

# **Rock River Water Reclamation District Rockford, Illinois**

## **Bidding Requirements and Contract Forms**

**for**

## **2020-2021 Service Lateral Lining**

**Capital Project No. 2133**

# **Rock River Water Reclamation District Rockford, Illinois**

## **Bidding Requirements and Contract Forms and Technical Specifications**

**for**

## **2020-2021 Service Lateral Lining**

### **Capital Project No. 2133**

#### **Board of Trustees**

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**Section I**  
**Bidding Requirements**



## Article 1 — Notice to Bidders

The Rock River Water Reclamation District (District) will receive signed and sealed bids for **Capital Project No. 2133, 2020-2021 Service Lateral Lining**, at the District office at 3501 Kishwaukee Street, Rockford, Illinois until 10:30 a.m. on Thursday, September 17, 2020 at which time and place responsive / responsible bids will be publicly opened and read aloud.

**Capital Project No. 2033, 2020-2021 Service Lateral Lining**, consists of the rehabilitation of approximately 198 clay sanitary services by lining with a cured-in-place pipe (CIPP). Other work includes traffic control, restoration, and all other appurtenances as indicated in the specifications.

Bidder's attention is called to Article 2 - Instructions to Bidders, Section 2.3 *Bidder Prequalification* and Section 3.8 *Statement of Qualifications* requirements.

All cleaning, televising, lining, and testing shall be completed by April 30, 2021. Following review of video inspections, the District will issue a final punch list. Contractor shall complete all corrective work within thirty (30) days of issuance of final punch list. Liquidated damages shall be \$300.00 per calendar day beyond each of the respective completion deadlines.

Bid documents may be obtained at a cost of \$50.00 per set (non-refundable) by contacting the District Engineering Department at 815-387-7660.

Plans and specifications may also be viewed at the offices of the Northern Illinois Building Contractors Association at 1111 S. Alpine Rd, Rockford, IL. For more information, visit the District website at [www.rrwrddst.il.us](http://www.rrwrddst.il.us).

All construction will be done in accordance with specifications on file with the District, including the *General Provisions and Technical Specifications for Sanitary Sewer Construction* (Current Edition) of the Rock River Water Reclamation District of Rockford.

Each Proposal must be accompanied by the District Bid Bond form with an acceptable Bid Security attached, in the amount of five percent (5%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

The successful bidder will be required to furnish a satisfactory Performance Bond in the full amount of the Bid or Proposal. No Bid shall be withdrawn without the consent of the District for a period of sixty (60) days after the scheduled time of receiving Bids.

The District reserves the right to reject any or all Bids, or any part thereof, or to accept any Bid or any part thereof, or to waive any formalities in any Bids, deemed to be in the best interest of the District.

Dated this 26th day of August, 20 20.

  
BY: Timothy S. Hanson, Executive Director

## **Article 2 — Instructions to Bidders**

### **1 General**

#### **1.1 Scope and Intent**

This section of the Contract Documents is concerned with furnishing prospective bidders with detailed information and requirements for delineation of bidders' responsibilities, preparation and submission of bids, basis for awarding the Contract and other general information concerned with bidding and Contract execution.

#### **1.2 Contradictions**

If in the case of apparent contradiction between or among the Contract Documents, the Contract Documents shall be consulted in the following order: Addenda, Agreement, Supplementary Drawings, Instructions to Bidders, Detailed Specifications, Plans, Rock River Water Reclamation District's (District) General Provisions and Technical Specifications for Sanitary Sewer Construction. The language in the first such document in which language regarding the conflict, error or discrepancy occurs shall control.

### **2 Legal Requirements**

#### **2.1 Illinois Regulations**

1. Public Act 100-1177 requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on District projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Bidder is responsible for verifying current information at the State's website.
2. Public Act 83-1030 entitled "Steel Products Procurement Act" requires that steel products used or supplied in performance of this contract or subcontract shall be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

- a. Where the contract involves an expenditure of less than \$500.
  - b. Where the executive head of the public agency certifies in writing that
    - i. the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
    - ii. obtaining the specified products, manufactured or produced in the United States would increase the cost of the contract by more than 10%.
  - c. When its application is not in the public interest.
3. Public Act 96-929 (30 ILCS 570) provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.
  4. Public Act 99-093 requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
    - a. the illegality of sexual harassment
    - b. the definition of sexual harassment under Illinois State law

- c. a description of sexual harassment, utilizing examples
- d. my (our) organization's internal complaint process including penalties
- e. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
- f. directions on how to contact the Department and the Commission
- g. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act

Upon request, this information shall be provided to the Illinois Department of Human Rights and the District.

5. With regard to nondiscrimination in employment, the Contractor for this project will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations.
6. The Contractor for this project shall comply with the Occupational Safety and Health Act.
7. The Contractor for this project shall comply with the Federal Drug-Free Workplace Act.
8. Public Act 96-1416 requires the Certification of Clean Construction and Demolition Debris (CCDD) and uncontaminated soil prior to disposal at a CCDD fill site. The Contractor for this project shall comply with Public Act 96-1416 and be responsible for the certifications and any fees associated with the disposal at a CCDD fill site.
  - a. In the event that contaminated soil is uncovered on the project, the Contractor shall notify the District immediately. Any extra costs resulting from the presence of contaminated soil shall be evaluated in accordance with District General Provisions & Technical Specs for Sanitary Sewer Construction; General Conditions: Article 5 – Time Provisions and Article 8 – Changes.

## **2.2 Americans with Disabilities Act**

The Contractor for this project will comply with all applicable requirements of the Americans with Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify the District and their representatives from all:

1. suits, claims, or actions
2. costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement
3. damages of any kind (including but not limited to actual, punitive, and compensatory damages)

relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the contract.

## **2.3 Bidder Prequalification**

Prospective bidders shall submit pre-qualification information for approval prior to bid opening or bids will be rejected as unqualified. Pre-qualification submittals shall be presented to the District Engineering Manager on or before 2:00 p.m. on Thursday, September 10, 2020; the District will review these submittals and will advise each applicant whether they are determined pre-qualified on or before Monday, September 14, 2020.

**Only bids from pre-qualified manufacturers and installers using pre-qualified products and methods will be opened and read. Bids submitted on products or from manufacturers/installers**

that have not been pre-qualified will be returned unopened. Bid Proposals shall be clearly labeled on the bid envelope with Contractor's name and CIPP manufacturer.

Bidders that have previously pre-qualified or have satisfactorily completed lateral lining work for the District are considered pre-qualified provided the same methods and materials as previously specified and as specified herein are proposed.

The following Contractors are pre-qualified to bid this project:

Contractor	CIPP Product
BLD Services, LLC	BLD Service Connection Seal & Lateral
Performance Pipelining, Inc.	LMK T-Liner
MBI Pipelining Services	LMK T-Liner
LMK Technologies	LMK T-Liner
National Watermain Cleaning Company	Trelleborg EPROS

In order to be considered pre-qualified to bid on this project, the product, manufacturer and contractor must each demonstrate, to the District's satisfaction, compliance with the following requirements:

- a. The bidder shall document a minimum of two (2) years of experience installing CIPP laterals of similar length and configuration as this project and shall have successfully installed a minimum of 5,000 CIPP laterals in wastewater collection systems. The manufacturer's system shall have a minimum of five (5) years of installation with a minimum of 10,000 CIPP laterals successfully installed.
- b. Submittal of District-approved Third Party test data supporting the following product performance requirements. Product samples used for testing shall be similar to those proposed for installation. Test samples shall be prepared so as to simulate installation methods and trauma of the product.
  - Chemical resistance – Test shall be conducted in accordance with ASTM F 1216, and meet the minimum guidelines listed therein.
  - Long-term properties – Tests to confirm 50-year design values shall be conducted in accordance with ASTM D2990. As an alternative, third party testing of a 10,000-hour external loading test, conducted in a wet environment to simulate field conditions, can be used to verify long-term design values.
  - External hydrostatic pressure testing – Testing of external hydrostatic loading capacity of at least ten (10) restrained pipe samples to verify design techniques.
  - Contractor / Manufacturer shall demonstrate structural properties meet or exceed the requirements listed below by providing test results from an independent laboratory for three (3) recent lining projects. A minimum of twelve (12) test results must be submitted.

### STRUCTURAL PROPERTIES

Property	Minimum Value	ASTM Test Method
Flexural Strength	4,500 PSI	D790
Flexural Modulus	350,000 PSI	D790

- c. The Contractor shall provide a list of personnel working on this project, including previous project experience of the Foreman / Job Superintendent.
- d. The manufacturer and/or contractor shall submit a copy of the license or certificate verifying the manufacturer's or licenser's approval of the installer.

The final decision to accept or reject the product/manufacturer/installer lies solely with the District.

### **3 General Instructions**

#### **3.1 Bidder's Responsibility**

Bidders are cautioned not to submit Proposals until having carefully examined the entire site of the proposed work and adjacent premises and the various means of approach and access to the site, and having made all necessary investigations to inform themselves thoroughly as to the facilities for delivering, placing and handling the materials at the site, and having informed themselves thoroughly as to all difficulties involved in the completion of all the work under this Contract in accordance with its requirements.

Bidders must examine the Plans, Specifications and other Contract Documents and shall exercise their own judgment as to the nature and amount of the whole of the work to be done and for the bid prices must assume all risk of variance, by whomsoever made, in any computation or statement of amount or quantities necessary to complete fully the work in strict compliance with the Contract Documents. The Bidder must satisfy himself by making borings or test pits, or by such methods as he may prefer, as to the character and location of the materials to be encountered or work to be performed. No pleas of ignorance of conditions that exist or that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work under this Contract, as a result of failure to make the necessary examinations and investigations, will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill, in every detail, all of the requirements of the Contract Documents, or will be accepted as a basis for any claims whatsoever for extra compensation or for an extension of time.

**The Contractor is responsible for identifying the location of all existing utilities in the project areas.**

The Bidder, therefore, shall satisfy himself by such means as he may deem proper as to the location of all structures that may be encountered in construction of the work.

#### **3.2 Addenda and Interpretations**

No interpretation of the meaning of the Plans, Specifications, or other Contract Documents will be made to any bidder orally. Every request for such interpretation must be in writing addressed to the District, 3501 Kishwaukee Street, Rockford, Illinois. To be given consideration, such request must be received at least five (5) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda which, if issued, will be sent by email, fax, or certified mail with acknowledgement of receipt requested, to all prospective bidders, at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretation shall not relieve said bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

### **3.3 Laws and Regulations**

The prospective bidder is warned that he must comply with all laws of the United States Government, State of Illinois, all ordinances and regulations of the District in the performance of the work under this Contract. The Bidder's attention is specifically called to that provision of the General Conditions regarding the rate of wage to be paid on the work.

### **3.4 Quantities Estimated Only**

Bidders are warned that the estimate of quantities of the various items of work and materials, as set forth in the Proposal form, is approximate only and is given solely to be used as a uniform basis for the comparison of bids. The quantities actually required to complete the Contract work may be more or less than so estimated, and if awarded a Contract for the work specified, the Contractor further agrees that he will not make any claim for damages or for loss of profits or for an extension of time because of a difference between the quantities of the various classes of work assumed for comparison of bids and quantities of work actually performed.

### **3.5 Form, Preparation, and Presentation of Proposals**

For particulars as to the quantity and quality of the supplies, materials and equipment to be furnished, and the nature and extent of the work or labor to be done, prospective bidders are referred to the Contract Documents, which may be examined or obtained at the office of the District.

Each bid will be submitted upon the provided Proposal form. All blank spaces for bid prices must be filled in, in ink, with the unit or total sum or both for which the proposal is made. If the proposal contains any omissions, erasures, alterations, additions or items not called for in the itemized proposal, or contains irregularities of any kind, such may constitute sufficient cause for rejection of bid. In case of any discrepancy in the unit price or amount bid for any item in the proposal, the unit price as expressed in figures will govern. In no case is the agreement form to be filled out or signed by the bidder.

***Bidders may opt to contact the District Engineering Department at 815.387.7660 to obtain an electronic Proposal form. If used, this form must be attached to the hard copy Proposal form and appropriately signed and executed with the Bid.***

The bid must be verified and be presented on the provided form in a sealed envelope on or before the time and at the place stated in the Advertisement for Bids, endorsed with the name of the person, firm or corporation presenting it, the date of presentation, and the title of the work for which the bid is made. If forwarded by mail, the sealed envelope containing the proposal and marked as directed above, must be enclosed in another envelope addressed to Clerk of the Rock River Water Reclamation District, 3501 Kishwaukee Street, Rockford, Illinois, 61109 and be sent preferably by certified mail. The District will not accept facsimile generated bids.

### **3.6 Bid Security**

Each proposal must be accompanied by the District Bid Bond form with an acceptable Bid Security attached, in the amount specified in Article One, Notice to Bidders. This sum is a guarantee that, if the Proposal is accepted, a contract will be entered into and its performance properly secured. The District's Bid Bond Form included in the bid packet must be used. No other Bid Bond form may be substituted.

Within ten (10) days after the opening of bids, the deposits of all but the three lowest bidders will be returned. The deposits of the remaining two unsuccessful bidders will be returned within three (3) days after the execution of the contract, or, if no such contract has been executed, within sixty (60)



days after the date of opening bids. The deposit of the successful bidder will be returned only after he has duly executed the contract and furnished the required bond and insurance.

### **3.7 Affidavit of Compliance**

**Each proposal must be accompanied by an executed Affidavit of Compliance.** A separate Affidavit of Compliance form is enclosed with the Proposal packet. Failure to submit an executed Affidavit of Compliance with the proposal may constitute sufficient cause for rejection of the bid.

### **3.8 Statement of Qualifications**

Each proposal must be accompanied by a Statement of Qualifications certifying that the bidder is registered to do business in the State of Illinois and provides documentation that the bidder possesses the appropriate financial, material, equipment, facility and personnel resources and expertise necessary to meet all contractual obligations. **The bidder shall document a minimum of two (2) years of experience installing CIPP laterals of similar length and configuration as this project and shall have successfully installed a minimum of 5,000 CIPP laterals in wastewater collection systems. The manufacturer's system shall have a minimum of five (5) years of installation with a minimum of 10,000 CIPP laterals successfully installed.** The District reserves the right to request additional information, as needed, to evaluate bids prior to making an award.

### **3.9 Comparison of Proposals**

Bids on item contracts will be compared on the basis of a total computed price arrived at by taking the sum of the estimated quantities of each item, multiplied by the corresponding unit prices and including any lump sum bids on individual items, in accordance with the estimate of quantities set forth in the proposal form. Bids on lump sum contracts will be considered upon the basis of the lowest sum bid.

### **3.10 Acceptance of Bids and Basis of Award**

No bidder may withdraw his bid after the scheduled closing time for receipt of bids, for at least sixty (60) days.

The contract will be awarded, if at all, to the lowest responsive, responsible bidder. The District also reserves the right to reject any or all bids.

The bidder whose proposal is accepted shall enter into a written contract for the performance of the work and furnish the required bonds and insurance certificate within ten (10) days after written notice by the Engineering Manager of the District has been served on such bidder personally or by mailing a postpaid wrapper to such bidder at the address given in his proposal. If the bidder to whom the contract is awarded refuses or neglects to execute it or fails to furnish the required bond and insurance within five (5) days after receipt by him of the notice, the amount of his deposit shall be forfeited and shall be retained by the District as liquidated damage and not as a penalty. It being now agreed that said sum is a fair estimate of the amount of damages that the District will sustain in case said bidder fails to enter into a contract and furnish the required bond and insurance. No plea of mistake in the bid shall be available to the bidder for the recovery of his deposit or as a defense to any action based upon the neglect or refusal to execute a contract.

#### **3.10.1 Evaluation of Responsiveness**

The responsiveness of bidders will be judged on the basis of the completeness of the Bid submitted. To be responsive, a Bid must be submitted on the forms provided as part of the Bid Documents and comply with all the requirements of the Instruction to Bidders.

### **3.10.2 Evaluation of Responsibility**

To be judged as responsible, the bidder shall:

- a. Have adequate financial resources for performance, the necessary experience, organization, technical qualifications, and facilities, or a firm commitment to obtain such by subcontracts;
- b. Be able to comply with the required completion schedule for the project;
- c. Have a satisfactory record of integrity, judgment, and performance, including, in particular, any prior performance on contracts with the District;
- d. Have an adequate financial management system and audit procedures, that provide efficient and effective accountability and control of all property, funds, and assets;
- e. Conform to the civil rights, equal employment opportunity and labor law requirements of the Bid Documents.
- f. Have satisfactorily completed no less than three (3) sanitary sewer system contracts within the past five (5) years of equal or greater value to the bid being submitted.

### **3.11 The Rejection of Bids**

The District reserves the right to reject any Bid if the evidence submitted in the statement of the bidder's qualifications, or if investigation of such Bidder fails to satisfy the District that such Bidder is properly qualified to carry out the obligations and to complete the work contemplated therein. Any or all proposals will be rejected if there is reason to believe that collusion exists among the bidders. Conditional Bids will not be accepted. The District reserves the right to reject any and all Bids and to accept the Bid which they deem most favorable to the interest of the District after all proposals have been examined and canvassed.

### **3.12 Insurance and Bonding**

Contractor shall provide all necessary insurance and bonds required to complete the project. No more than ten (10) calendar days subsequent to the District's issuance of an award letter, the Contractor shall provide documentation to prove that he has obtained all required insurance and bonds. The District shall be the sole judge as to the acceptability of any such proof.

Contractor shall provide and maintain all insurance and bonds as required by the District.

#### **3.12.1 General**

The Contractor shall ensure that:

1. All insurance policies shall be specific to the project.
2. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for the 2020-2021 Service Lateral Lining, Capital Project No. 2133.
3. The District shall be named as insured in all policies; this shall include the Owners Contractors Protective Policy option.
4. All completed operations coverages and bonds shall remain in force for a period of two (2) years following acceptance of the project and completed operations shall stay in force for two (2) years following completion of the project.



