	DP	Deposits	7 to 8	1	DAEJ AT MOST JOINTS
54.3	DP	Deposits	4 to 5	1	DAEJ AT MOST JOINTS
87.9	R	Roots	12 to 1	1	RFJ
90.9	R	Roots	3 to 5	1	RFJ
93.9	R	Roots	7 to 9	1	RFJ
101.1	SC	Service Connection	9		TFC
103.8	SC	Service Connection	9		TBAI
103.8	R	Roots	7 to 8	1	RFL
104.2	SC	Service Connection	3		TFA
104.2	GO	General Observation			MWL 20%
106.0	DP	Deposits	2 to 4	1	DAE
106.0	R	Roots	11 to 12	1	RFJ
109.5	R	Roots	11 to 1	1	RFJ
120.9	GO	General Observation			MWL 5%
128.2	GO	General Observation			MWL 35%
136.3	GO	General Observation			MWL 10%
164.6	SC	Service Connection	9		TFA
167.8	SC	Service Connection	3		TFA
167.8	GO	General Observation			MWL 25%
176.9	GO	General Observation			MWL 10%
198.7	GO	General Observation			MWL 25%
228.4	SC	Service Connection	3		TFA
235.5	GO	General Observation			MWL 10%
246.4	GO	General Observation			MWL 25%
277.1	SD	Surface Damage		1	SRI F01
279.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> OutwardH7- JNXAEQ	<b>Downstream MH</b> H7-K6PBIT	<b>Date</b> 08-14-2013	<b>Time</b> 7:28 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Outward	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 159
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 159.4
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MMC PVC
1.0	GO	General Observation			MMC CONCRETE
1.0	GO	General Observation			MWL 15%
2.7	GO	General Observation			MWL 5%
23.8	SC	Service Connection	9		TFA
81.9	SC	Service Connection	3		TFA
81.9	GO	General Observation			MWL 10%
90.9	GO	General Observation			MWL 5%
143.8	SD	Surface Damage		1	SRI S01
154.4	DP	Deposits	7 to 5	2	DAEJ
157.4	SD	Surface Damage		1	SRI F01
159.4	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> OutwardH7- K6PBIT	<b>Downstream MH</b> H7-LB4E08	<b>Date</b> 08-13-2013	<b>Time</b> 1:37 PM
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<b>Surveyor</b> DARYL	<b>Street</b> Outward	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 353
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 354.9
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
2.1	DP	Deposits	7 to 5	2	DAEJ
5.0	SD	Surface Damage		1	SRI S01
49.2	GO	General Observation			MWL 10%
56.8	GO	General Observation			MWL 5%
84.7	GO	General Observation			MWL 10%
92.9	DP	Deposits	4 to 5	1	DAE
99.5	GO	General Observation			MWL 5%
125.0	SC	Service Connection	1		TFA
172.7	DP	Deposits	7 to 2	2	DAEJ
202.9	DP	Deposits	7 to 5	1	DAEJ
212.8	DP	Deposits	1 to 3	1	DAEJ
218.0	DP	Deposits	7 to 5	2	DAEJ
219.8	DP	Deposits	7 to 5	1	DAEJ
222.9	DP	Deposits	7 to 12	1	DAEJ
226.1	DP	Deposits	11 to 5	1	DAEJ
233.1	DP	Deposits	3 to 5	1	DAEJ
241.4	SC	Service Connection	1		TFA
249.4	DP	Deposits	7 to 10	1	DAE
250.4	DP	Deposits	2 to 5	1	DAE
271.4	DP	Deposits	7 to 5	1	DAEJ
294.4	GO	General Observation			MWL 10%
297.9	GO	General Observation			MWL 20%
299.0	DP	Deposits	8 to 11	1	DAEJ
304.7	GO	General Observation			MWL 10%
311.0	DP	Deposits	7 to 5	1	DAEJ
311.0	GO	General Observation			MWL 15%
316.4	GO	General Observation			MWL 10%
322.3	DP	Deposits	7 to 12	1	DAEJ
322.3	DP	Deposits	1 to 5	1	DAEJ
323.3	GO	General Observation			MWL 15%
327.9	SC	Service Connection	10		TFA?
327.9	DP	Deposits	7 to 9	2	DAE
334.2	GO	General Observation			MWL 5%
336.2	DP	Deposits	7 to 5	1	DAEJ
338.0	SC	Service Connection	3		TFA
338.0	DP	Deposits	2 to 5	1	DAE
342.0	DP	Deposits	7 to 5	1	DAEJ
342.8	SC	Service Connection	1		TFC
342.8	DP	Deposits	12 to 5	1	DAE
351.7	DP	Deposits	7 to 5	2	DAEJ
353.3	SD	Surface Damage		1	SRI F01
354.9	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> OutwardH7-LB4E08	<b>Downstream MH</b> H7-MFCGGW	<b>Date</b> 08-13-2013	<b>Time</b> 12:35 PM
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<b>Surveyor</b> DARYL	<b>Street</b> Outward	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 351
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 351.8
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SRI S01
22.8	DP	Deposits	2 to 5	1	DAEJ
25.2	GO	General Observation			MWL 10%
27.8	DP	Deposits	12 to 5	1	DAEJ
29.0	DP	Deposits	7 to 5	1	DAEJ
35.3	GO	General Observation			MWL 5%
54.9	GO	General Observation			MWL 25%
57.9	DP	Deposits	7 to 5	1	DAEJ
64.7	DP	Deposits	7 to 5	1	DAEJ
64.7	GO	General Observation			MWL 10%
69.2	GO	General Observation			MWL 5%
77.0	SC	Service Connection	10		TFA
77.0	DP	Deposits	7 to 9	1	DAE
86.9	SC	Service Connection	2		TFA
92.2	GO	General Observation			MWL 10%
93.7	DP	Deposits	7 to 5	1	DAEJ
98.8	DP	Deposits	7 to 8	1	DAE
101.6	GO	General Observation			MWL 5%
112.1	DP	Deposits	7 to 5	1	DAEJ
124.4	DP	Deposits	7 to 11	1	DAEJ
127.6	DP	Deposits	7 to 10	1	DAE
148.5	GO	General Observation			MWL 10%
155.8	GO	General Observation			MWL 25%
161.8	GO	General Observation			MWL 10%
167.2	DP	Deposits	7 to 10	1	DAEJ
167.2	DP	Deposits	3 to 5	1	DAEJ
167.9	SC	Service Connection	10		TFA
169.5	DP	Deposits	12 to 5	1	DAEJ
169.5	GO	General Observation			MWL 5%
183.3	SC	Service Connection	3		TFA
204.8	DP	Deposits	7 to 5	1	DAEJ
212.9	DP	Deposits	7 to 5	1	DAEJ
238.0	DP	Deposits	7 to 5	1	DAEJ
253.7	SC	Service Connection	9		TFA
253.7	DP	Deposits	8 to 10	2	DAE
274.0	SC	Service Connection	1		TFA
275.8	DP	Deposits	7 to 10	1	DAEJ
275.8	DP	Deposits	2 to 5	1	DAEJ
293.5	DP	Deposits	7 to 11	1	DAEJ
293.6	DP	Deposits	1 to 5	1	DAEJ
303.5	DP	Deposits	7 to 5	1	DAEJ
306.4	GO	General Observation			MWL 10%
311.4	GO	General Observation			MWL 5%
332.2	DP	Deposits	7 to 5	2	DAEJ
338.3	GO	General Observation			MWL 10%
339.7	SC	Service Connection	10		TFA
348.1	DP	Deposits	7 to 5	2	DAEJ
349.8	SD	Surface Damage		1	SRI F01
351.8	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> OutwardH7- MFCGW	<b>Downstream MH</b> H7-NJIIYG	<b>Date</b> 08-13-2013	<b>Time</b> 11:51 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Outward	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 353
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 352.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SRI S01
15.6	DP	Deposits	1 to 5	2	DAE
17.2	SC	Service Connection	1		TFA
17.2	DP	Deposits	7 to 5	2	DAE
35.2	DP	Deposits	7 to 5	2	DAEJ
37.3	GO	General Observation			MWL 10%
50.5	GO	General Observation			MWL 5%
62.5	GO	General Observation			MWL 35%
72.5	GO	General Observation			MWL 10%
77.6	SC	Service Connection	9		TFA
77.6	GO	General Observation			MWL 5%
86.5	DP	Deposits	7 to 5	1	DAEJ
117.8	SC	Service Connection	2		TFA
117.8	DP	Deposits	7 to 11	1	DAEJ
117.8	DP	Deposits	2 to 5	1	DAEJ
123.7	DP	Deposits	7 to 10	1	DAE
123.7	DP	Deposits	3 to 5	1	DAE
142.5	DP	Deposits	7 to 11	1	DAEJ
142.5	DP	Deposits	1 to 5	1	DAEJ
160.3	DP	Deposits	7 to 5	1	DAEJ
178.9	GO	General Observation			MWL 10%
188.9	SC	Service Connection	9		TFA
195.8	DP	Deposits	11 to 5	1	DAEJ
195.8	GO	General Observation			MWL 5%
213.6	SC	Service Connection	1		TFA
227.2	GO	General Observation			MWL 10%
233.5	GO	General Observation			MWL 5%
304.8	SC	Service Connection	1		TFA
320.2	SC	Service Connection	11		TFA
320.2	DP	Deposits	9 to 3	1	DAE
348.8	DP	Deposits	7 to 5	2	DAEJ
351.0	SD	Surface Damage		1	SRI F01
352.3	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> OutwardH7- NJIYG	<b>Downstream MH</b> H7-NJTJIH	<b>Date</b> 08-13-2013	<b>Time</b> 9:02 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Outward	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 72
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 71.7
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SRI S01
5.0	GO	General Observation			MWL 10%
12.0	DP	Deposits	7 to 9	1	DAE
12.0	DP	Deposits	1 to 5	1	DAE
16.5	GO	General Observation			MWL 15%
21.0	GO	General Observation			MWL 25%
27.8	GO	General Observation			MWL 10%
41.4	GO	General Observation			MWL 5%
68.4	DP	Deposits	7 to 5	2	DAEJ
69.9	SD	Surface Damage		1	SRI F01
71.7	IE	End Inspection			



<b>Owner</b>	<b>Customer</b>	<b>Upstream MH</b>	<b>Downstream MH</b>	<b>Date</b>	<b>Time</b>
City of DePere	ENGINEERING	S6th2H7-W3ZIIR	H7-W17L4W	09-30-2013	9:54 AM
<b>Surveyor</b>	<b>Street</b>		<b>City</b>	<b>Weather</b>	
Daryl	S6th		City of DePere	Dry	
<b>Size</b>	<b>Material</b>	<b>Sewer Use</b>	<b>Purpose</b>	<b>Length</b>	
8	Concrete segments (unbolted)	Sanitary	Maintenance Related	339	
<b>Comments</b>				<b>Pre-Cleaning</b>	<b>(TV'd)</b>
UPSTREAM				Jetting	229.7

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	GO	General Observation			MMC PVC
2.6	GO	General Observation			MMC CONCRETE
4.5	SC	Service Connection	9		TFA
4.5	SD	Surface Damage		1	SAV S01
7.5	SC	Service Connection	1		TFA?
39.9	DP	Deposits	7 to 8	1	DAE
60.3	DP	Deposits	4 to 8	2	DAEJ
72.6	DP	Deposits	4 to 5	1	DAE
75.3	DP	Deposits	7 to 8	1	DAE
107.2	SC	Service Connection	9		TFC
126.3	GO	General Observation			MMC CLAY TILE
128.3	SC	Service Connection	3		TFC
129.4	GO	General Observation			MMC CONCRETE
131.6	SC	Service Connection	10		TBA
148.4	SC	Service Connection	1		TBA
148.4	C	Crack	8	1	CL
148.4	DP	Deposits	7 to 8	1	DAE
161.9	C	Crack	6	1	CL
171.5	R	Roots	6 to 8	1	RFJ
174.3	GO	General Observation			MMC CLAY TILE
176.5	SC	Service Connection	9		TFC
178.3	GO	General Observation			MMC CONCRETE
193.5	DP	Deposits	4 to 8	1	DAEJ
209.4	SC	Service Connection	9		TBAI
217.1	GO	General Observation			MMC CLAY TILE
217.1	C	Crack	3	1	CL
219.1	SC	Service Connection	3		TFA
220.4	GO	General Observation			MMC CONCRETE
223.3	GO	General Observation			MMC CLAY TILE
224.1	SC	Service Connection	10		TFC
225.5	GO	General Observation			MMC CONCRETE
225.5	C	Crack	8 to 12	1	CS
229.7	SC	Service Connection	11		TBAI
229.7	GO	General Observation			CAN'T GET CAMERA BY LATERAL
229.7	SD	Surface Damage		1	SAV F01
229.7	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> S6th2H7- W17L4W	<b>Downstream MH</b> H7-VX8OYA	<b>Date</b> 10-01-2013	<b>Time</b> 8:27 AM
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<b>Surveyor</b> Daryl	<b>Street</b> S6th	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 495
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 351.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MMC PVC
1.6	GO	General Observation			MWL 10%
2.7	GO	General Observation			MWL 15%
8.7	GO	General Observation			MWL 5%
57.9	GO	General Observation			MMC CLAY TILE
65.0	SC	Service Connection	3		TFA?
96.9	GO	General Observation			MWL 10%
110.5	SC	Service Connection	9		TFA
112.6	SC	Service Connection	3		TFC
115.0	GO	General Observation	11 to 2	1	FS
119.9	GO	General Observation			MWL 5%
148.5	GO	General Observation	8 to 1	1	FS
150.1	GO	General Observation			MMC CONCRETE
151.5	SC	Service Connection	2		TFA
153.2	GO	General Observation			MMC CLAY TILE
172.1	SC	Service Connection	3		TFC
174.0	SC	Service Connection	9		TFC
202.8	SC	Service Connection	10		TBAI
207.5	GO	General Observation			MWL 10%
217.5	GO	General Observation			MWL 20%
225.2	SC	Service Connection	3		TFC
225.2	GO	General Observation			MWL 5%
227.4	SC	Service Connection	9		TFC
235.2	SC	Service Connection	3		TBAI
266.6	SC	Service Connection	3		TFC
268.9	SC	Service Connection	9		TFC
274.3	SC	Service Connection	9		TBAI?
274.3	C	Crack	7 to 2	1	CM
286.4	C	Crack	12	1	CL
288.1	C	Crack	12	1	CL
290.8	C	Crack	12	1	CL
292.1	DP	Deposits	3 to 5	1	DAE
294.4	DP	Deposits	3 to 5	1	DAE
294.4	C	Crack		1	SMALL CRACKS IN SOME PIPE
337.9	SC	Service Connection	3		TFC
340.1	SC	Service Connection	9		TFC
347.6	GO	General Observation			MMC CONCRETE
349.0	SC	Service Connection	3		TFA
350.1	GO	General Observation			MMC CLAY TILE
351.3	SC	Service Connection	10		TBAI
351.3	GO	General Observation			CAN'T GET CAMERA BY LATERAL
351.3	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> S6thH7-U2YGBD	<b>Downstream MH</b> H7-UXCH0L	<b>Date</b> 09-23-2013	<b>Time</b> 2:08 PM
<b>Surveyor</b> DARYL	<b>Street</b> S6th		<b>City</b> City of DePere	<b>Weather</b> Dry	
<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related		<b>Length</b> 142
<b>Comments</b>				<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 141.5

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
2.4	GO	General Observation			MWL 5%
41.2	SD	Surface Damage		1	SRI S01
73.9	GO	General Observation			MWL 10%
94.2	GO	General Observation			MWL 5%
101.8	SC	Service Connection	9		TFA
107.2	SC	Service Connection	3		TFA
139.0	DP	Deposits	7 to 5	1	DAEJ
139.0	SD	Surface Damage		1	SRI F01
141.5	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> S6thH7-UXCH0L	<b>Downstream MH</b> H7-W3ZIIR	<b>Date</b> 09-30-2013	<b>Time</b> 9:10 AM
<b>Surveyor</b> Daryl	<b>Street</b> S6th		<b>City</b> City of DePere	<b>Weather</b> Dry	
<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related		<b>Length</b> 248
<b>Comments</b>				<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 246.6

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
0.3	C	Crack	7	1	CL
10.4	C	Crack	4	1	CL
33.5	DP	Deposits	7 to 9	1	DAEJ
33.5	DP	Deposits	4 to 5	1	DAEJ
34.5	DP	Deposits	3 to 5	1	DAEJ
36.3	DP	Deposits	7 to 9	1	DAE
36.3	DP	Deposits	4 to 5	1	DAEJ
37.2	SC	Service Connection	3		TFA
62.2	GO	General Observation			MWL 10%
64.2	SC	Service Connection	3		TFC
79.8	SC	Service Connection	9		TFA
80.9	GO	General Observation			MWL 5%
97.8	SC	Service Connection	9		TFC
137.2	SC	Service Connection	3		TFA
147.0	SC	Service Connection	9		TBA
147.0	GO	General Observation			MWL 10%
159.6	GO	General Observation			MWL 5%
197.7	SC	Service Connection	9		TFC
201.0	SC	Service Connection	3		TFC
242.6	SC	Service Connection	3		TBA
245.0	SD	Surface Damage		1	SAV F01
246.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
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<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> S6thH7-W3ZIIR	<b>Downstream MH</b> H7-W17L4W	<b>Date</b> 09-24-2013	<b>Time</b> 1:44 PM
<b>Surveyor</b> DARYL	<b>Street</b> S6th		<b>City</b> City of DePere	<b>Weather</b> Dry	
<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related		<b>Length</b> 339
<b>Comments</b>				<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 106.5

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
6.1	GO	General Observation	4 to 8	1	FM
18.1	GO	General Observation			MMC CLAY TILE
26.8	C	Crack	8 to 5	1	CC
30.0	GO	General Observation	7 to 9	1	FS
32.8	GO	General Observation			MMC CONCRETE
36.0	DP	Deposits		1	DAE IN SOME PIPE
37.7	GO	General Observation	8	1	FL
38.7	GO	General Observation	11	1	FL
38.7	GO	General Observation	1	1	FL
48.0	DP	Deposits	7 to 9	1	DAEJ]
48.0	DP	Deposits	4 to 5	1	DAEJ
51.0	DP	Deposits	7 to 5	1	DAEJ
54.1	DP	Deposits	7 to 9	1	DAEJ
54.1	GO	General Observation			MMC CLAY TILE
54.1	GO	General Observation	12 to 4	1	CM
55.1	SC	Service Connection	3		TFA
56.4	GO	General Observation			MMC CONCRETE
59.0	GO	General Observation			MMC CLAY TILE
60.1	SC	Service Connection	9		TFC
62.1	GO	General Observation			MMC CONCRETE
68.2	DP	Deposits		1	DAEJ AT SOME JOINTS
106.5	SC	Service Connection	1		TBAI
106.5	GO	General Observation			CAN'T GET CAMERA BY LATERAL
106.5	SD	Surface Damage		1	SAV F01
106.5	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
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<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> S6thH7-W17L4W	<b>Downstream MH</b> H7-VX8OYA	<b>Date</b> 10-01-2013	<b>Time</b> 7:50 AM
<b>Surveyor</b> Daryl	<b>Street</b> S6th		<b>City</b> City of DePere	<b>Weather</b> Dry	
<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related		<b>Length</b> 495
<b>Comments</b>				<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 143.6

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	GO	General Observation			MMC PVC
1.2	GO	General Observation			MMC CLAY TILE
14.2	C	Crack	6 to 8	1	CS
27.1	GO	General Observation			MWL 10%
34.7	R	Roots	2 to 5	1	RFJ
35.5	SC	Service Connection	3		TFA
37.2	SC	Service Connection	9		TFC
37.2	GO	General Observation			MWL 5%
48.9	GO	General Observation			MWL 10%
52.1	SC	Service Connection	9		TFA
53.4	GO	General Observation			MWL 5%
53.4	GO	General Observation	7 to 11	1	FS
65.5	GO	General Observation			MWL 10%
68.3	GO	General Observation	1 to 5	1	FS
81.3	GO	General Observation			MWL 5%
91.4	R	Roots	8 to 9	1	RFJ
96.4	SC	Service Connection	3		TFC
98.8	SC	Service Connection	9		TFC
141.4	GO	General Observation			MWL 10%
142.8	SC	Service Connection	2		TBAI
143.6	GO	General Observation			CAN'T GET CAMERA BY LATERAL
143.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> SmitsJ8-YU6L8E	<b>Downstream MH</b> J8-XO4JDP	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 284	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Smits	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 09/14/2015	<b>Time</b> 11:58	<b>Length Surveyed</b>
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**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: SmitsJ8-YU6L8E
0.0	MWL	Water Level		
0.0	SAV	Surface: Aggregate Visible	6 to 6	S01
0.0	DAE	Deposits Attached: Encrustation	7 to 1	
0.3	DAE	Deposits Attached: Encrustation	7 to 5	
0.3	ID	Infiltration - Dripper	11 to 1	
46.7	TFA	Tap, Factory Made: Active	9	
52.0	TFA	Tap, Factory Made: Active	3	
71.1	MWL	Water Level		
82.6	MWL	Water Level		
82.6	SAV	Surface: Aggregate Visible	6 to 6	F01
82.6	SRI	Surface: Roughness Increased	6 to 6	S02
131.8	TFA	Tap, Factory Made: Active	3	
137.0	TFA	Tap, Factory Made: Active	9	
196.1	SRI	Surface: Roughness Increased	6 to 6	F02
196.1	SAV	Surface: Aggregate Visible	6 to 6	S03
217.4	SAV	Surface: Aggregate Visible	6 to 6	F03
217.4	SRI	Surface: Roughness Increased	6 to 6	S04
220.1	OBP	Obstacle - External Piper or Cable in Sewer	5 to 6	WIRE?
223.7	DAE	Deposits Attached: Encrustation	11 to 5	
229.2	MWL	Water Level		
242.0	TFA	Tap, Factory Made: Active	9	
244.3	MWL	Water Level		
276.1	SRI	Surface: Roughness Increased	6 to 6	F04
276.1	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
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<b>Upstream MH</b> SmitsJ8-ZWQND	<b>Downstream MH</b> J8-YU6L8E	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 310	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Smits	<b>Location Details</b>
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<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 09/14/2015	<b>Time</b> 12:47	<b>Length Surveyed</b>
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**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: J8-YU6L8E
0.0	MWL	Water Level		
11.0	SRI	Surface: Roughness Increased	6 to 6	S01
37.6	DAE	Deposits Attached: Encrustation	2 to 5	
37.9	TFA	Tap, Factory Made: Active	3	
43.2	TFA	Tap, Factory Made: Active	9	
61.4	DAE	Deposits Attached: Encrustation	2 to 5	
137.0	TFA	Tap, Factory Made: Active	3	
141.3	DAE	Deposits Attached: Encrustation	7 to 11	
141.8	TFA	Tap, Factory Made: Active	9	
230.3	DAE	Deposits Attached: Encrustation	7 to 9	
231.7	TFA	Tap, Factory Made: Active	2	
236.6	TFA	Tap, Factory Made: Active	10	
303.7	SRI	Surface: Roughness Increased	6 to 6	F01
304.4	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
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<b>Upstream MH</b> SmitsK8-0Z2PI6	<b>Downstream MH</b> J8-ZWQNDE	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 309	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Smits	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 09/14/2015	<b>Time</b> 10:14	<b>Length Surveyed</b>
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**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: SmitsK8-0Z2PI6
0.0	MWL	Water Level		
1.6	DAE	Deposits Attached: Encrustation	7 to 5	
1.7	CL	Crack Longitudinal	12	
4.8	TBA	Tap, Break-in / Hammer: Active	9	ACTIVE?
6.1	CL	Crack Longitudinal	11	
9.8	TFA	Tap, Factory Made: Active	3	
28.7	TFA	Tap, Factory Made: Active	11	
41.4	DAE	Deposits Attached: Encrustation	1 to 5	
81.4	DAE	Deposits Attached: Encrustation	7 to 5	
84.5	DAE	Deposits Attached: Encrustation	1 to 5	
84.8	TFA	Tap, Factory Made: Active	2	
87.4	SRI	Surface: Roughness Increased	6 to 6	S01
89.1	DAE	Deposits Attached: Encrustation	7 to 10	
90.3	TFA	Tap, Factory Made: Active	10	
151.4	DAE	Deposits Attached: Encrustation	3 to 5	
179.9	TFA	Tap, Factory Made: Active	2	
185.2	TFA	Tap, Factory Made: Active	9	
279.7	TFA	Tap, Factory Made: Active	3	
284.4	TFA	Tap, Factory Made: Active	9	ID IN LATERAL
301.0	DAE	Deposits Attached: Encrustation	7 to 1	
301.0	ID	Infiltration - Dripper	11 to 1	
301.0	SRI	Surface: Roughness Increased	6 to 6	F01
305.2	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR J8- KGMGGL	<b>Downstream MH</b> J8-KUVHB2	<b>Date</b> 07-27-2012	<b>Time</b> 1:51 PM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 121
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<b>Comments</b> UPSTREAM CANT GET CAMERA IN J8-KGMGGL CONCRETE IN FLOW LINE	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 103.9
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	DP	Deposits	7 to 5	2	DAEJ
2.3	SD	Surface Damage		1	SRI S01
2.3	GO	General Observation			MWL 40%
13.3	GO	General Observation			MWL 20%
19.7	DP	Deposits	12 to 5	1	DAEJ
29.5	SC	Service Connection	11		TFA?
29.5	DP	Deposits	7 to 5	1	DAE
48.3	SC	Service Connection	1		TFA?
49.7	GO	General Observation			MWL 5%
63.2	GO	General Observation			MWL 25%
75.7	GO	General Observation			MWL 5%
102.8	SC	Service Connection	11		TFA?
103.9	DP	Deposits	6 to 9	3	DSC
103.9	GO	General Observation			CAN'T GET CAMERA BY CONCRETE
103.9	SD	Surface Damage		1	SRI F01
103.9	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR J8-LSNK8K	<b>Downstream MH</b> J8-KUVHB2	<b>Date</b> 07-26-2012	<b>Time</b> 12:37 PM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 399
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 182
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.7	DP	Deposits	7 to 5	1	DAEJ
1.9	GO	General Observation			MWL 10%
3.5	DP	Deposits	7 to 5	1	DAEJ AT MOST JOINTS
17.0	DP	Deposits	1 to 4	1	DAE
20.9	GO	General Observation			MWL 5%
32.1	SD	Surface Damage		1	SRI S01
32.1	GO	General Observation			MWL 10%
36.6	DP	Deposits	7 to 5	2	DAEJ
49.3	GO	General Observation			MWL 5%
67.7	SC	Service Connection	3		TFC
91.9	SC	Service Connection	9		TFA
146.9	SC	Service Connection	2		TFA?
173.7	GO	General Observation			MMC CLAY TILE
174.3	SC	Service Connection	9		TFA?
174.3	GO	General Observation			MWL 25%
176.7	SD	Surface Damage		1	SRI F01
182.0	GO	General Observation			MMC CONCRETE
182.0	DP	Deposits	7 to 5	3	DAEJ
182.0	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
182.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
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 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR J8- MBAMDW	<b>Downstream MH</b> J8-LSNK8K	<b>Date</b> 07-26-2012	<b>Time</b> 11:42 AM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 286
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 179.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.3	DP	Deposits	12 to 5	1	DAE
0.3	I	Infiltration	12 to 1	1	ID
2.5	R	Roots	7 to 8	1	RFJ
2.5	GO	General Observation			MWL 20%
4.3	SC	Service Connection	9		TFA
5.5	DP	Deposits	7 to 5	1	DAEJ
8.1	GO	General Observation			MWL 10%
11.4	DP	Deposits	7 to 5	1	DAEJ
13.5	DP	Deposits	7 to 5	2	DAEJ
16.4	SD	Surface Damage		1	SRI S01
18.3	DP	Deposits	7 to 5	2	DAEJ
21.5	DP	Deposits	7 to 5	2	DAEJ
21.5	GO	General Observation			MWL 5%
27.3	DP	Deposits	6 to 5	1	DAEJ AT MOST JOINTS
36.1	DP	Deposits	7 to 5	2	DAE
60.7	R	Roots	9 to 5	1	RFJ
62.8	SC	Service Connection	9		TFA
66.7	R	Roots	8 to 4	1	RFJ
69.6	R	Roots	1 to 3	1	RFJ
74.8	SC	Service Connection	3		TFA?
138.5	R	Roots	3 to 5	1	RFB
148.5	C	Crack	12	1	CL
150.3	SC	Service Connection	3		TFA
152.8	DP	Deposits	4 to 8	1	DAE
152.8	SD	Surface Damage		1	SRI F01
165.3	SC	Service Connection	9		TFC
173.1	DP	Deposits	4 to 8	2	DAZ
178.4	DP	Deposits	4 to 8	2	DAZ
179.3	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
179.3	IE	End Inspection			