### **3.12.2 Insurance**

The Contractor shall, for the duration of the contract and for two (2) years following project acceptance, maintain the following:

1. General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit. The Contractor shall provide "XCU" coverage.
2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage including coverages for owned, hired or non—owned vehicles, as applicable.
3. Workers' Compensation and Employers Liability: Workers' Compensation limits as required by statute and Employers Liability limits of \$500,000 per accident and \$500,000 per disease.
4. Umbrella: \$2,000,000 per occurrence/aggregate for contracts valued at \$500,000 or over, or \$1,000,000 for contracts below \$500,000. \$10,000 is maximum allowable self-retained limit.
5. Errors and Omissions: If the Contractor performs professional services, he shall maintain errors and omissions insurance with a limit no lower than \$1,000,000 for the duration of the contract.

The policies shall contain, or be endorsed to contain, the following provisions in the General Liability and Automobile Liability Coverage's:

- a. Unless otherwise provided in paragraph "c" of this section, the District, its officers, officials, employees and volunteers shall be covered as additional insureds as respects liability arising out of activities performed by or on insured's general supervision of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the District, its officers, officials, employees, volunteers, or agents.
- b. Unless otherwise provided in paragraph "c" of this section, the Contractor's insurance coverage shall be primary insurance as respects the District, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by the District, its officers, officials, employees, volunteers, or agents shall be excess of the Contractor's insurance and shall not contribute with it.
- c. As an acceptable alternative to provisions "a" and "b" of this section, the Contractor may provide owner's and contractor's protective liability insurance with coverage limits, named insureds, and in conformity with all applicable specifications of this section.
- d. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the District, its officers, officials, employees, volunteers, or agents.
- e. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- f. All Coverages — Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage, or in limits except

after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the District.

### **3.12.3 Best's Ratings**

The District shall be the sole judge of whether or not said insurer's ratios are satisfactory. The District's decision shall be final and the District's bidding procedures contain no appeal provision.

1. Alphabetical Rating: For purposes of this Request for Bids, "insurer" shall mean any surety, insurance carrier, or other organization which proposes to provide an insurance policy or bond for the Contractor. No insurer or surety rated lower than "A-, Excellent" in the current *Best's Key Rating Guide* shall be acceptable to the District.
2. Financial Size Rating: Provided an insurer's alphabetical rating is satisfactory, the District will examine said insurer's financial size rating.
  - a. If Best classifies the insurer XII or larger, said insurer shall be acceptable to the District.
  - b. If Best classifies the insurer as smaller than XII, but larger than VI, said insurer shall be submitted to the District's Business Manager and/or the District's insurance consultant for review.

Financial Size ratings less than VII are not acceptable and will disqualify the Contractor.

### **3.12.4 Performance Bond and Labor & Materials Payment Bond Form**

The Contractor shall provide a Performance Bond and Labor & Materials Payment Bond form acceptable to the District. The performance bond shall be for either 100% of the contract price or for the Contractor's unit price times the estimated number of units, as applicable.

This Request for Bids contains a Performance Bond and a Labor & Material Bond form for the Contractor's use.

If the Contractor fails to provide acceptable bonds within the specified time, he shall be in default.

### **3.12.5 Correction of Contractor's Insurance or Bond Deficiencies**

If the District determines that the Contractor's insurance or bond documentation does not conform to these specifications, the District shall inform said Contractor of the non-conformity. If said Contractor fails to provide conforming insurance or bond documentation within five (5) calendar days of the District's deficiency notice, he shall be in default.

### **3.12.6 Indemnification Clause**

Contractor shall protect, indemnify, hold and save harmless and defend the District, its officers, officials, employees, volunteers, and agents against any and all claims, costs, causes, actions and expenses, including but not limited to attorney's fees incurred by reason of a lawsuit or claim for compensation arising in favor of any person, including the employees, officers, independent contractors, or subcontractors of the Contractor or District, on account of personal injuries or death, or damages to property occurring, growing out of, incident to, or resulting directly or indirectly from the performance by the Contractor or subcontractor, whether such loss, damage, injury or liability is contributed to by the negligence of the District or by premises themselves or any equipment thereon whether latent or patent, or from other causes whatsoever, except that the successful bidder shall have no liability for damages or the costs incident thereto caused by the sole negligence of the District.

The indemnification shall not be limited by a limitation on amount or type of damages payable by or for the Contractor or its subcontractor under any employee benefits act including, but not limited, to the Workers Compensation Act.

No inspection by the District, its employees, or agents shall be deemed a waiver by the District of full compliance with the requirements of the Contract. This indemnification shall not be limited by the required minimum insurance coverages in the Contract.

**3.13 Tax Exemption**

The District is exempt, by law, from paying bidder Federal Excise Tax and Illinois Retailers' Occupational Tax. Therefore, the bidder shall exclude those taxes from his bid. The District's tax exemption number is E9992-3696-06. The bidder shall include all applicable taxes in his bid price.

Not to be used for bidding purposes

## Article 3 — Detailed Specifications

### 1 General

This article contains detailed specifications relating to Proposal items. The work to be done under each item is discussed along with units for payment and measurement for payment. The descriptions given do not necessarily outline all the work to be done under any item. The materials and workmanship provided for this project shall meet or exceed this article, the Rock River Water Reclamation District's (District) *General Provisions and Technical Specifications for Sanitary Sewer Construction* and current National Association of Sewer Service Companies (NASSCO) recommendations. In the case of contradictions between this article and the *General Provisions and Technical Specifications*, this article shall govern. In addition, the materials and workmanship provided for this project shall conform to current editions of the following:

- Standard Specifications for Water and Sewer Main Construction in Illinois as published by the Associated General Contractors of Illinois, the Illinois Municipal League, the Illinois Society of Professional Engineers and the Underground Contractors Association.
- Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation.
- American Society for Testing and Materials (ASTM):
  - ASTM D 543 Test Method for Resistance of Plastics to Chemical Reagents
  - ASTM D 638 Test Method for Tensile Properties of Plastics
  - ASTM D 790 Test Method for Tensile Properties of Non-reinforced and Reinforced Plastics and Electrical Insulating Materials
  - ASTM F 1216 Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
  - ASTM F 1743 Standard Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-in-place Installation of Cured-in-place Resin Pipe
  - ASTM F 2561 Standard Practice for Rehabilitation for a sewer service lateral and its connections to the main using a one piece main and lateral cured-in-place liner.

The Contractor shall provide the District with a construction schedule prior to performing any work. Any work that is performed by the Contractor without the District's permission or without a District inspector present may be rejected at the District's sole discretion.

Excavated or other materials shall not be stored or cast upon pavement. At the end of each day and prior to leaving the site, the Contractor shall clean-up work areas by sweeping, washing or other approved methods and shall transport all materials cleaned from the work site to an approved dumping area.

The Contractor shall perform all operations in strict accordance with OSHA and liner manufacturer's safety requirements. The District shall not be responsible for the enforcement of safety standards and will not supervise, direct, control, or have authority over the Contractor's construction means, methods, techniques, sequences, procedures, or safety precautions and programs incident thereto, or for any failure of the Contractor to fully comply with all applicable laws and regulations related to the performance and completion of the specified work.

The Contractor shall be responsible for the final installation and all tests of materials required by the District. All deficiencies noted by the inspectors shall be promptly corrected by the Contractor

without cost to the District and prior to final payment. The District will not be responsible for the Contractor's failure to perform or complete work in accordance with these Contract documents.

### **1.2 Required Submittals**

- Applicable ASTM specifications.
- Construction schedule.

### **1.3 Payment** – Not used.

## **2 Permit Requirements**

### **2.1 General**

All work in streets, highways, railroads or flood plains shall be subject to the regulations and requirements of the jurisdictional agency. The Contractor shall be responsible for securing all necessary permits, bonds, insurance, paying all fees and meeting all conditions required by all permits at no cost to the District. Copies of Contractor-secured permits shall be provided to the District prior to the start of construction. If conflicts or contradictions exist between Contract documents and required permit(s), the permit terms and conditions shall govern.

### **2.2 Local Permit Authorities**

1. The City of Rockford will require a Blanket Right-of-way permit for all services located in the City of Rockford, contact Jordan Masemore at 779-348-7634 or via email at [jordan.masemore@rockfordil.gov](mailto:jordan.masemore@rockfordil.gov) to obtain the permit.
2. For services in the City of Loves Park, notify Shannon Messinger at 815-654-5040 or via email at [shannonmessinger@loves-park.il.us](mailto:shannonmessinger@loves-park.il.us) forty-eight (48) hours, minimum, prior to beginning any work.
3. For services in Rockford Township, notify Barry Palm at 815-222-6951 or via email at [barrypalm@rockfordtownshipil.gov](mailto:barrypalm@rockfordtownshipil.gov) forty-eight (48) hours, minimum, prior to beginning any work.
4. For services in the Village of Machesney Park, contact Chad Hunter, at 815-877-5432 or via email at [chadh@machesneypark.org](mailto:chadh@machesneypark.org).
5. For services in the Village of Cherry Valley, contact Chuck Freeman, at 815-332-1269 or via email at [cfreeman@cherryvalley.org](mailto:cfreeman@cherryvalley.org).

### **2.3 Required Submittals**

1. Copies of all permits obtained.

### **2.4 Payment**

Payment for compliance and procurement of any permits required shall be included in the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

## **3 Notification and Access**

### **3.1 General**

The Contractor shall notify the District forty-eight (48) hours, minimum, prior to beginning any work and notify the District twenty-four (24) hours prior to working on a weekend or a District holiday. The Contractor will not be permitted to work on the following District holidays: Thanksgiving Day, Christmas Day, New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, or Labor Day.

The Contractor shall contact JULIE at 800-892-0123 forty-eight (48) hours, minimum, prior to the start of construction to have the on-site utilities located. All underground utilities shall be located by the utility owner and special care shall be taken when excavating to avoid any damage to the utility. The Contractor shall notify the local roadway authority seventy-two (72) hours in advance of performing any roadway removal or restoration work. All roadway removal and restoration shall be inspected and approved by the governing roadway authority.

The Contractor shall be responsible for the temporary maintenance of all roadways, drives and drainage facilities for the duration of the project and shall maintain access at all times to all affected businesses and residences. Work areas shall be restored to pre-construction conditions or to the satisfaction of the governing agency.

It shall be the Contractor's responsibility to secure any temporary or permanent access, storage or construction easements from property owners deemed necessary to perform the work as described in these specifications. All easement acquisition costs shall be incidental to Contract pay items.

The Contractor shall continuously maintain the current level of sanitary sewer service for the duration of the project. Property owners shall not be without sewer service for more than eight (8) hours.

### **3.2 Public Notification Program**

A public notification program must be implemented. At a minimum, the Contractor shall contact each home or business scheduled for lining to inform them of the work to be conducted and when the sewer will be out of service. Adjustment to the lining schedule shall be made to accommodate property owners and/or residents as necessary. The following shall also be provided:

1. Forty-eight (48) hour, minimum, advanced written notice to be delivered to each home or business describing the work, schedule, how it affects them, and a toll free or local telephone number of the Contractor contact they can call to discuss the project or any problems that arise. Notice shall also include contact information for the District's Field Operations Manager, Ben Christiansen, 815-209-7952. Notice may be in the form of a letter and/or door-hanger notification.
2. Personal contact or written notice the day prior to the beginning of work being conducted on the section relative to the residents impacted.
3. Personal contact with any home or business that cannot be reconnected within the time stated in the written notice.

### **3.3 Required Submittals**

1. Notification letter and/or door hanger notification.
2. Agreements for access and/or storage, as requested.

### **3.4 Payment**

Payment for notification and access shall be included in the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

## **4 Sewer Cleaning**

### **4.1 General**

The Contractor shall be responsible for cleaning and removing foreign materials from the sewer lines to permit proper installation of the pipe lining materials. The sewer line cleaning shall be accomplished by using a hydraulically propelled, high-velocity jet nozzle, or mechanically powered equipment. Selection of the equipment shall be the responsibility of the Contractor and shall be approved by the District prior to starting any of the work.

The cleaning procedure shall conform to current NASSCO recommendations and remove all dirt, grease, rocks, roots, sand, and any other material or obstructions from the pipe that would affect proper installation of the liner. Contractor shall notify the District of any sewer service segment that cannot be properly cleaned because of a broken pipe or other major blockage. If the District cannot make the necessary modifications to the sewer service to facilitate lining, the service will be removed from the Contract.

The Contractor shall take all necessary precautions in the use of cleaning equipment to prevent flooding or damage to any sewer lines, services, manholes and public or private property. To ensure safe operation, all machines shall be fully enclosed and shall be equipped with an automatic overload clutch or relief valve.

When hydraulically propelled or other cleaning tools are used, precautions shall be taken to ensure that the water pressure created does not damage the existing pipe or cause flooding of public or private property being served by the sewer.

### **4.2 Water and Electricity**

1. Electricity: Any electricity required shall be the responsibility of the Contractor.
2. Water: The Contractor shall be responsible for coordinating with the appropriate water authority for the availability of public water for this project. If public water is not directly available at specific sites, the Contractor is responsible for delivery of water to the site and for any fees charged for water usage. A calibrated water meter shall be obtained from the appropriate water department to gauge water usage as required. Local water authority contacts are as follows:

<b><u>Authority</u></b>	<b><u>Contact</u></b>	<b><u>Telephone</u></b>
City of Rockford	Jamie Rott	779-348-7152
City of Loves Park	Craig McDonald	815-877-1421
North Park Public Water Dist.	Ed Rice	815-633-5461

### **4.3 Solids Disposal**

All foreign materials cleaned from the sewers shall be removed at the downstream manhole of the section of sewer being cleaned. The Contractor shall not pass foreign materials into other pipe sections. All materials shall be removed from the project site and properly disposed of by the Contractor at the end of each workday. No debris shall be accumulated on the work site except in totally enclosed containers and as approved by the District.

### **4.4 Acceptance of Sewer Line Cleaning**

The Contractor shall televise all sewer services after they are cleaned and verify that the service is prepared for lining. If television inspection shows the cleaning to be unsatisfactory, the Contractor shall re-clean and re-televise the sewer line until it is acceptable to the District. No additional compensation will be awarded for re-cleaning or re-televising of sewers.

#### **4.5 Equipment Recovery**

If any equipment becomes stuck in the sewer line and excavation is required for tool removal, the Contractor shall be responsible for the cost of extraction work necessary, including but not limited to excavation, backfill, pavement and turf restoration, pipe repair and repairs to property damaged by sewer back-ups.

#### **4.6 Required Submittals**

1. Proposed cleaning equipment specifications.

#### **4.7 Payment**

Payment for sewer cleaning shall be included in the Contract unit price per Each (EA) for Clean and Televiser Service Lateral.

### **5 Sewer Flow Control**

#### **5.1 General**

The Contractor shall be responsible for controlling the flow in the sewer main to ensure the service liner is installed properly. If required, the Contractor will be allowed to reduce or eliminate the amount of flow by plugging the upstream line. The Contractor shall monitor flow and bypass pump into another sanitary sewer manhole. All plugs must be restrained to ensure that they cannot be washed downstream. All bypass pumping routes shall be approved by the District.

The service lateral must be inactive during the time of service liner installation and inspection. This shall be accomplished by plugging the upstream end of the service at the tee fitting and requesting that the homeowner refrain from using water during the installation period.

#### **5.2 Temporary Plugging**

The Contractor shall insert an acceptable sewer line plug into the mainline upstream of the section being worked on. The plug must be designed such that all or any portion of the sewage can be quickly released. The Contractor shall remove the plug well in advance of any sewer back-up and monitor the service during work as required to do so. After the work has been completed, flow shall be restored to normal.

#### **5.3 Bypass Pumping**

When bypass pumping is required, the Contractor shall supply the pumps, conduits, and other equipment to bypass sewage around the manhole section in which work is to be performed. The bypass system shall be of sufficient capacity to accommodate peak flows. The Contractor shall furnish the necessary labor and supervision to set up, operate and maintain the bypass pumping system.

Bypassed flow shall only be discharged into manholes approved by the District. The Contractor must ensure that surcharging and backups do not occur on public or private property while pumping or plugging operations are being conducted. If bypass pumping is required on a twenty-four (24) hour basis, the equipment shall be equipped with mufflers to restrict noise levels to 90 decibels or less. Hoses, pipes or other equipment shall not be placed upon private property without written permission of said property owner.

#### **5.4 Flooding Precautions**

When flow in a sewer line is plugged, blocked, or bypassed, the Contractor shall take sufficient precautions to protect the sewer lines from damage that might result from sewer surcharging, and



to ensure that sewer flow control operations do not cause flooding or damage to the public or private property being served by the sewer involved.

The Contractor will be liable for any damage caused by sewer back-ups.

### **5.5 Required Submittals**

1. Proposed bypass pumping route(s), as applicable.

### **5.6 Payment**

Payment for sewer flow control shall be included in the Contract unit price bid per Each (EA) for CIPP Lateral Reconstruction.

## **6 Cured-in-Place Pipe (CIPP) Lateral Reconstruction**

### **6.1 General**

It is the intent of this specification to provide for the reconstruction of sanitary service lateral pipes from the sewer main to the property line without excavation by the installation of a resin impregnated flexible tube. The cured-in-place pipe (CIPP) shall be installed in the existing service lateral, in accordance with ASTM F-1216, ASTM F-1743, and/or ASTM F-2561 through a 6" diameter clean-out at the property line or from the mainline pipe. The resin and tube shall be held in place using internal pressure and cured into a hard impermeable pipe. When cured, the pipe shall be a continuous, tight-fitting pipe-within-a-pipe. The rehabilitation shall also provide a watertight connection at the mainline pipe.

### **6.2 Cured-in-place Pipe (CIPP)**

The tube shall be fabricated to a size that when installed provides a CIPP that will neatly conform to the internal circumference of the existing service pipe. **The Contractor shall be responsible for verifying the length, diameter and condition of all existing services.**

1. Cured-in-place Pipe (CIPP) Material Specifications
  - a. Chemical resistance: The CIPP shall be fabricated from materials which when cured will be chemically resistant to withstand internal exposure to domestic sewage, and meet the chemical corrosion resistance requirements of ASTM F-1216 and D-5813. All materials shall be suitable for service in the environment intended.
  - b. Tube: The tube material shall meet the requirements of ASTM F 1216, Section 5.1.
    - i. Absorbent Fabric Tube: The tube shall consist of one or more layers of absorbent fabric capable of carrying resin, and capable of withstanding installation pressures and curing temperatures. The tube shall be compatible with the resin system used. The tube material shall be capable of stretching to fit irregular pipe sections and bends.
    - ii. Allowance should be made for circumferential stretch during inversion. For the pull-in methods of lining, the resin soaked tube shall have an outer plastic lining that effectively prevents the scrape-off or wash-off of resin.
    - iii. Thickness: The liner shall be designed in accordance with ASTM F-1216. The finished tube shall have a uniform thickness and shall not vary from the nominal minimum tube thickness by more than 5%. The minimum liner thickness for this project shall be 3.0 mm unless design calculations per the CIPP structural requirements provided in this specification demonstrate a thinner liner would be acceptable.

- iv. Color: The tube shall be a light reflective color so that a clear, detailed examination with closed circuit television equipment may be made.
  - v. Delamination: The bond between all CIPP layers shall be strong and uniform. Once cured, all layers must form a homogeneous structural pipe wall with no part of the tube left unsaturated by resin. It shall not be possible to separate any layers with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between layers; nor shall separation of layers occur during testing performed under the requirements specified elsewhere herein.
  - c. Resin: The resin system shall be thermoset polyester, vinylester (or District approved alternate) resin meeting the requirements of ASTM F-1216, Section 5.2.
    - i. The manufacturer shall certify that the proposed resin system and cure schedule are appropriate for the proposed application, and have been tested in laboratory and field conditions. The resin shall produce CIPP, which will comply with the structural and chemical resistance requirements specified.
    - ii. The resin used shall be compatible with the tube and be able to cure in the presence of water. Thixotropic agents that enable the resin system to possess pseudo-plastic fluid flow properties, and that do not interfere with visual inspection, shall be added for viscosity control and to minimize resin washout.
    - iii. Resins may contain pigments that do not interfere with visual inspection of, or the physical testing of the CIPP material. Filler materials of a proprietary nature may be added as long as the final pipe product meets or exceeds the minimum standards set forth in this specification.
  - d. Deviations: The Contractor shall submit his price proposal for the appropriate length, size and thickness designated or required. No changes in prices will be entertained by the District as a result of the Contractor modifying the properties of the liner due to unexpected parent pipe conditions.
2. Cured-in-place Pipe (CIPP) Structural Design Requirements
- a. The CIPP pipe shall be designed in accordance with the requirements of ASTM F 1216, Appendix XI, with the following design parameters:
    - i. Design safety factor: 2.0
    - ii. Reduction factor for long-term effects: 0.50 (applied to flexural modulus).
    - iii. Ovality: 2% min.
    - iv. Enhancement factor (K): 7
    - v. Groundwater depth: To grade
    - vi. Soil Depth: To grade
    - vii. Soil Modulus: 1000 psi
    - viii. Soil density: 120 pcf
    - ix. Live load: 0
    - x. Design condition: Fully deteriorated
  - b. Design calculations shall be submitted to the District for approval prior to lining.
3. Structural Performance
- a. The structural performance of the finished pipe must be able to accommodate all anticipated loads throughout the design life of the CIPP. No CIPP reconstruction technology will be allowed that requires bonding to the existing pipe for any part of its structural strength. If reinforcing is used (fiberglass, etc.), those materials must be of a corrosion-resistant grade and be fully encapsulated within the resin to assure that the reinforcement is not compromised when exposed to raw sewage.

The cured-in-place pipe shall conform to the minimum structural standards as listed below:

<u>Property</u>	<u>ASTM Standard</u>	<u>Minimum</u>
Flexural Strength	ASTM D-790	4,500 PSI
Flexural Modulus of Elasticity	ASTM D-790	250,000 PSI

- b. Structural Testing: To verify past performance, the manufacturer shall submit independent laboratory test results from the same liner materials proposed for the actual installation. These test results must verify that the structural properties specified above have been achieved in previous field applications. Samples shall be prepared and tested in accordance with ASTM F-1216. Copies of certified test reports by an approved testing laboratory shall be provided to the District. The flexural modulus of elasticity and flexural strength shall be measured for gravity pipe applications in accordance with Test Method D-790, Test Method #1 - Procedure A.
4. Preparation of Liner
- a. Liner material must be inspected to verify conformance with manufacturer's standards prior to impregnation.
- b. Wet Out: The tube shall be impregnated with resin under controlled conditions. The volume of resin used should be sufficient to fill all voids in the tube material at nominal thickness and diameter. A roller system shall be used to uniformly distribute the resin throughout the tube. All air in the tube shall be removed by vacuum, allowing the resin to thoroughly impregnate the tube. Should any unsaturated section of the tube be noticed before inversion, the unsaturated area of the tube shall be re-impregnated with the resin using methods developed by the Contractor and approved by the District.
5. Lateral Lining Installation
- a. Installation of the lateral lining system shall take place by one or both of the following installation methods:
- i. Install service liner through sanitary sewer main: A pressure apparatus, attached to a robotic device, shall be hand-winched through the mainline pipe to the service connection. The robotic device and a television camera shall be used to position the pressure apparatus installation hardware at the service connection opening. Air pressure shall be used to install the tube into the lateral pipe.
- ii. Install service liner through existing cleanout: A pressure apparatus shall be pulled into place through the cleanout. Air pressure shall be used to install the wet-out tube into the lateral pipe.
- b. Non-toxic lubricant may be used to reduce friction. The inversion / installation process shall be conducted at a maximum controlled speed of two feet per second (2 fps).
- c. Pressure: Tube installation forces or pressures shall be limited so as not to stretch the tube longitudinally by more than 5% of the original length. Prior to installation, the tube manufacturer shall determine the minimum pressure required to hold the tube tight against the host pipe and the maximum allowable pressure to avoid over-stretching or damaging tube. Once the installation has started, the pressure shall be

maintained between the minimum and the maximum pressures until the installation is complete.

- d. The Contractor shall be responsible for coordinating with the appropriate water authority for the availability of public water for this project. If public water is not directly available at specific sites, the Contractor shall be responsible for delivery of water to the site. The Contractor shall be responsible for any fees charged for water usage. If required, the Contractor shall obtain a calibrated water meter from the appropriate water department to gauge usage of water.
  - e. Curing: Curing shall take place per the manufacturer's recommendations. The Contractor shall provide submittals on all lining materials and resins, and shall furnish manufacturer certification that the liner materials are in compliance with the specifications, codes, and standards referenced herein. The submittals shall include details of all construction material components, including complete manufacturers recommendations for storage procedures and temperature control (step curing temperature/hours at each and final stage for each section thickness and length), handling, inserting the liner, and curing details.
6. Finish: The finished CIPP shall be free of dry spots, lifts, wrinkles or delamination. The CIPP shall not inhibit the closed circuit television post-video inspection of the mainline or service lateral pipes. The service lateral pipe opening at the connection to lined mainline has been reinstated in a manner that is consistent with *ASTM F-1743, Section 6.9*. The method of connection of the service liner pipe to the main must be approved by the District. If the service reinstatement in the existing CIPP or fold and formed liner, has rough or jagged edges or is not fully open, the Contractor shall modify the service connection at the main as specified elsewhere herein. The connection of the service to the mainline sewer must be made watertight by means of a hydrophilic seal or other District approved method.
7. Final Acceptance:
- a. Upon completion, the Contractor shall televise the lined lateral and provide the inspection video to the District.
  - b. Upon completion of service lining, District crews will televise the sewer main to verify acceptance of the sewer service connection at the main. The Contractor shall coordinate main line connection inspection schedule with the District Inspector.

### **6.3 Required Submittals**

1. Chemical resistance test data from CIPP from previous construction contracts.
2. Tube material specification.
3. Resin system material specification.
4. Liner thickness design calculations.
5. Structural property testing results from previously completed projects.
6. Curing details.

### **6.4 Payment**

Payment for Cured-in-place Pipe Lateral Reconstruction shall be made based on the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

## **7 Service Reinstatement Modification**

### **7.1 General**

Prior to installing the service liner, the Contractor shall locate the sewer lateral openings in the lined sewer main by televising. The Contractor shall inspect service openings in the existing liner pipe.

If required, the Contractor shall modify / re-cut or brush existing service connections to achieve one hundred percent (100%) of the original opening. Service modification shall be done without excavation from the interior of the pipe by means of a television camera and a remotely controlled cutting device or brush. The edges of the service cut-ins shall be smooth and even. There shall be no rough or jagged edges. The entire circumference (360°) of the sewer service reinstatement shall be televised and recorded on the post-lining videotape.

The service opening shall be reviewed by the District prior to modification and shall meet District approval prior to lining.

Any pieces of the liner that were cut from the service connections shall be captured at the downstream manhole and disposed of by the Contractor.

### **7.2 Required Submittals** – Not Used.

### **7.3 Payment**

Payment for modification of the sewer service connection at the main will be made at the Contract unit price per Each (EA) for Service Reinstatement Modification.

## **8 Television Inspection**

### **8.1 General**

The Contractor shall televise and document all service line conditions after cleaning the service but prior to installing the service liner. Recording will also be required after the liner is installed. The District will review the recordings for final acceptance. All televising shall be performed by experienced technicians.

All sewer televising shall be done in accordance with recommended specifications as published by the National Association of Sewer Service Companies (NASSCO).

The Contractor shall also provide equipment to play back the recordings in the field as requested by the District. The equipment shall play back at the same speed that it was recorded, and shall have a slow-motion or stop-action feature.

Prior to installing the liner, the interior of the service line shall be carefully inspected to verify the inside diameter and to determine the locations of any conditions that would prevent the proper installation of the sewer liner.

### **8.2 Televising Equipment**

All televising equipment utilized for inspection of service lateral pipes shall conform to the minimum standards established herein.

1. Televising equipment shall include a push rod wide angle service camera, television monitor, cables, power source, lights, skids, and other required equipment. The television camera shall be specifically designed and constructed for operation in connection with sewer inspection.

2. Camera Specifications: The camera, television monitor, and other components of the video system shall be capable of producing a minimum 600-line resolution color video picture. The camera shall be operative in one hundred percent (100%) humidity conditions. Lighting for the camera shall be supplied by a lamp on the camera and will minimize reflective glare. Lighting and camera quality shall be suitable to provide a clear, in-focus picture of the entire inside periphery of the sewer pipe for all conditions encountered during the work. Picture quality and definition shall be to the satisfaction of the District. The camera used for televising the sewer service shall be a push service camera. Markings shall be made on the push camera cable to measure distance and the distances shall be verified above ground with a tape.
3. Recording Requirements: All sewer televising shall be documented on digital media. The recording shall include information that accurately reproduces the original picture of the video inspection. The recording shall be free of electrical interference and shall produce a clear and stable image.

The pipeline inspection shall consist of identifying a location both within the pipe segment (physical location) and within the recording (video frame location) for each observation. This will allow the recording and inspection data to be cross-referenced for instant access to any point of interest within the recording.

Continuous measurements along service lines shall be electronically or manually recorded for purposes of referencing locations of pipe defects. The date and service address or Item number from the Lateral Reconstruction Schedule shall be continuously displayed on the recording header.

### **8.3 TV Inspection and Data Collection Practices**

All inspection and recording practices shall conform to the minimum standards specified herein.

1. Color: All recordings shall be in color with the ability to achieve proper balance of tint and brightness. The loss of color or severe redness due to equipment malfunction and black and white pictures irrespective of quality may be cause for rejection.
2. Focus: All recordings shall be in focus, properly illuminated with good contrast and without interference.
3. Cleaning: Prior to televising, all lines shall be cleaned by the Contractor in accordance with applicable specifications or as directed by the District. All obstructions that restrict flow, prevent cleaning, or televising should be reported to the District immediately.
4. Maximum Flow Depth: If possible, televising shall be performed while the line segments are in service without plugging or flow diversion.
5. Camera Movement: The camera shall move through the line at a uniform rate, stopping when necessary to ensure proper documentation of the sewer's condition but in no case shall the television camera be pulled at a speed greater than 30 feet per minute.
6. Lens Cleaning: The camera lens must be kept clean and clear. Any fogging due to wastewater content or debris that obscures the lens shall be cleaned off before proceeding with the recording operations.
7. Sewer Length Accuracy: Measurements shall be accurate to +/- 1.0 feet over the length of the section being inspected. Distance marks shall be made on the push camera and all measurements verified above ground with a walking meter, roll-a-tape, or other suitable device.

8. Digital Recording Review: The Contractor shall provide the District with digital recordings (1 copy) of all sewer services before and after rehabilitation with visual records of all services and problem areas provided in a format that is compatible with the District's equipment. Electronic files shall be organized by Contract Item Numbers from the *Lateral Reconstruction List* provided in *Section III*. File labels shall clearly describe post-lining and pre-lining for each service. During construction, the Contractor may submit video inspections for review and approval to expedite any corrective work, but the final video submittal must contain all video inspections on a single SSD hard drive. All recordings submitted by the Contractor to the District shall be subject to review for acceptability of quality conforming to the minimum standards established herein. The cost of providing the hard drive shall be incidental to the sewer lining.
9. Unacceptable Inspection: If the recording of any portion of a line is unacceptable, the entire segment will be deemed unacceptable and must be re-televised from the property line to the main.
10. Complete Service Line Segments: All services must be televised complete from the sewer main to property line on the same recording in a continuous run. Partial recordings on separate files will not be accepted.

**8.4 Required Submittals** – Not Used.

**8.5 Payment**

Payment for the television inspections of the lined service shall be included in the Contract unit price bid per Each (EA) for CIPP Lateral Reconstruction.

**9 Restoration Work**

**9.1 General**

Restoration work shall include the following provisions:

1. All soil, brush and debris resulting from construction shall be removed and disposed of in a satisfactory manner. The surface of the ground, all fences and other structures on the premises or adjacent premises touched or in any manner altered by construction of the sewer, shall be restored to pre-construction conditions.
2. Ground surface including public Rights-of-Way and easements that were covered with grass prior to construction shall be seeded in accordance with Sections 250, and 251 of the IDOT *Standard Specifications for Road and Bridges Construction*, current edition, and as directed by the District. The Contractor shall make certain that all disturbed areas have the same depth (4" minimum) and quality of approved topsoil as existed prior to construction.
  - a. The seeding mixture used shall be compatible with the existing ground cover and shall be acceptable to the District. Maintainable lawn areas shall be seeded with IDOT Class I seeding mixture. Existing non-maintained turf areas shall be seeded with IDOT Class 3-slope mixture.
3. On private property, the Contractor shall remove and replace (or replant) all bushes, shrubs and plants damaged or destroyed with species of similar type, size and quantity. These plantings shall be guaranteed for a period of one (1) year after final completion.

## **9.2 Excavation**

In the unlikely case excavation is required beyond the scope of exposing existing cleanouts, all restoration of private and public property, including sidewalks, driveways, all other slab work, concrete and asphalt, drainage channels, storm sewers and dry wells, disturbed or damaged as a result of construction shall be promptly completed, in accordance with roadway authority standards within public Right-of-Way or to pre-construction conditions as directed by the District and guaranteed by the Contractor for a period of two (2) years following satisfactory completion and final acceptance of the total Contract.

All excavated areas shall be guaranteed against subsidence and settlement for a period of three (3) years after final completion of the Contract. Any restoration work damaged as a result of subsidence shall be restored again at no cost to the District.

All structures and conduits shall be repaired, cleaned and re-laid or replaced at original alignments and grades. Pipes, which in the estimation of the District have been significantly damaged by the Contractor, shall be replaced with new pipe of the same diameter, length and type, at the Contractor's sole expense; any necessary couplings and fittings shall also be installed as necessary, and all work shall be satisfactory to the District. When necessary, temporary restoration of roads, drives, fences, etc., will be required.

## **9.3 Required Submittals**

1. Seed mixture certification(s).
2. Pavement mix designs (if applicable).

## **9.4 Payment**

Payment for restoration work shall be included in the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

# **10 Safety and Traffic Control**

## **10.1 General**

The work described under this contract includes work within sanitary sewers, an environment deemed hazardous by State and Federal authorities. The Contractor shall employ all safety measures appropriate for such work. The Contractor shall be solely responsible for the safety of the operations and shall comply with all state, local and OSHA regulations. The Contractor shall meet all the requirements of all permits secured for this project.

## **10.2 Safety Program**

The Contractor shall develop and maintain a safety program that will effectively incorporate and implement all required safety provisions as determined by OSHA 29 CFR for the duration of this Contract.

## **10.3 Traffic Control**

The Contractor shall comply with all rules and regulations of the State, County, and Local authorities regarding closing or restricting the use of public streets or highways. No public or private road shall be closed, except by express permission of the District. The work shall be constructed so as to assure the least possible obstruction to traffic and normal commercial activities. Contractor shall protect all obstructions within traveled roadways by installing approved signs, barricades, and lights where necessary for the safety of the public. The Contractor



shall notify the appropriate roadway authority a minimum of seventy-two (72) hours prior to beginning any work for approval of traffic control in any affected streets, as well as required detour routes, signing and permits.

The Contractor shall provide access to the residences and/or businesses, schools, etc., at all times (i.e., drives, roadways, ramps must remain open or temporary access must be provided) for the duration of this Contract.

The Contractor shall furnish flagmen, guards and all other traffic control devices when required by regulation or deemed necessary for safety.

**10.4 Required Submittals** – Not Used.

**10.5 Payment**

Payment for safety and traffic control shall be included in the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

**11 Quality Assurance**

**11.1 General**

The television inspection described in previous sections shall be used by the District to perform final inspection on the lined pipe. The finished pipe liner shall be continuous from the sewer main to the property line and shall be free from all visual defects such as foreign inclusions, dry spots, pinholes, pilot holes, wrinkles or delamination. The lining shall be impervious and free of any leakage between the pipe and the surrounding ground, as well as any leakage at the connection to the sewer main.

Upon completion of service lateral lining, the District will televise the sewer main to verify the acceptance of the sewer service connection at the main.

The Contractor shall repair any defects in the liner that will affect the integrity or strength of the pipe and any visual or functional defects such as wrinkles, drill holes, folds, pillows, etc., at his own expense. All repairs shall be performed in a manner that is mutually agreed upon by the District and the Contractor. If a liner fails and is determined to be unacceptable by the District the entire length of lined pipe from the main to the property line shall be removed and replaced per District requirements at no additional cost to the District.