<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR 2 J8- MBAMDW	<b>Downstream MH</b> J8-LSNK8K	<b>Date</b> 07-26-2012	<b>Time</b> 11:42 AM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 286
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 179.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.3	DP	Deposits	12 to 5	1	DAE
0.3	I	Infiltration	12 to 1	1	ID
2.5	R	Roots	7 to 8	1	RFJ
2.5	GO	General Observation			MWL 20%
4.3	SC	Service Connection	9		TFA
5.5	DP	Deposits	7 to 5	1	DAEJ
8.1	GO	General Observation			MWL 10%
11.4	DP	Deposits	7 to 5	1	DAEJ
13.5	DP	Deposits	7 to 5	2	DAEJ
16.4	SD	Surface Damage		1	SRI S01
18.3	DP	Deposits	7 to 5	2	DAEJ
21.5	DP	Deposits	7 to 5	2	DAEJ
21.5	GO	General Observation			MWL 5%
27.3	DP	Deposits	6 to 5	1	DAEJ AT MOST JOINTS
36.1	DP	Deposits	7 to 5	2	DAE
60.7	R	Roots	9 to 5	1	RFJ
62.8	SC	Service Connection	9		TFA
66.7	R	Roots	8 to 4	1	RFJ
69.6	R	Roots	1 to 3	1	RFJ
74.8	SC	Service Connection	3		TFA?
138.5	R	Roots	3 to 6	1	RFB
148.5	C	Crack	12	1	CL
150.3	SC	Service Connection	3		TFA
152.8	DP	Deposits	4 to 8	1	DAE
152.8	SD	Surface Damage		1	SRI F01
165.3	SC	Service Connection	9		TFC
173.1	DP	Deposits	4 to 8	2	DAZ
178.4	DP	Deposits	4 to 8	2	DAZ
179.3	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
179.3	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR 2 J8- LSNK8K	<b>Downstream MH</b> J8-KUVHB2	<b>Date</b> 07-27-2012	<b>Time</b> 1:09 PM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 399
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 214
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	DP	Deposits	7 to 5	1	DAE
1.9	GO	General Observation			MWL 20%
1.9	SD	Surface Damage		1	SRI S01
7.0	GO	General Observation			MWL 40%
17.3	GO	General Observation			MWL 10%
29.4	DP	Deposits	3 to 5	1	DAEJ
31.8	GO	General Observation			MWL 25%
38.3	DP	Deposits	12 to 5	1	DAEJ
44.5	DP	Deposits	7 to 5	2	DAEJ
50.4	DP	Deposits	7 to 5	1	DAEJ AT MOST JOINTS
50.4	GO	General Observation			MWL 15%
65.4	DP	Deposits	7 to 5	2	DAEJ
68.2	GO	General Observation			MWL 25%
88.8	SC	Service Connection	11		TFA?
88.8	DP	Deposits	7 to 5	2	DAE
91.6	GO	General Observation			MWL 10%
114.0	DP	Deposits	7 to 5	2	DAEJ
129.1	DP	Deposits	7 to 5	2	DAEJ
131.5	GO	General Observation			MWL 20%
138.2	DP	Deposits	11 to 5	2	DAEJ
141.5	GO	General Observation			MWL 10%
162.4	DP	Deposits	7 to 5	2	DAEJ
170.4	SC	Service Connection	10		TFA?
176.4	SC	Service Connection	11		TFC
186.4	DP	Deposits	12 to 5	2	DAEJ
186.4	I	Infiltration	12 to 1	1	ID
189.5	DP	Deposits	12 to 5	2	DAEJ
195.5	DP	Deposits	7 to 5	2	DAEJ AT MOST JOINTS
214.0	DP	Deposits	7 to 5	3	DAEJ
214.0	DP	Deposits		2	DAR
214.0	SD	Surface Damage		1	SRI F01
214.0	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
214.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WAUBANUQUA TR J8- MBAMDW	<b>Downstream MH</b> J8-LSNK8K	<b>Date</b> 07-26-2012	<b>Time</b> 1:17 PM
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<b>Surveyor</b> DARYL	<b>Street</b> WAUBANUQUA TR	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 286
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 111.8
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
44.9	SC	Service Connection	3		TFA?
44.9	DP	Deposits	5 to 7	2	DAZ NEXT 67'
56.9	SC	Service Connection	9		TFC
111.8	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WaubaunuquaJ8 -MBAMDW	<b>Downstream MH</b> J8-NGWOQE	<b>Date</b> 03-26-2015	<b>Time</b> 10:08 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Waubaunuqua	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 339
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 0
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 0%
0.0	DP	Deposits	4 to 8	3	DSC
0.0	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
0.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> Waubaunuqua2J 8-MBAMDW	<b>Downstream MH</b> J8-NGWOQE	<b>Date</b> 03-26-2015	<b>Time</b> 7:40 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Waubaunuqua	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 339
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 304.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SRI S01
0.5	DP	Deposits	7 to 5	1	DAEJ
3.1	DP	Deposits	7 to 5	1	DAEJ
6.4	DP	Deposits	2 to 5	1	DAEJ
15.1	DP	Deposits	3 to 5	1	DAEJ
29.7	DP	Deposits		1	DAEJ IN SOME PIPE
35.9	SD	Surface Damage		1	SRI F01
35.9	SD	Surface Damage		2	SAV S02
70.2	GO	General Observation			MWL 10%
87.5	GO	General Observation			MWL 5%
94.7	SC	Service Connection	9		TFC
100.5	SC	Service Connection	3		TFA
184.1	SC	Service Connection	3		TFA
201.1	GO	General Observation			MWL 10%
212.3	GO	General Observation			MWL 5%
213.8	SC	Service Connection	9		TFA
243.6	SC	Service Connection	3		TFA
279.3	SC	Service Connection	9		TFA
290.8	GO	General Observation			MWL 0%
300.2	R	Roots	7 to 5	1	RFJ
303.2	SC	Service Connection	3		TFC
304.6	DP	Deposits	4 to 8	3	DAEJ
304.6	SD	Surface Damage		2	SAV F02
304.6	GO	General Observation			CAN'T GET CAMERA BY DEPOSITS
304.6	GO	General Observation			CAN'T GET CAMERA IN UPSTREAM MANHOLE BECAUSE OF DEPOSITS
304.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox217-O15NK8	<b>Downstream MH</b> I7-N66OY9	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 249	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 09:18	<b>Length Surveyed</b>

**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: I7-N66OY9
0.0	MWL	Water Level		
6.1	RFJ	Roots, Fine: Joint	7 to 5	
7.9	RFJ	Roots, Fine: Joint	7 to 5	
7.9	CS	Crack Spiral	1 to 3	
9.8	RFJ	Roots, Fine: Joint	7 to 5	
11.9	RFJ	Roots, Fine: Joint	7 to 5	
13.9	RFJ	Roots, Fine: Joint	7 to 5	
13.9	MWL	Water Level		
15.9	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
19.2	MWL	Water Level		
24.6	MWL	Water Level		
30.1	MWL	Water Level		
48.7	FM	Fracture Multiple	10 to 5	
49.6	TBA	Tap, Break-in / Hammer: Active	2	
52.8	MGO	General Observation		SMALL CRACKS IN SOME PIPE
76.7	TFC	Tap, Factory Made: Capped	3	CAPPED?
80.6	TBI	Tap, Break-in / Hammer: Intruding	2	
80.6	MSA	Survey Abandoned		CANT GET CAMERA BY LATERAL



**City of DePere**  
925 South Sixth Street  
DePere, WI 54115-1199  
PH: 920-339-4062

<b>Upstream MH</b> Wilcox217-P66P0Y	<b>Downstream MH</b> I7-N66OY9	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 259	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 11:37	<b>Length Surveyed</b>

**Additional Information**  
UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: I7-N66OY9
0.0	MWL	Water Level		
0.7	MMC	Material Change		PVC
11.1	MMC	Material Change		CLAY TILE
48.2	TFC	Tap, Factory Made: Capped	9	
90.1	TBI	Tap, Break-in / Hammer: Intruding	10	
90.1	MSA	Survey Abandoned		CAN'T GET BY LATERAL



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox217-QIDMK8	<b>Downstream MH</b> I7-OI5NK8	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 290	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 07:37	<b>Length Surveyed</b>

**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: I7-OI5NK8
0.0	MWL	Water Level		
0.2	CL	Crack Longitudinal	2	
0.2	CL	Crack Longitudinal	11	
9.7	TFC	Tap, Factory Made: Capped	3	CAPPED?
9.7	CL	Crack Longitudinal	12	
20.2	MGO	General Observation		SMALL CRACKS IN SOME PIPE
26.2	RFJ	Roots, Fine: Joint	1 to 2	
28.2	RFJ	Roots, Fine: Joint	1 to 2	
30.1	RFJ	Roots, Fine: Joint	3 to 5	
31.9	RFJ	Roots, Fine: Joint	8 to 9	
31.9	MMC	Material Change		PVC
36.3	TFA	Tap, Factory Made: Active	2	
40.7	MMC	Material Change		CLAY TILE
48.5	RFJ	Roots, Fine: Joint	10 to 11	
67.7	TFC	Tap, Factory Made: Capped	3	CAPPED?
78.8	MMC	Material Change		PVC
89.6	MMC	Material Change		CLAY TILE
90.9	RFJ	Roots, Fine: Joint	3 to 5	
97.0	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
128.4	TFC	Tap, Factory Made: Capped	3	CAPPED?
134.6	TBA	Tap, Break-in / Hammer: Active	3	ROOTS IN LATERAL
187.3	MMC	Material Change		PVC
191.0	TFA	Tap, Factory Made: Active	2	
213.2	MMC	Material Change		CLAY TILE
247.4	TFC	Tap, Factory Made: Capped	3	CAPPED?
268.2	TBI	Tap, Break-in / Hammer: Intruding	2	
268.2	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox17-N66OY9	<b>Downstream MH</b> 17-LW6PWI	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 207	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/22/2016	<b>Time</b> 13:14	<b>Length Surveyed</b>

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: Wilcox17-N66OY9
0.0	MWL	Water Level		
0.3	CS	Crack Spiral	1 to 4	
2.3	CS	Crack Spiral	2 to 5	
6.9	TFC	Tap, Factory Made: Capped	9	CAPPED?
7.2	CM	Crack Multiple	9 to 5	
9.9	RFJ	Roots, Fine: Joint	2 to 4	
11.7	CS	Crack Spiral	7 to 5	CS IN SOME PIPE
16.0	CM	Crack Multiple	7 to 5	CRACKS IN SOME PIPE
162.0	TFA	Tap, Factory Made: Active	3	ACTIVE?
164.7	JOM	Joint Offset (displaced): Medium		
186.2	MMC	Material Change		PVC
202.5	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> WilcoxI7-OI5NK8	<b>Downstream MH</b> I7-N66OY9	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 249	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 08:27	<b>Length Surveyed</b>

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: WilcoxI7-OI5NK8
0.0	MWL	Water Level		
1.6	CM	Crack Multiple	7 to 5	
3.7	CS	Crack Spiral	8 to 10	
5.7	CS	Crack Spiral	2 to 4	
9.8	MGO	General Observation		SMALL CRACKS IN SOME PIPE
38.3	RFJ	Roots, Fine: Joint	7 to 10	
39.0	TFC	Tap, Factory Made: Capped	9	CAPPED?
41.5	TBI	Tap, Break-in / Hammer: Intruding	10	
58.7	FS	Fracture Spiral	8 to 11	
102.0	TFC	Tap, Factory Made: Capped	9	CAPPED?
162.9	TBI	Tap, Break-in / Hammer: Intruding	10	
163.2	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox17-P66P0Y	<b>Downstream MH</b> I7-N66OY9	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 259	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 10:04	<b>Length Surveyed</b>

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: Wilcox17-P66P0Y
0.0	MWL	Water Level		
0.3	CS	Crack Spiral	7 to 4	
2.2	FS	Fracture Spiral	8 to 12	
4.1	FS	Fracture Spiral	7 to 5	
6.2	MGO	General Observation		CRACKS IN SOME PIPE
82.9	TFC	Tap, Factory Made: Capped	3	CAPPED?
84.8	RFJ	Roots, Fine: Joint	9 to 10	
88.0	RFJ	Roots, Fine: Joint	3 to 5	
90.0	RFJ	Roots, Fine: Joint	2 to 4	
91.8	RFJ	Roots, Fine: Joint	8 to 9	
97.8	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
156.7	TFC	Tap, Factory Made: Capped	3	
163.2	TBI	Tap, Break-in / Hammer: Intruding	2	
163.3	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox17-QIDMKB	<b>Downstream MH</b> 17-OI5NK8	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 290	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 07:09	<b>Length Surveyed</b>

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: Wilcox17-QIDMKB
0.0	MWL	Water Level		
2.1	RFJ	Roots, Fine: Joint	2 to 3	
2.1	RFJ	Roots, Fine: Joint	6 to 7	
4.7	CS	Crack Spiral	7 to 4	
8.1	CS	Crack Spiral	11 to 4	
8.1	RFJ	Roots, Fine: Joint	7 to 10	
8.1	RFJ	Roots, Fine: Joint	2 to 4	
11.0	CS	Crack Spiral	11 to 4	
11.0	RFJ	Roots, Fine: Joint	9 to 10	
11.0	RFJ	Roots, Fine: Joint	3 to 4	
13.9	CS	Crack Spiral	11 to 2	
13.9	RFJ	Roots, Fine: Joint	7 to 1	
15.0	TBI	Tap, Break-in / Hammer: Intruding	10	
15.0	MSA	Survey Abandoned		CANT GET CAMERA BY LATERAL



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Wilcox17-QIDMKB	<b>Downstream MH</b> I7-OI5NK8	<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Total Length</b> 290	<b>City</b> City of DePere
<b>Surveyor's Name</b> DARYL	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Wilcox		<b>Location Details</b>	
<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/26/2016	<b>Time</b> 07:09	<b>Length Surveyed</b>

**Additional Information**

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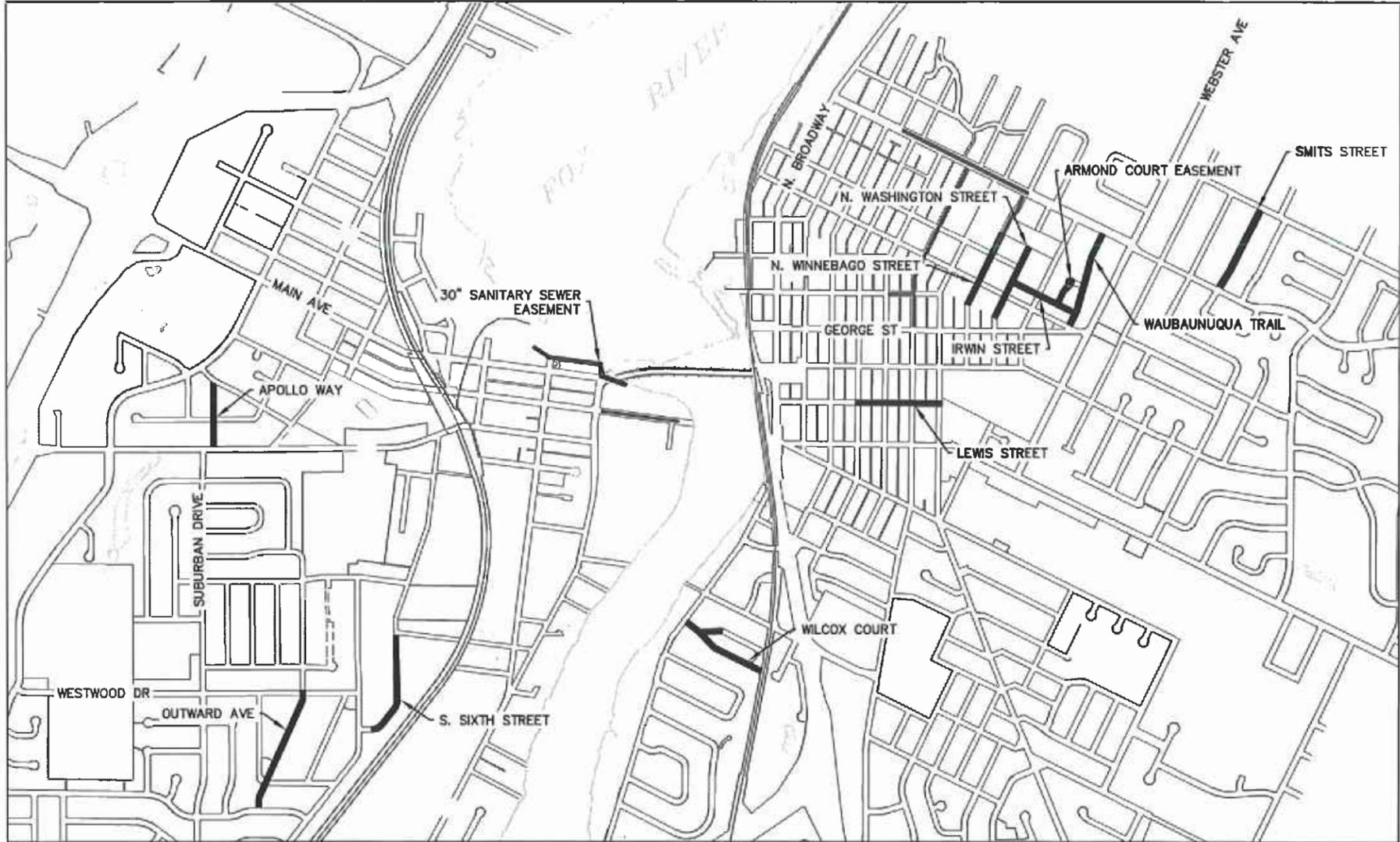
Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: Wilcox17-QIDMKB
0.0	MWL	Water Level		
2.1	RFJ	Roots, Fine: Joint	2 to 3	
2.1	RFJ	Roots, Fine: Joint	6 to 7	
4.7	CS	Crack Spiral	7 to 4	
8.1	CS	Crack Spiral	11 to 4	
8.1	RFJ	Roots, Fine: Joint	7 to 10	
8.1	RFJ	Roots, Fine: Joint	2 to 4	
11.0	CS	Crack Spiral	11 to 4	
11.0	RFJ	Roots, Fine: Joint	9 to 10	
11.0	RFJ	Roots, Fine: Joint	3 to 4	
13.9	CS	Crack Spiral	11 to 2	
13.9	RFJ	Roots, Fine: Joint	7 to 1	
15.0	TBI	Tap, Break-in / Hammer: Intruding	10	
15.0	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL

# PROJECT# 21-03 SEWER LINING

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 - C103	OUTWARD AVENUE PLAN AND PROFILE SHEETS
C104 - C106	S. SIXTH STREET PLAN AND PROFILE SHEETS
C107 - C109	WILCOX COURT PLAN AND PROFILE SHEETS
C110 - C111	SMITS STREET PLAN AND PROFILE SHEETS
C112 - C113	N. WINNEBAGO STREET PLAN AND PROFILE SHEETS
C114 - C115	N. WASHINGTON STREET PLAN AND PROFILE SHEETS
C116 - C117	IRWIN STREET PLAN AND PROFILE SHEETS
C118	ARMOND COURT EASEMENT PLAN AND PROFILE SHEET
C119 - C120	WAUBAUNUQUA TRAIL PLAN AND PROFILE SHEETS
C121 - C122	LEWIS STREET PLAN AND PROFILE SHEETS
C123 - C124	APOLLO WAY PLAN AND PROFILE SHEETS
C125 - C128	30" SANITARY SEWER EASEMENT/ALLEY PLAN AND PROFILE SHEETS
C127	18" SANITARY SEWER EASEMENT PLAN AND PROFILE SHEET
C401	30" & 18" SANITARY SEWER EASEMENT/ALLEY BASIN PLAN
C402	30" & 18" SANITARY SEWER EASEMENT/ALLEY BYPASS PLAN
C403 - C405	TRAFFIC CONTROL PLANS

CITY OF DE PERE  
BOARD OF PUBLIC WORKS

2/3/2021 DATE CITY ENGINEER *E.P. Rakers*  
 2/8/21 DATE CITY ADMINISTRATOR *[Signature]*  
 2/8/21 DATE MAYOR *[Signature]*

STAMPS:



## LIST OF STANDARD ABBREVIATIONS

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

## MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
BENCHMARK		
BUSH		
CATCH BASIN		
CABLE TV BOX		
CONTROL POINT		
ELECTRICAL BOX		
EROSION CONTROL - INELT		
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		
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	
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	

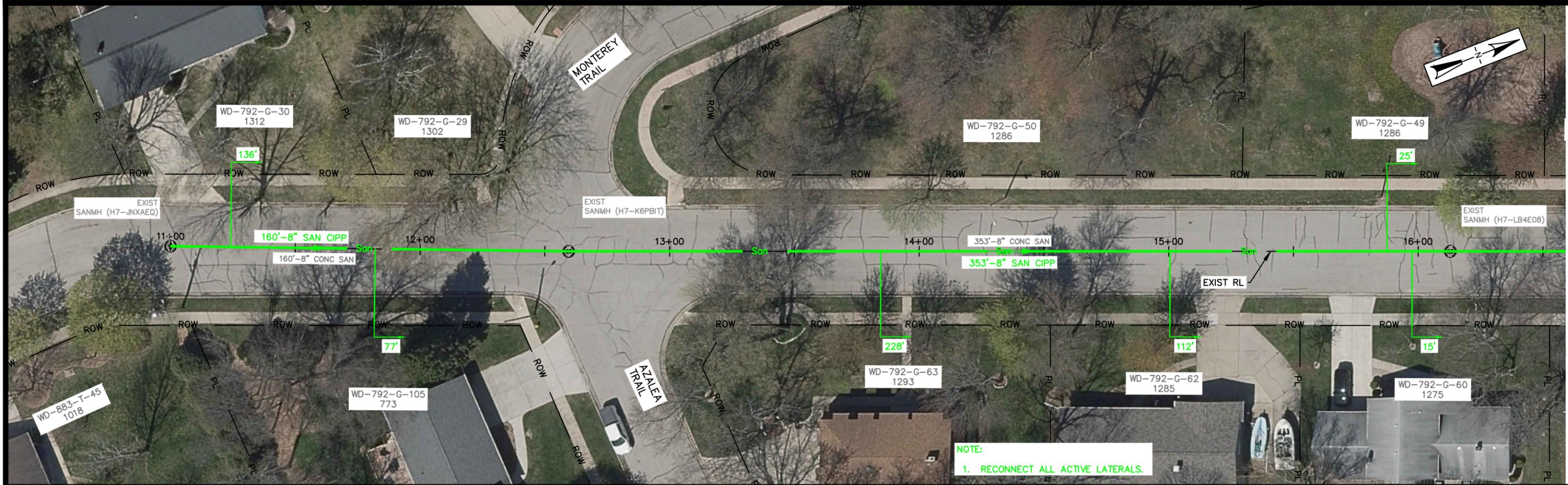


### CITY OF DE PERE

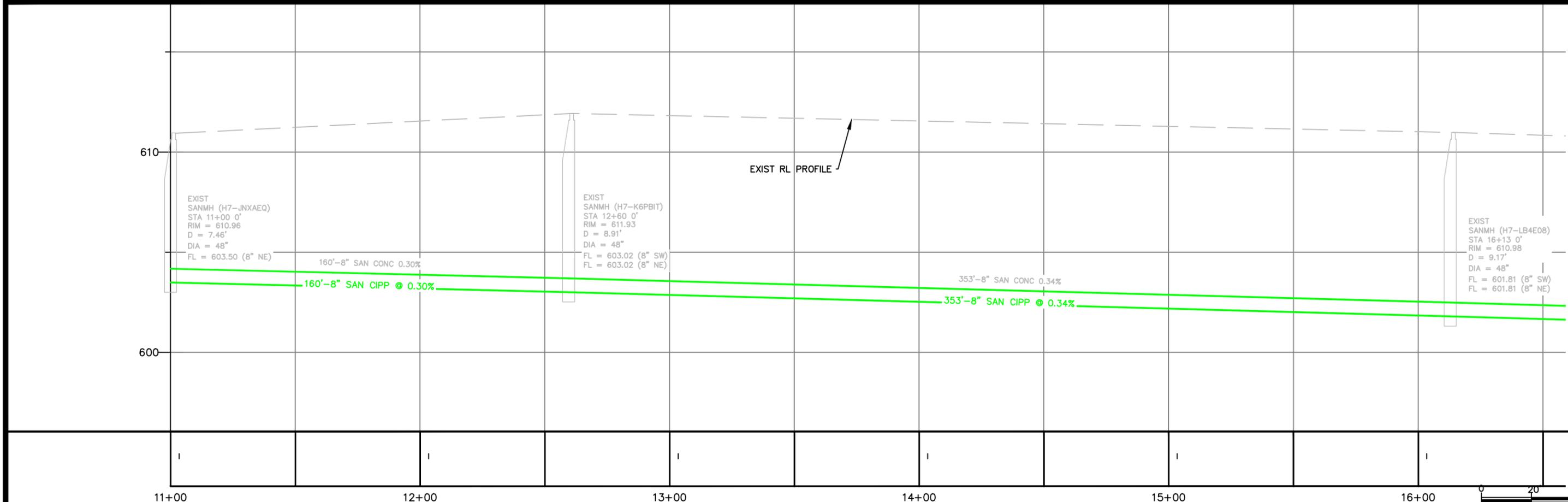
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4060 FAX 920-339-4071

### STANDARD ABBREVIATIONS AND SYMBOLS

NAME: SEWER LINING	BY: SRL	DATE: 01-2021	REVISIONS / ISSUES		PAGE NO. <b>G002</b>
PROJECT # 21-03	SURVEYED		NO.	DATE	
	DRAWN		BY	REMARKS	
	DESIGNED				

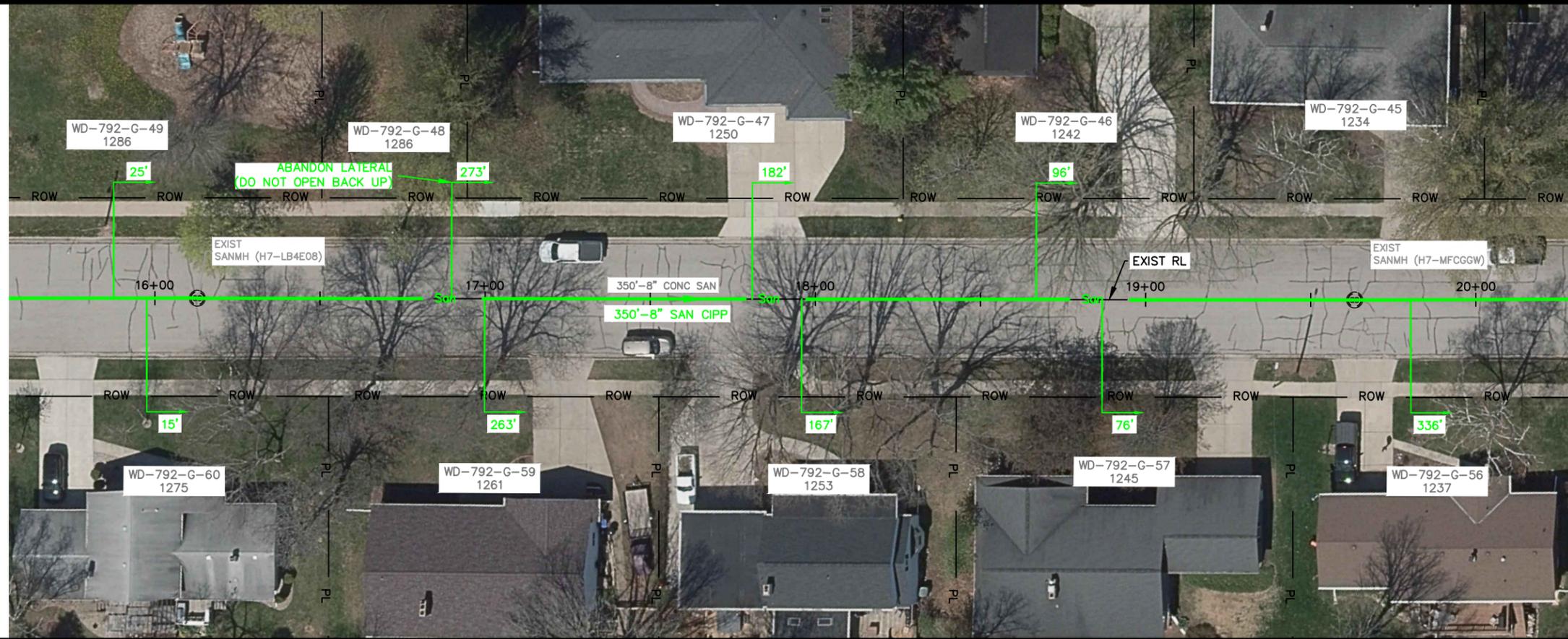


SEE PAGE C102



<p><b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071</p>	<p><b>OUTWARD AVENUE</b> <b>200' N/OMEADOWVIEW TO 350' N/O AZALEA TR</b></p>	<p>NAME: SEWER LINING</p>	<p>BY: SRL</p>	<p>DATE: 12-2020</p>	<p>REVISIONS / ISSUES</p>		<p>PAGE NO. <b>C101</b></p>		
		<p>PROJECT #: 21-03</p>	<p>SURVEYED: SRL</p>	<p>DATE: 12-2020</p>	NO.	DATE		BY	REMARKS
			<p>DRAWN: SRL</p>	<p>DATE: 12-2020</p>					
			<p>DESIGNED: SRL</p>	<p>DATE: 12-2020</p>					
	<p>CHECKED: EPR</p>	<p>DATE: 12-2020</p>							

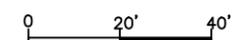
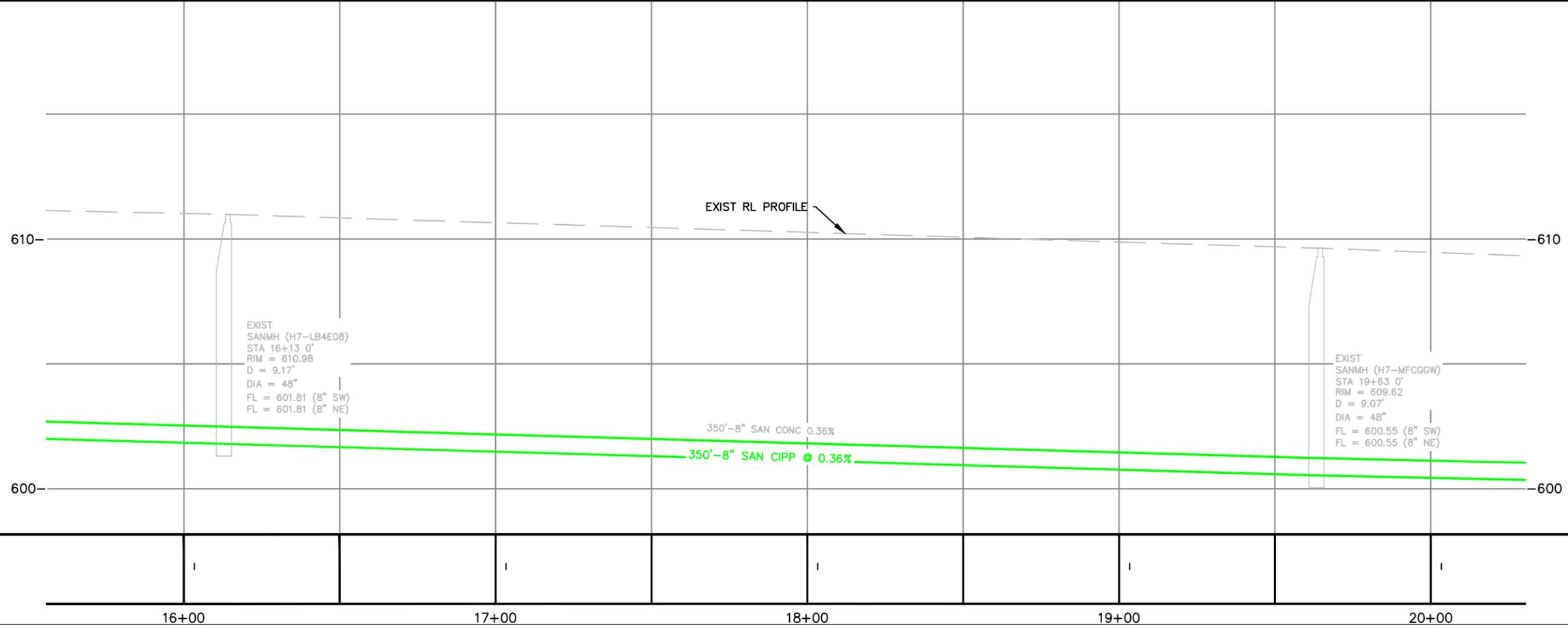
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SEE PAGE C101

SEE PAGE C103

NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.



**CITY OF DE PERE**

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

**OUTWARD AVENUE**

**350' N/O AZALEA TO 425' S/O WESTWOOD**

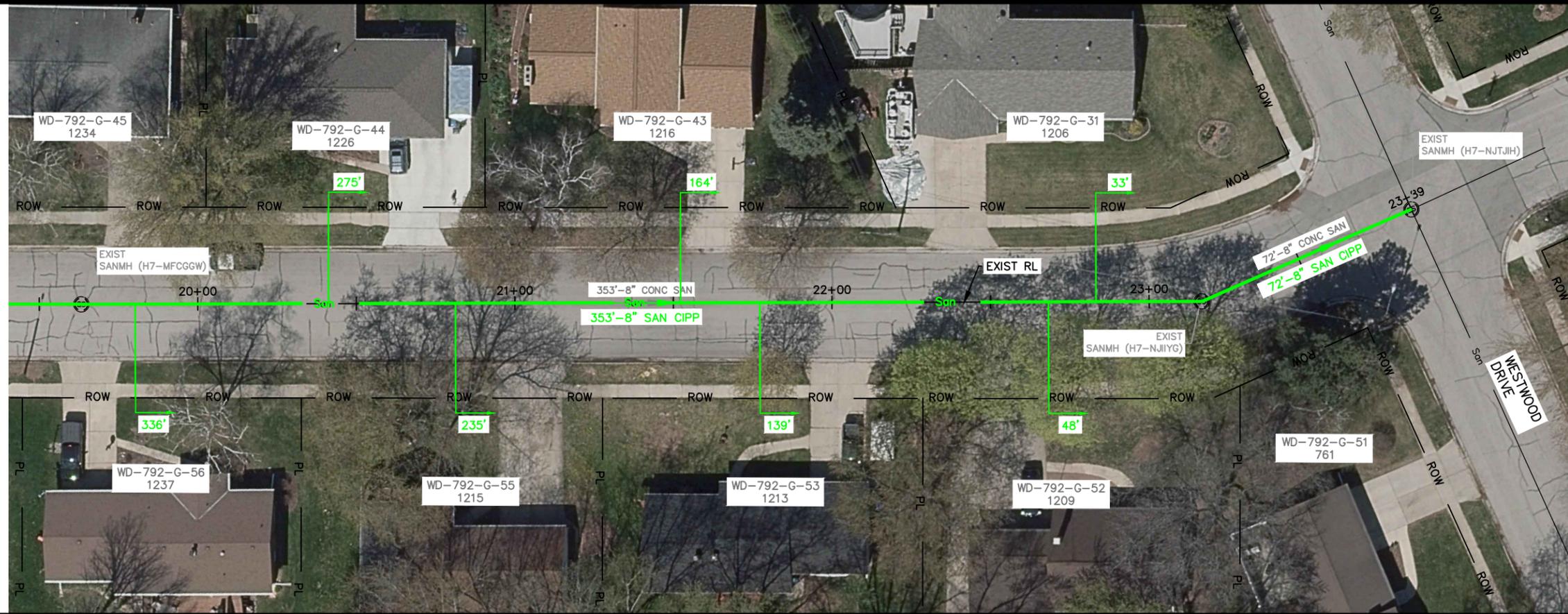
NAME: SEWER LINING

PROJECT # 21-03

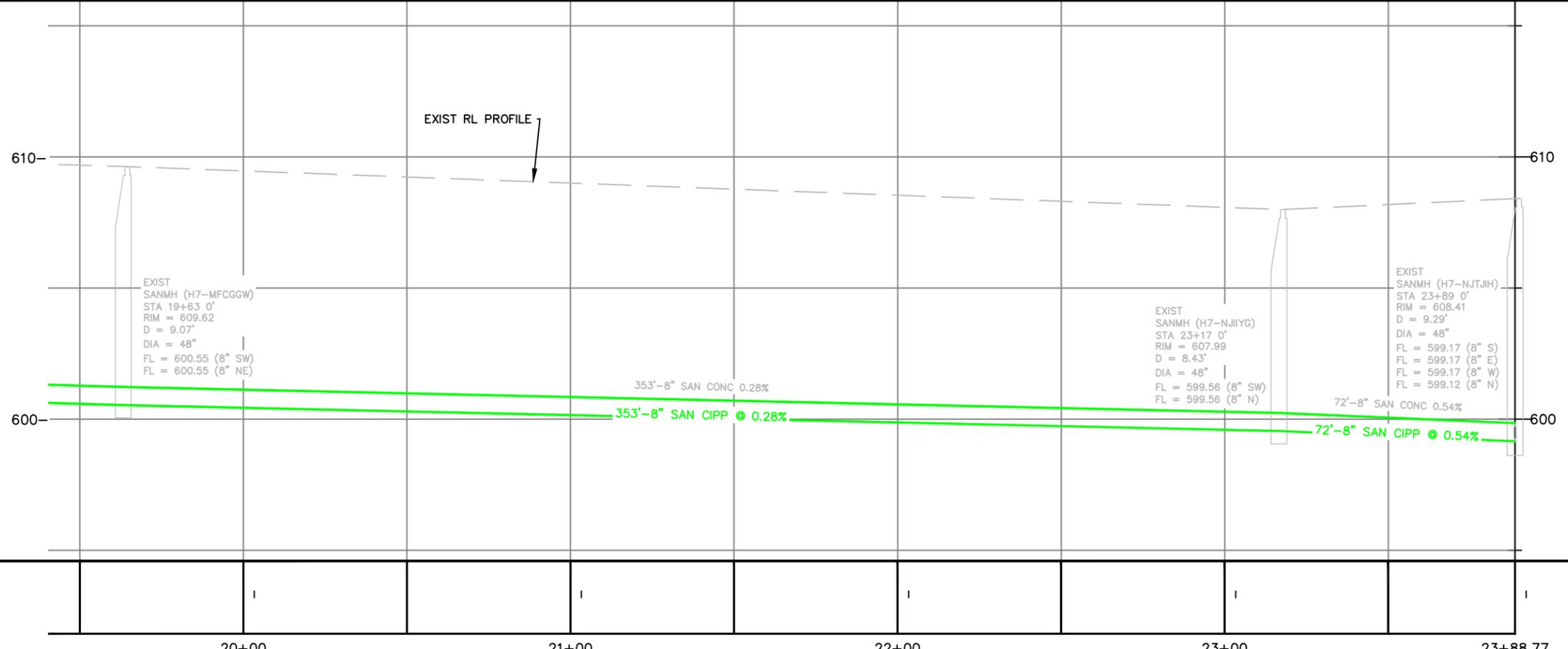
BY	DATE
SRL	12-2020
SRL	12-2020
SRL	12-2020
EPR	12-2020

REVISIONS / ISSUES	
NO.	DATE

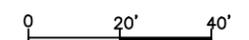
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SEE PAGE C102



NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.



**CITY OF DE PERE**

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

**OUTWARD AVENUE**  
**425' S/O WESTWOOD TO WESTWOOD DRIVE**

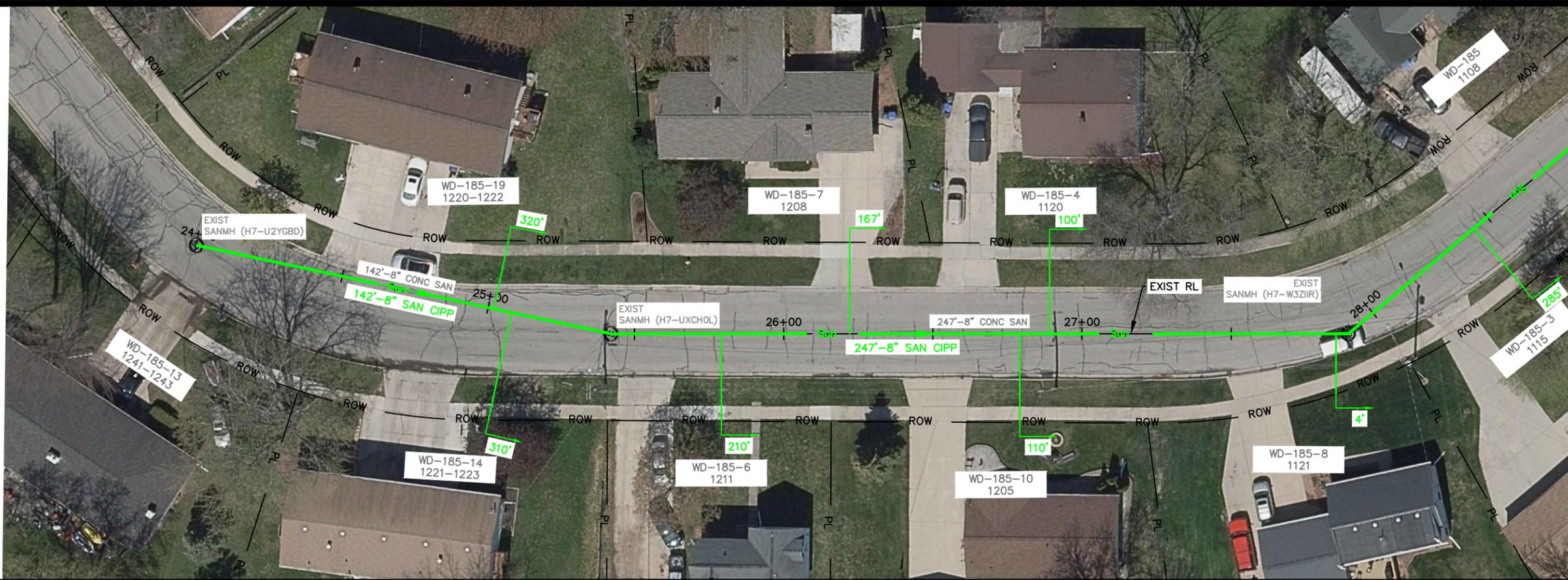
NAME: SEWER LINING  
PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

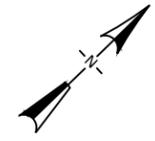
REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C103**

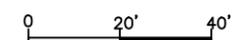
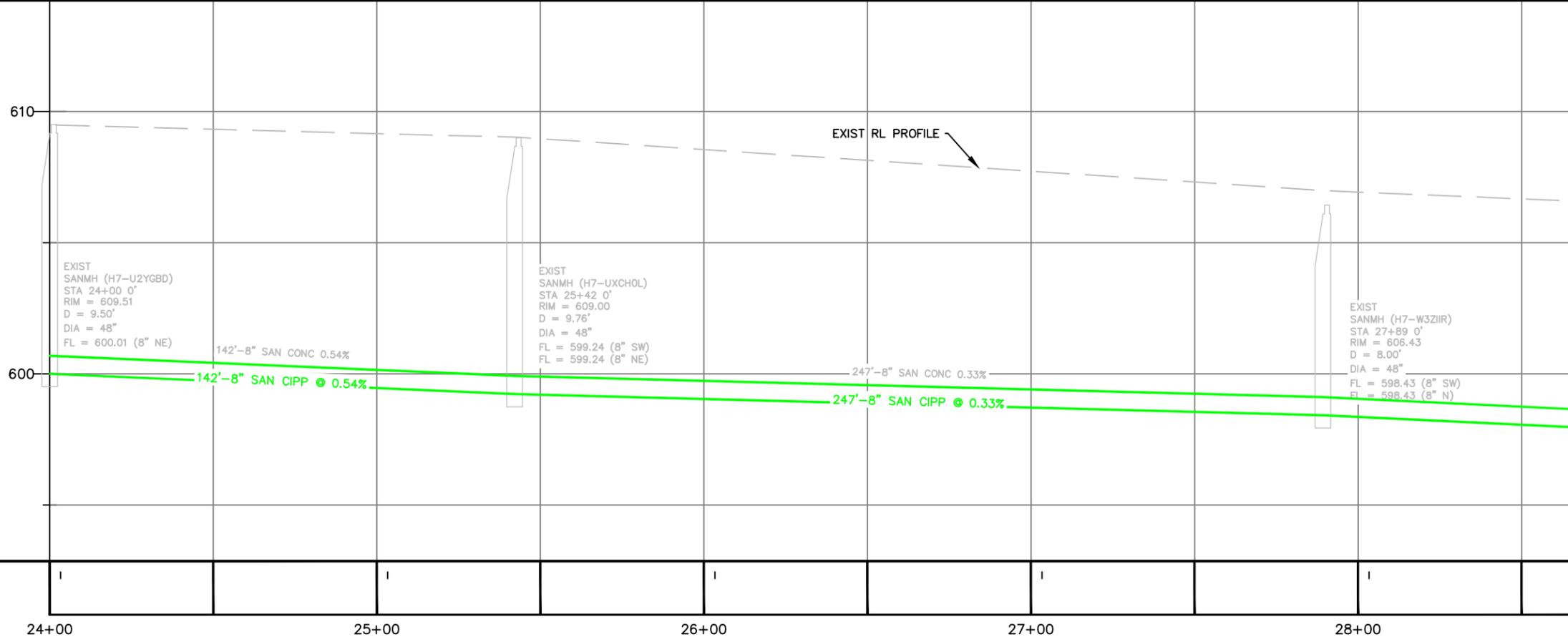
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SEE PAGE C105



NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.



**CITY OF DE PERE**

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

**SOUTH SIXTH STREET  
SEVENTH ST TO 500' N/O SEVENTH**

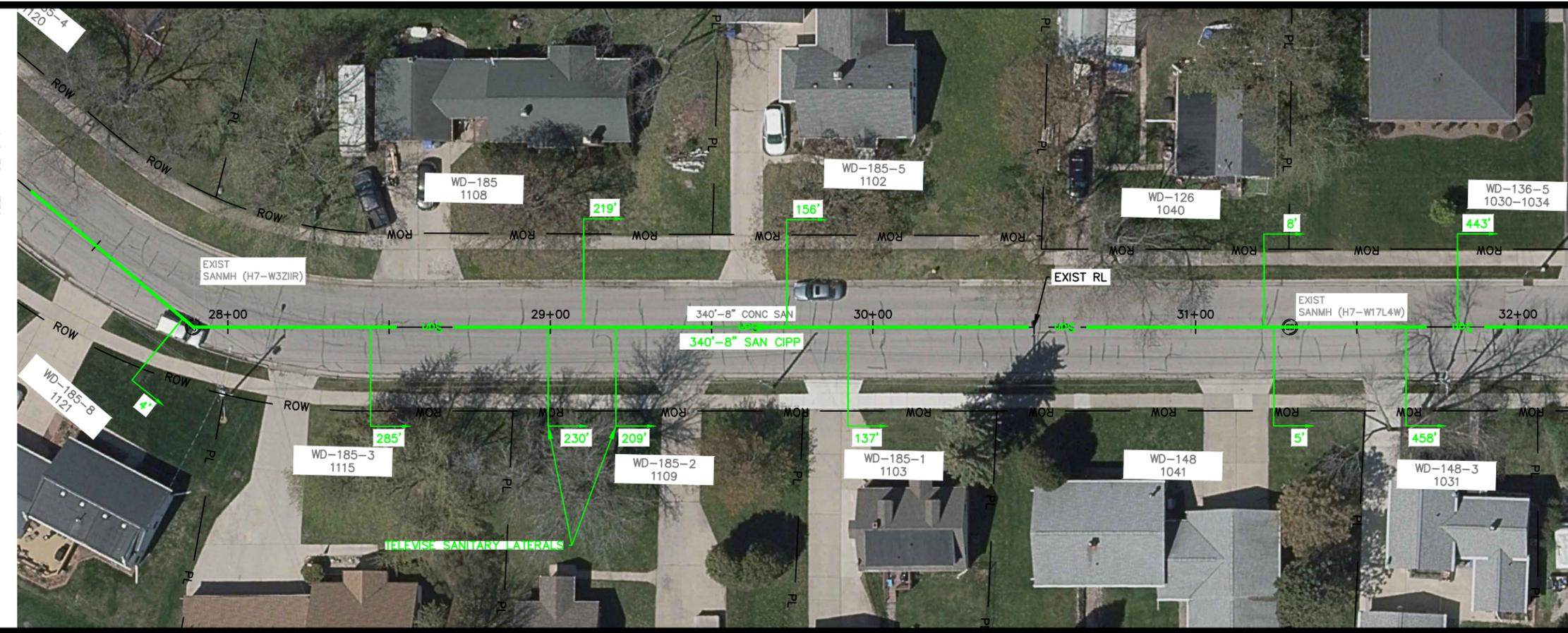
NAME: SEWER LINING  
PROJECT # 21-03

	BY	DATE
SURVEYED	SRL	12-2020
DRAWN	SRL	12-2020
DESIGNED	SRL	12-2020
CHECKED	EPR	12-2020

REVISIONS / ISSUES		
NO.	DATE	REMARKS

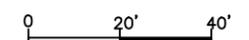
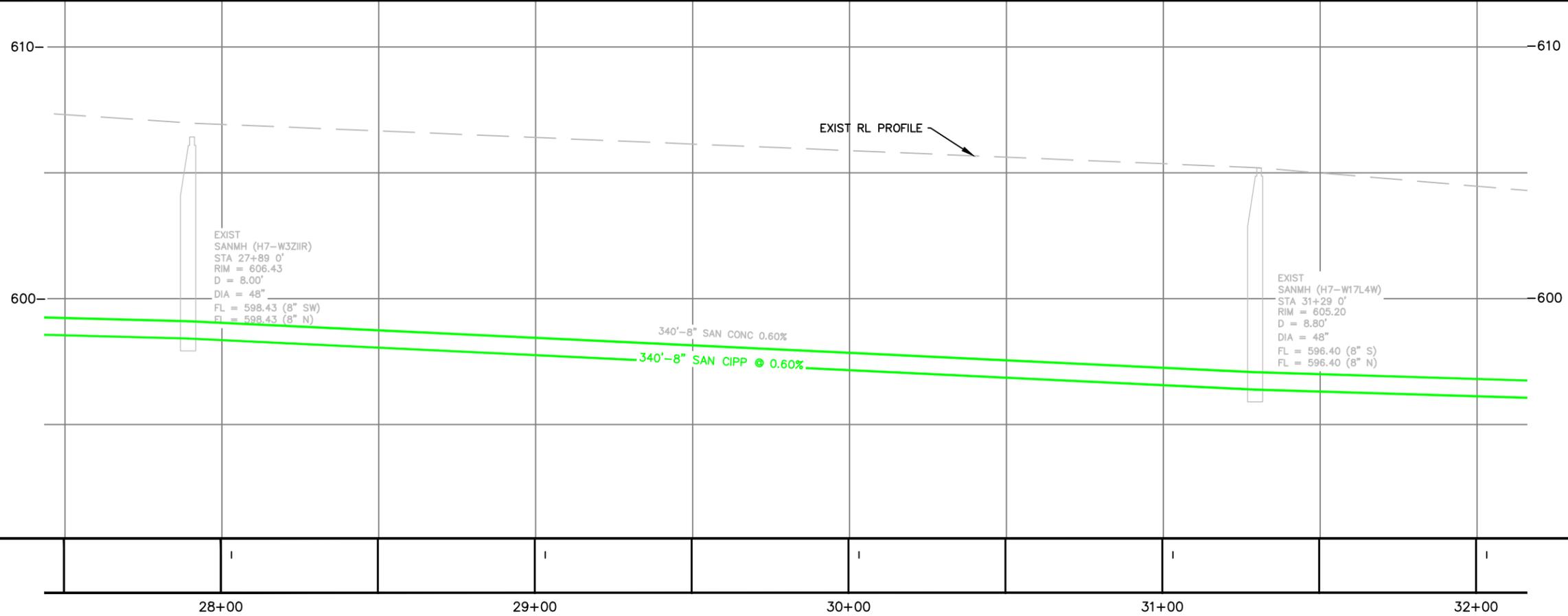
PAGE NO.  
**C104**

SEE PAGE C104



SEE PAGE C106

- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

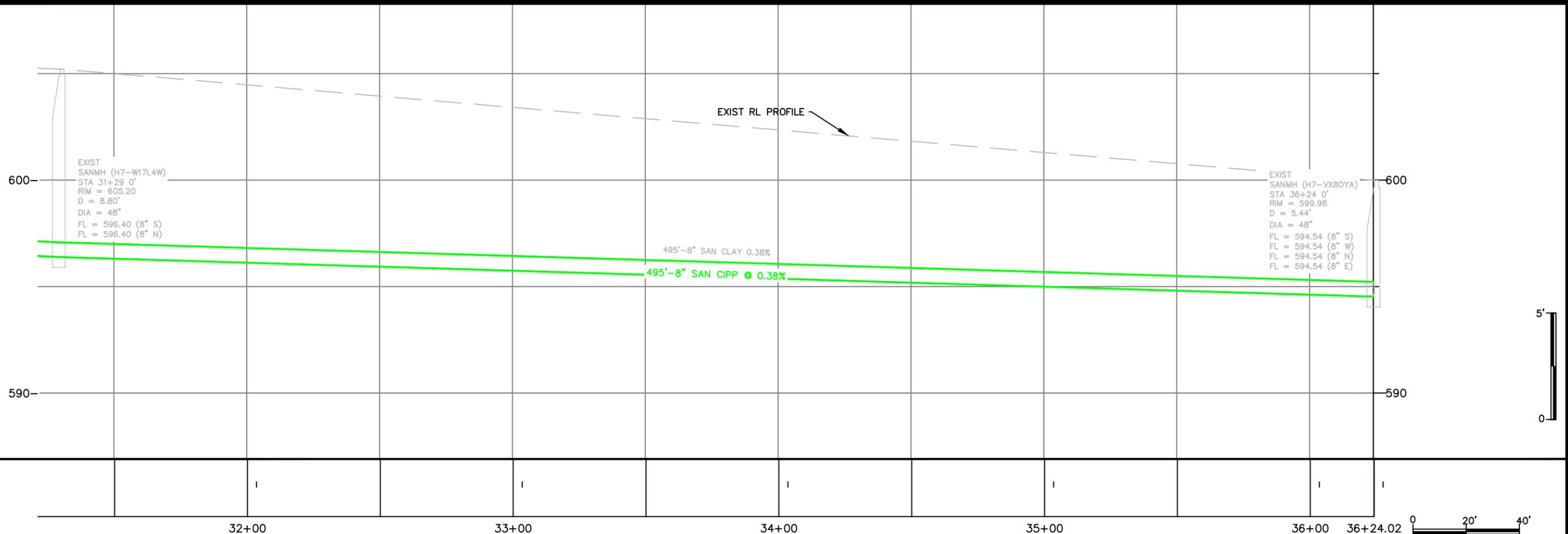
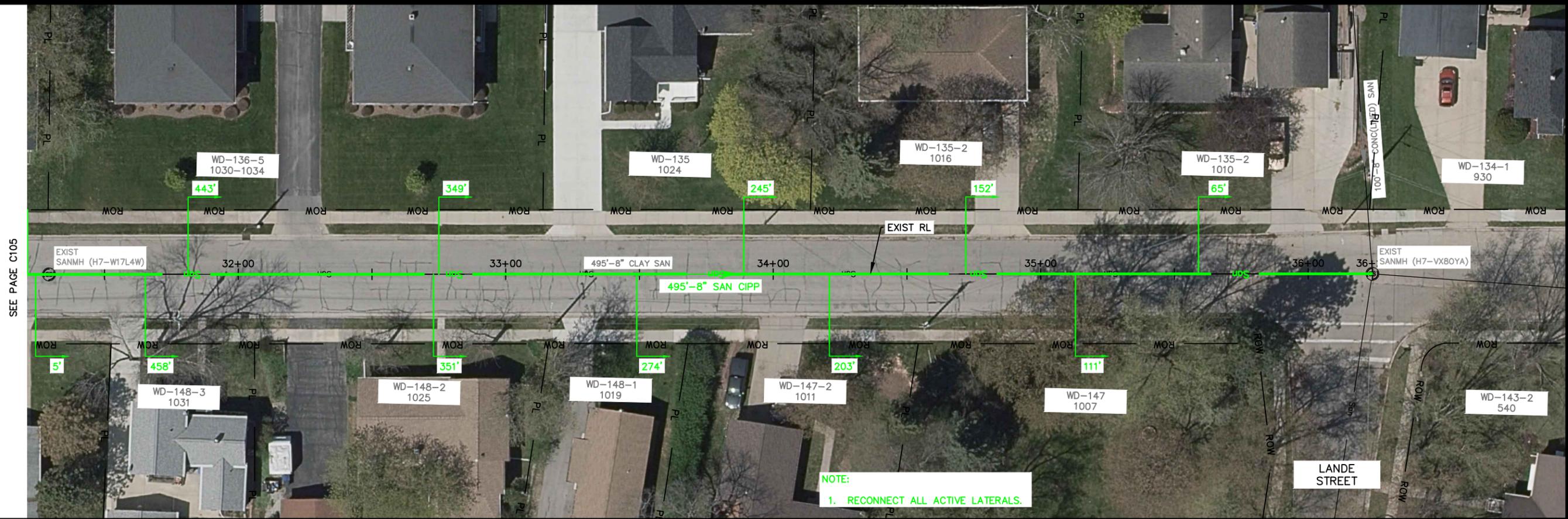
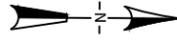
**SOUTH SIXTH STREET**  
**500' N/O SEVENTH ST TO 500' S/O LANDE**