**11.2 Wrinkles and Folds**

Any wrinkles or folds in the finished liner pipe that are larger than five percent (5%) of the pipe diameter and are located in the bottom half of the service shall be unacceptable and shall be removed and repaired by the Contractor at his sole expense. The method of removal/repair shall be approved by the District.

**11.3 Structural Property Testing**

For every twenty (20) laterals lined, one (1) flat plate sample shall be tested by a third party test laboratory for confirmation of flexural strength and flexural modulus of elasticity in accordance with ASTM F-1216. Should any samples fail to meet minimum structural properties, the Contractor shall excavate, sample and re-test material to the satisfaction of the District. The District will determine the quantity and individual liner(s) subject to additional structural property testing in the case of failed flat plate sample tests.

#### **11.4 Required Submittals**

1. The Contractor shall submit quality control procedures for the liner manufacture and installation, including detailed inspection, collection of field samples, retention of samples, and testing of physical properties of field samples.
2. Contractor shall submit evidence of manufacturer approved installer training, testing and / or certification of personnel employed being trained to install the product by the manufacturer for the product.

#### **11.5 Payment**

Payment for quality assurance shall be included in the Contract unit price per Each (EA) for CIPP Lateral Reconstruction.

### **12 Warranty**

The Contractor shall unconditionally warrant their products for a period of two (2) years commencing on the date installation of the entire project is completed and accepted, in writing, by the District. The Contractor shall repair, at his own expense, any defects in the liner that will affect the integrity or strength of the pipe. All repairs shall be performed in a manner that is mutually agreed upon by the District and the Contractor. Any such repairs shall likewise be covered by the same warranty period from the date of subsequent installation and written approval by the District.

Any repairs required after the service liner is installed and within the two-year warranty period will require testing in accordance with *T.S. 9 Acceptance Tests*, Pages 94 through 98 of the *General Provisions and Technical Specifications for Service Lateral Construction*. This testing shall be performed by the Contractor at no additional cost to the District. Complete site restoration of any repairs shall also be the responsibility of the Contractor. All trenches and related restoration shall be guaranteed against settlement for a period of three (3) years from the date the project is completed.

During the warranty period, any defects which will affect the integrity or strength of the cured-in-place pipe shall be repaired at the Contractor's expense in a manner mutually agreed upon by the District and the Contractor.

**12.2 Required Submittals** – Not Used.

**12.3 Payment** – Not Used.

**Section II**  
**Contract Forms**

## Proposal

**Project:** 2020-2021 Service Lateral Lining, Capital Project No. 2133

**Location:** Throughout public right-of-way and sanitary sewer easements within the Rock River Water Reclamation District in Winnebago County, Illinois.

**Completion Date:** April 30, 2021 – All work completed and video inspections delivered; Thirty (30) days from final punch list – All corrective work complete and accepted by the District

**Liquidated Damages:** \$300/calendar day per each completion date deadline

To: Board of Trustees  
Rock River Water Reclamation District  
3501 Kishwaukee Street  
Rockford, IL 61109

From: \_\_\_\_\_  
(Individual, Partnership or Corporation, as case may be)

\_\_\_\_\_  
(Address of Individual, Partnership or Corporation)

Gentlemen:

I (We), the undersigned, hereby propose to furnish all materials, equipment, tools, services, labor, and whatever else may be required to construct and place in service the above subject Sanitary Sewer for the Rock River Water Reclamation District all in accordance with the plans and specifications, provided by the Rock River Water Reclamation District. The undersigned also affirms and declares:

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and

without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the Rock River Water Reclamation District, which it is agreed, shall be retained as liquidated damages by said Rock River Water Reclamation District if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.
5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered into.
6. The Bidder is not in arrears to the Rock River Water Reclamation District, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Rock River Water Reclamation District.
7. No officer or employee or person whose salary is payable in whole or in part by the District is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it is relates, or in any portion of the profits thereof.
8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the District and the District's representatives.

In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.

9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 99-093 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including the Rock River Water Reclamation District) to submit certified payroll records on a monthly basis, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing false records is a Class B Misdemeanor. The successful Bidder shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. Prevailing wage rates may be found on the Illinois Department of Labor website at [www.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx](http://www.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx) .

The certified payroll records must include the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending time of work each day, for every worker employed on the project. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B Misdemeanor. Certified payroll reports

shall be submitted on industry standard forms such as IDOT Statement of Compliance (SBE 348) or other approved equal.

11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".
13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.
14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

In submitting this bid, it is understood that the right is reserved by the Rock River Water Reclamation District to reject any and all bids. It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.

The undersigned further declares that he (they) has (have) carefully examined the following items of work and that the cost of all the work to complete this project is given in this Proposal.

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	198	EA	CIPP Lateral Reconstruction			
2	198	EA	Clean & TV Service Lateral			
3	5	EA	Service Reinstatement Modification			
TOTAL BID PRICE:						
				(In Writing)		(In Figures)

The undersigned acknowledges receiving Addendum numbers \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and realizes that all Addenda are considered part of the contract.

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

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

# Fair Employment Practices Affidavit of Compliance

PROJECT: 2020-2021 Service Lateral Lining, Capital Project No. 2133

NOTE: THE BIDDER MUST EXECUTE THIS AFFIDAVIT AND SUBMIT IT WITH ITS SIGNED BID. THE ROCK RIVER WATER RECLAMATION DISTRICT CANNOT ACCEPT ANY BID WHICH DOES NOT CONTAIN THIS AFFIDAVIT

\_\_\_\_\_, being first duly sworn, deposes and says that:  
(Name of person making affidavit)

They are: \_\_\_\_\_ of \_\_\_\_\_  
(Officer's Title) (Company Name)

that said company is and "Equal Opportunity Employer" as defined by Section 2000(e) of Chapter 21, Title 42 of the United States Code annotated and Federal Executive Orders #11375 which are incorporated herein by reference;

and that said company will comply with any and all requirements of Title 44 Admin. Code 750. APPENDIX A – Equal Opportunity Clause, Rules and Regulations, Illinois Department of Human Rights, which read as follows:

"In the event of the contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance to this contract, the contractor agrees as follows:

1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizen status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
2. That, if he or she hires additional employees in order to perform this contract or any portion of this contract, he or she will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the areas from which he or she may reasonably recruit and he or she will hire for each job classification for which employees are hired in a way that minorities and women are not underutilized.
3. That, in all solicitations or advertisements for employees placed by him or her or on his or her behalf, he or she will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service.
4. That he or she will send to each labor organization or representative of workers with which he or she has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
5. That he or she will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
6. That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
7. That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

(Source: Amended at 32 Ill. Reg. 16484, effective September 23, 2008)"

IL Dept of Human Rights Registration No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

\_\_\_\_\_  
Signature

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public



## Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

\_\_\_\_\_ (hereinafter called the Principal) and

\_\_\_\_\_ (hereinafter called the Surety)

a Corporation chartered and existing under the laws of the State of \_\_\_\_\_ with its principal offices in the City of \_\_\_\_\_ and authorized to do business in the State of Illinois are held and firmly bound onto the Rock River Water Reclamation District of Winnebago County, Illinois (District), in the full and just sum of: **FIVE PERCENT (5%) OF THE TOTAL BID PRICE** good lawful money of the United States of America, to be paid upon demand of the District, to which payment will and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to the District, a proposal for constructing Sanitary Sewers and Appurtenances.

WHEREAS, the Principal desires to file this bond, in accordance with law, to accompany this Proposal.

NOW THEREFORE, The conditions of this obligation are such that if the Proposal be accepted, the Principal shall, within ten days after the date of receipt of a written notice of award of Contract, execute a Contract in accordance with the Proposal and upon the terms, conditions, and prices set forth therein, in the form and manner required by the District, and execute a sufficient and satisfactory Contract Performance Bond payable to said District in an amount of one hundred percent (100%) of the Contract price (including alternates) in form and with security satisfactory to said District, then this obligation to be void, otherwise to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid District, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed  
and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
**Principal**

(Seal)

By \_\_\_\_\_

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

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

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

Attest:

\_\_\_\_\_  
Secretary

\_\_\_\_\_

**Surety**

(Seal)

By \_\_\_\_\_

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

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

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

# Agreement

## 1. General

THIS AGREEMENT, made and concluded this \_\_\_\_ day of \_\_\_\_\_, 2020, between the Rock River Water Reclamation District, Rockford, Illinois (District), acting by and through the Board of Trustees, and \_\_\_\_\_, his/their executors, administrators, successors or assigns:

## 2. Scope of Work

WITNESSETH: That for and in consideration of the payments and agreements made in the Proposal attached hereto, to be made and performed by the District and according to the terms expressed in the Bond referring to these presents, the Contractor agrees with the District at his/their own proper cost and expense to do all the work, furnish all equipment, materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the District and its representative.

And it is also understood and agreed that the Bidding Requirements, Detailed Specifications, Contract Forms, General Conditions, General Requirements, Technical Specifications, Plans, Addenda, and provisions required by law are all essential documents of the contract, and are a part hereof, as if herein set out verbatim or as if attached, except for titles, subtitles, headings, table of contents and portions specifically excluded.

## 3. Contract Price

The District shall pay to the Contractor, and the Contractor shall accept, in full payment for the performance of this Contract, subject to any additions or deductions provided for hereby, in current funds, the Total Contract Price of \_\_\_\_\_ and 00/100 (\$\_\_\_\_\_).

Payments are to be made to the Contractor in accordance with and subject to the provisions of Section 7 of this Agreement, which is a part of this Contract.

## 4. Bond

The Contractor has entered into and herewith tenders a bond of even date herewith, in the penal sum of \_\_\_\_\_ and 00/100 (\$\_\_\_\_\_) to insure the faithful performance of this Contract, which said bond is hereby made a part of this Contract by reference.

## 5. Maintenance and Guarantee

The Contractor shall promptly repair, replace, restore or rebuild any imperfections that may arise and shall maintain satisfactory to the District all work for a period three years from the date of final acceptance of the Contract for trench settlement and for a period of two years all other work, except where periods of maintenance and guarantee are provided for. The Contractor shall, for this period, indemnify and save harmless the District, its officers and agents from any injury done to

property or persons as a direct or alleged result of imperfections in the Contractors' work, and shall immediately assume and take charge of the defense of such action or suits in like manner and to all intents and purposes as if said actions and suits had been brought directly against the Contractor.

If the Contractor shall fail to repair, replace, rebuild or restore such defective or damaged work promptly after receiving notice given by the District, the District shall have the right to have the work done by others and to call on the Contractor and his bondsman to pay the costs thereof.

## **6. Contract Execution**

IT IS EXPRESSLY UNDERSTOOD AND AGREED that the entire improvement shall be done in a thorough and workmanlike manner, under the direction and to the satisfaction of the District and in full compliance with all the requirements of its representative under them. All loss or damage arising out of the nature of the work to be done, or from any detention of unforeseen obstruction or difficulty which may be encountered in the prosecution of the work, or from the action of the elements, shall be sustained by the Contractor.

The Contractor will be held responsible for all accidents, and hereby agrees to indemnify and protect the District from all suits, claims, and actions brought against it, and all cost, and damages which the District may be put to by reason of an injury or alleged injury, to the person or property of another in the execution of this contract, or the performance of the work, or in guarding the same, or for any material used in its prosecution or in its construction.

Any person employed on the work who shall refuse or neglect to obey the directions of the District or its representative, or who shall be deemed by the District to be incompetent, or who shall be guilty of any disorderly conduct, or who shall commit any trespass on any public or private property in the vicinity of the work, shall at once be removed from the work by the Contractor when so requested by the District.

Any request to extend the contract completion date must be considered by the Board at the Board meeting prior to the then-existing contract termination date. Any deviation from this action will result in the liquidated damage clause in the contract to be exercised.

## **7. Payments to Contractor**

The District hereby covenants and agrees, in consideration of the covenants and agreements in this Contract, specified to be kept and performed by the Contractor and subject to the conditions herein contained, and if the District receives an acceptable invoice prior to the tenth day of the month and receives approval of the work by the District Engineering Manager, the District shall issue payment before the fifth day of the succeeding month. If the District receives an acceptable invoice on or after the tenth day of the month, the District shall issue payment before the fifth day of the second succeeding month.

The District reserves the right at all times to refuse to issue payment in case the Contractor has neglected or failed to pay any subcontractors, workmen or employee on the work.

## **8. Subcontracts**

No part of the work herein provided for shall be sublet or subcontracted without the express consent of the District, to be entered in the records, and in no case shall consent relieve the Contractor from the obligation herein entered into, or change the terms of this Agreement.

## **9. Contractor's Responsibility**

This Contract shall extend to and be binding upon the successors and assigns, and upon the heirs, administrators, executors, and legal representatives of the Contractor.

In consideration of and to induce the award of this Contract to him, the Contractor represents and warrants: that he is not in arrears to the District upon debt of the Contract and that he is not a defaulter, as surety, contractor or otherwise; that he is financially solvent and sufficiently experienced and competent to perform the work; that the work can be performed as called for by the Contract; that the facts stated in his proposal and the information given by him is true and correct in all respects, and that he is fully informed regarding all the conditions affecting the work to be done and labor and materials to be furnished for the completion of this Contract and that his information was secured by personal investigation and research.

The Contractor shall pay not less than the prevailing wage rate as determined by the Department of Labor, to all laborers, workmen and mechanics performing work under this Contract. Contractor shall comply with current revisions of the wage standards; as required by law. The Contractor shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. The State of Illinois requires contractors and subcontractors on District projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Contractor is responsible for verifying current website.

In regard to nondiscrimination in employment, Contractor will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations as provided herein.

The Contractor shall comply with the American Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify the District and their representatives from all:

- (a) suits, claims, or actions;
- (b) costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement, and;
- (c) damages of any kind (including but not limited to actual, punitive, and compensatory damages)

relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the contract.

Contractor shall also comply with Public Act 99-0933, which requires any party to a contract to adopt and enforce a written policy regarding sexual harassment that includes, as a minimum, the following information:

- (a) the illegality of sexual harassment
- (b) the definition of sexual harassment under Illinois State law;
- (c) a description of sexual harassment, utilizing examples;

- (d) my (our) organization's internal complaint process including penalties;
- (e) through the Illinois Department of Human Rights and the Illinois Human Rights Commission;
- (f) directions on how to contact the Department and the Commission; and
- (g) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.

Upon request this information will be provided to the Illinois Department of Human Rights. Upon District award of a contract, the District will be provided this information described no more than ten working days after the District issues its award notification.

The Contractor shall comply with Article 2 of Public Act 83-1472 which provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and further, that Illinois workers are available and capable of performing the particular type work involved.

The Contractor shall comply with all rules and regulations of OSHA during the execution of this Contract.

The Contractor shall comply with the Federal Drug Free Workplace Act.

The Steel Products Procurement Act, Illinois Public Act 83-1030, requires that steel products used or supplied in performance of this Contract or subcontract shall be manufactured or produced in the United States with three exceptions, as explained in the Instructions to Bidders.

The Contractor shall comply with Public Act 96-1416 regarding the disposal of CCDD and uncontaminated soil at CCDD fill sites as explained in the Instructions to Bidders.

## **10. Time**

Work under this Agreement shall be commenced upon written Notice to Proceed. All cleaning, televising, lining, and testing shall be completed by April 30, 2021. Following review of video inspections, the District will issue a final punch list. Contractor shall complete all corrective work within thirty (30) days of issuance of final punch list.

## **11. Liquidated Damages**

The amount of liquidated damages shall be \$300.00 per calendar day beyond each of the respective completion deadlines.

## **12. Counterparts**

This Agreement may be executed and recorded in counterparts, each of which shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument. The Parties hereby acknowledge and agree that facsimile signatures or signatures transmitted by electronic mail in so-called "pdf" format shall be legal and binding and shall have the same full force and effect as if an original of this Agreement had been delivered. Each of the parties (a) intend to be bound by the signatures on any document sent by facsimile or electronic mail, (b) are aware that the other party will rely on such signatures, and (c) hereby waive any defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature.

### 13. Seals

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals, and such of them as are corporations have caused these presents to be signed by their duly authorized officers.

**Rock River Water Reclamation District  
Winnebago County, Illinois**

(Seal)

By \_\_\_\_\_  
President, Board of Trustees

ATTEST: \_\_\_\_\_  
Clerk of the Board

**Contractor**

(Corporate Seal)

By \_\_\_\_\_  
Contractor's Officer

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

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

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

ATTEST: \_\_\_\_\_

## Labor & Material Payment Bond

TO: \_\_\_\_\_ Contractor Name

\_\_\_\_\_ Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That \_\_\_\_\_ (Contractor)

as Principal, and \_\_\_\_\_

a corporation of the State of \_\_\_\_\_ as Surety, are held and firmly bound unto the Rock River Water Reclamation District, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_), for the payment where of Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated \_\_\_\_\_ 20\_\_ Entered into a Contract with Obligee for \_\_\_\_\_ in accordance with contract documents prepared by the Rock River Water Reclamation District 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 Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 280 ILCS 130 / 1-12 et.seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. A claimant is deemed as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.
2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, material man or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place



of business within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between Obligee and the Contractor shall have been made prior to the expiration of the 120-day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.
4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.
5. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.
6. The Principal and Surety shall be liable for any attorneys' fees, engineering costs, or court costs incurred by the Obligee relative to claims made against this Bond.

Signed and Sealed this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

**CONTRACTOR**

*Contractor Firm Name*

**SURETY**

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

By: \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
Title

Resident Agent

ATTEST:

\_\_\_\_\_  
Corporate Secretary (Corporations only)

## Performance Bond

**KNOW ALL MEN BY THESE PRESENTS**, that WHEREAS, the Rock River Water Reclamation District has awarded to: \_\_\_\_\_ hereinafter designated as the “Principal”, a contract, dated, \_\_\_\_\_, for the Rock River Water Reclamation District.

**WHEREAS**, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract (the “Bond”);

**NOW, THEREFORE**, we the Principal and \_\_\_\_\_, as Surety, are firmly bound unto the Rock River Water Reclamation District in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ ) lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents for a performance bond. The conditions of this obligation is such that if the said Principal does well and faithfully performs all the conditions and covenants of said Contract, according to the true intent and meaning thereof, upon its part to be kept and performed, then the above obligation is to be null and void, otherwise to remain in full force and effect.