NAME: SEWER LINING  
PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

REVISIONS / ISSUES		
NO.	DATE	REMARKS

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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

**SOUTH SIXTH STREET  
500' S/O LANDE TO LANDE STREET**

NAME: SEWER LINING  
PROJECT # 21-03

NO.	DATE	BY
SURVEYED	12-2020	SRL
DRAWN	12-2020	SRL
DESIGNED	12-2020	SRL
CHECKED	12-2020	EPR

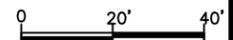
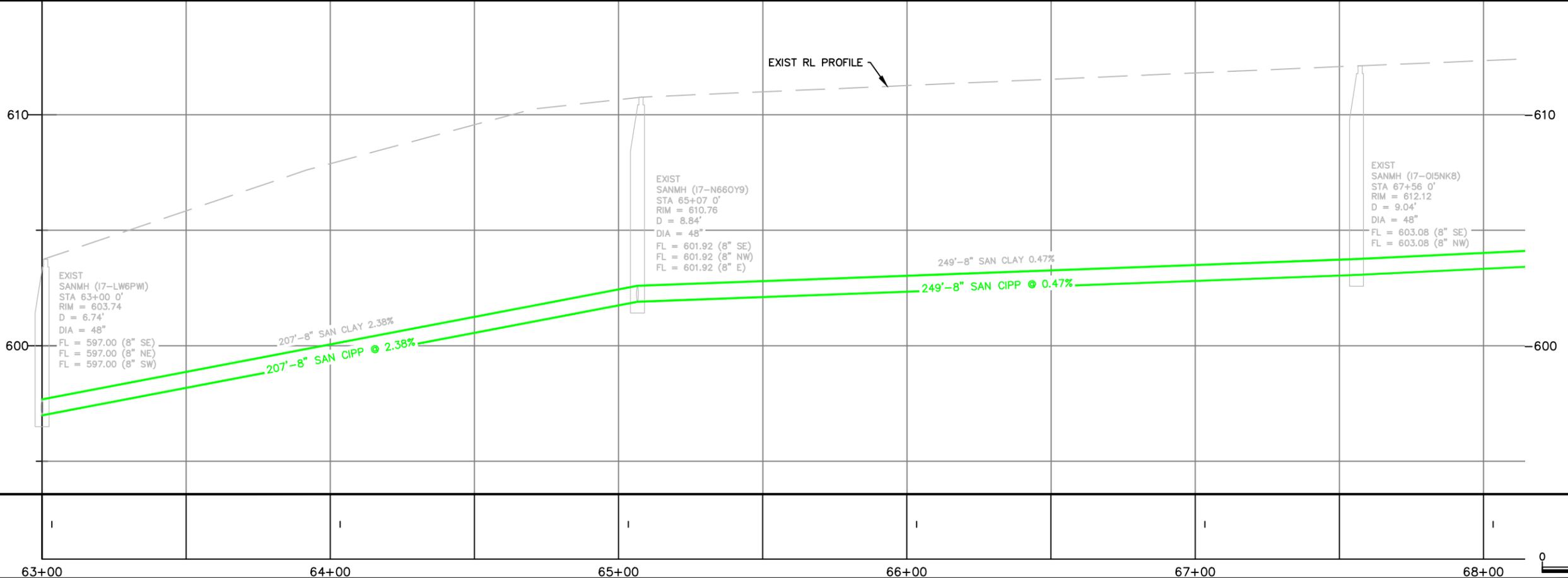
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NO.	DATE	REMARKS

PAGE NO. **C106**



NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.

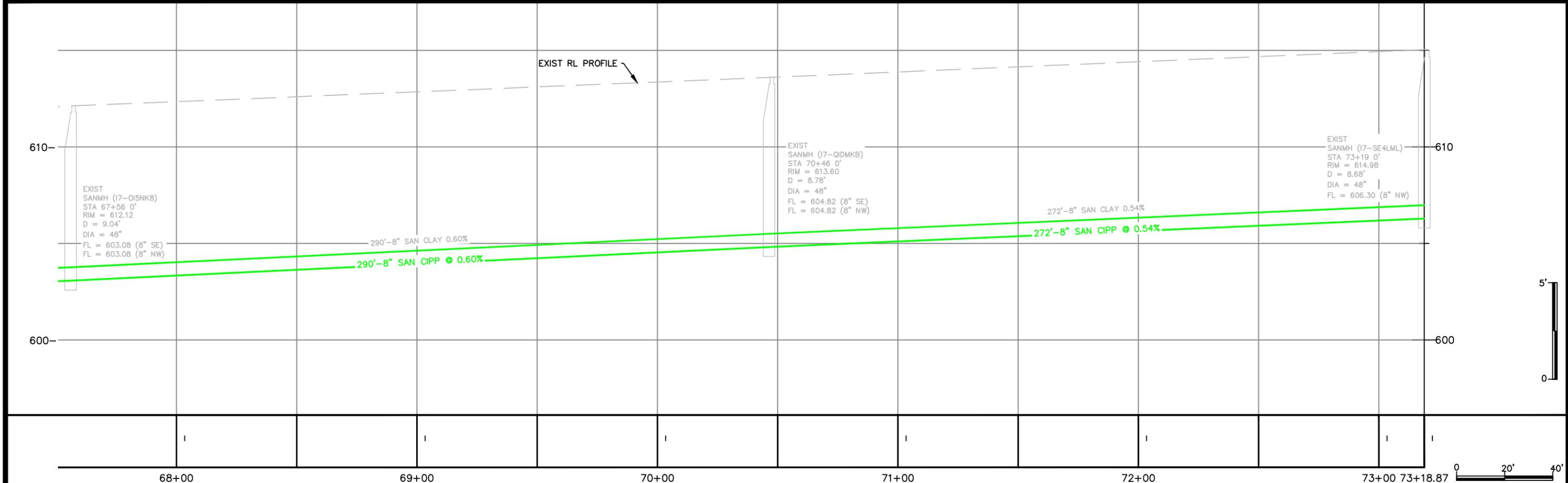
SEE PAGE C108



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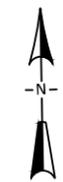
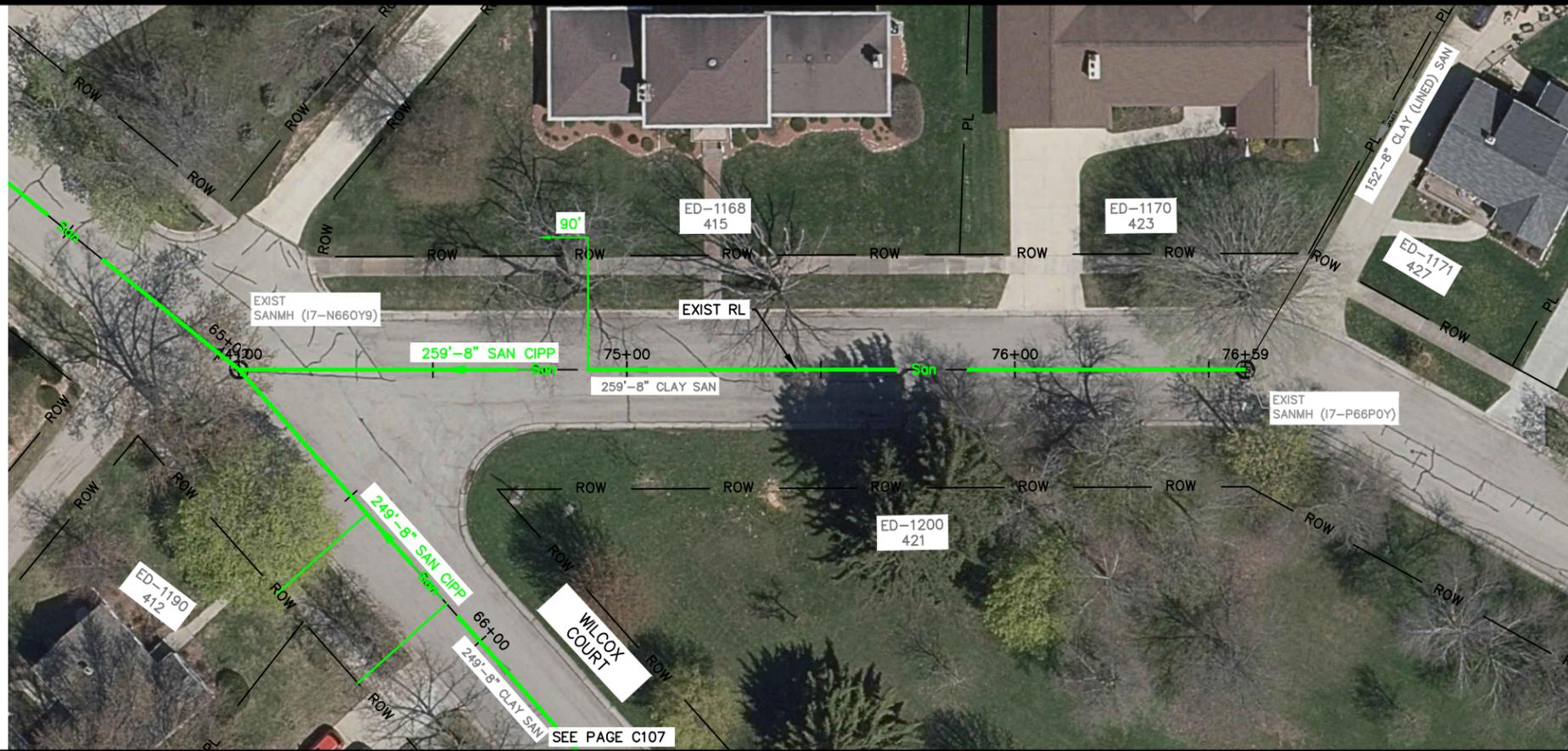


**NOTE:**  
1. RECONNECT ALL ACTIVE LATERALS.

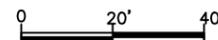
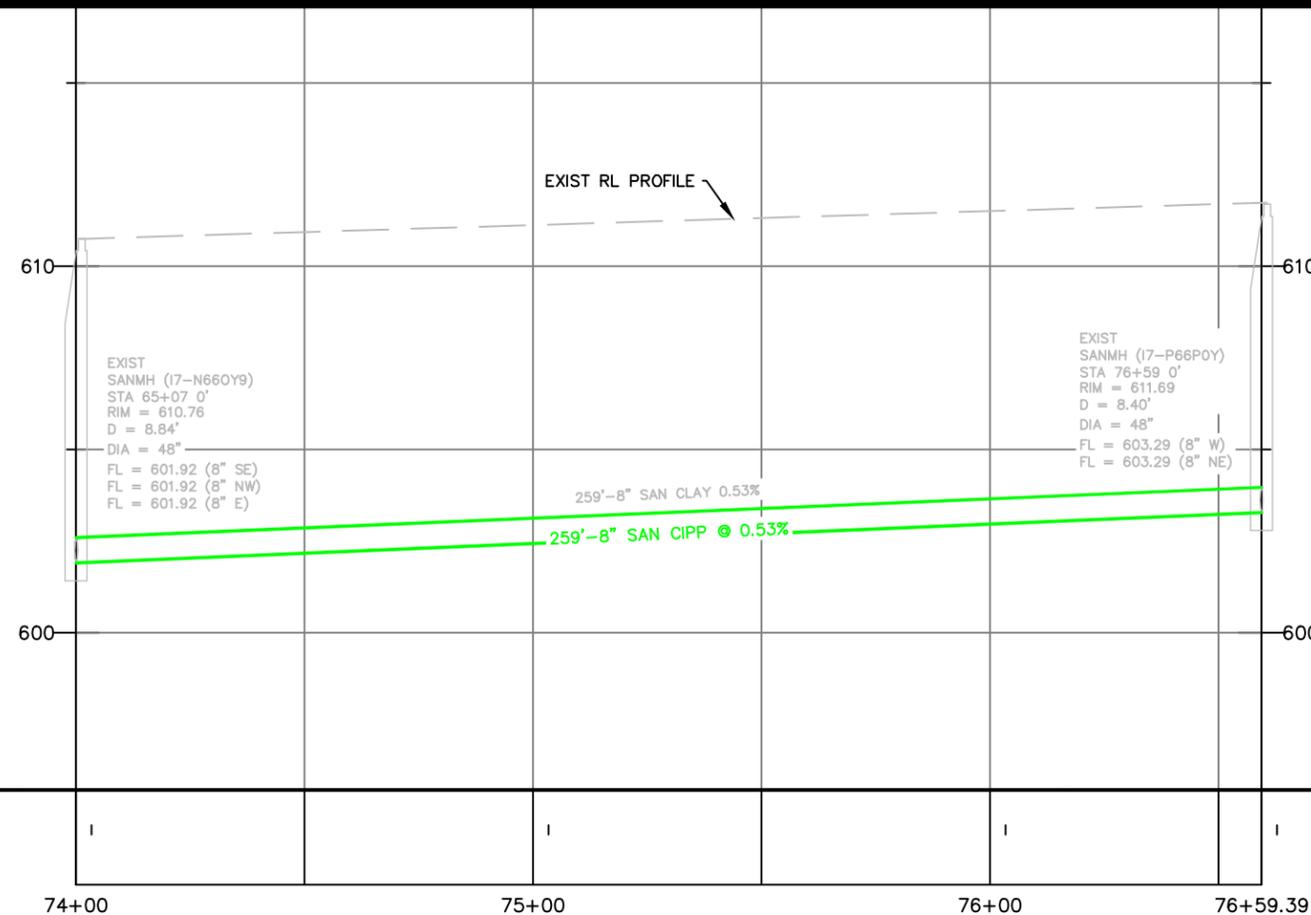


	<b>CITY OF DE PERE</b>	<b>WILCOX COURT</b>	NAME: SEWER LINING	BY: SRL	DATE: 12-2020	REVISIONS / ISSUES		PAGE NO.	
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	450' E/O FOX RIVER DR TO 1000' E/O FOX RIVER DR	PROJECT # 21-03	SURVEYED: SRL 12-2020	DESIGNED: SRL 12-2020	CHECKED: EPR 12-2020	NO.	DATE	REMARKS

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NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.



**CITY OF DE PERE**

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

**WILCOX COURT**

**200' E/O FOX RIVER DR TO 450' E/O FOX RIVER DR**

NAME: SEWER LINING

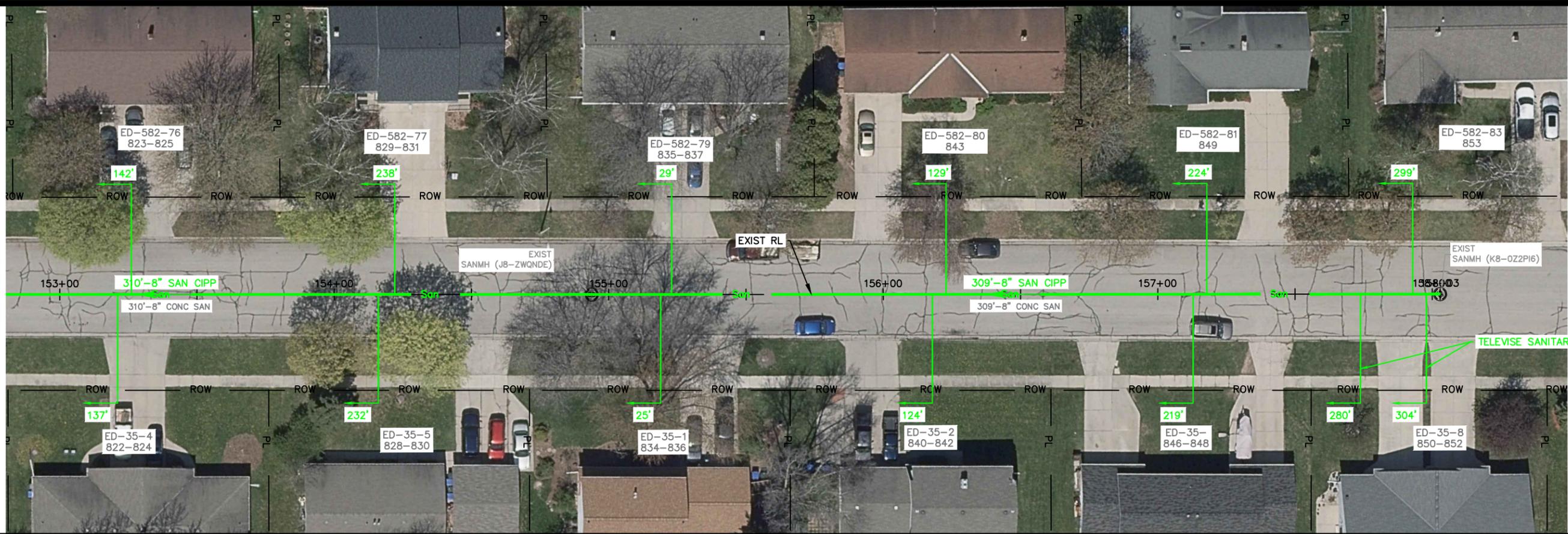
PROJECT # 21-03

NO.	DATE	BY
SURVEYED	12-2020	SRL
DRAWN	12-2020	SRL
DESIGNED	12-2020	SRL
CHECKED	12-2020	EPR

REVISIONS / ISSUES		
NO.	DATE	REMARKS

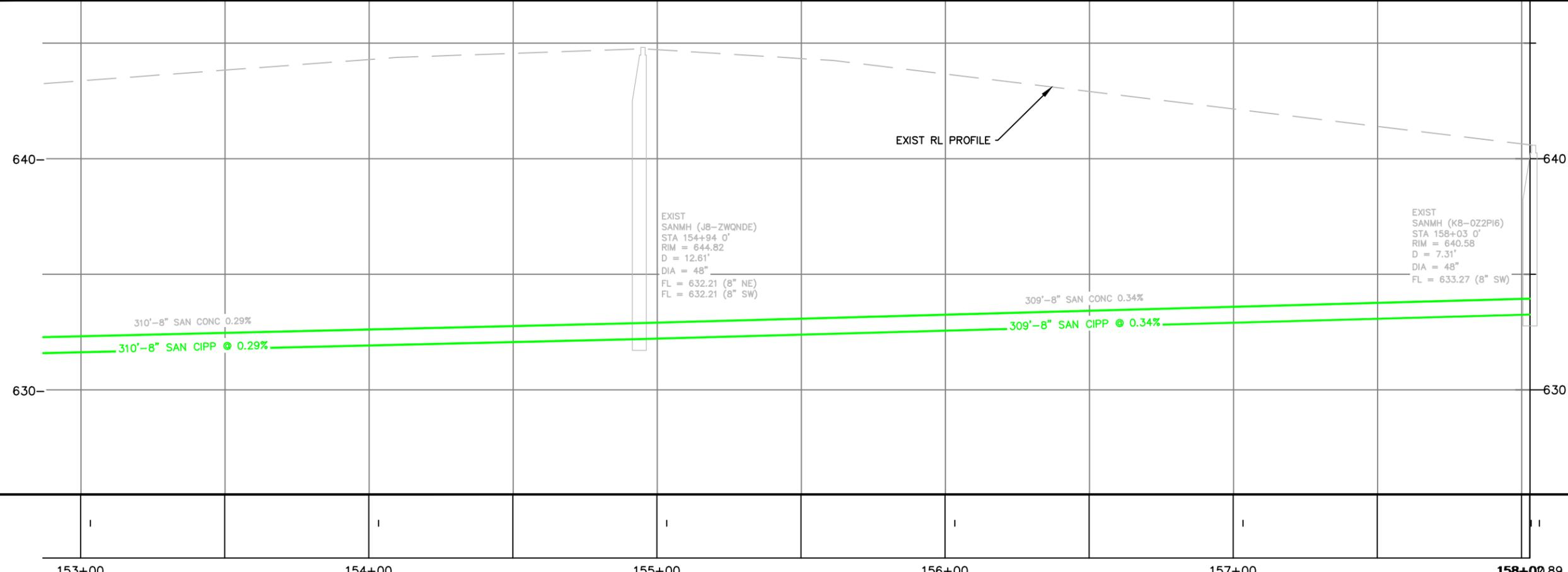
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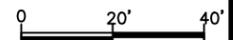


SEE PAGE C110

TELEWISE SANITARY LATERALS



- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**SMITS STREET**  
**450' N/O RIDGEWAY TO LEBRUN STREET**

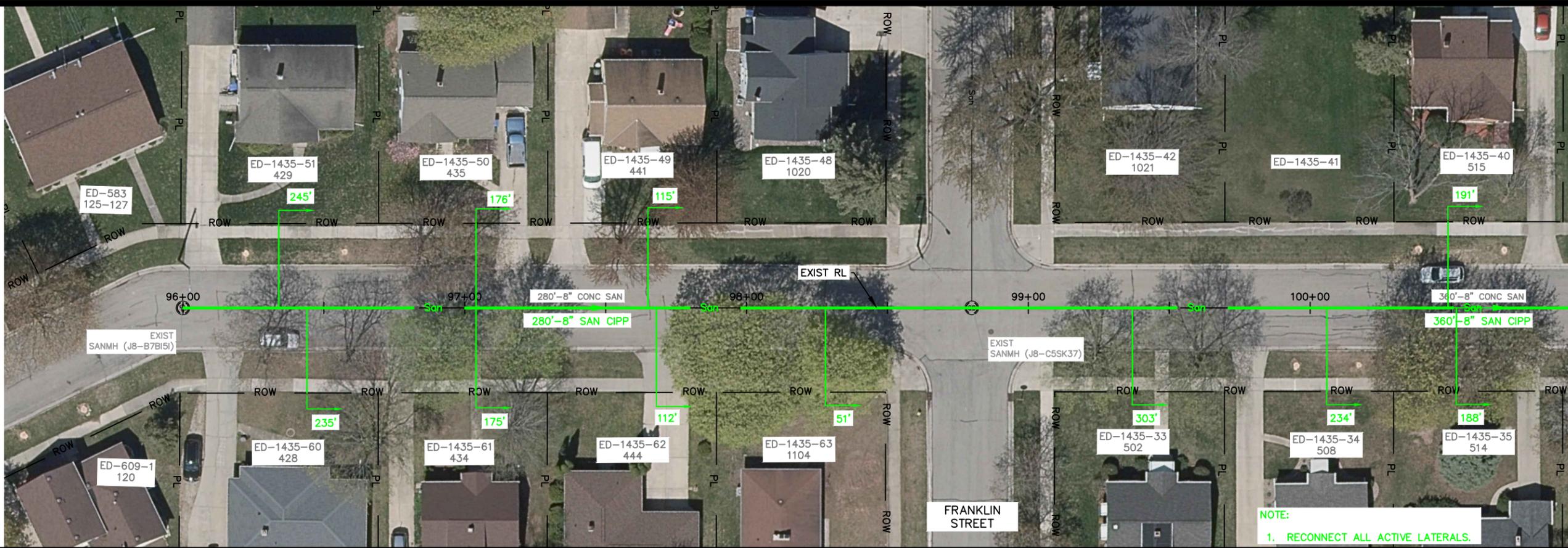
NAME: SEWER LINING  
PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

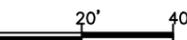
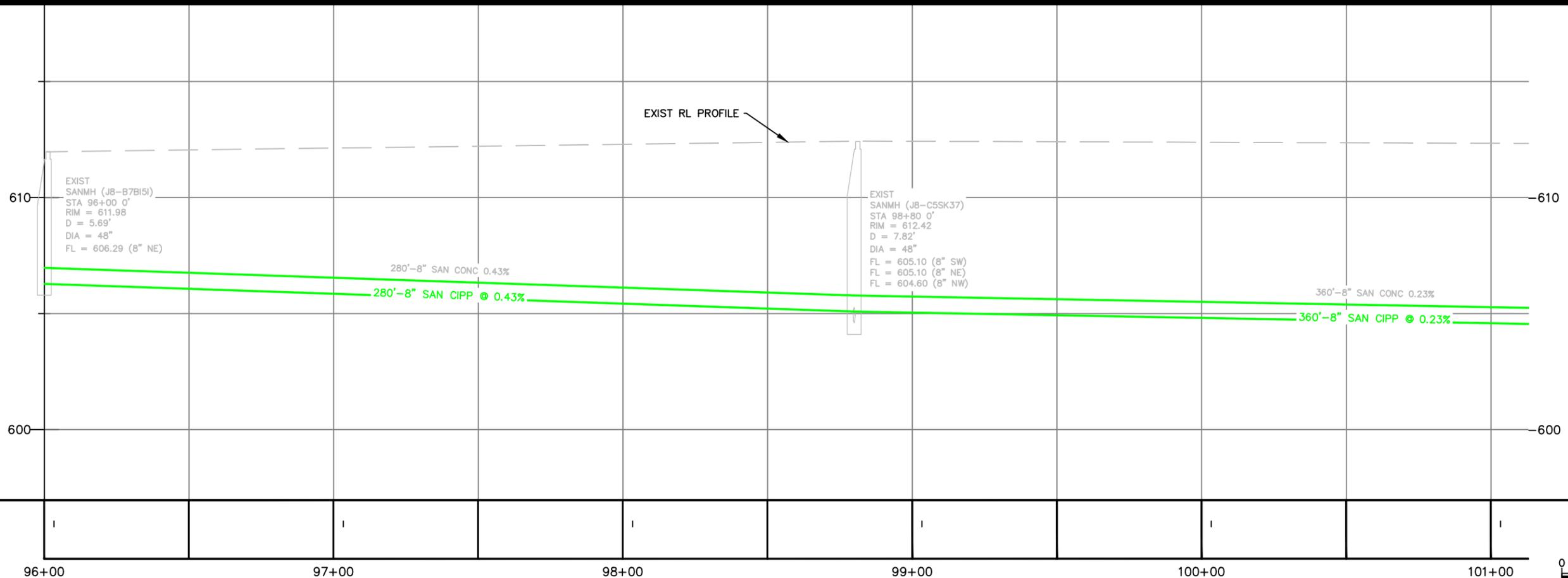
REVISIONS / ISSUES	
NO.	DATE

PAGE NO. **C111**

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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

**N. WINNEBAGO STREET  
300' N/O GEORGE ST TO 200' N/O FRANKLIN ST**

NAME: SEWER LINING  
PROJECT # 21-03

NO.	DATE	BY
SURVEYED	12-2020	SRL
DRAWN	12-2020	SRL
DESIGNED	12-2020	SRL
CHECKED	12-2020	EPR

REVISIONS / ISSUES		
NO.	DATE	BY

PAGE NO. **C112**

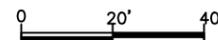
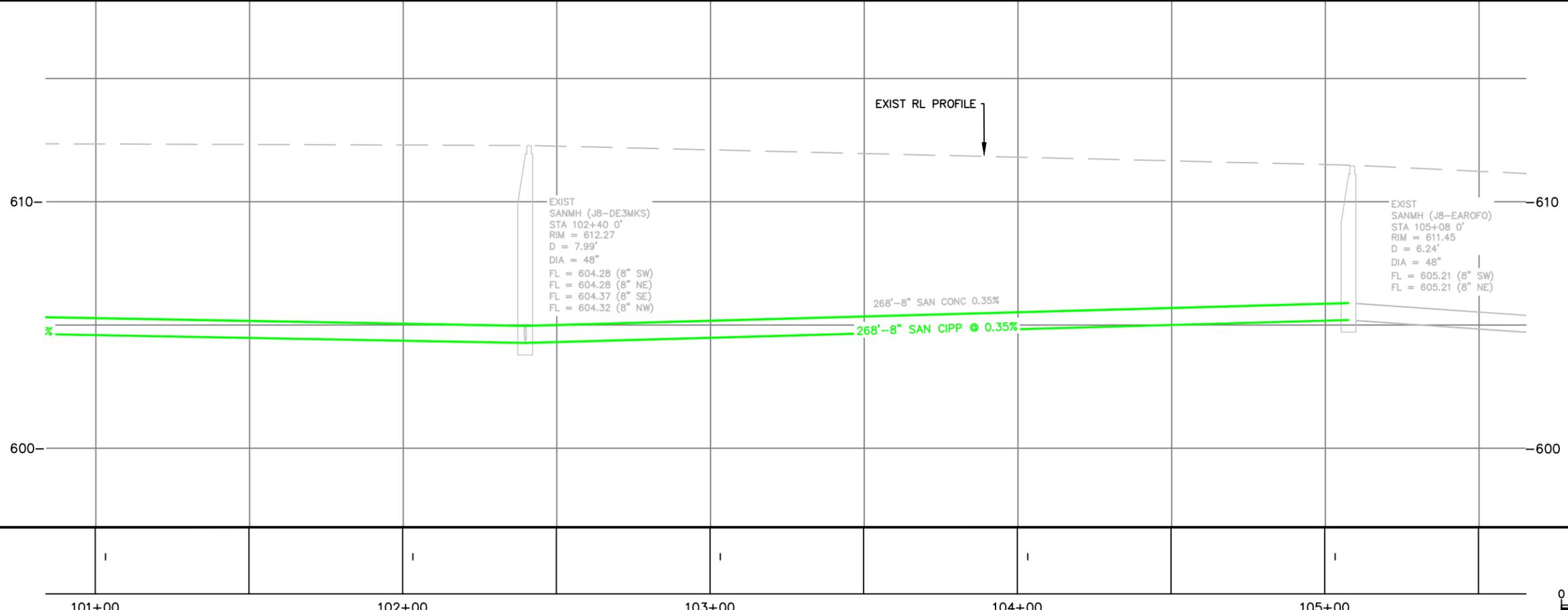
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SEE PAGE C112



NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.



**CITY OF DE PERE**

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

**N. WINNEBAGO STREET**  
**200' N/O FRANKLIN ST TO 300' N/O FULTON ST**

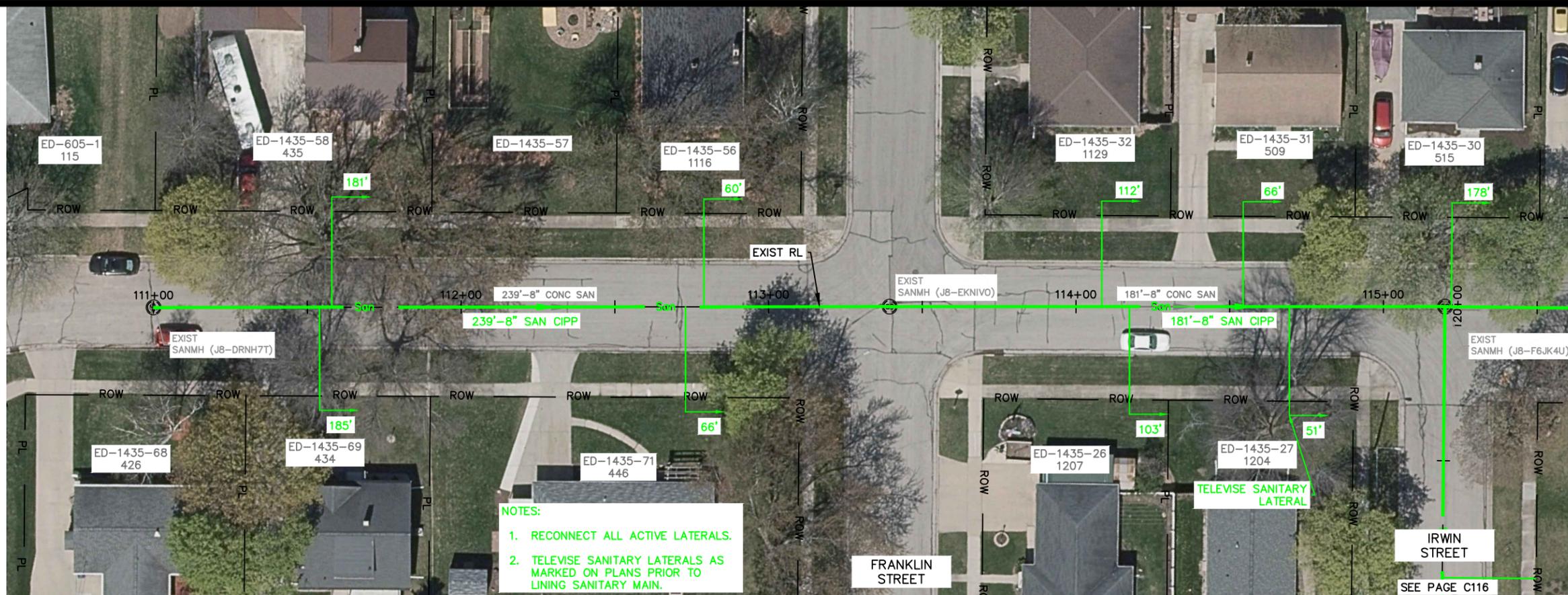
NAME: SEWER LINING  
PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

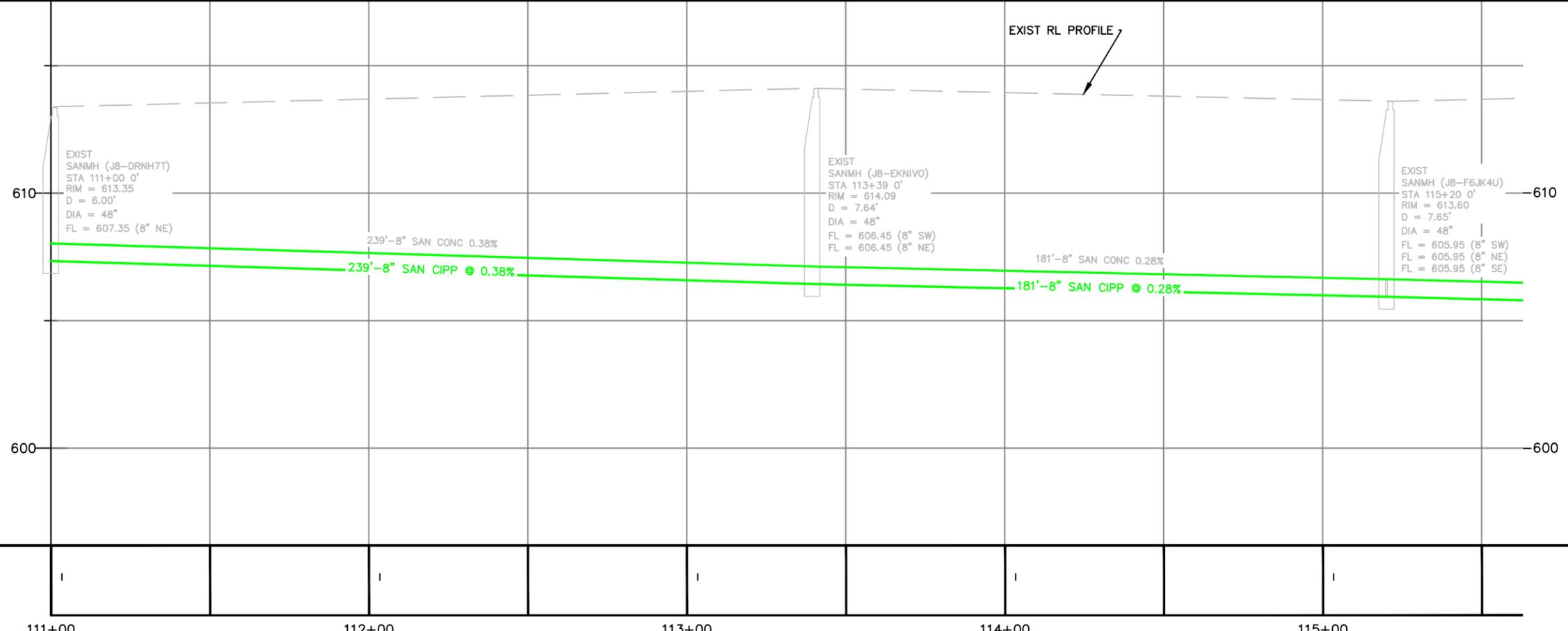
REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C113**

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- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEVISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



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

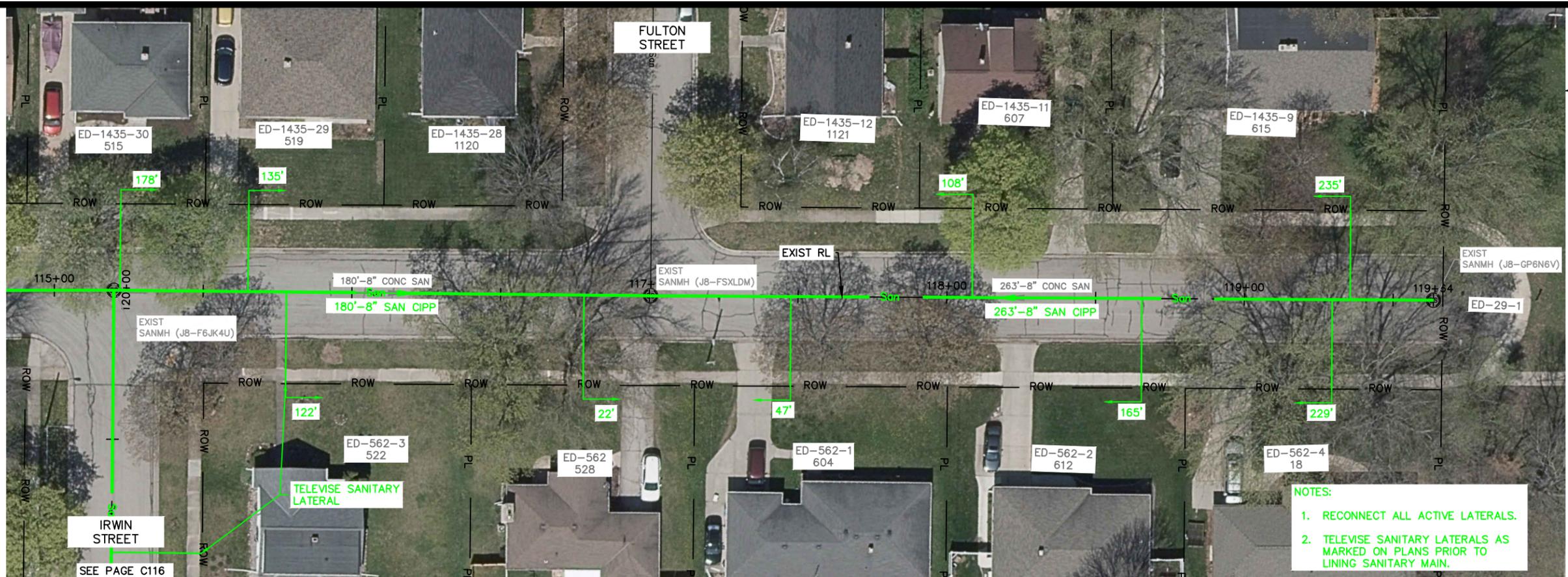
**N. WASHINGTON STREET**  
**200' N/O FRANKLIN ST TO IRWIN ST**

NAME: SEWER LINING  
 PROJECT # 21-03

NO.	DATE	BY
SURVEYED	12-2020	SRL
DRAWN	12-2020	SRL
DESIGNED	12-2020	SRL
CHECKED	12-2020	EPR

REVISIONS / ISSUES		
NO.	DATE	REMARKS

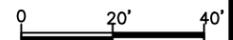
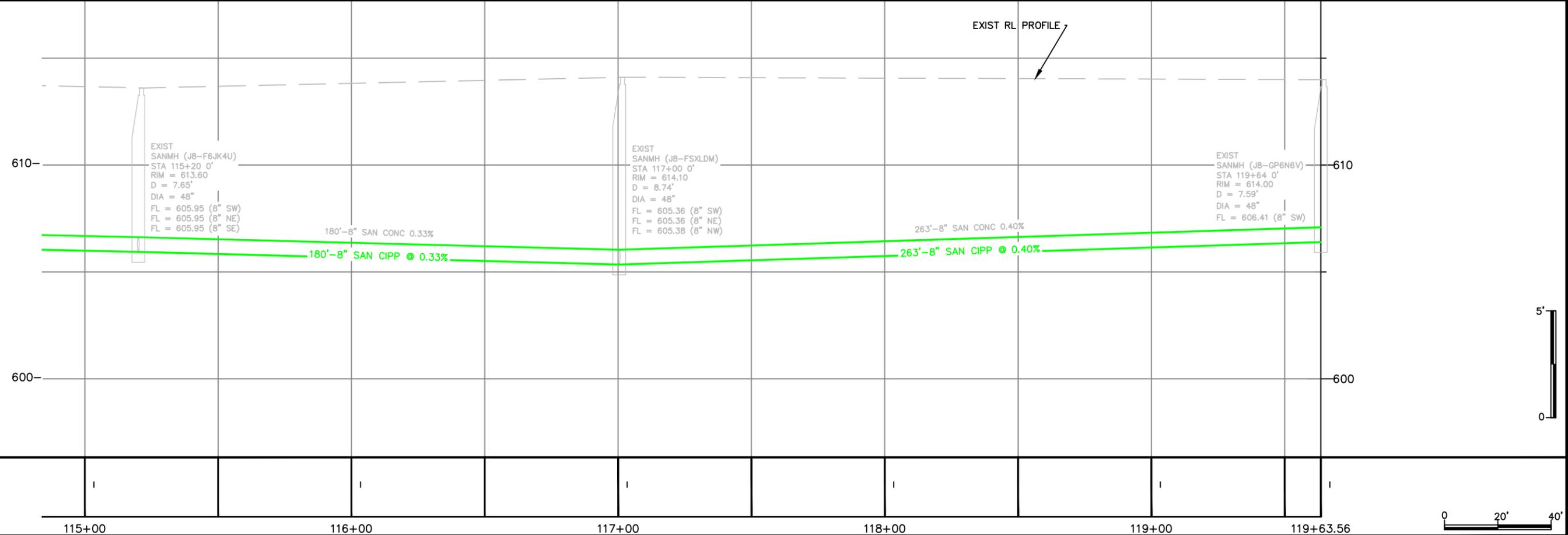
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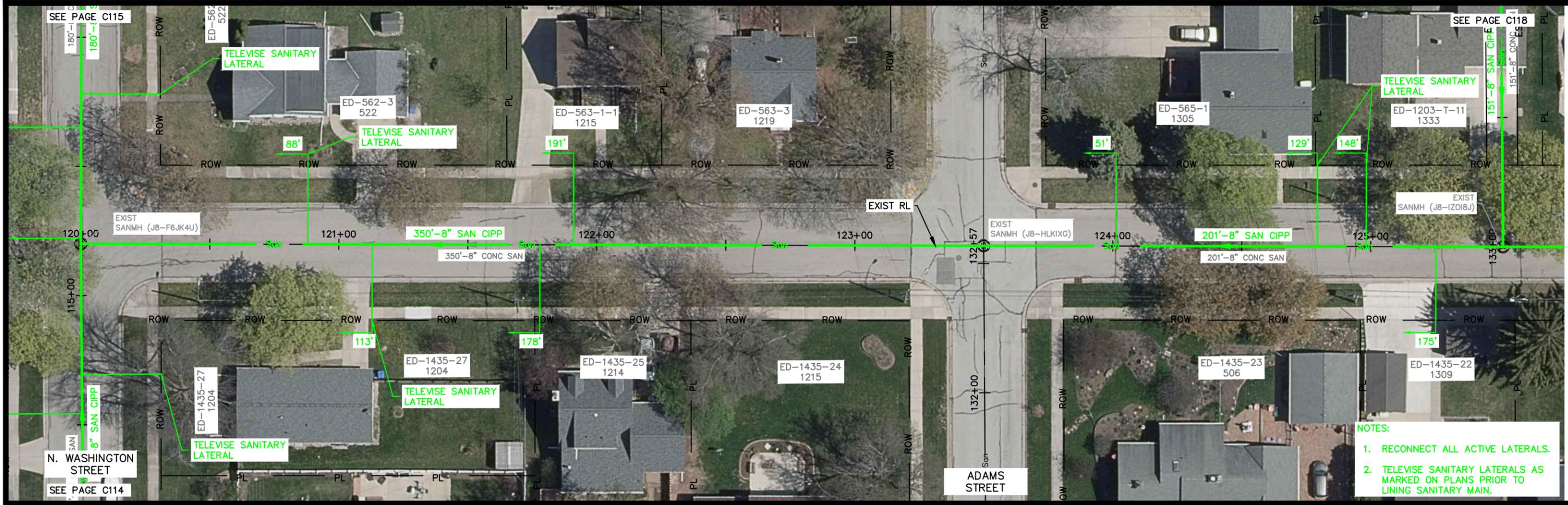
SEE PAGE C114

SEE PAGE C116

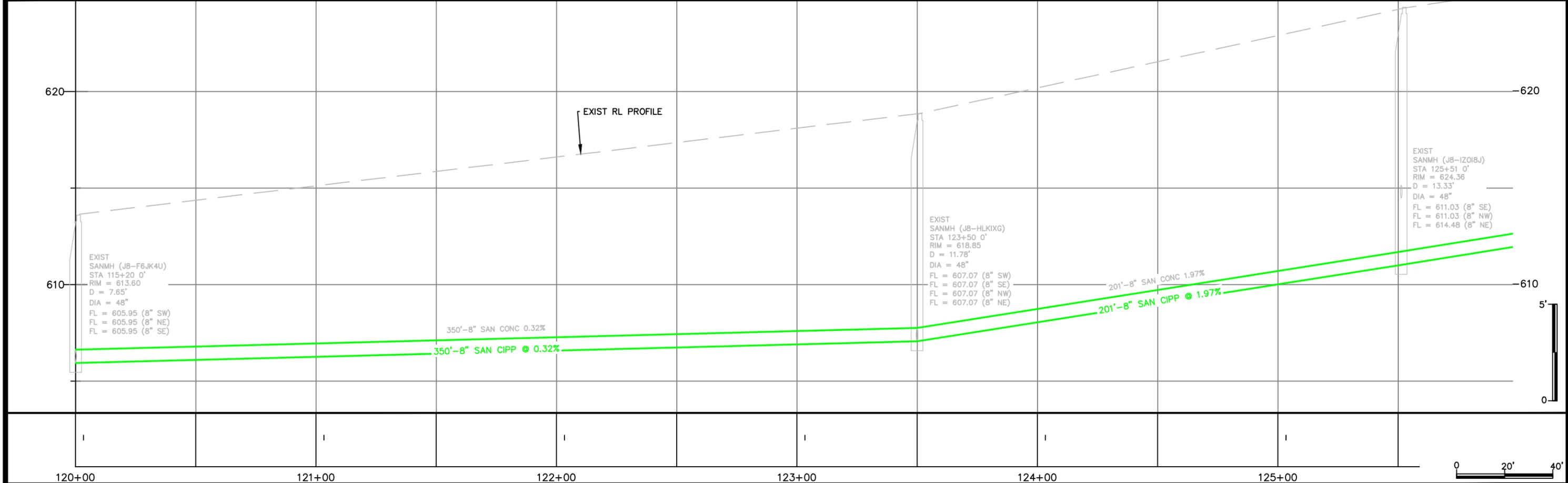
- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



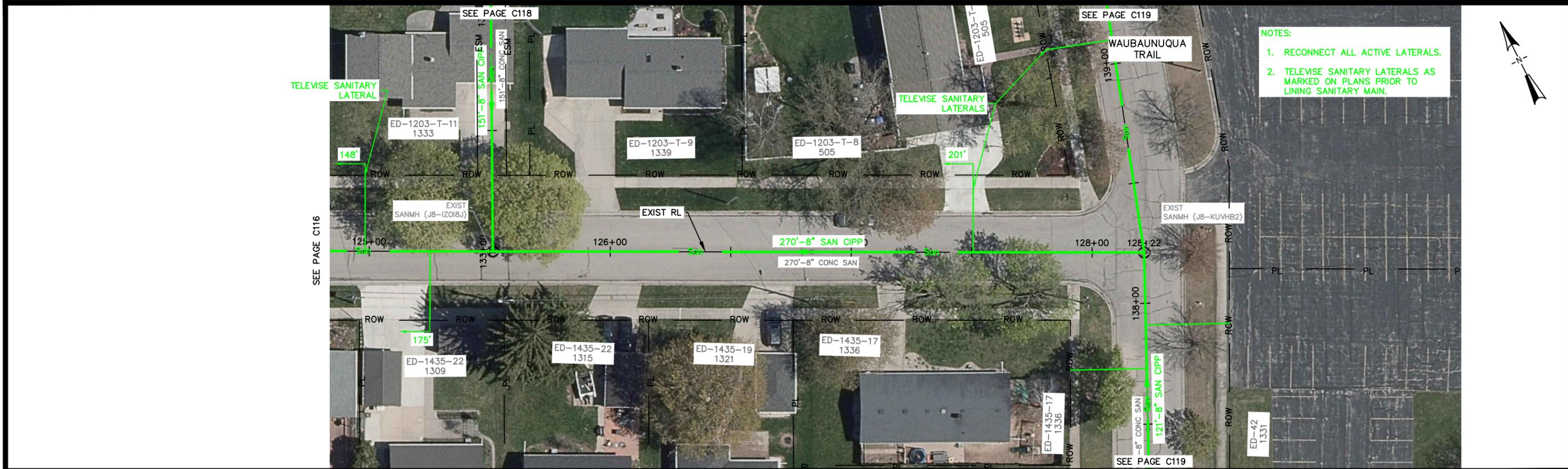
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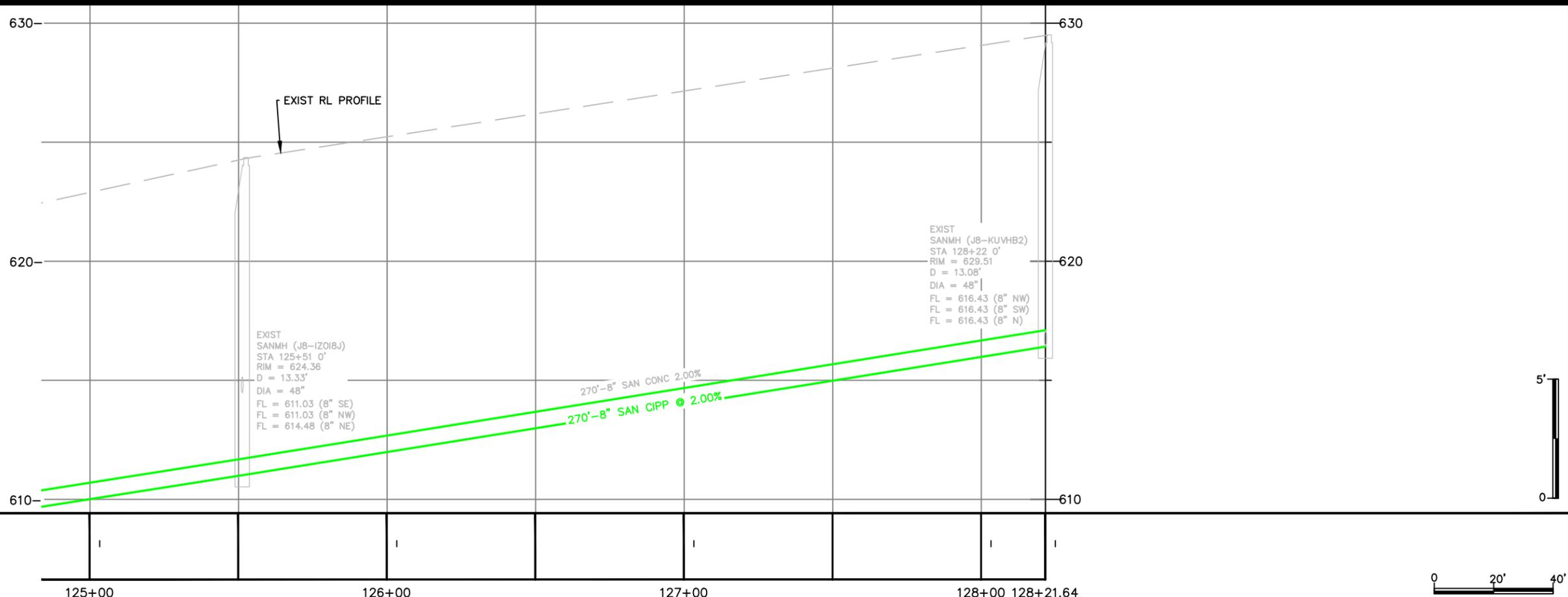
- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



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- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**IRWIN STREET**

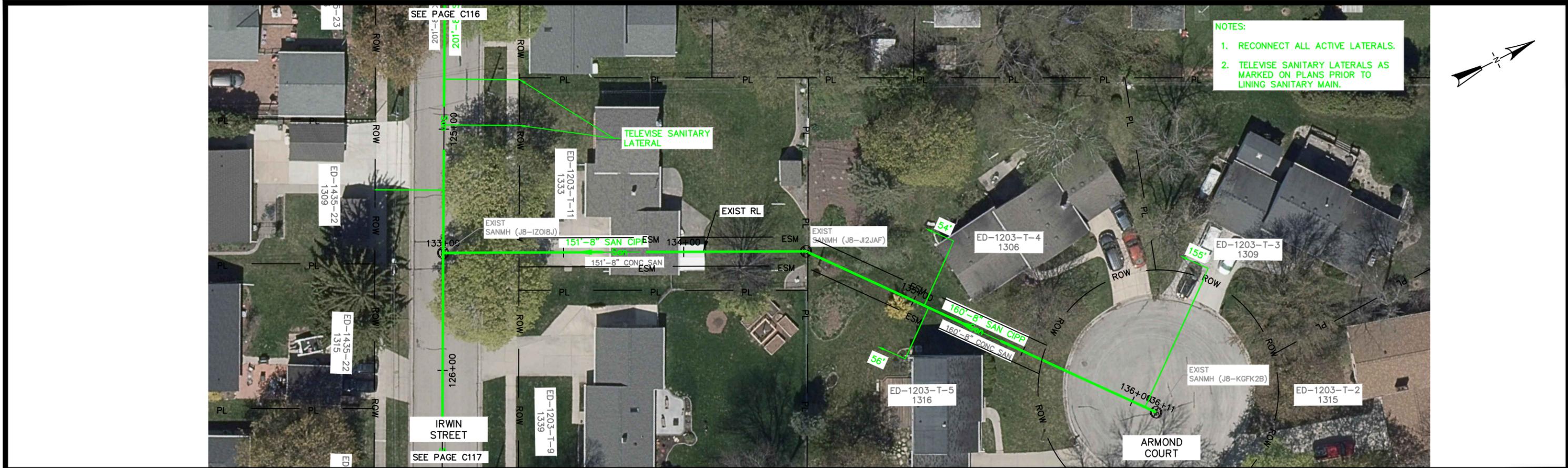
**200' E/O ADAMS ST TO WAUBAUNUQUA TRAIL**