**THE CONDITION OF THIS OBLIGATION IS SUCH**, that if the above bounden Principal, its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said Contract, including the provisions for liquidated damages in the said Contract, any changes, additions or alterations thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Rock River Water Reclamation District, its officers and agents, as therein stipulated, then this obligation shall become null and void, otherwise it shall be and remain in full force and effect. And the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same and no inadvertent overpayment of progress payments shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications or of any inadvertent overpayment of progress payments. The Rock River Water Reclamation District shall be named as beneficiary on this Performance Bond.

**IN WITNESS WHEREOF**, the above-bounden parties have executed this instrument under their seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

**CONTRACTOR**

Contractor Firm Name:

**SURETY**

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

By: \_\_\_\_\_ Signature  
Attorney-in-Fact

\_\_\_\_\_  
Title

\_\_\_\_\_  
Resident Agent

ATTEST:

\_\_\_\_\_  
Corporate Secretary (Corporations only)

### **Section III**

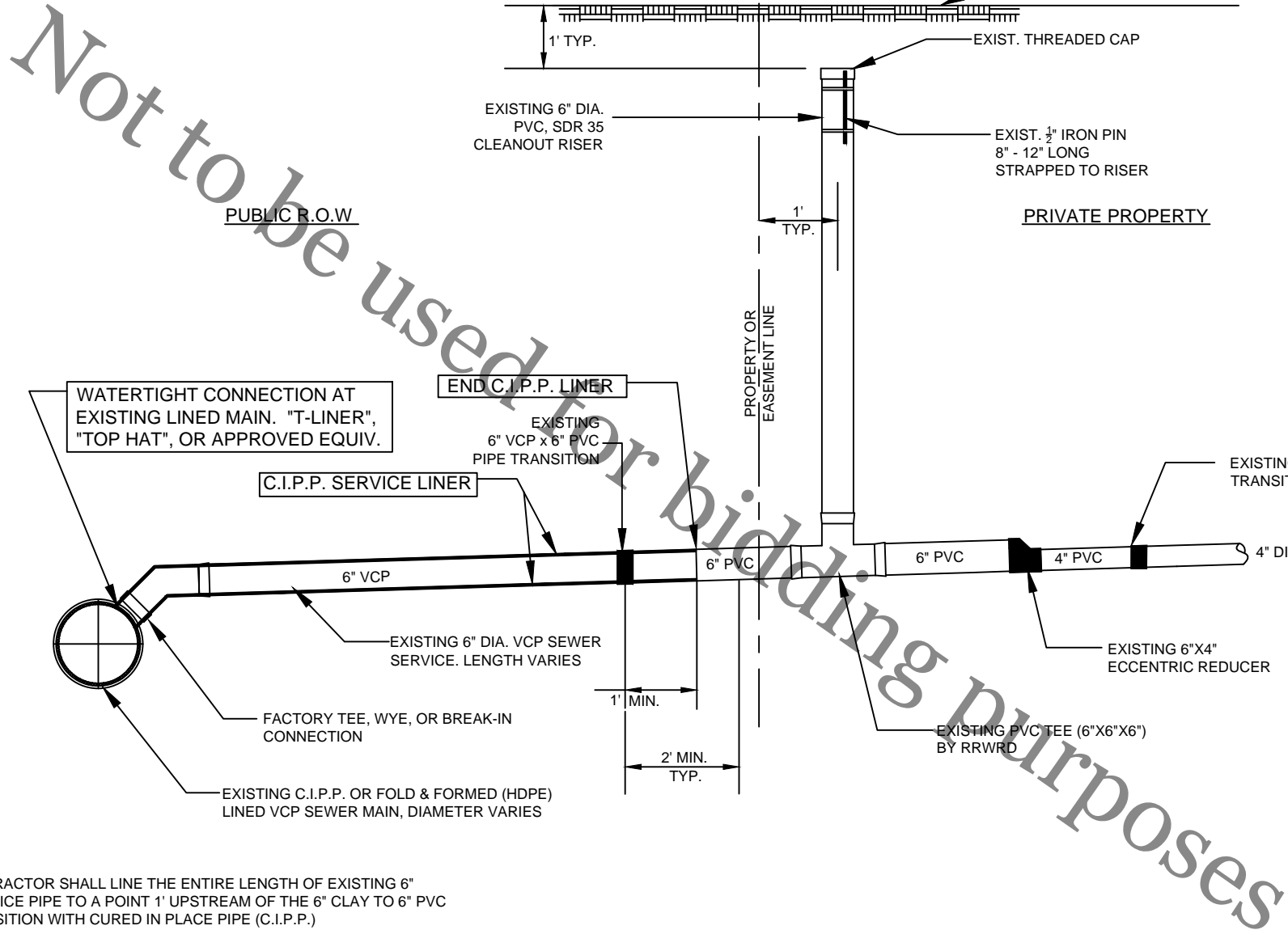
## **CIPP Lateral Reconstruction List, Detail and Location Maps**

### 2020-2021 Service Lateral Lining, Capital Project 2133 Service Lining List

ITEM	Address	PIN	UP_MH	DN_MH	ObjectID	Comments	Location	Depth	MainDia	MainType	Jurisdiction	Length	Map
1	2303 Shelley Dr	11-16-403-016	067050	067049	24693	6" C/O @ P.L.	75 SN	10	08"	LINCIP	City of Rockford	16	1
2	2307 Arthur Ave	11-16-402-009	067050	067049	24677	6" C/O @ P.L.	33 WE	9	08"	LINCIP	City of Rockford	44	1
3	2308 Arthur Ave	11-16-403-017	067050	067049	24676	6" C/O @ P.L.	40 WE	10.5	08"	LINCIP	City of Rockford	10	1
4	2311 Arthur Ave	11-16-402-008	067050	067049	24667	6" C/O @ P.L.	24 WE	10	08"	LINCIP	City of Rockford	44	1
5	2307 Shelley Dr	11-16-403-015	067053	067052	24741	6" C/O @ P.L.	40.5 WE	9	08"	LINCIP	City of Rockford	46	2
6	2311 Shelley Dr	11-16-403-014	067053	067052	24743	6" C/O @ P.L.	30.4 EW	10	08"	LINCIP	City of Rockford	30	2
7	2320 Shelley Dr	11-16-405-008	067053	067052	24769	6" C/O @ P.L.	38 WE	9	08"	LINCIP	City of Rockford	28	2
8	2403 Shelley Dr	11-16-403-012	067054	067053	24746	6" C/O @ P.L.	34.3 EW	9	08"	LINCIP	City of Rockford	30	2
9	2407 Shelley Dr	11-16-403-011	067054	067053	24747	6" C/O @ P.L.	28 EW	9	08"	LINCIP	City of Rockford	30	2
10	2408 Shelley Dr	11-16-405-005	067054	067053	24775	6" C/O @ P.L.	33 WE	9	08"	LINCIP	City of Rockford	30	2
11	2204 Arthur Ave	11-16-405-016	067048	067047	24767	6" C/O @ P.L.	28.5 WE	9.5	08"	LINCIP	City of Rockford	38	3
12	2203 Arthur Ave	11-16-404-015	067048	067047	24737	6" C/O @ P.L.	31.9 WE	9.5	08"	LINCIP	City of Rockford	23	3
13	2207 Arthur Ave	11-16-404-014	067048	067047	24734	6" C/O @ P.L.	32 EW	9.5	08"	LINCIP	City of Rockford	20	3
14	2208 Arthur Ave	11-16-405-015	067048	067047	24759	6" C/O @ P.L.	26.1 WE	9	08"	LINCIP	City of Rockford	38	3
15	2216 Arthur Ave	11-16-405-013	067049	067048	24733	6" C/O @ P.L.	31 EW	8	08"	LINCIP	City of Rockford	48	3
16	2120 Shelley Dr	11-16-404-004	067044	067043	24659	6" C/O @ P.L.	27 WE	9	08"	LINCIP	City of Rockford	30	4
17	2203 Shelley Dr	11-16-402-015	067044	067043	24633	6" C/O @ P.L.	40 EW	8	08"	LINCIP	City of Rockford	31	4
18	2212 Arthur Ave	11-16-404-002	067044	067043	24674	6" C/O @ P.L.	51 EW	9.5	08"	LINCIP	City of Rockford	58	4
19	2204 Shelley Dr	11-16-404-003	067044	067043	24662	6" C/O @ P.L.	95 WE	9.5	08"	LINCIP	City of Rockford	29	4
20	2211 Sherman Ave	11-16-405-043	055007	055006	24835	6" C/O @ P.L.	29 WE	10	08"	LINCIP	City of Rockford	33	5
21	2215 Sherman Ave	11-16-405-042	055007	055006	24836	6" C/O @ P.L.	29 WE	10	08"	LINCIP	City of Rockford	33	5
22	2219 Sherman Ave	11-16-405-041	055007	055006	24837	6" C/O @ P.L.	26 WE	10	08"	LINCIP	City of Rockford	33	5
23	2303 Sherman Ave	11-16-405-039	055008	055007	24839	6" C/O @ P.L.	28 WE	8.5	08"	LINCIP	City of Rockford	26	5
24	2307 Sherman Ave	11-16-405-038	055008	055007	24840	6" C/O @ P.L.	32 WE	8.5	08"	LINCIP	City of Rockford	26	5
25	2311 Sherman Ave	11-16-405-037	055008	055007	24841	6" C/O @ P.L.	30 WE	9	08"	LINCIP	City of Rockford	26	5
26	807 Miriam Ave	11-16-409-007	055052	055051	14746	6" C/O @ P.L.	22 NS	8.5	08"	LINCIP	City of Rockford	33	6
27	809 Miriam Ave	11-16-409-006	055052	055051	14733	6" C/O @ P.L.	20.5 NS	9	08"	LINCIP	City of Rockford	33	6
28	812 Miriam Ave	11-16-408-013	055052	055051	14732	6" C/O @ P.L.	26.8 NS	9.5	08"	LINCIP	City of Rockford	33	6
29	813 Miriam Ave	11-16-409-005	055052	055051	14720	6" C/O @ P.L.	21.8 NS	8.5	08"	LINCIP	City of Rockford	33	6
30	816 Miriam Ave	11-16-408-012	055052	055051	14718	6" C/O @ P.L.	22.5 SN	8.5	08"	LINCIP	City of Rockford	33	6
31	824 Miriam Ave	11-16-408-011	055052	055051	24886	6" C/O @ P.L.	35 SN	9	08"	LINCIP	City of Rockford	33	6
32	606 Alliance Ave	11-16-456-012	055066	055065	24241	6" C/O @ P.L.	18.5 SN	7	08"	LINCIP	City of Rockford	33	7
33	618 Alliance Ave	11-16-456-011	055066	055065	25119	6" C/O @ P.L.	27 SN	8	08"	LINCIP	City of Rockford	34	7
34	2016 Fairview Ave	11-16-480-001	055046	055045	25053	6" C/O @ P.L.	26.8 NS	8.5	08"	LINCIP	City of Rockford	33	8
35	2106 Fairview Ave	11-16-458-007	055046	055045	25055	6" C/O @ P.L.	25.5 SN	8	08"	LINCIP	City of Rockford	33	8
36	2115 Blaisdell St	11-16-458-012	055047	055046	24427	6" C/O @ P.L.	31 SN	9	08"	LINCIP	City of Rockford	33	8
37	601 Royal Ave	11-16-480-006	055047	055046	24425	6" C/O @ P.L.	24.5 SN	9	08"	LINCIP	City of Rockford	33	8
38	1915 Sherman Ave	11-16-405-058	055004	055001	24818	6" C/O @ P.L.	29.5 WE	9	08"	LINCIP	City of Rockford	33	9
39	2007 Sherman Ave	11-16-405-055	055005	055004	24821	6" C/O @ P.L.	31 EW	9	08"	LINCIP	City of Rockford	33	9
40	2019 Sherman Ave	11-16-405-052	055005	055004	24826	6" C/O @ P.L.	29.5 WE	11	08"	LINCIP	City of Rockford	33	9
41	903 N. Sunset Ave	11-16-430-007	055002	055001	24810	6" C/O @ P.L.	26 SN	7	08"	LINCIP	City of Rockford	34	10
42	904 N. Sunset Ave	11-16-405-067	055002	055001	24812	6" C/O @ P.L.	30 SN	8	08"	LINCIP	City of Rockford	32	10
43	907 N. Sunset Ave	11-16-430-006	055002	055001	24800	6" C/O @ P.L.	31 SN	9	08"	LINCIP	City of Rockford	35	10
44	908 N. Sunset Ave	11-16-405-066	055002	055001	24802	6" C/O @ P.L.	28 SN	7	08"	LINCIP	City of Rockford	32	10
45	912 N. Sunset Ave	11-16-405-065	055002	055001	24790	6" C/O @ P.L.	30 SN	7	08"	LINCIP	City of Rockford	32	10
46	2004 Shelley Dr	11-16-404-024	067045	067039	378937	6" C/O @ P.L.	110 EW	13.5	08"	LINCIP	City of Rockford	30	11
47	1916 Arthur Ave	11-16-405-030	067045	067039	24711	6" C/O @ P.L.	30 NS	8.5	08"	LINCIP	City of Rockford	13	11
48	2004 Arthur Ave	11-16-405-026	067046	067045	24730	6" C/O @ P.L.	45 WE	8.5	08"	LINCIP	City of Rockford	23	11
49	2007 Arthur Ave	11-16-404-023	067046	067045	24721	6" C/O @ P.L.	49 WE	8.5	08"	LINCIP	City of Rockford	53	11
50	2008 Arthur Ave	11-16-405-025	067046	067045	24742	6" C/O @ P.L.	28 EW	9	08"	LINCIP	City of Rockford	22	11
51	2012 Arthur Ave	11-16-405-024	067046	067045	24750	6" C/O @ P.L.	23 WE	9.5	08"	LINCIP	City of Rockford	32	11
52	2017 Arthur Ave	11-16-404-021	067046	067045	24731	6" C/O @ P.L.	42.5 EW	9	08"	LINCIP	City of Rockford	28	11
53	1008 N. Sunset Ave	11-16-427-015	067038	067037	24623	6" C/O @ P.L.	25 SN	5	08"	LINCIP	City of Rockford	33	12
54	1011 N. Sunset Ave	11-16-428-008	067038	067037	24634	6" C/O @ P.L.	29.5 SN	8	08"	LINCIP	City of Rockford	33	12
55	1015 N. Sunset Ave	11-16-428-007	067038	067037	24621	6" C/O @ P.L.	23 SN	8	08"	LINCIP	City of Rockford	33	12
56	1908 Arthur Ave	11-16-405-031	067039	067038	24686	6" C/O @ P.L.	34 WE	8	08"	LINCIP	City of Rockford	31	12
57	1911 Arthur Ave	11-16-427-007	067039	067038	24680	6" C/O @ P.L.	37 WE	9	08"	LINCIP	City of Rockford	31	12
58	1011 N. Independence Ave	11-16-429-009	067028	067027	24678	6" C/O @ P.L.	19 NS	7.5	08"	LINCIP	City of Rockford	33	13
59	1016 N. Independence Ave	11-16-428-017	067028	067027	24630	6" C/O @ P.L.	28 SN	7	08"	LINCIP	City of Rockford	33	13
60	1019 N. Independence Ave	11-16-429-007	067028	067027	24624	6" C/O @ P.L.	33 SN	7.5	08"	LINCIP	City of Rockford	33	13
61	1020 N. Independence Ave	11-16-428-016	067028	067027	24619	6" C/O @ P.L.	25.5 NS	7.5	08"	LINCIP	City of Rockford	33	13
62	1024 N. Independence Ave	11-16-428-015	067028	067027	24614	6" C/O @ P.L.	31.8 SN	7.5	08"	LINCIP	City of Rockford	33	13
63	1120 N. Independence Ave	11-16-428-010	067027	067026	23680	6" C/O @ P.L.	33 SN	7.5	08"	LINCIP	City of Rockford	33	14
64	1024 Irving Ave	11-15-302-018	067005	067004	23459	6" C/O @ P.L.	24 SN	9	08"	LINCIP	City of Rockford	33	15
65	1103 Irving Ave	11-15-303-010	067005	067004	23418	6" C/O @ P.L.	22 SN	8	08"	LINCIP	City of Rockford	33	15
66	1104 Irving Ave	11-15-302-017	067005	067004	23422	6" C/O @ P.L.	24 SN	8.5	08"	LINCIP	City of Rockford	33	15
67	1108 Irving Ave	11-15-302-016	067005	067004	23370	6" C/O @ P.L.	20 SN	9	08"	LINCIP	City of Rockford	33	15
68	4617 Augustana Dr	12-17-452-002	116027	116026	18386	6" C/O @ P.L.	43WE	9	08"	LINCIP	City of Rockford	28	16