NAME: SEWER LINING  
 PROJECT # 21-03

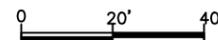
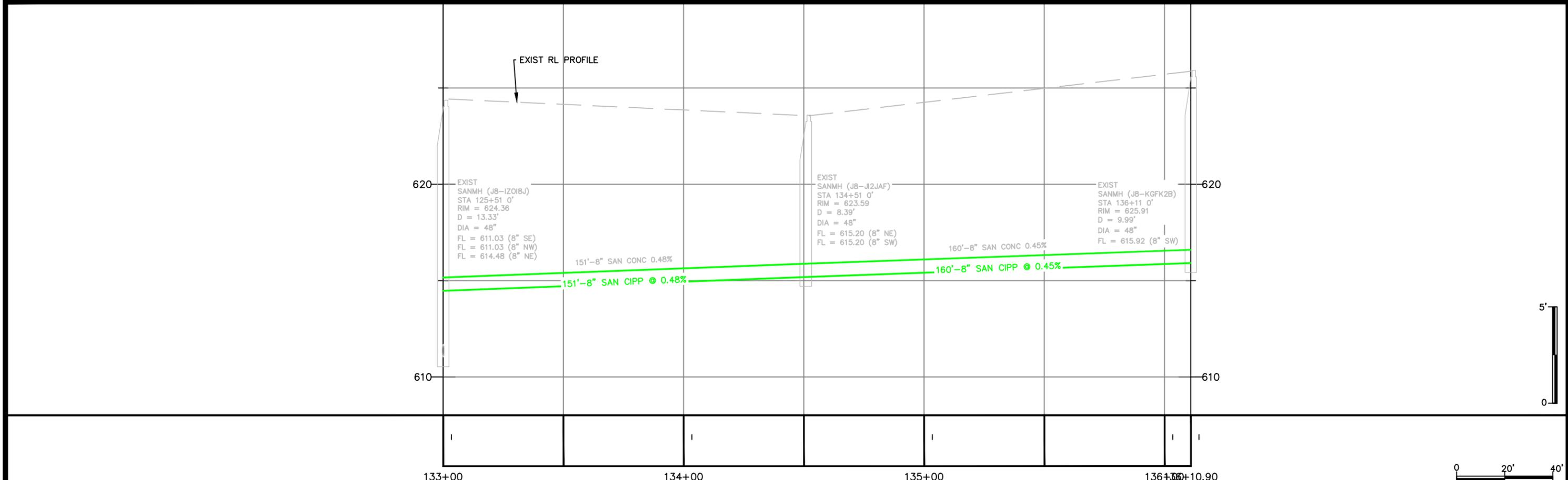
NO.	DATE	BY
SURVEYED	12-2020	SRL
DRAWN	12-2020	SRL
DESIGNED	12-2020	SRL
CHECKED	12-2020	EPR

REVISIONS / ISSUES		
NO.	DATE	REMARKS

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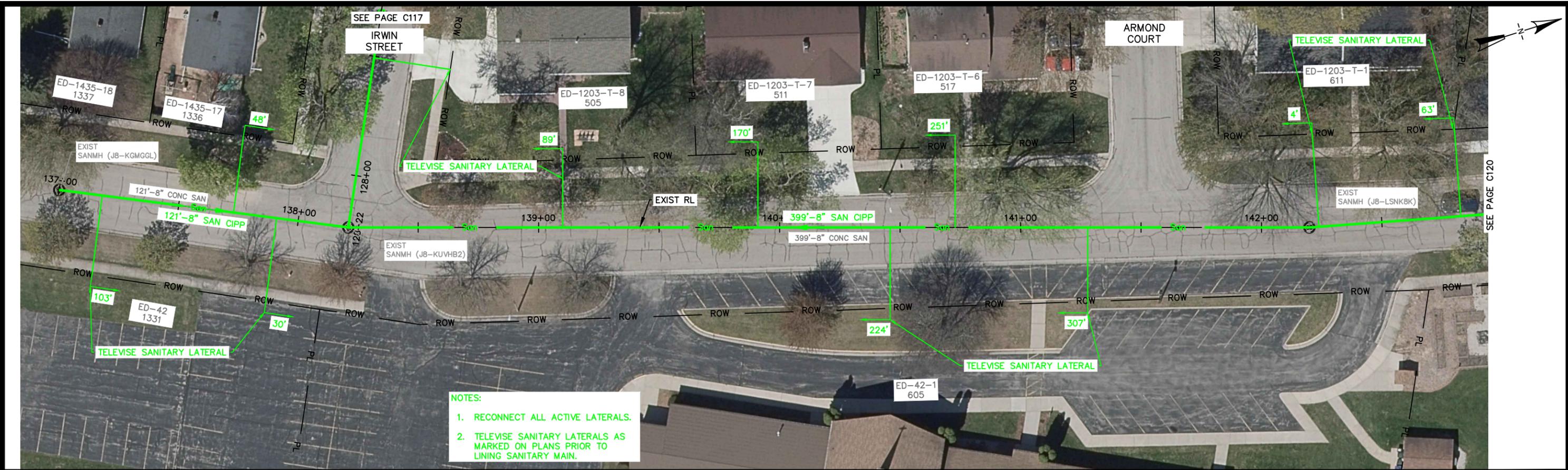


- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.

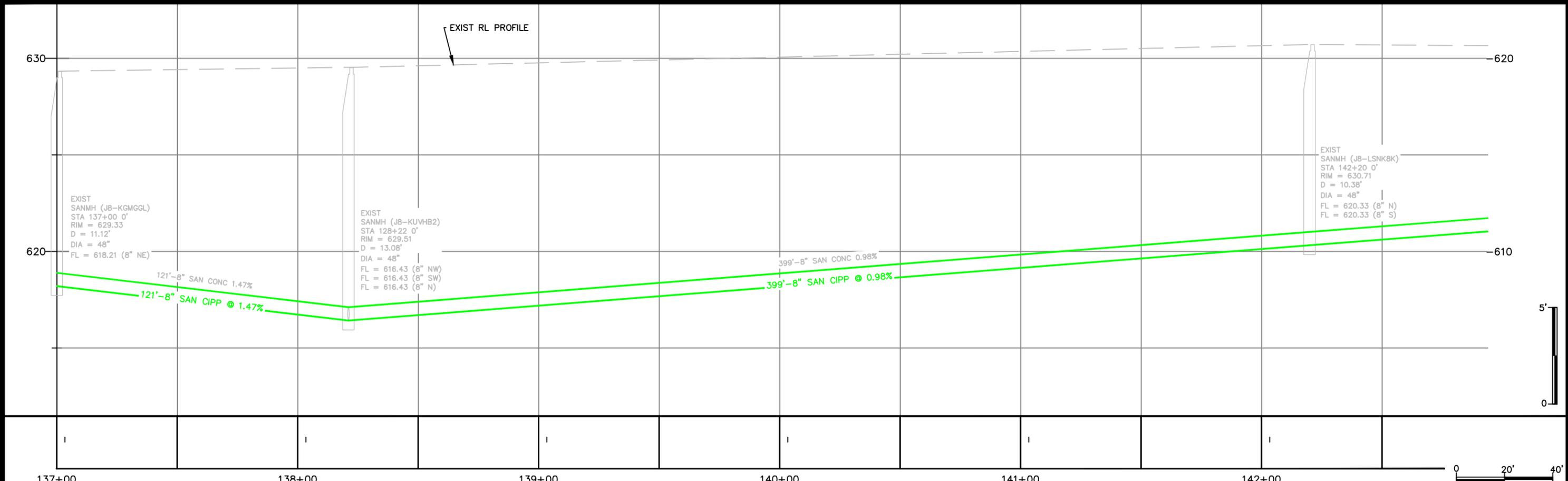


	<b>CITY OF DE PERE</b>	<b>ARMOND COURT EASEMENT</b> <b>IRWIN ST TO ARMOND COURT</b>	NAME: SEWER LINING	BY SRL	DATE 12-2020	REVISIONS / ISSUES		PAGE NO. <b>C118</b>
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT # 21-03	DESIGNED SRL	CHECKED EPR	DATE 12-2020	NO.	

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- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.

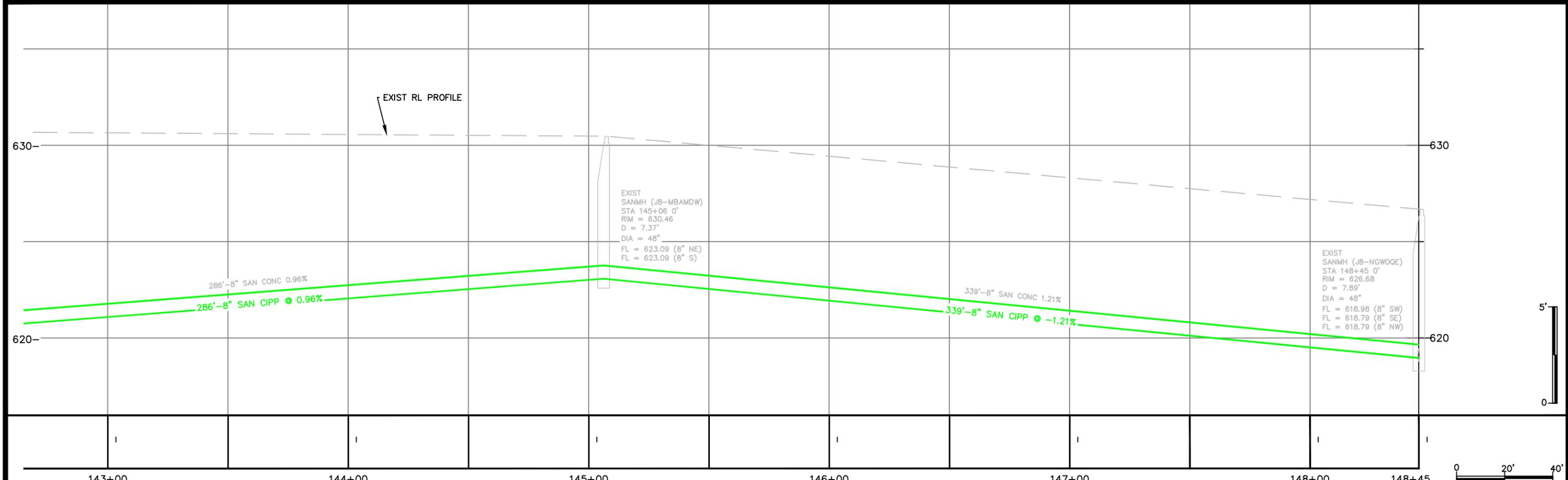


<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>WAUBAUNUQUA TRAIL</b> <b>150 S/O IRWIN ST TO 150' N/O ARMOND COURT</b>	NAME: SEWER LINING	BY: SRL	DATE: 12-2020	REVISIONS / ISSUES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	BY	REMARKS													PAGE NO. <b>C119</b>
		NO.	DATE	BY		REMARKS																
PROJECT # 21-03	CHECKED: EPR	DATE: 12-2020																				

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- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



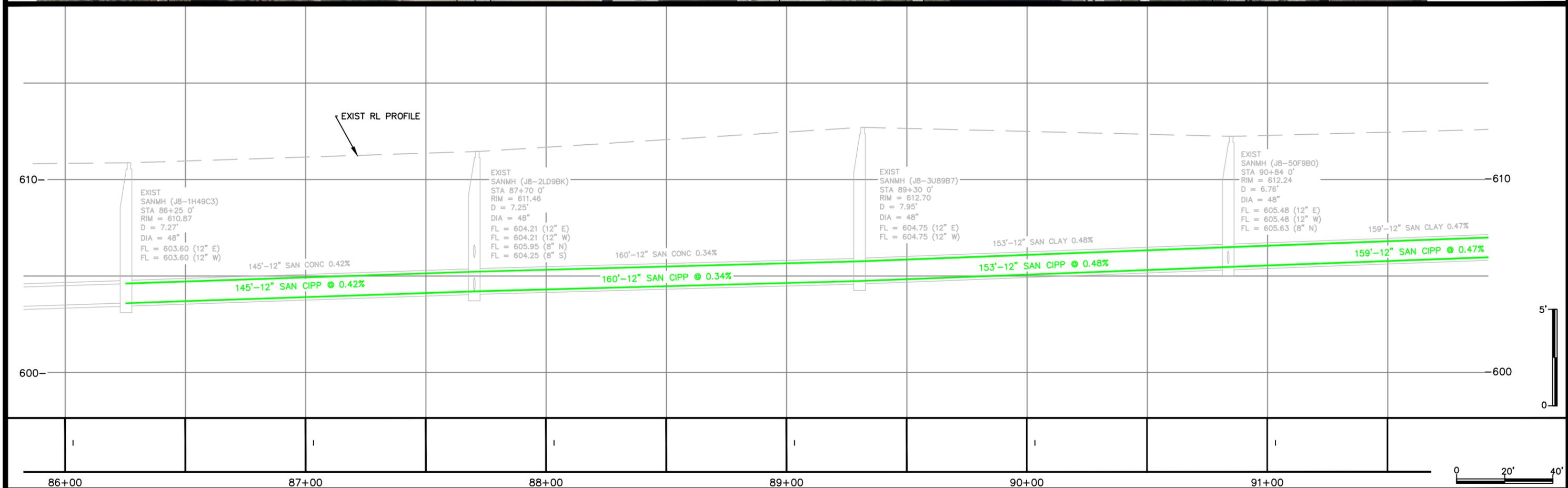
	<b>CITY OF DE PERE</b>	<b>WAUBAUNUQA TRAIL</b>	NAME: SEWER LINING	BY: SRL	DATE: 12-2020	REVISIONS / ISSUES		PAGE NO.	
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>150 N/O ARMOND CT TO RIDGEWAY BLVD</b>	PROJECT # 21-03	DRAWN: SRL	DATE: 12-2020	NO.	DATE	BY	REMARKS
				DESIGNED: SRL	DATE: 12-2020				
				CHECKED: EPR	DATE: 12-2020				

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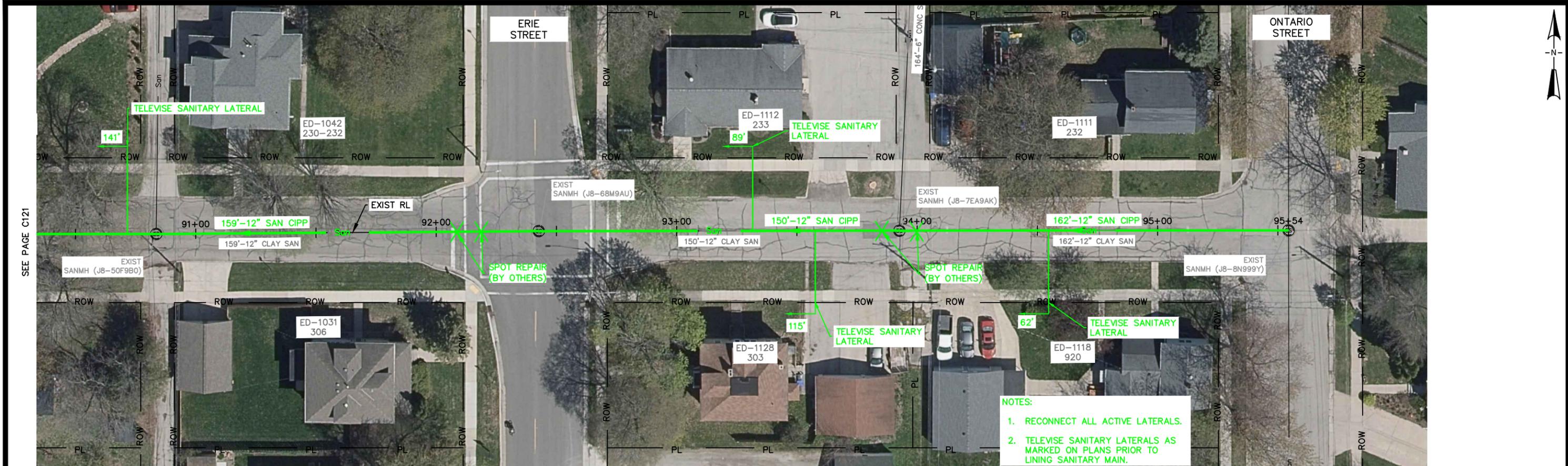
SEE PAGE C122

- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.

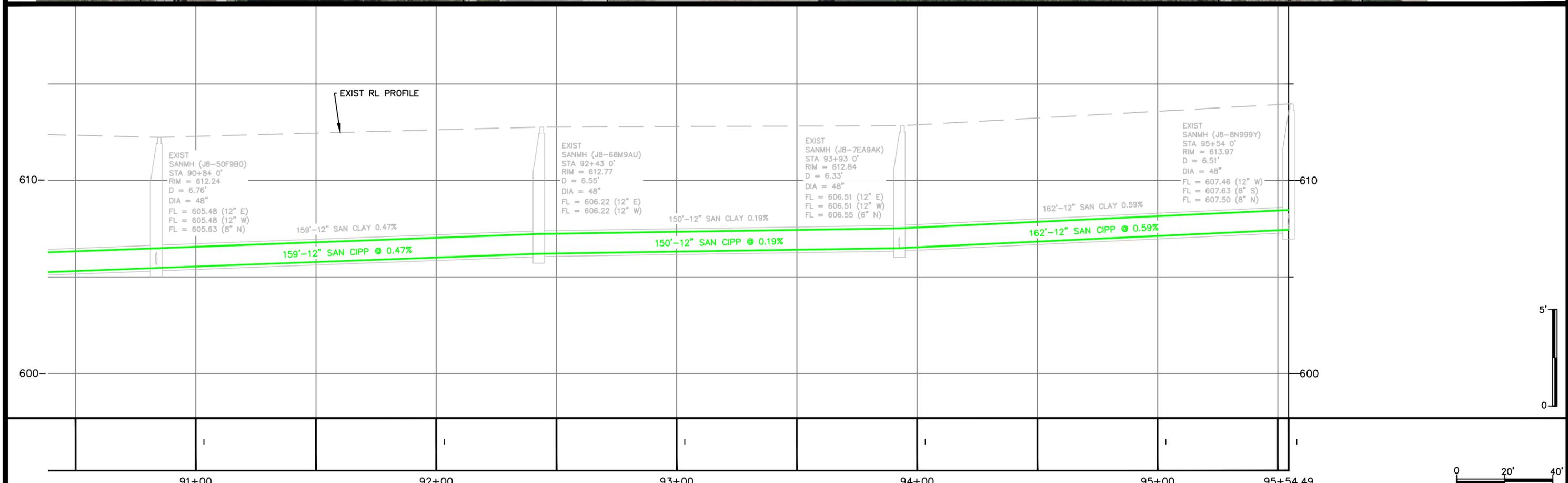


	<b>CITY OF DE PERE</b>	<b>LEWIS STREET</b>	NAME: SEWER LINING		BY: SRL	DATE: 12-2020	REVISIONS / ISSUES		PAGE NO.
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		<b>SUPERIOR STREET TO 150' E/O HURON ST</b>	PROJECT # 21-03			NO.	DATE	

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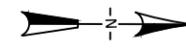


- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



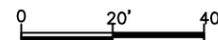
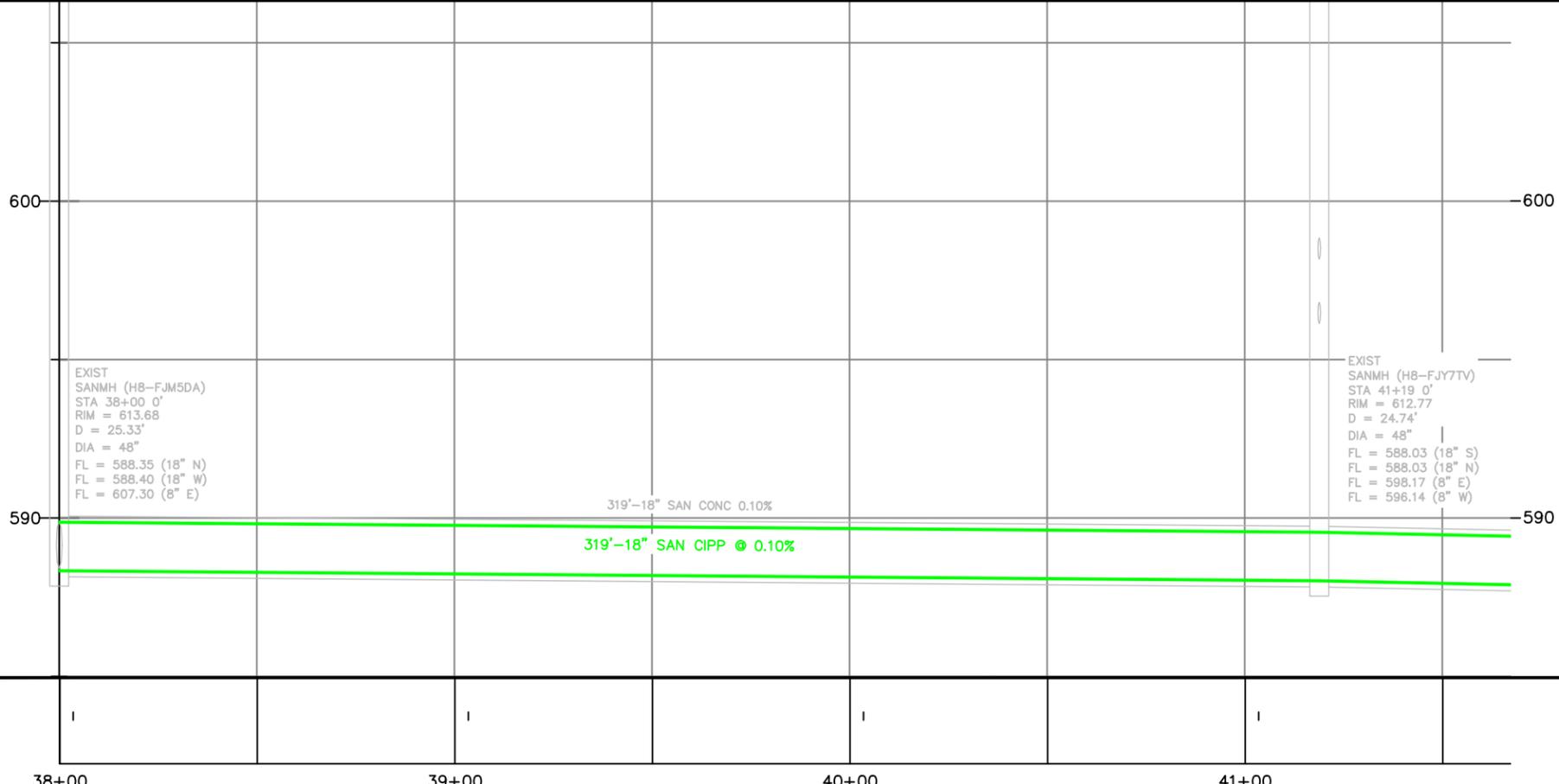
	<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>LEWIS STREET</b> <b>150' E/O HURON ST TO ONTARIO STREET</b>	NAME: SEWER LINING	BY: SRL DATE: 12-2020	REVISIONS / ISSUES <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	REMARKS					PAGE NO. <b>C122</b>
			NO.	DATE		BY	REMARKS							
PROJECT # 21-03	SURVEYED: SRL 12-2020 DRAWN: SRL 12-2020 DESIGNED: SRL 12-2020 CHECKED: EPR 12-2020													

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SEE PAGE C124

- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. DO NOT SETUP INTO GRANT STREET.



**CITY OF DE PERE**

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

**APOLLO WAY**  
**GRANT STREET TO TWILIGHT DRIVE**

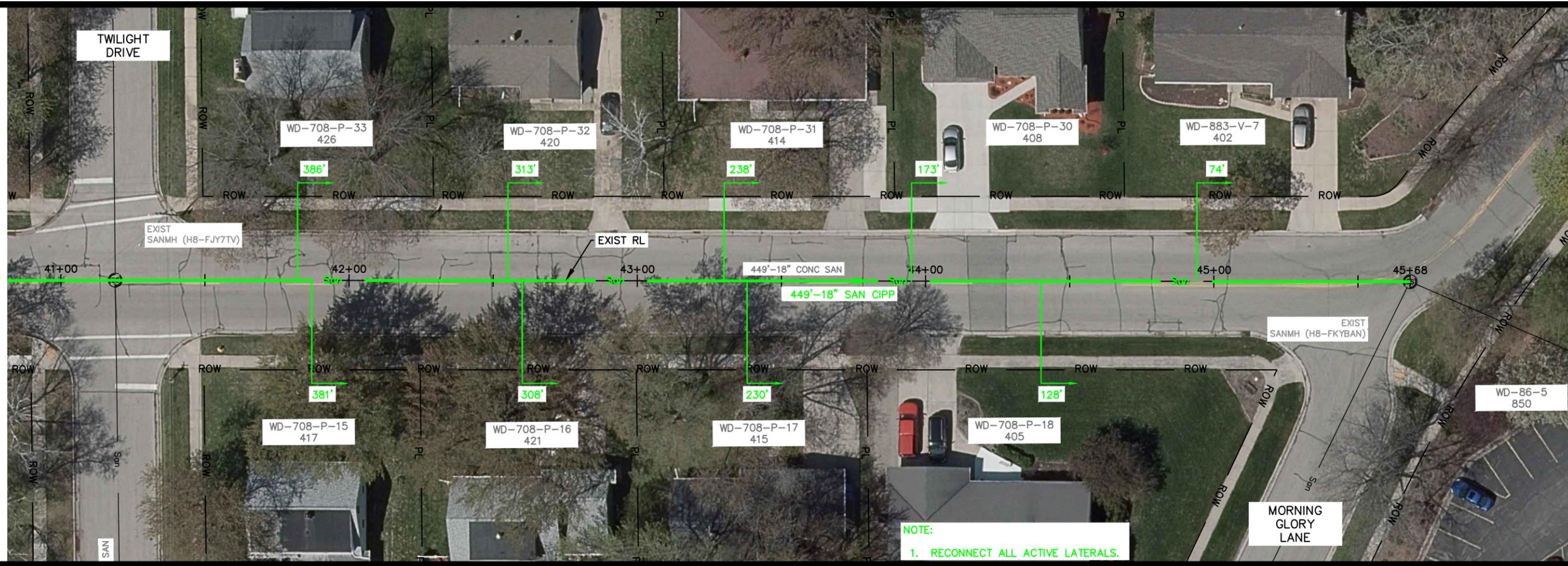
NAME: SEWER LINING  
PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

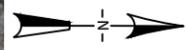
REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C123**

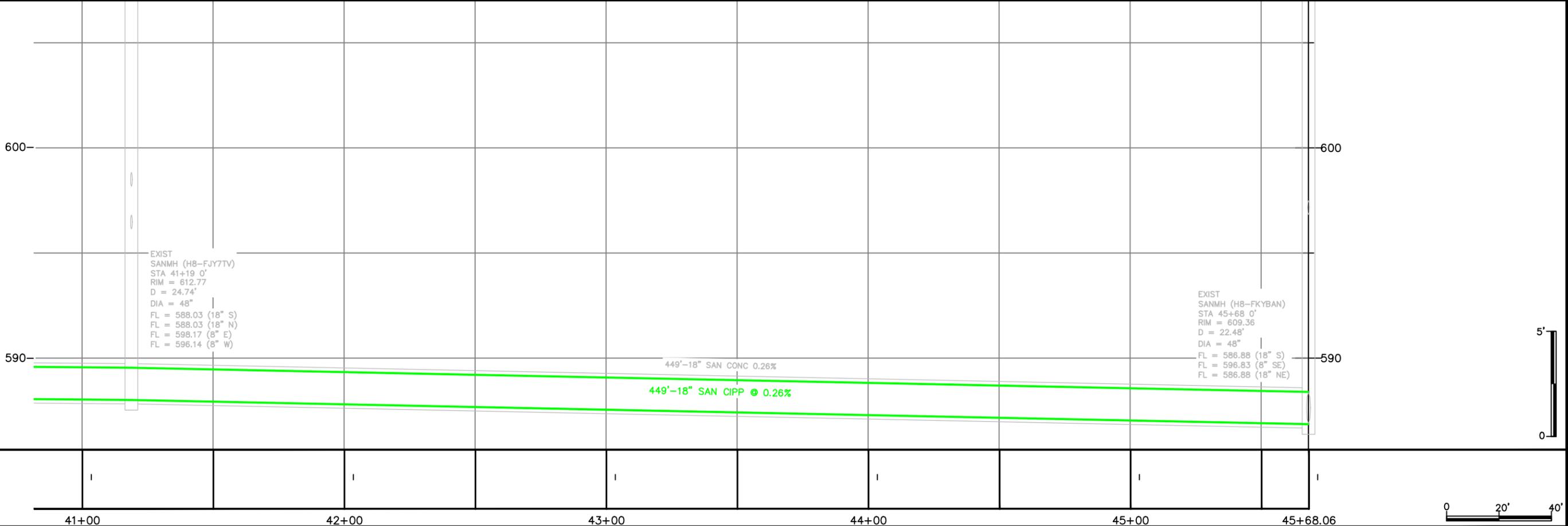
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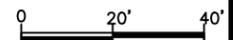