ITEM	Address	PIN	UP_MH	DN_MH	ObjectID	Comments	Location	Depth	MainDia	MainType	Jurisdiction	Length	Map
69	4703 Augustana Dr	12-17-452-003	116027	116026	18385	6" C/O @ P.L.	41EW	8	08"	LINCIP	City of Rockford	28	16
70	4713 Highcrest Rd	12-17-453-009	075113	075112	18477	6" C/O @ P.L.	36.5 EW	7.5	08"	LINCIP	Rockford Township	31	17
71	4714 Highcrest Rd	12-17-452-019	075113	075112	18453	6" C/O @ P.L.	44EW	8.5	08"	LINCIP	Rockford Township	29	17
72	4718 Highcrest Rd	12-17-452-020	075114	075113	18451	6" C/O @ P.L.	35.5EW	10	08"	LINCIP	Rockford Township	30	17
73	4722 Highcrest Rd	12-17-452-021	075114	075113	18449	6" C/O @ P.L.	23EW	8	08"	LINCIP	Rockford Township	30	17
74	4804 Highcrest Rd	12-17-452-022	075114	075113	18446	6" C/O @ P.L.	34.5EW	7	08"	LINCIP	Rockford Township	30	17
75	4808 Highcrest Rd	12-17-452-023	075114	075113	18444	6" C/O @ P.L.	25EW	6	08"	LINCIP	Rockford Township	30	17
76	4717 Highcrest Rd	12-17-453-010	075114	075113	18475	6" C/O @ P.L.	35.5EW	8	08"	LINCIP	Rockford Township	30	17
77	4721 Highcrest Rd	12-17-453-011	075114	075113	18474	6" C/O @ P.L.	42.5EW	6	08"	LINCIP	Rockford Township	30	17
78	4803 Highcrest Rd	12-17-453-012	075114	075113	18473	6" C/O @ P.L.	32EW	8	08"	LINCIP	Rockford Township	30	17
79	4807 Highcrest Rd	12-17-453-013	075114	075113	18471	6" C/O @ P.L.	42EW	6	08"	LINCIP	Rockford Township	30	17
80	4708 Cayuga Rd	12-17-453-023	075109	075108	18230	6" C/O @ P.L.	31EW	10	08"	LINCIP	Rockford Township	32	18
81	4712 Cayuga Rd	12-17-453-024	075109	075108	18229	6" C/O @ P.L.	34.5EW	10	08"	LINCIP	Rockford Township	32	18
82	4720 Cayuga Rd	12-17-453-026	075110	075109	18226	6" C/O @ P.L.	31EW	8	08"	LINCIP	Rockford Township	33	18
83	4724 Cayuga Rd	12-17-453-027	075110	075109	18225	6" C/O @ P.L.	35.5EW	8	08"	LINCIP	Rockford Township	32	18
84	4707 Cayuga Rd	12-17-454-006	075109	075108	18251	6" C/O @ P.L.	32.5EW	10	08"	LINCIP	Rockford Township	28	18
85	4711 Cayuga Rd	12-17-454-007	075109	075108	18247	6" C/O @ P.L.	38EW	10	08"	LINCIP	Rockford Township	28	18
86	4719 Cayuga Rd	12-17-454-009	075110	075109	18245	6" C/O @ P.L.	34EW	8	08"	LINCIP	Rockford Township	27	18
87	4723 Cayuga Rd	12-17-454-010	075110	075109	18244	6" C/O @ P.L.	37EW	7	08"	LINCIP	Rockford Township	28	18
88	4801 Cayuga Rd	12-17-454-011	075110	075109	18243	6" C/O @ P.L.	32.5EW	6	08"	LINCIP	Rockford Township	28	18
89	1511 Apache Dr	12-17-453-036	116012	116011	18263	6" C/O @ P.L.	25NS	8	08"	LINCIP	Rockford Township	30	19
90	1507 Apache Dr	12-17-453-037	116012	116011	18277	6" C/O @ P.L.	32NS	8	08"	LINCIP	Rockford Township	30	19
91	1508 Apache Dr	12-17-454-042	116012	116011	18281	6" C/O @ P.L.	44NS	9	08"	LINCIP	Rockford Township	29	19
92	4826 Cayuga Rd	12-17-453-034	116013	116012	18232	6" C/O @ P.L.	32WE	9	08"	LINCIP	Rockford Township	38	19
93	4817 Cayuga Rd	12-17-454-015	116014	116013	18236	6" C/O @ P.L.	17WE	10	08"	LINCIP	Rockford Township	29	19
94	5007 Highcrest Rd	12-17-453-046	116021	116020	18505	6" C/O @ P.L.	34NS	9	08"	LINCIP	Rockford Township	20	20
95	5008 Highcrest Rd	12-17-476-002	116021	116020	18504	6" C/O @ P.L.	21.5NS	9	08"	LINCIP	Rockford Township	38	20
96	5012 Highcrest Rd	12-17-476-003	116021	116020	18509	6" C/O @ P.L.	30.5NS	9	08"	LINCIP	Rockford Township	36	20
97	5101 Highcrest Rd	12-17-453-049	116020	116019	18266	6" C/O @ P.L.	27NS	9	08"	LINCIP	Rockford Township	27	21
98	5105 Highcrest Rd	12-17-453-050	116020	116019	18280	6" C/O @ P.L.	43.5NS	10	08"	LINCIP	Rockford Township	28	21
99	5109 Highcrest Rd	12-17-453-051	116020	116019	18308	6" C/O @ P.L.	35NS	9.5	08"	LINCIP	Rockford Township	29	21
100	5102 Highcrest Rd	12-17-476-006	116020	116019	18265	6" C/O @ P.L.	25NS	10.2	08"	LINCIP	Rockford Township	30	21
101	5106 Highcrest Rd	12-17-476-007	116020	116019	18279	6" C/O @ P.L.	47NS	9.7	08"	LINCIP	Rockford Township	29	21
102	5110 Highcrest Rd	12-17-476-028	116020	116019	18307	6" C/O @ P.L.	57.65NS	10.1	08"	LINCIP	Rockford Township	28	21
103	5122 Highcrest Rd	12-17-476-011	116019	116001	18750	6" C/O @ P.L.	11.5 NS	12	08"	LINCIP	Rockford Township	33	22
104	5113 Highcrest Rd	12-17-453-052	116019	116001	18689	6" C/O @ P.L.	15.2NS	11.2	08"	LINCIP	Rockford Township	23	22
105	5117 Highcrest Rd	12-17-453-053	116019	116001	18719	6" C/O @ P.L.	13.2NS	6	08"	LINCIP	Rockford Township	20	22
106	5121 Highcrest Rd	12-17-453-054	116019	116001	18751	6" C/O @ P.L.	8.6NS	6	08"	LINCIP	Rockford Township	25	22
107	5125 Highcrest Rd	12-17-453-055	116019	116001	18768	6" C/O @ P.L.	60SN	10.7	08"	LINCIP	Rockford Township	25	22
108	5118 Highcrest Rd	12-17-476-010	116019	116001	18718	6" C/O @ P.L.	33NS	10.9	08"	LINCIP	Rockford Township	36	22
109	5126 Highcrest Rd	12-17-476-012	116019	116001	18766	6" C/O @ P.L.	34.6NS	11.2	08"	LINCIP	Rockford Township	31	22
110	5114 Highcrest Rd	12-17-476-029	116019	116001	18684	6" C/O @ P.L.	22.8NS	10.4	08"	LINCIP	Rockford Township	36	22
111	1401 Apache Dr	12-17-453-043	116002	116001	18783	6" C/O @ P.L.	70.5WE	8.5	08"	LINCIP	Rockford Township	32	23
112	4901 Mohawk Rd	12-17-456-022	116002	116001	18802	6" C/O @ P.L.	28WE	8.9	08"	LINCIP	Rockford Township	36	23
113	4905 Mohawk Rd	12-17-456-023	116002	116001	18798	6" C/O @ P.L.	19WE	9.4	08"	LINCIP	Rockford Township	51	23
114	4909 Mohawk Rd	12-17-456-024	116002	116001	18797	6" C/O @ P.L.	41EW	7.8	08"	LINCIP	Rockford Township	27	23
115	4815 Mohawk Rd	12-17-456-017	116003	116002	18810	6" C/O @ P.L.	26WE	10.1	08"	LINCIP	Rockford Township	28	24
116	4817 Mohawk Rd	12-17-456-018	116003	116002	18809	6" C/O @ P.L.	41EW	9.1	08"	LINCIP	Rockford Township	29	24
117	4817.5 Mohawk Rd	12-17-456-019	116003	116002	18808	6" C/O @ P.L.	51EW	8.1	08"	LINCIP	Rockford Township	29	24
118	4714 Mohawk Rd	12-17-455-018	116008	116007	18800	6" C/O @ P.L.	25EW	9.8	08"	LINCIP	Rockford Township	32	25
119	4804 Mohawk Rd	12-17-455-022	116007	116006	18794	6" C/O @ P.L.	34.5WE	10.1	08"	LINCIP	Rockford Township	30	25
120	4802 Ottawa Rd	12-17-454-038	116011	116010	18681	6" C/O @ P.L.	21EW	9	08"	LINCIP	Rockford Township	30	26
121	4806 Ottawa Rd	12-17-454-039	116011	116010	18679	6" C/O @ P.L.	35WE	9.1	08"	LINCIP	Rockford Township	30	26
122	4810 Ottawa Rd	12-17-454-040	116011	116010	18678	6" C/O @ P.L.	38.5WE	9.6	08"	LINCIP	Rockford Township	29	26
123	4814 Ottawa Rd	12-17-454-041	116010	116009	18676	6" C/O @ P.L.	42EW	9.8	08"	LINCIP	Rockford Township	29	26
124	4801 Ottawa Rd	12-17-455-011	116011	116010	18698	6" C/O @ P.L.	34WE	9.2	08"	LINCIP	Rockford Township	29	26
125	4805 Ottawa Rd	12-17-455-012	116011	116010	18697	6" C/O @ P.L.	37WE	8.8	08"	LINCIP	Rockford Township	30	26
126	4809 Ottawa Rd	12-17-455-013	116011	116010	18695	6" C/O @ P.L.	32.5EW	9	08"	LINCIP	Rockford Township	30	26
127	1405 Apache Dr	12-17-453-042	116009	116002	18749	6" C/O @ P.L.	36NS	8	08"	LINCIP	Rockford Township	41	27
128	4702 Mohawk Rd	12-17-455-001	075105	075104	18777	6" C/O @ P.L.	30SN	9	08"	LINCIP	Rockford Township	23	28
129	4618 Ottawa Rd	12-17-454-025	075105	075104	18714	6" C/O @ P.L.	17.5NS	9.5	08"	LINCIP	Rockford Township	73	28
130	4614 Ottawa Rd	12-17-454-026	075105	075104	18725	6" C/O @ P.L.	34NS	9.5	08"	LINCIP	Rockford Township	34	28
131	4610 Ottawa Rd	12-17-454-027	075105	075104	18747	6" C/O @ P.L.	33NS	9.5	08"	LINCIP	Rockford Township	39	28
132	4606 Ottawa Rd	12-17-454-028	075105	075104	18765	6" C/O @ P.L.	34.5NS	9.5	08"	LINCIP	Rockford Township	37	28
133	4605 Ottawa Rd	12-17-455-002	075105	075104	18762	6" C/O @ P.L.	37NS	9.5	08"	LINCIP	Rockford Township	20	28
134	4608 Mohawk Rd	12-17-454-029	075104	075101	18811	6" C/O @ P.L.	53EW	10.1	08"	LINCIP	Rockford Township	30	29
135	4607 Mohawk Rd	12-17-456-002	075104	075101	18831	6" C/O @ P.L.	25.9EW	10.2	08"	LINCIP	Rockford Township	30	29
136	4611 Mohawk Rd	12-17-456-003	075104	075101	18829	6" C/O @ P.L.	30EW	10.3	08"	LINCIP	Rockford Township	30	29
137	4615 Mohawk Rd	12-17-456-004	075104	075101	18828	6" C/O @ P.L.	28EW	10	08"	LINCIP	Rockford Township	30	29
138	1411 Comanche Dr	12-17-454-019	075107	075100	18677	6" C/O @ P.L.	31.5SN	9.1	08"	LINCIP	Rockford Township	30	30
139	1404 Comanche Dr	12-17-451-017	075101	075100	18733	6" C/O @ P.L.	40SN	10.2	08"	LINCIP	Rockford Township	30	30

ITEM	Address	PIN	UP_MH	DN_MH	ObjectID	Comments	Location	Depth	MainDia	MainType	Jurisdiction	Length	Map
140	1318 Comanche Dr	12-17-451-018	075101	075100	18755	6" C/O @ P.L.	36SN	11.4	08"	LINCIP	Rockford Township	30	30
141	1314 Comanche Dr	12-17-451-019	075101	075100	18769	6" C/O @ P.L.	29.5SN	10.2	08"	LINCIP	Rockford Township	30	30
142	1310 Comanche Dr	12-17-451-020	075101	075100	18784	6" C/O @ P.L.	32SN	9.8	08"	LINCIP	Rockford Township	30	30
143	1403 Comanche Dr	12-17-454-021	075101	075100	18738	6" C/O @ P.L.	32SN	10.4	08"	LINCIP	Rockford Township	30	30
144	1315 Comanche Dr	12-17-454-022	075101	075100	18763	6" C/O @ P.L.	49SN	9.5	08"	LINCIP	Rockford Township	30	30
145	4604 Mohawk Rd	12-17-454-023	075101	075100	18780	6" C/O @ P.L.	36.5SN	11.1	08"	LINCIP	Rockford Township	30	30
146	1302 Comanche Dr	12-17-451-022	075102	075101	18843	6" C/O @ P.L.	38SN	10.3	08"	LINCIP	Rockford Township	30	31
147	1224 Comanche Dr	12-17-451-023	075102	075101	18871	6" C/O @ P.L.	29SN	10.3	08"	LINCIP	Rockford Township	30	31
148	1227 Comanche Dr	12-17-456-001	075102	075101	18844	6" C/O @ P.L.	66NS	10.4	08"	LINCIP	Rockford Township	30	31
149	1216 Comanche Dr	12-20-201-003	075102	075101	25989	6" C/O @ P.L.	34.5SN	9.1	08"	LINCIP	Rockford Township	30	31
150	1212 Comanche	12-20-201-004	075103	075102	26000	6" C/O @ P.L.	28.5SN	8.7	08"	LINCIP	Rockford Township	30	31
151	3804 Burrmont Rd	12-17-356-009	066039	066038	18834	6" C/O @ P.L.	34 NS	8.5	08"	LINCIP	City of Rockford	32	32
152	3345 Alta Vista Rd	12-18-277-002	135008	135007	18538	6" C/O @ P.L.	37.5 NS	7.5	08"	LINCIP	City of Rockford	39	33
153	2515 Landstrom Rd	12-07-354-008	083033	083033A	3187	6" C/O @ P.L.	123.5 WE (Fence)	8	08"	LINCIP	City of Rockford	31	34
154	1935 Oxford St	11-13-251-002	072016	072015	15437	6" C/O @ P.L.	21 SN	7	12"	LINCIP	City of Rockford	32	35
155	2204 Douglas St	11-12-381-013	072110	072109	11851	6" C/O @ P.L.	8 SN	8	08"	LINCIP	City of Rockford	31	36
156	2114 Fremont St	11-14-227-016	071049	071048	20057	6" C/O @ P.L.	24.5 NS	6.5	10"	LINCIP	City of Rockford	32	37
157	2208 Fremont St	11-11-483-012	071050	071049	10963	6" C/O @ P.L.	3.5 NS	6	10"	LINCIP	City of Rockford	33	37
158	2842 Cannon St	15-01-179-010	006028	006027	57883	6" C/O @ P.L.	7 SN	8	08"	LINCIP	City of Rockford	35	38
159	1215 14th St	11-25-451-014	026004B	026004D	41555	6" C/O @ P.L.	48 SN	7.5	10"	LINCIP	City of Rockford	27	39
160	325 Hollister Ave	12-30-103-023	039121	039108	39347	6" C/O @ P.L.	22.2 NS	9.5	08"	LINCIP	City of Rockford	24	40
161	3419 Corbridge Ln	12-19-254-012	052097	052089	26894	6" C/O @ P.L.	20.5 WE	9	10"	LINCIP	City of Rockford	40	41
162	519 Laurel Dr	12-20-304-003	133038	133037	26598	6" C/O @ P.L.	30.8 WE	10	08"	LINCIP	City of Rockford	30	42
163	428 Fairview Ave	12-30-278-012	029010	029009	37346	6" C/O @ P.L.	75 EW	8	08"	LINCIP	City of Rockford	25	43
164	712 29th St	12-30-404-003	029015	029014	31209	6" C/O @ P.L.	21 NS	9	08"	LINCIP	City of Rockford	27	44
165	1319 23rd St	12-30-357-012	028066	028065	395242	6" C/O @ P.L.	2' SN	7.5	08"	LINCIP	City of Rockford	32	45
166	804 Hawthorne Ave	12-30-428-005	029039	029038	31252	6" C/O @ P.L.	32 SN	9	08"	LINCIP	City of Rockford	33	46
167	1624 Colorado Ave	12-31-229-010	017093	017091	50390	6" C/O @ P.L.	48.7 NS	10	08"	LINCIP	City of Rockford	30	47
168	1621 Log Cabin Ave	12-32-105-040	020036	020034	48173	6" C/O @ P.L.	41 SN	8	08"	LINCIP	City of Rockford	30	48
169	4618 Pembroke	12-32-253-012	106105	106104	48454	6" C/O @ P.L.	23 WE	8.5	08"	LINCIP	City of Rockford	32	49
170	4912 Upland Dr	12-32-476-019	163001	105043	50004	6" C/O @ P.L.	34 NS	11	08"	LINCIP	City of Rockford	40	50
171	1520 Price St	11-14-190-008	070028	070027	17128	6" C/O @ P.L.	0 SN	6.5	15"	LINCIP	City of Rockford	33	51
172	1411 Post Ave	11-14-434-003	062021	062020	21525	6" C/O @ P.L.	6.5 EW	9.5	09"	LINCIP	City of Rockford	33	52
173	534 Lawn Dr	12-07-102-032	092051	092050	10259	6" C/O @ P.L.	9 EW	7	10"	LINCIP	Loves Park	16	53
174	530 Pearl Ave	12-07-104-028	092016	092015	10721	6" C/O @ P.L.	12 EW	5.5	15"	LINCIP	Loves Park	6	54
175	1208 Toft St	12-06-480-003	094013	094012	8652	6" C/O @ P.L.	24 EW	9	08"	LINCIP	City of Rockford	33	55
176	714 Sheridan Dr	12-06-328-021	096069A	096069	240295	6" C/O @ P.L.	31 EW	8.5	08"	LINCIP	Loves Park	32	56
177	240 W. Renrose Ave	11-01-253-030	095083	095082	6902	6" C/O @ P.L.	39 EW	9	08"	LINCIP	Loves Park	30	57
178	612 Theodore St	12-06-102-018	122007	122005	5292	6" C/O @ P.L.	37.8 EW	8	08"	LINCIP	Loves Park	30	58
179	224 Sheridan Dr	11-01-406-021	095017	095016	6810	6" C/O @ P.L.	21.5 EW	8.5	08"	LINCIP	Loves Park	11	59
180	7307 Mildred Rd	08-31-431-006	099042	099041	61414	6" C/O @ P.L.	30 NS	5.3	10"	LINCIP	Machesney Park	43	60
181	2202 Evans Ave L P	08-32-253-036	100066	100065	56655	6" C/O @ P.L.	25 WE	9	08"	LINCIP	Loves Park	35	61
182	7807 Orion St L P	08-32-126-012	099094	099093	60634	6" C/O @ P.L.	22 NS	8.5	08"	LINCIP	Loves Park	29	62
183	243 E. Wilson Ave	07-25-477-015	124064	124063	59899	6" C/O @ P.L.	55.8 EW	8.5	08"	LINCIP	Machesney Park	28	63
184	1915 Knowlton St	11-28-401-017	031104	031103	42441	6" C/O @ P.L.	45 WE	8	08"	LINCIP	City of Rockford	30	64
185	1916 Knowlton St	11-28-403-008	031104	031103	42454	6" C/O @ P.L.	22 EW	8.5	08"	LINCIP	City of Rockford	30	64
186	1312 S. Johnston Ave	11-28-401-010	031102	031098	42435	6" C/O @ P.L.	47 NS	9	08"	LINCIP	City of Rockford	17	65
187	1811 Genoa St	11-28-252-041	031081	031080	47050	6" C/O @ P.L.	29 EW	8	08"	LINCIP	City of Rockford	30	66
188	1812 Genoa St	11-28-253-014	031081	031080	47075	6" C/O @ P.L.	22 EW	10	08"	LINCIP	City of Rockford	30	66
189	1819 Genoa St	11-28-252-039	031081	031080	47053	6" C/O @ P.L.	23.5 EW	8	08"	LINCIP	City of Rockford	30	66
190	1823 Genoa St	11-28-252-038	031081	031080	47055	6" C/O @ P.L.	23 EW	7	08"	LINCIP	City of Rockford	30	66
191	1828 Genoa St	11-28-253-010	031081	031080	47082	6" C/O @ P.L.	22.5 EW	8	08"	LINCIP	City of Rockford	30	66
192	4401 Kennett Ave	11-17-352-027	126092	126091	25175	6" C/O @ P.L.	38 WE	8	08"	LINCIP	Rockford Township	33	67
193	4404 Kennett Ave	11-17-353-009	126092	126091	14770	6" C/O @ P.L.	23 WE	6.5	08"	LINCIP	Rockford Township	29	67
194	3215 Hanover Dr	11-10-230-012	086023	086022	12846	6" C/O @ P.L.	22.5 SN	8.5	08"	LINCIP	City of Rockford	37	68
195	3115 Chateau Ln	11-11-102-008	079069	079068	12104	6" C/O @ P.L.	23 SN	7	08"	LINCIP	City of Rockford	28	69
196	3523 Avondale Dr	11-02-379-009	088061	088060	7883	6" C/O @ P.L.	27 NS	8	08"	LINCIP	City of Rockford	31	70
197	1826 Hollyhock Dr.	12-17-430-024	116042	116041	18018	6" C/O @ P.L.	30NS	10	08"	LINCIP	Rockford Township	18	71
198	401 E. State St Cherry Valley	16-01-178-001	157038	157037	68262	6" C/O @ P.L.	105 SN	5.6	08"	LINCIP	Cherry Valley	23	72



THE CONTRACTOR SHALL LINE THE ENTIRE LENGTH OF EXISTING 6" CLAY SERVICE PIPE TO A POINT 1' UPSTREAM OF THE 6" CLAY TO 6" PVC PIPE TRANSITION WITH CURED IN PLACE PIPE (C.I.P.P.) PER ASTM F-1216, ASTM F-1743 OR ASTM F-2561.

# CURED IN PLACE SEWER SERVICE LINING DETAIL

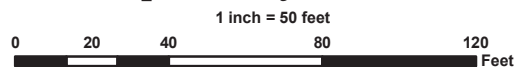
NOT TO SCALE





## Service Lateral Lining 2020-2021

Capital Project #2133

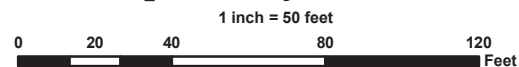






## Service Lateral Lining 2020-2021

### Capital Project #2133



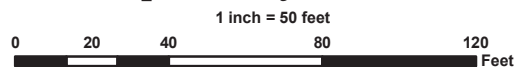
By: J. Kink  
 Produced: 8/17/2020  
 RRWRD Engineering Department





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Capital Project #2133

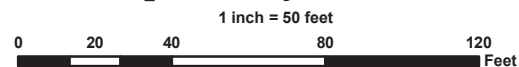




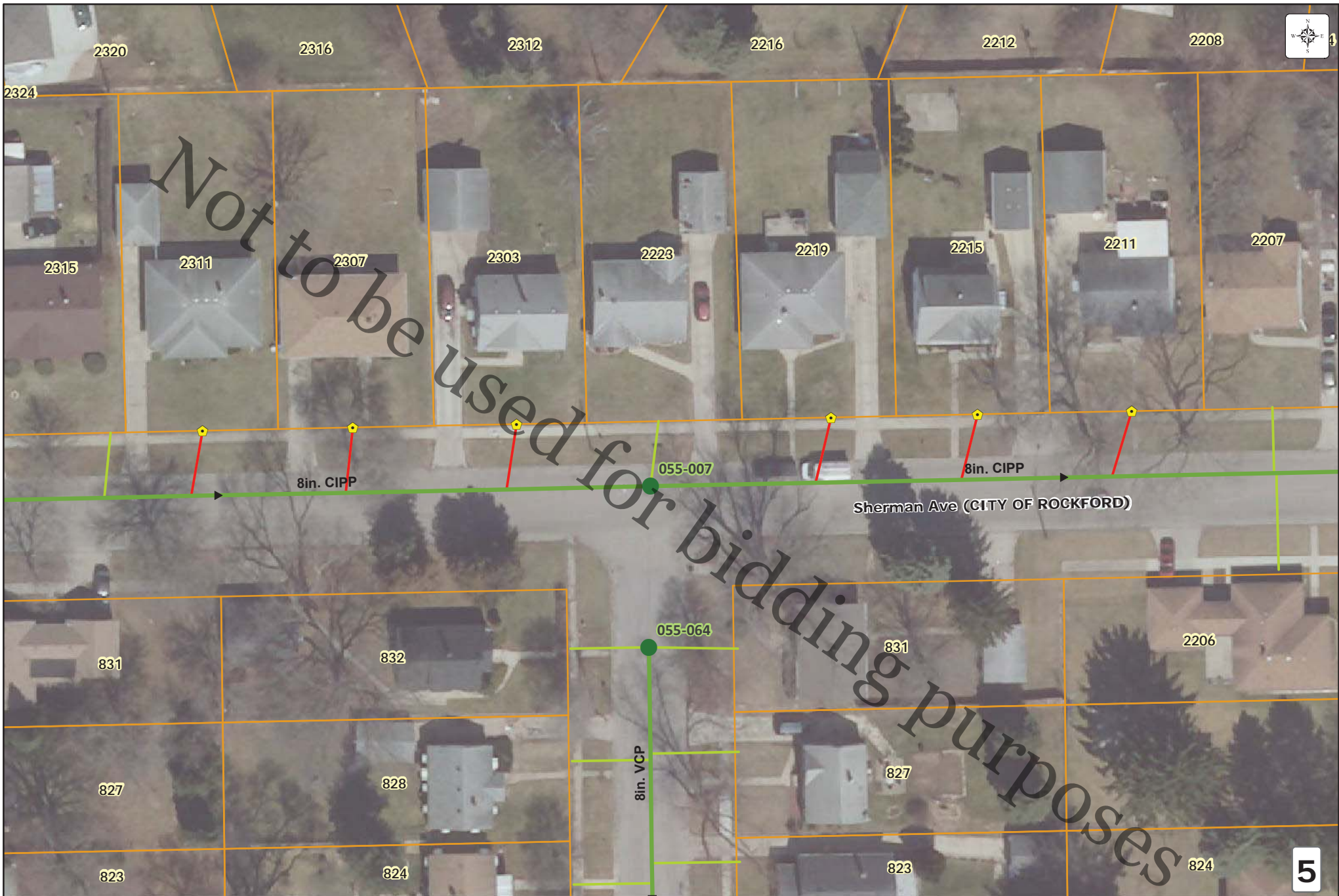


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### Capital Project #2133

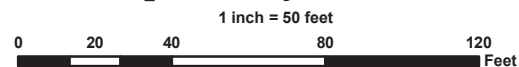






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### Capital Project #2133

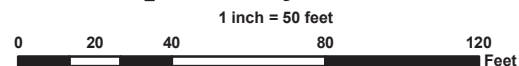






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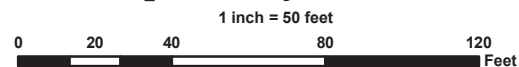






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### Capital Project #2133

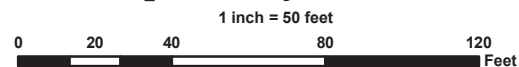






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### Capital Project #2133

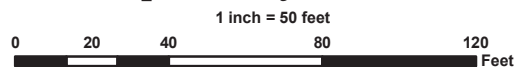






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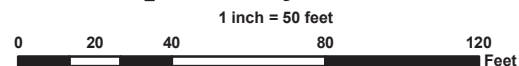
### Capital Project #2133







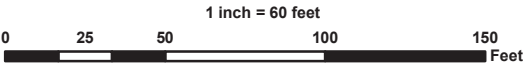
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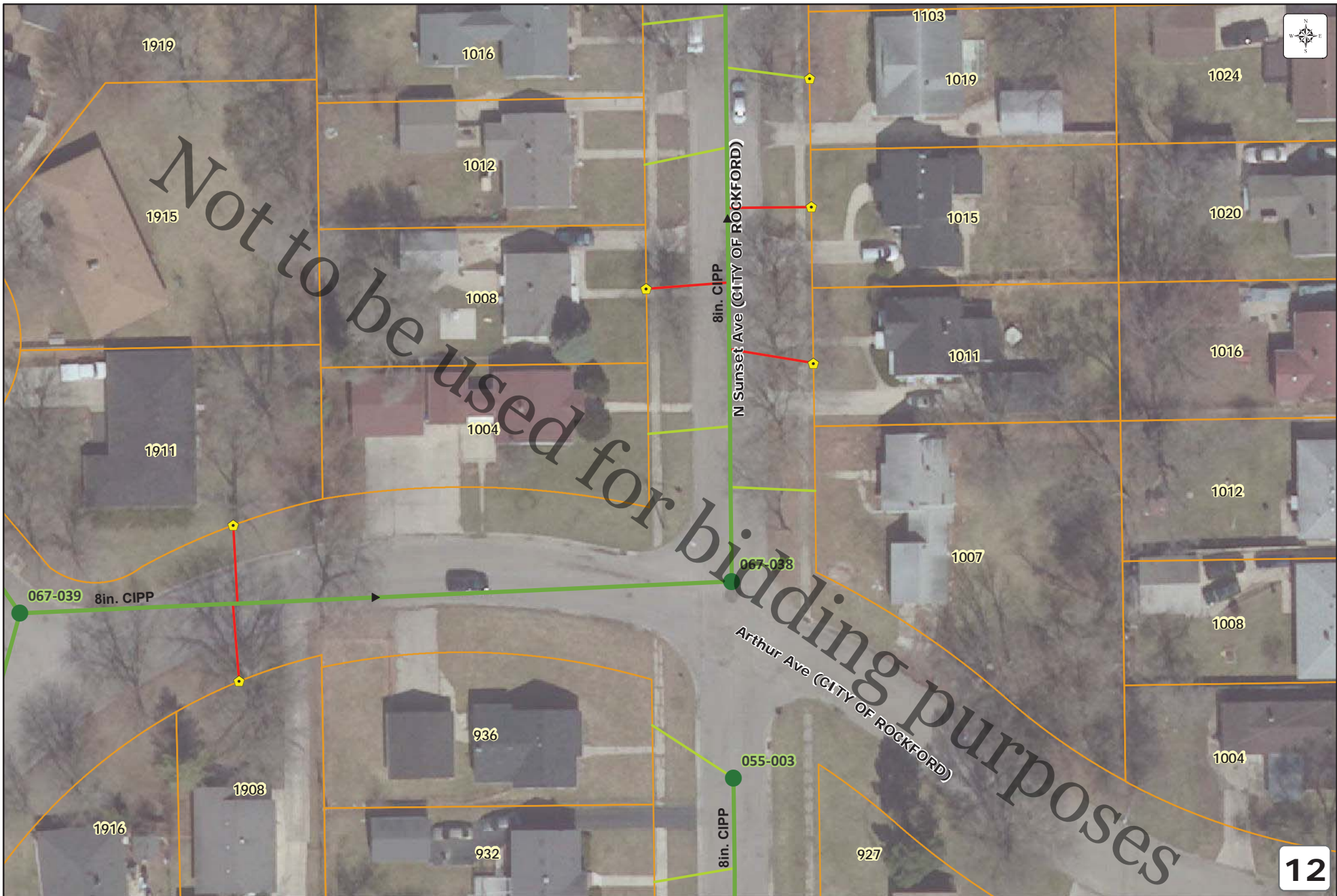




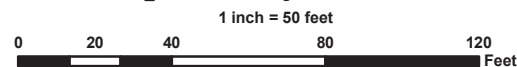
**Service Lateral Lining 2020-2021**  
Capital Project #2133







# Service Lateral Lining 2020-2021 Capital Project #2133

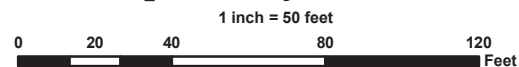




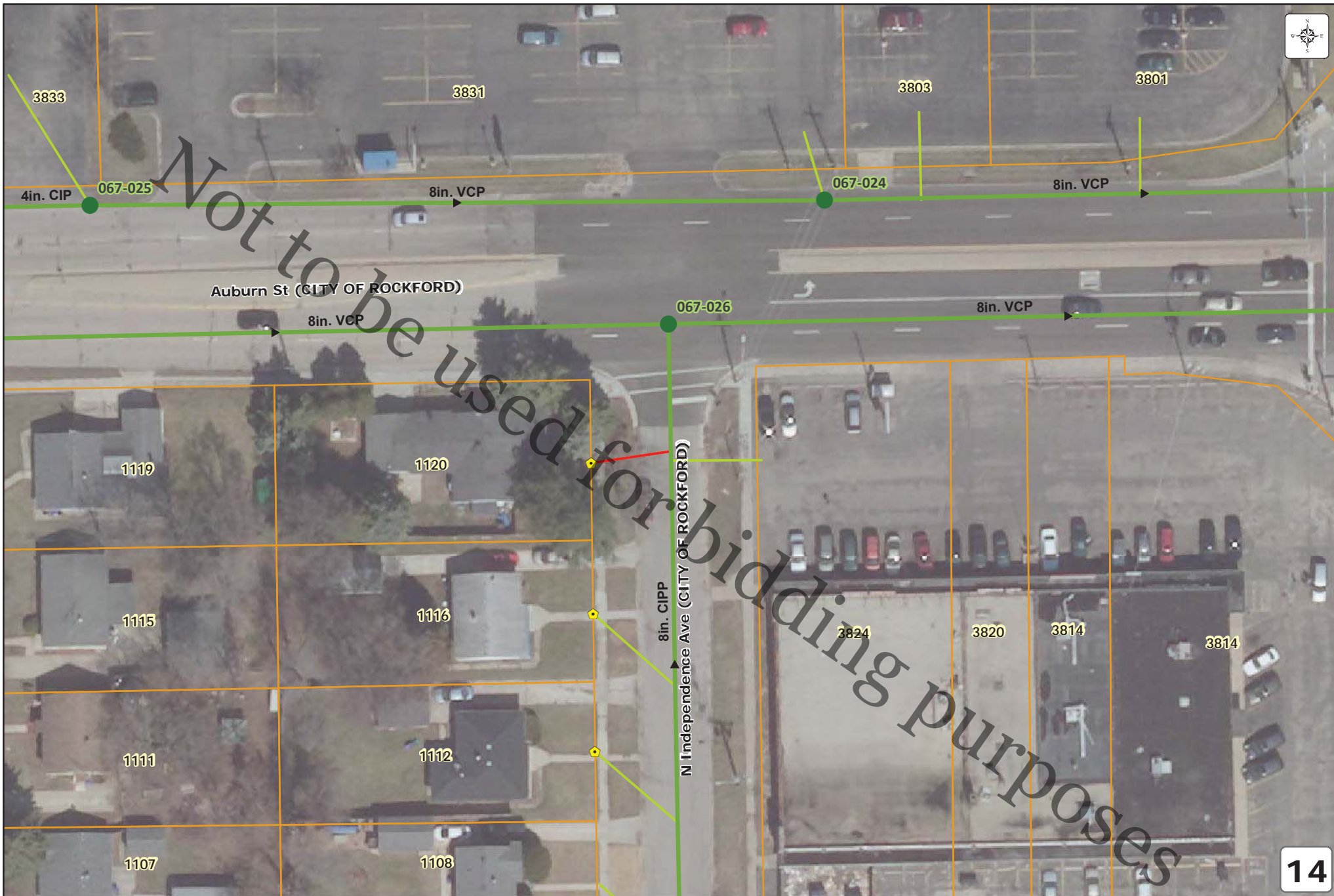


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### Capital Project #2133

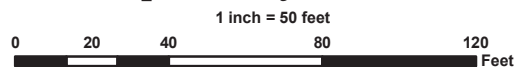






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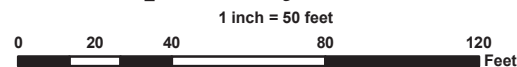
### Capital Project #2133







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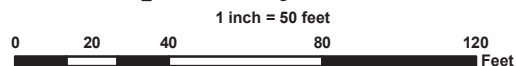