**NOTE:**  
1. RECONNECT ALL ACTIVE LATERALS.



EXIST  
SANMH (H8-FJY7TV)  
STA 41+19.0'  
RIM = 612.77  
D = 24.74"  
DIA = 48"  
FL = 588.03 (18" S)  
FL = 588.03 (18" N)  
FL = 598.17 (8" E)  
FL = 596.14 (8" W)

EXIST  
SANMH (H8-FKYBAN)  
STA 45+68.0'  
RIM = 609.36  
D = 22.48"  
DIA = 48"  
FL = 586.88 (18" S)  
FL = 596.83 (8" SE)  
FL = 586.88 (18" NE)



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

**APOLLO WAY**  
**TWILIGHT DRIVE TO MORNING GLORY LANE**

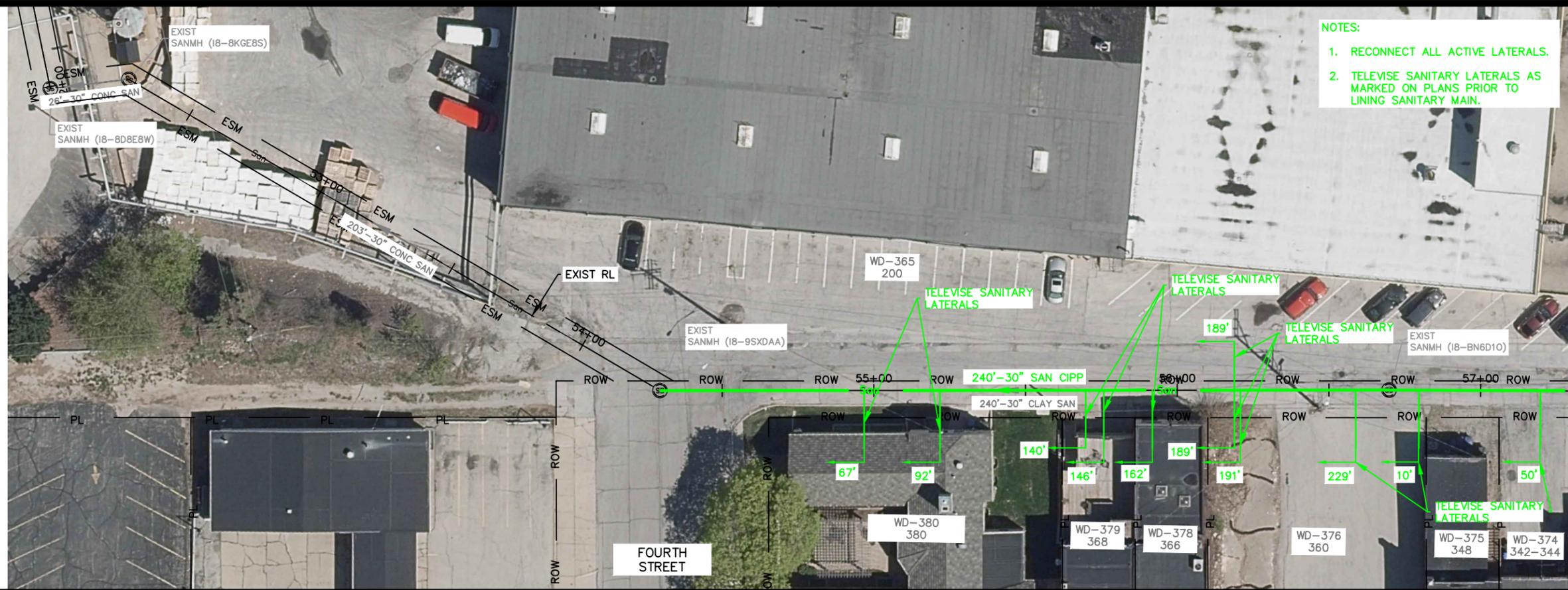
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PROJECT # 21-03

	BY	DATE
SURVEYED	SRL	12-2020
DRAWN	SRL	12-2020
DESIGNED	SRL	12-2020
CHECKED	EPR	12-2020

REVISIONS / ISSUES		
NO.	DATE	BY

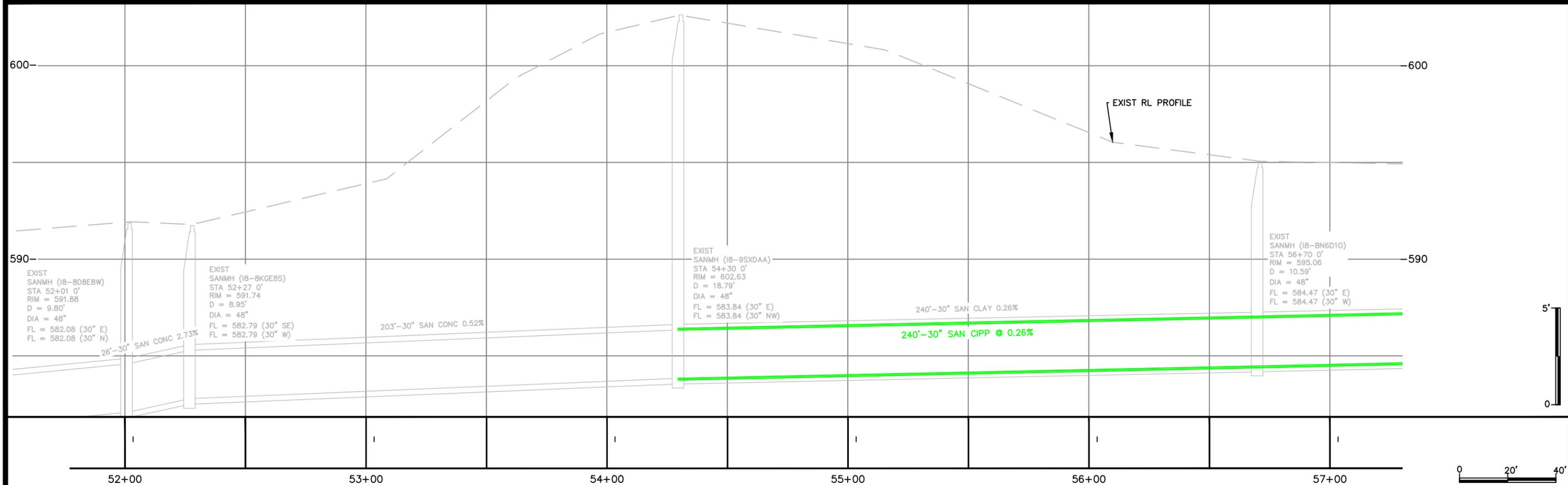
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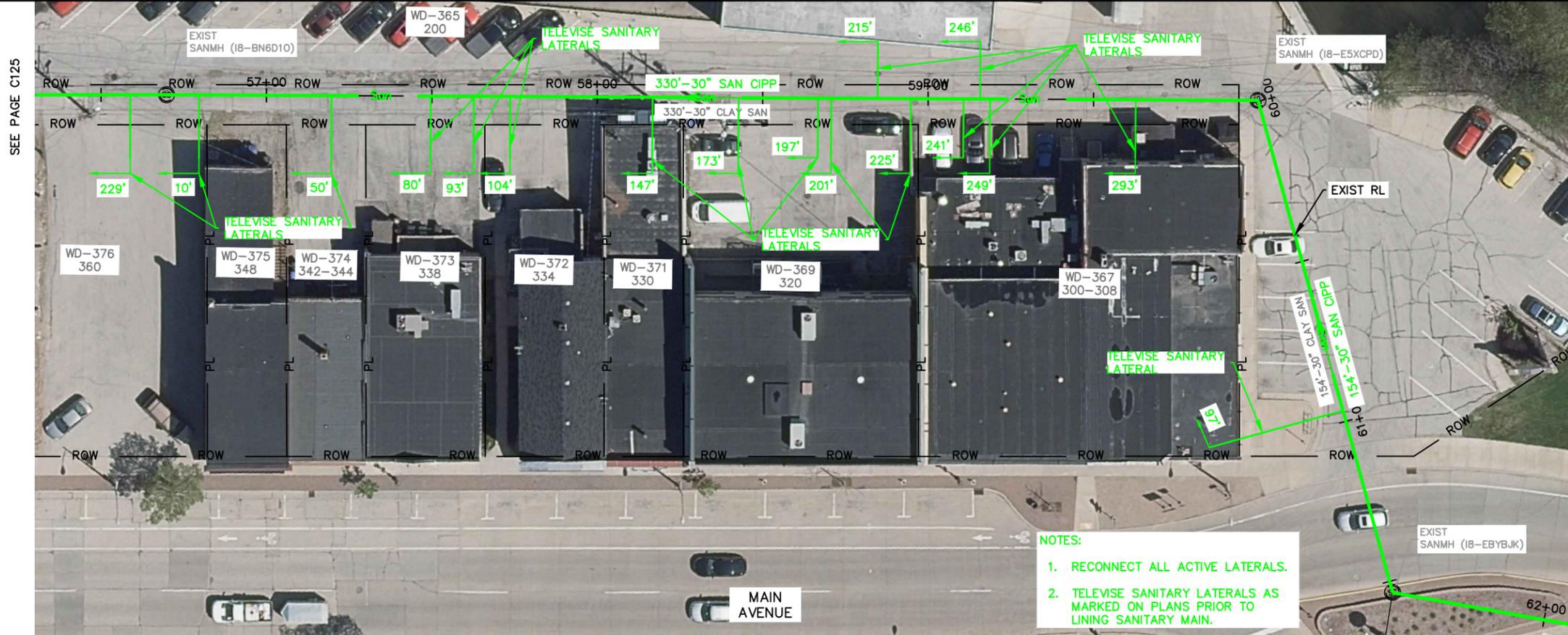
- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.

SEE PAGE C126

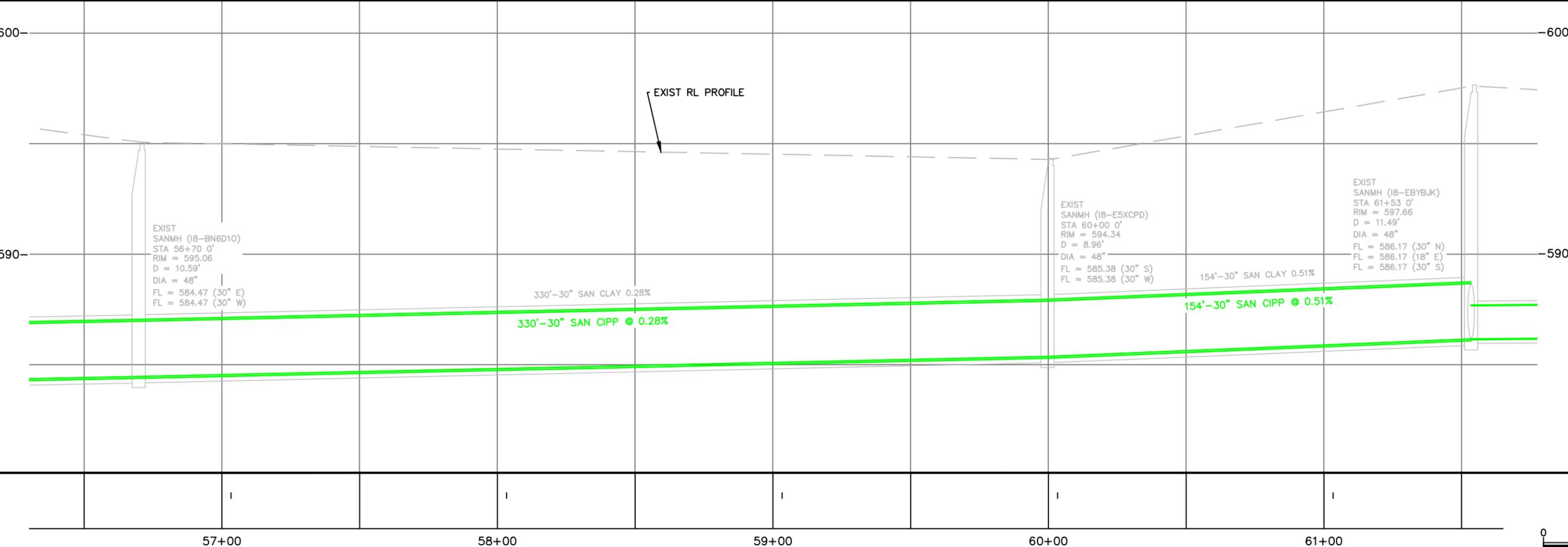


	<b>CITY OF DE PERE</b>	<b>30" SANITARY SEWER EASEMENT/ALLEY</b> <b>FOURTH ST TO 250' E/O FOURTH ST</b>	NAME: SEWER LINING	BY: SRL	DATE: 12-2020	REVISIONS / ISSUES			PAGE NO.
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT # 21-03	DRAWN: SRL	DATE: 12-2020	NO.	DATE	BY	REMARKS
			CHECKED: EPR	DATE: 12-2020					

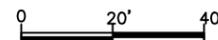
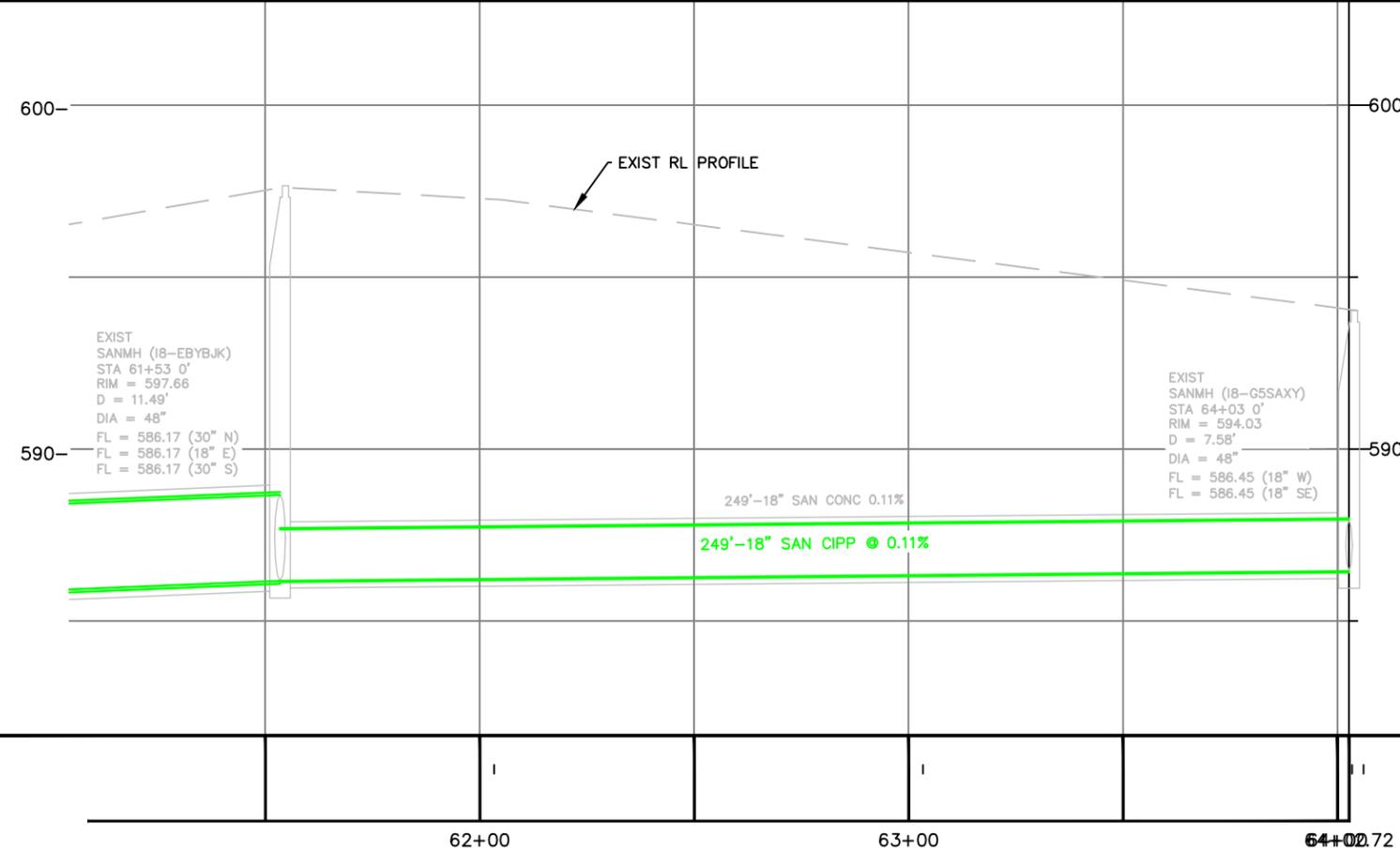
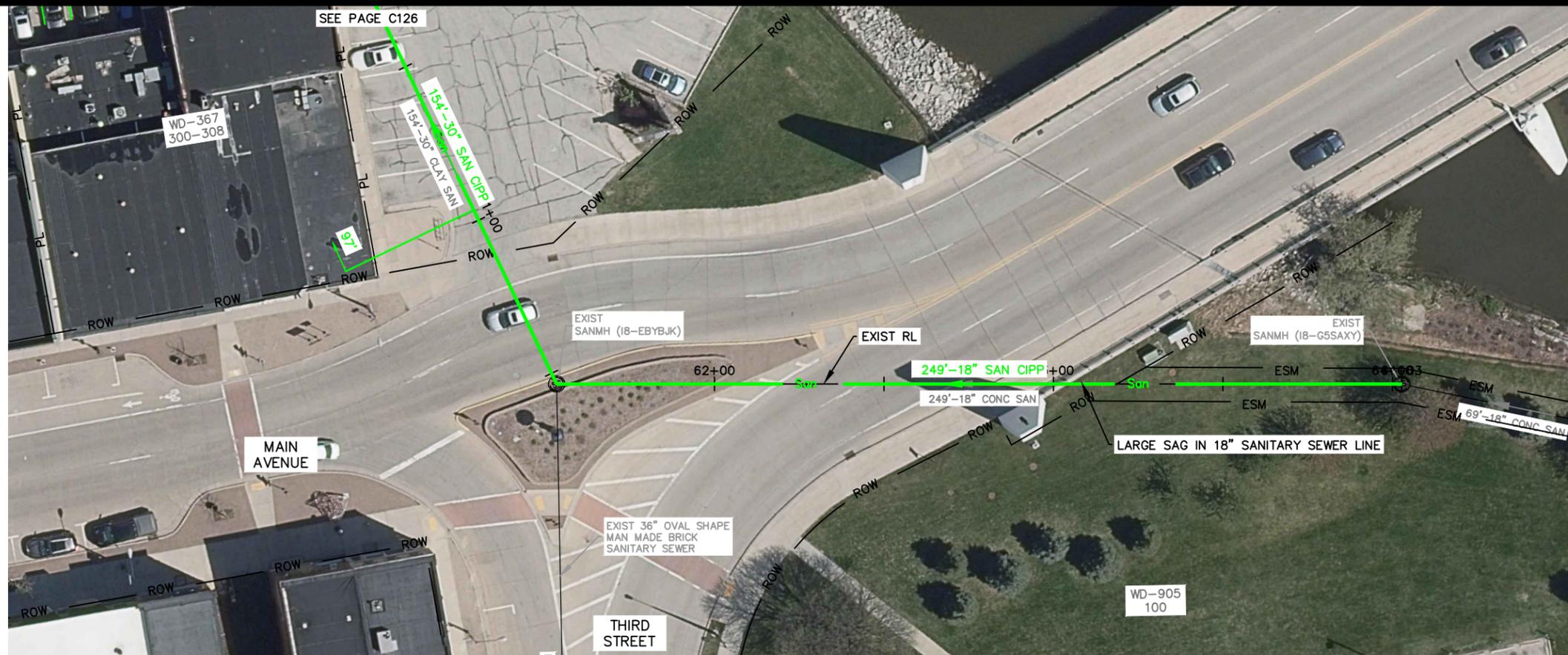
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- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON PLANS PRIOR TO LINING SANITARY MAIN.



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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

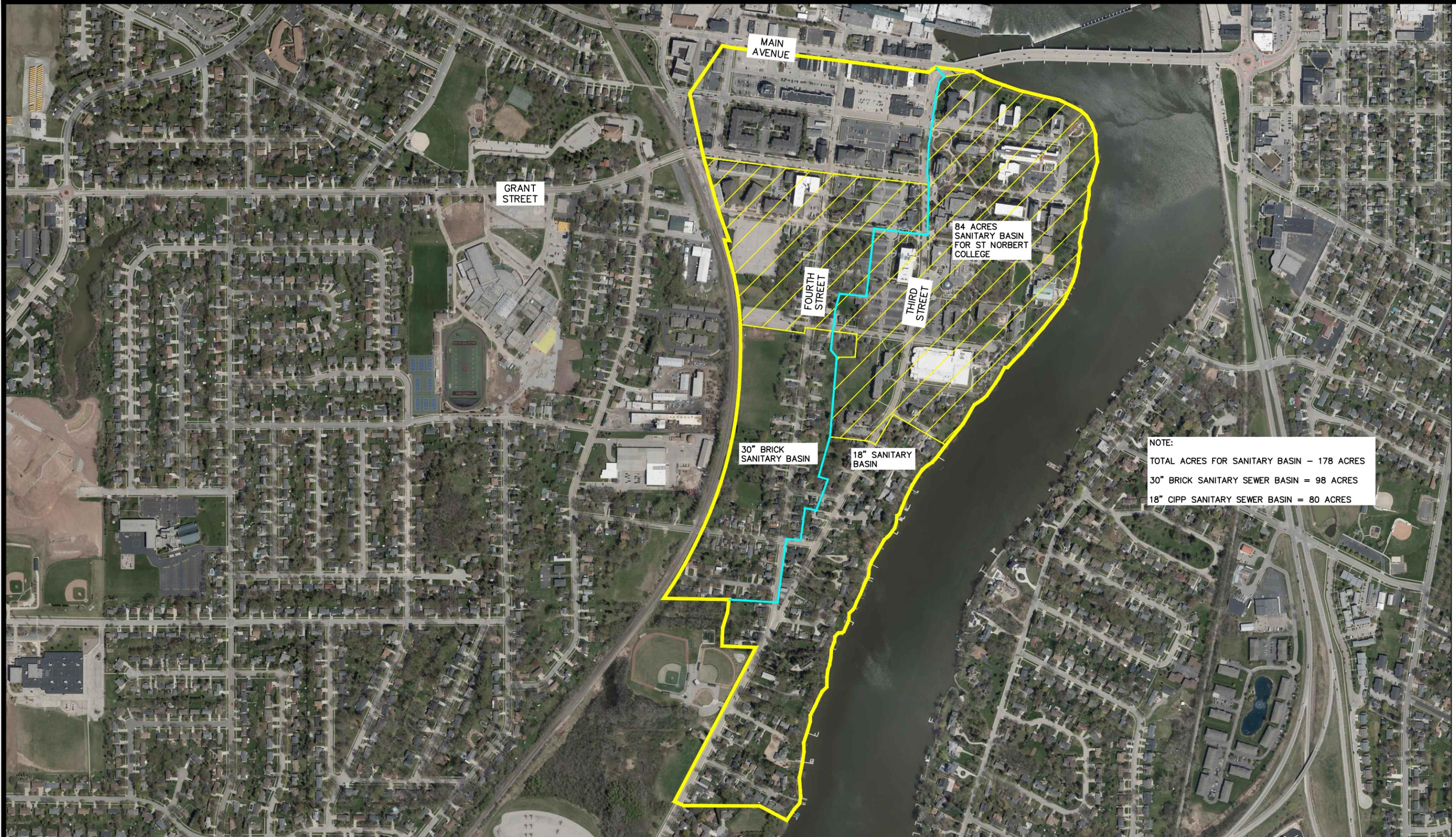
**18" SANITARY SEWER EASEMENT  
 MAIN AVE TO 250' E/O MAIN AVE**

NAME: SEWER LINING  
 PROJECT # 21-03

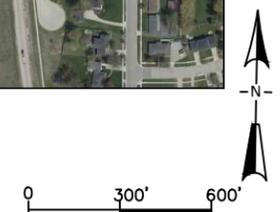
NO.	DATE	BY	REVISIONS / ISSUES
SURVEYED	12-2020	SRL	
DRAWN	12-2020	SRL	
DESIGNED	12-2020	SRL	
CHECKED	12-2020	EPR	

NO.	DATE	BY	REMARKS

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NOTE:  
 TOTAL ACRES FOR SANITARY BASIN - 178 ACRES  
 30" BRICK SANITARY SEWER BASIN = 98 ACRES  
 18" CIPP SANITARY SEWER BASIN = 80 ACRES



**CITY OF DE PERE**

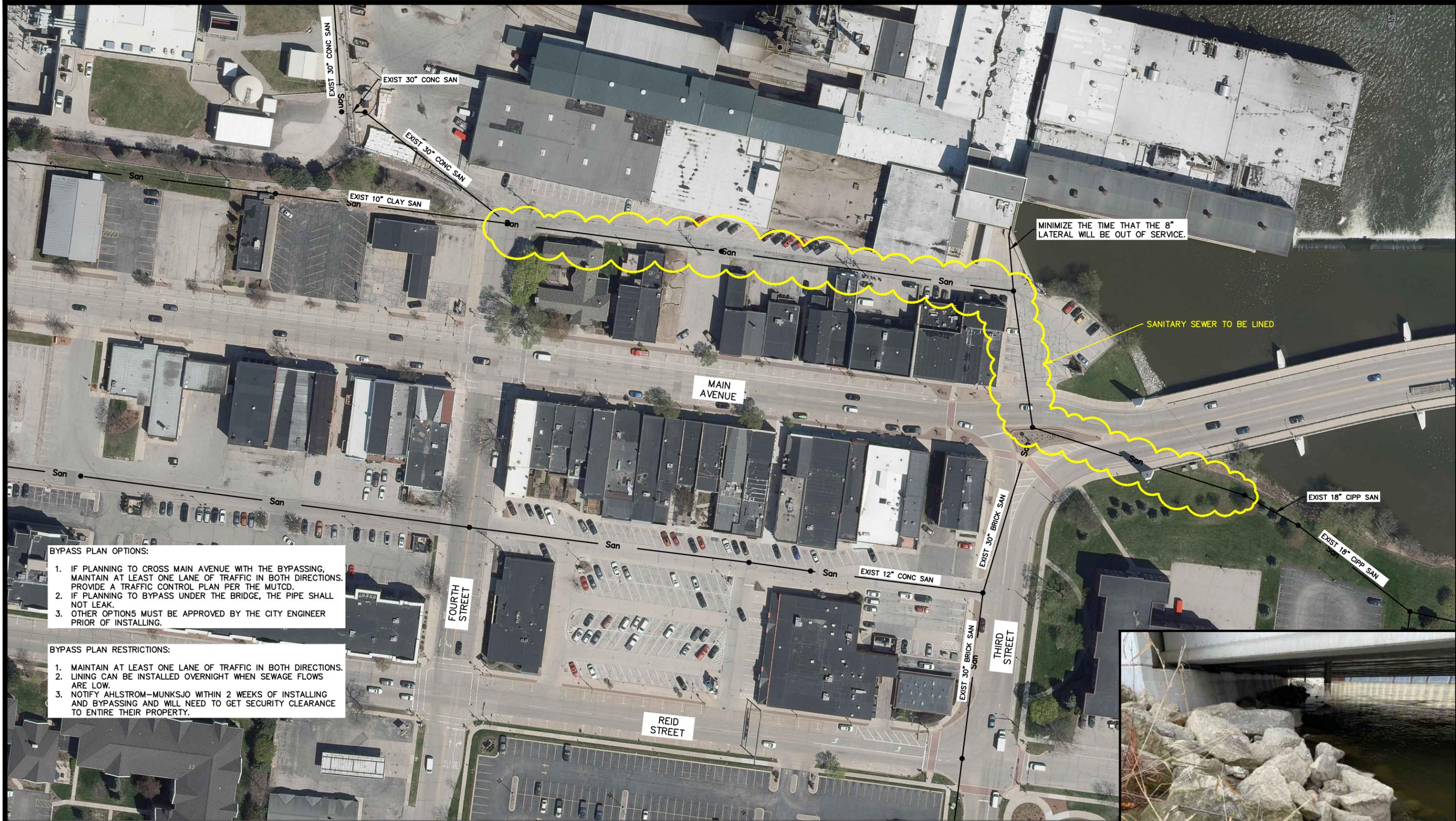
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
 OFFICE 920-339-4061 FAX 920-339-4071

**30" & 18" SANITARY SEWER  
 EASEMENT/ALLEY  
 SANITARY SEWER BASIN**

NAME:  
 SEWER LINING  
 PROJECT # 21-03

BY	DATE
SURVEYED SRL	12-2020
DRAWN SRL	12-2020
DESIGNED SRL	12-2020
CHECKED EPR	12-2020

REVISIONS / ISSUES		
NO.	DATE	REMARKS

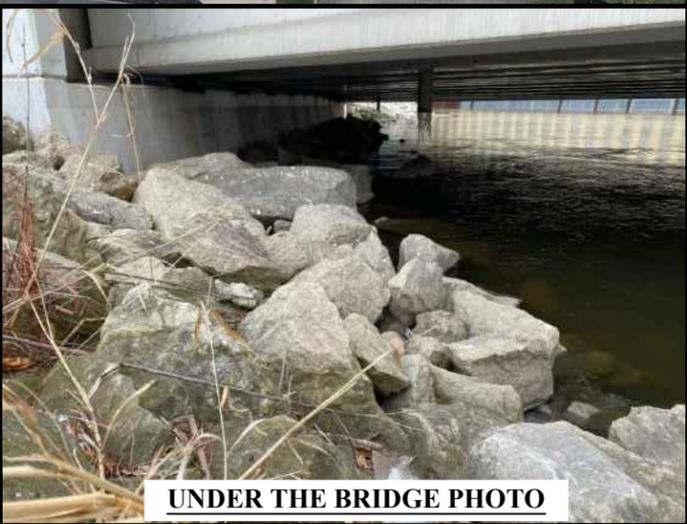


- BYPASS PLAN OPTIONS:**
1. IF PLANNING TO CROSS MAIN AVENUE WITH THE BYPASSING, MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN BOTH DIRECTIONS. PROVIDE A TRAFFIC CONTROL PLAN PER THE MUTCD.
  2. IF PLANNING TO BYPASS UNDER THE BRIDGE, THE PIPE SHALL NOT LEAK.
  3. OTHER OPTIONS MUST BE APPROVED BY THE CITY ENGINEER PRIOR OF INSTALLING.

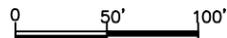
- BYPASS PLAN RESTRICTIONS:**
1. MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN BOTH DIRECTIONS.
  2. LINING CAN BE INSTALLED OVERNIGHT WHEN SEWAGE FLOWS ARE LOW.
  3. NOTIFY AHLSTROM-MUNKSJO WITHIN 2 WEEKS OF INSTALLING AND BYPASSING AND WILL NEED TO GET SECURITY CLEARANCE TO ENTIRE THEIR PROPERTY.

MINIMIZE THE TIME THAT THE 8" LATERAL WILL BE OUT OF SERVICE.

SANITARY SEWER TO BE LINED



**UNDER THE BRIDGE PHOTO**



**CITY OF DE PERE**

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

**30" & 18" SANITARY EASEMENT/ALLEY  
BYPASS PLAN**

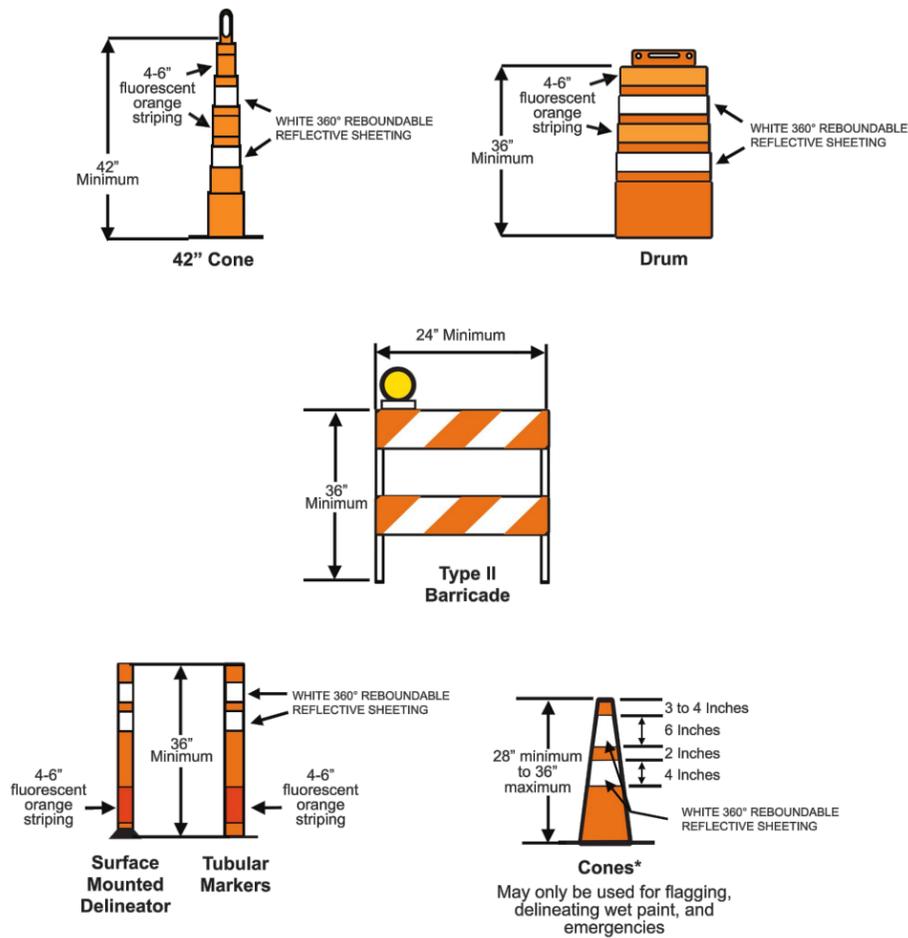
NAME: SEWER LINING

PROJECT # 21-03

	BY	DATE
SURVEYED	SRL	01-2021
DRAWN	SRL	01-2021
DESIGNED	SRL	01-2021
CHECKED	EPR	01-2021

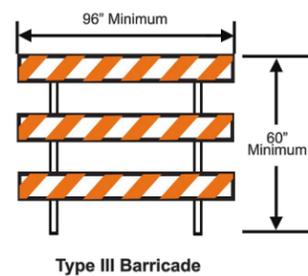
REVISIONS / ISSUES		NO.	DATE	BY	REMARKS

**CHANNELIZING DEVICES**



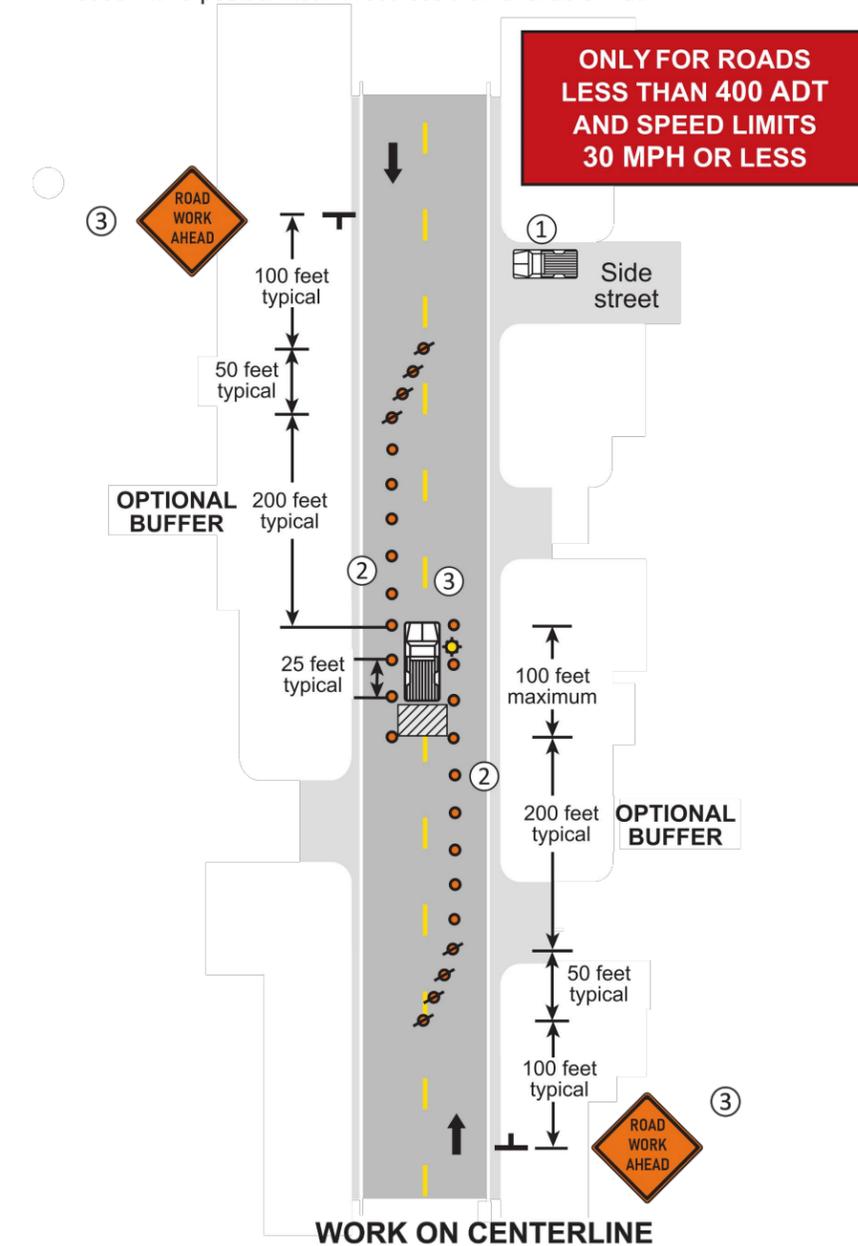
**TYPE 3 BARRICADES**

- Orange diagonals shall slope down toward the traffic side.
- Signs mounted on Type III barricades should not cover more than half of the top two rails or 33 percent of the total area of the three rails.
- Type A Flashing Warning Lights may be used - place on both side of barricade. Required for nighttime work or if device remaining overnight.



**NOTES:**

- ① Additional Work Vehicle shall be parked off of the roadway. Do not obstruct the shoulder in the work area.
- ② A minimum of 10 feet of drivable surface outside of the channelizers should be maintained on all sides. Anything less than 10 feet shall be approved by the road authority.
- ③ Channelizers and ROAD WORK AHEAD signs are optional at 15 minutes or less.
4. END ROAD WORK sign should be placed 500 feet past work area.
5. When available width is less than 16 feet, a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.



12 HOURS or LESS

LAYOUT 1



**CITY OF DE PERE**

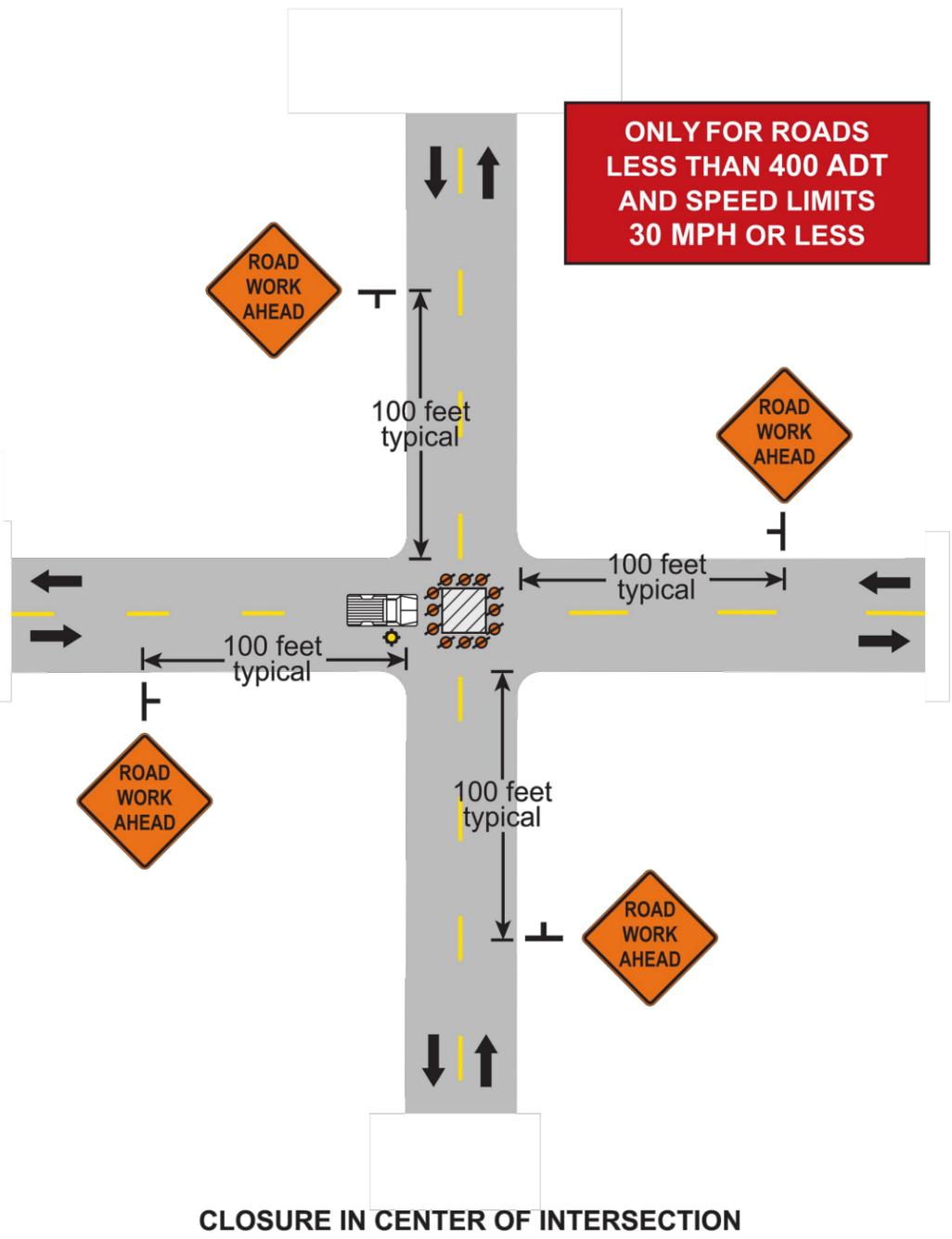
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**TRAFFIC CONTROL**

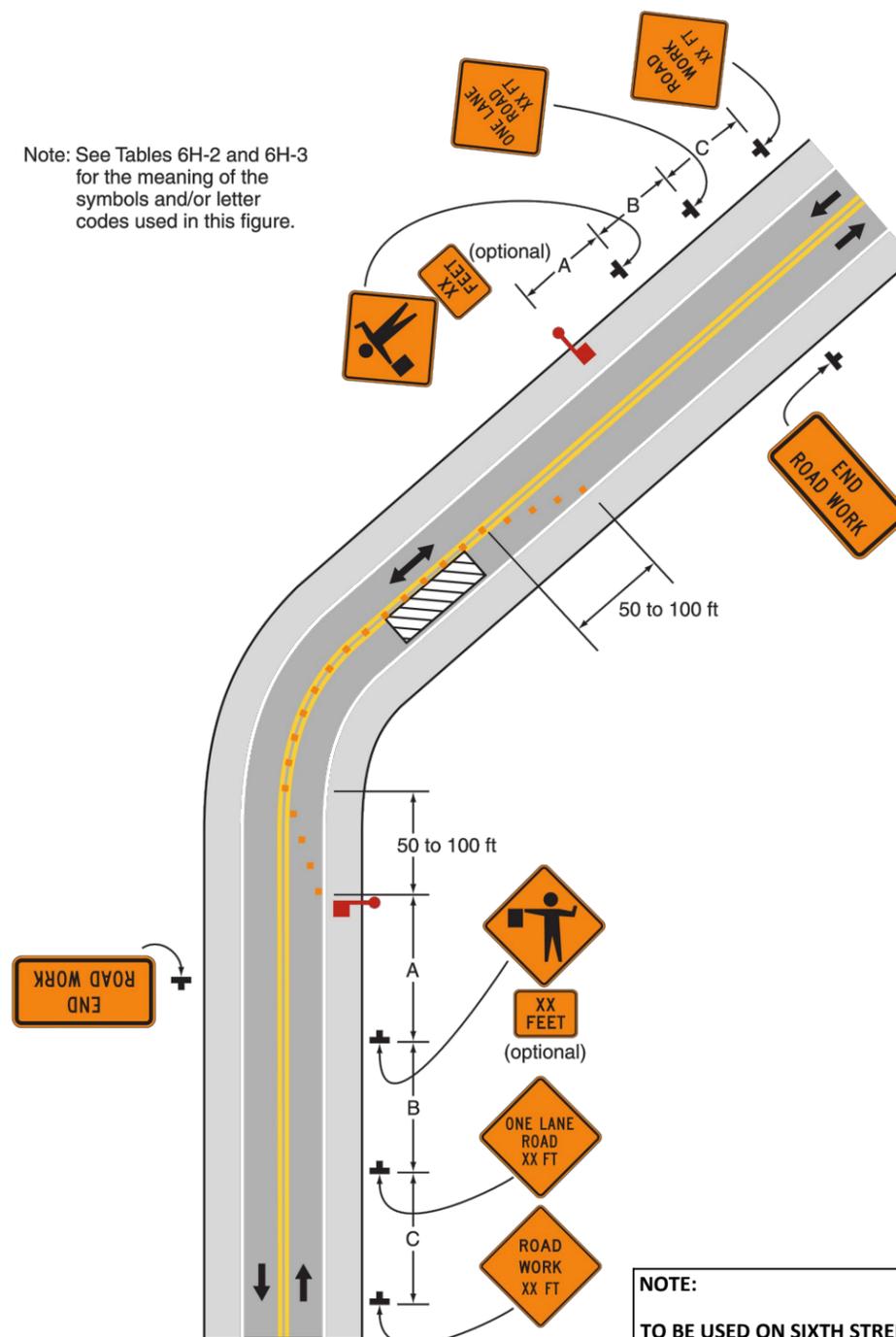
NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES	
PROJECT # 21-03	SURVEYED	01-2021	NO.	DATE
	DRAWN	01-2021	BY	REMARKS
	DESIGNED	01-2021		
	CHECKED	01-2021		

**NOTES:**

1. A minimum of 10 feet of drivable surface outside of the channelizers shall be maintained such that traffic can self-regulate.
2. END ROAD WORK sign should be placed 500 feet past work area.
3. When available width is less than 16 feet, a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.



**Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)**



**CITY OF DE PERE**

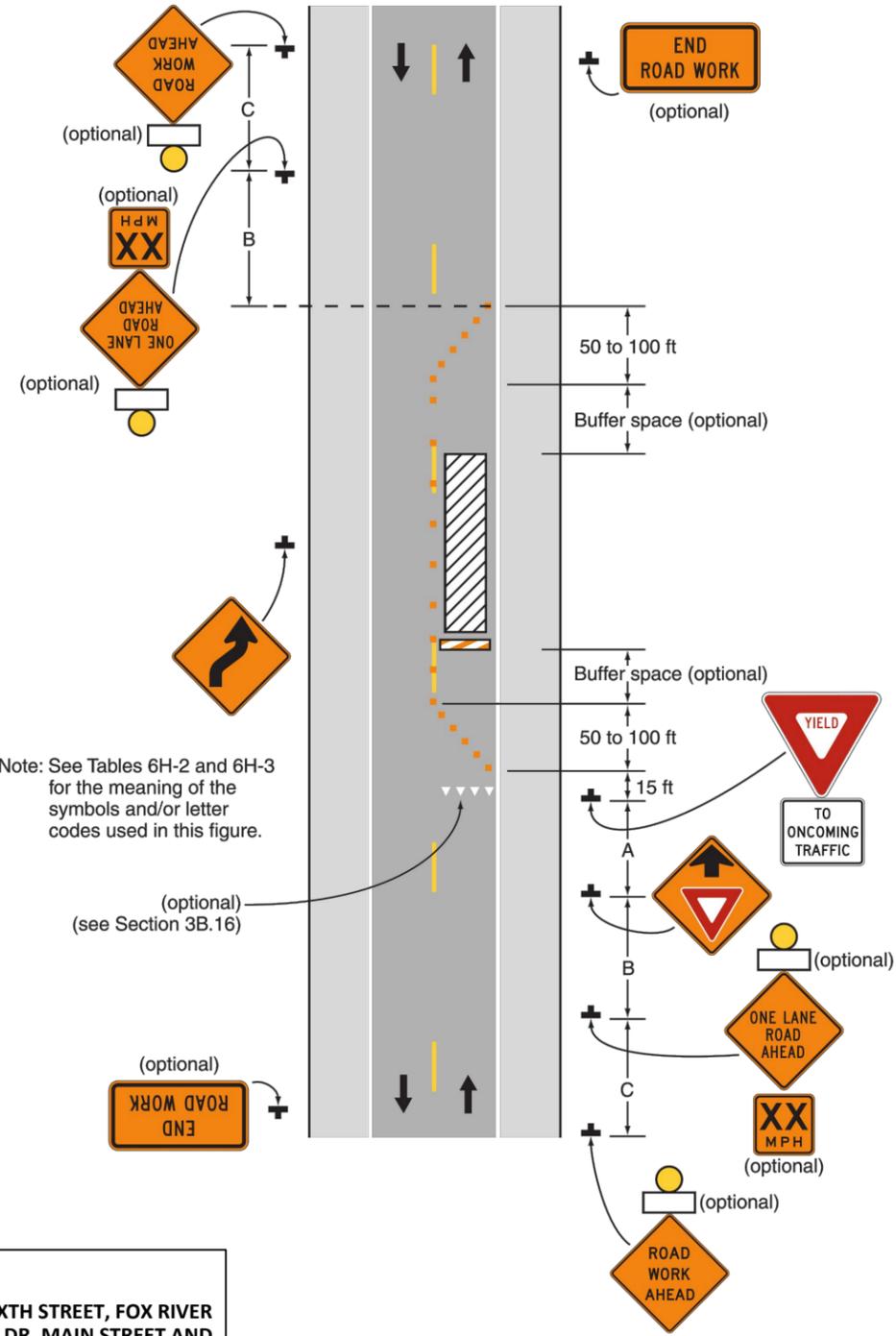
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OFFICE 920-339-4061 FAX 920-339-4071

**TRAFFIC CONTROL**

NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C404</b>
PROJECT # 21-03	SURVEYED	01-2021	NO.	DATE	
	DRAWN	01-2021	BY	REMARKS	
	DESIGNED	01-2021			
	CHECKED	01-2021			

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**Figure 6H-11. Lane Closure on a Two-Lane Road with Low Traffic Volumes (TA-11)**

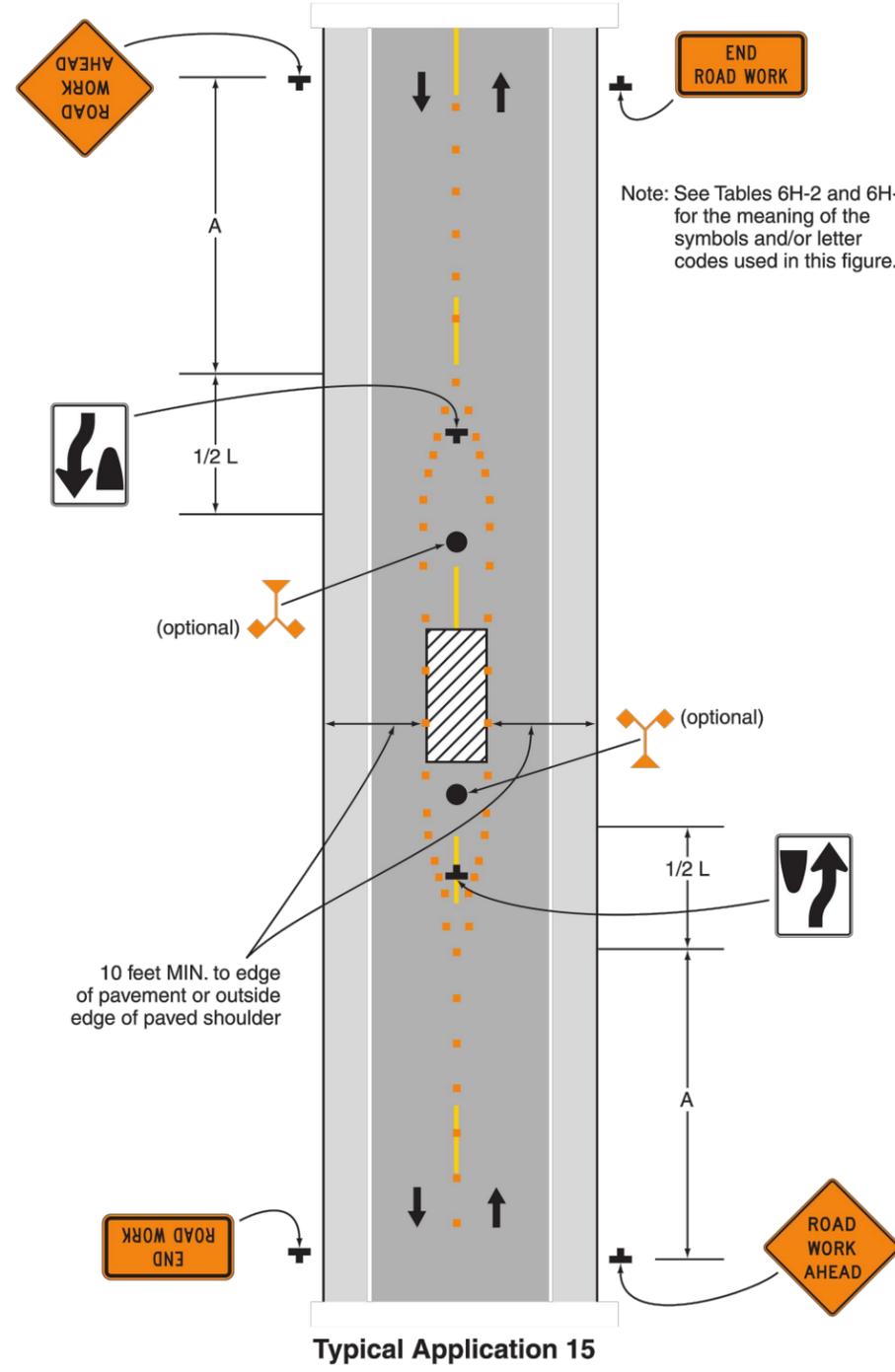


Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

**NOTE:**  
TO BE USED ON SIXTH STREET, FOX RIVER DRIVE, RIDGEWAY DR, MAIN STREET AND APOLLO WAY WHERE IT IS APPLICABLE.

**Typical Application 11**

**Figure 6H-15. Work in the Center of a Road with Low Traffic Volumes (TA-15)**



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

10 feet MIN. to edge of pavement or outside edge of paved shoulder

**Typical Application 15**

**NOTE:**  
TO BE USED ON SIXTH STREET, FOX RIVER DRIVE, RIDGEWAY DR, LEWIS STREET AND APOLLO WAY WHERE IT IS APPLICABLE.



**CITY OF DE PERE**

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

**TRAFFIC CONTROL**

NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES	
PROJECT # 21-03	SURVEYED	NO.	DATE	REMARKS
	DRAWN	SRL	01-2021	
	DESIGNED	SRL	01-2021	
	CHECKED	EPR	01-2021	