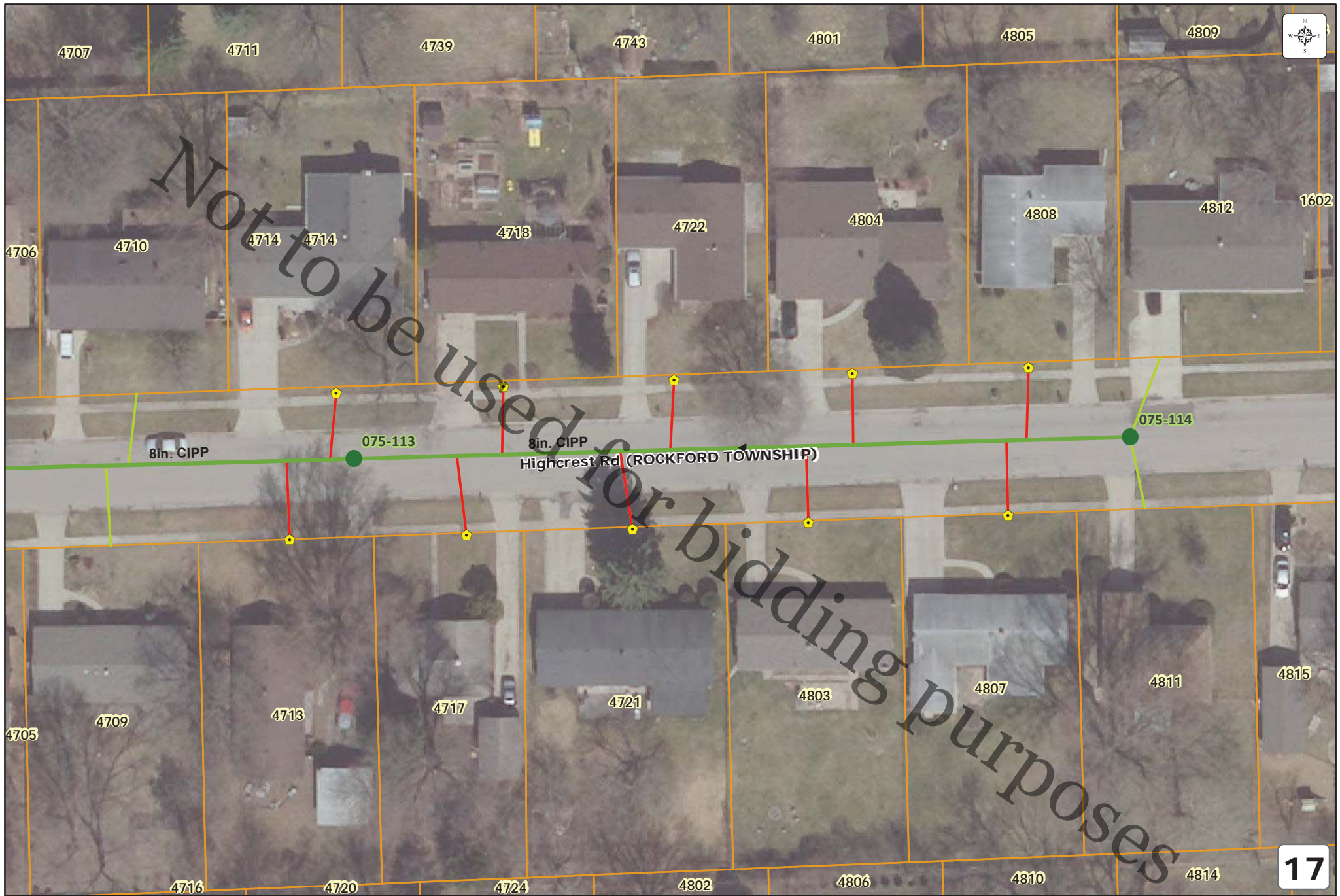


## Service Lateral Lining 2020-2021

### Capital Project #2133

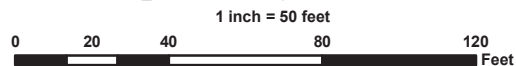






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Capital Project #2133

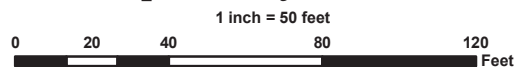






## Service Lateral Lining 2020-2021

### Capital Project #2133





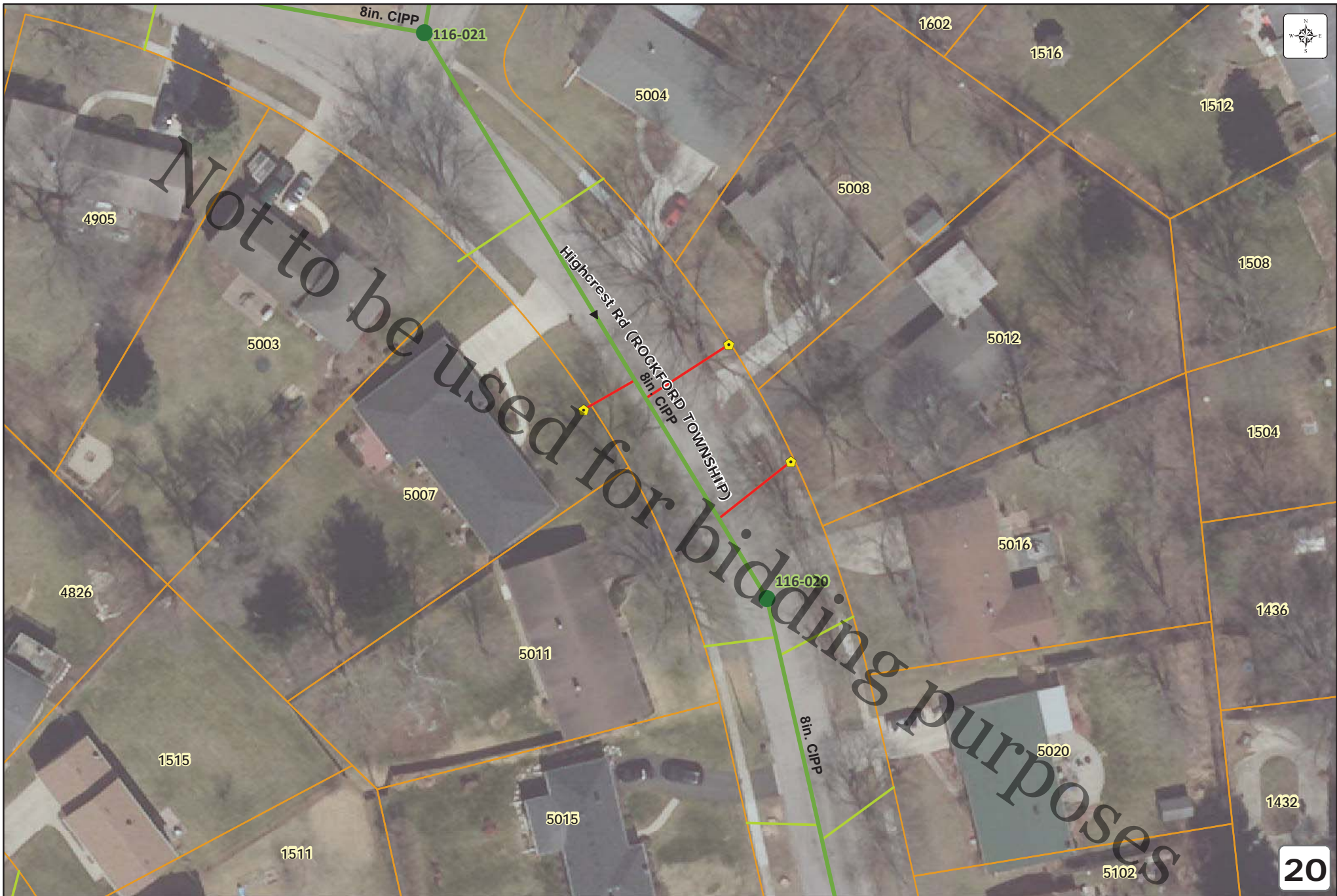


## Service Lateral Lining 2020-2021 Capital Project #2133

1 inch = 50 feet  
0 20 40 80 120  
Feet

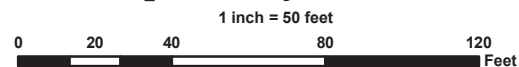
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

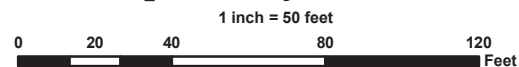
### Capital Project #2133







# Service Lateral Lining 2020-2021 Capital Project #2133

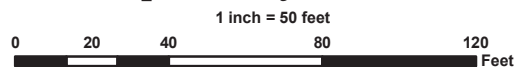






## Service Lateral Lining 2020-2021

### Capital Project #2133

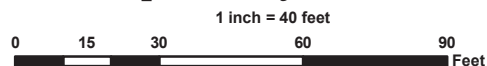






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### Capital Project #2133

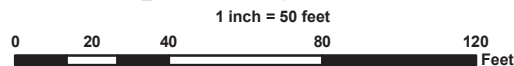






## Service Lateral Lining 2020-2021

Capital Project #2133

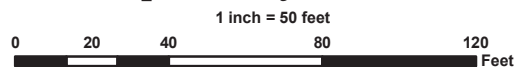






## Service Lateral Lining 2020-2021

### Capital Project #2133

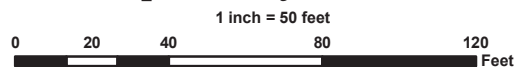






## Service Lateral Lining 2020-2021

Capital Project #2133







## Service Lateral Lining 2020-2021

Capital Project #2133

1 inch = 40 feet  
0 15 30 60 90 Feet

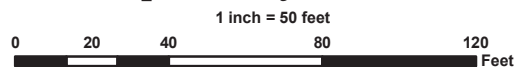
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## Service Lateral Lining 2020-2021

### Capital Project #2133

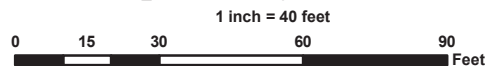






## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

### Capital Project #2133

1 inch = 60 feet

0 25 50 100 150 Feet

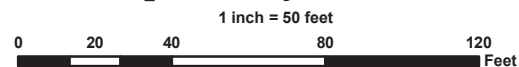
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

### Capital Project #2133

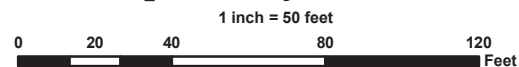




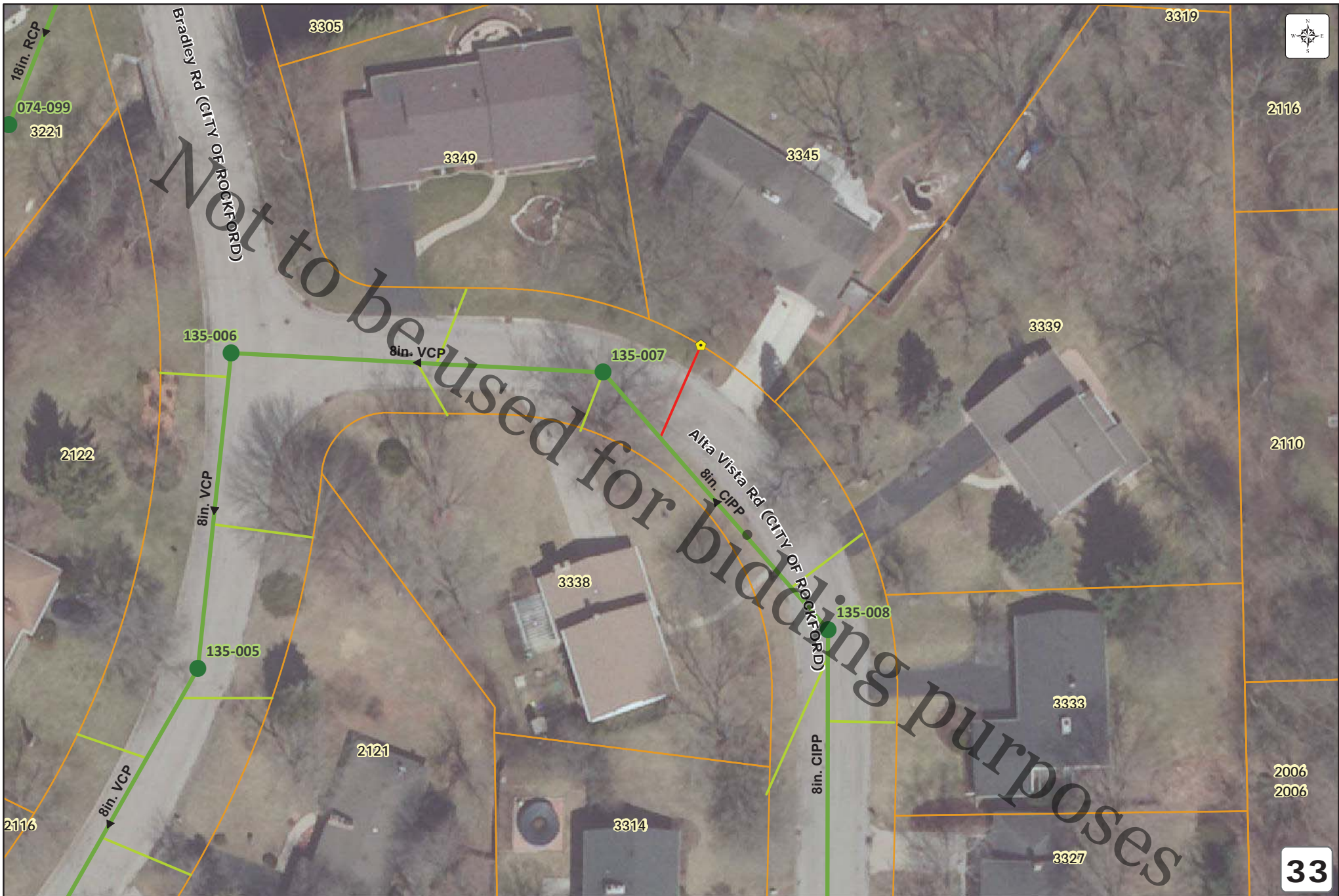


## Service Lateral Lining 2020-2021

### Capital Project #2133

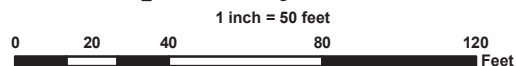






## Service Lateral Lining 2020-2021

### Capital Project #2133

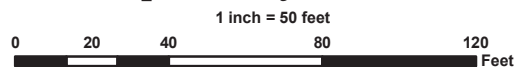






## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

Capital Project #2133





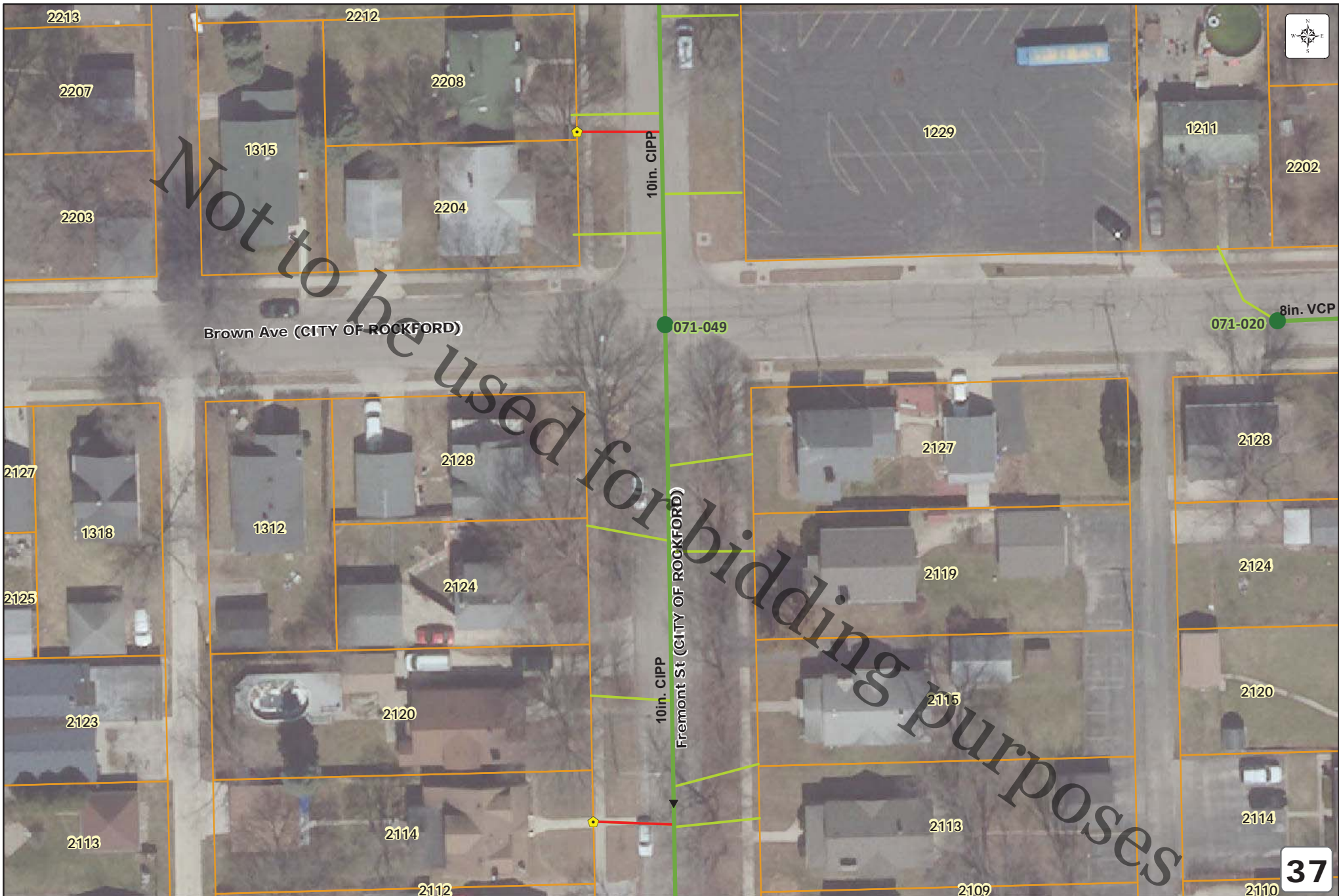
## Service Lateral Lining 2020-2021

### Capital Project #2133

1 inch = 50 feet  
0 20 40 80 120  
Feet

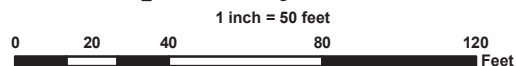
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department



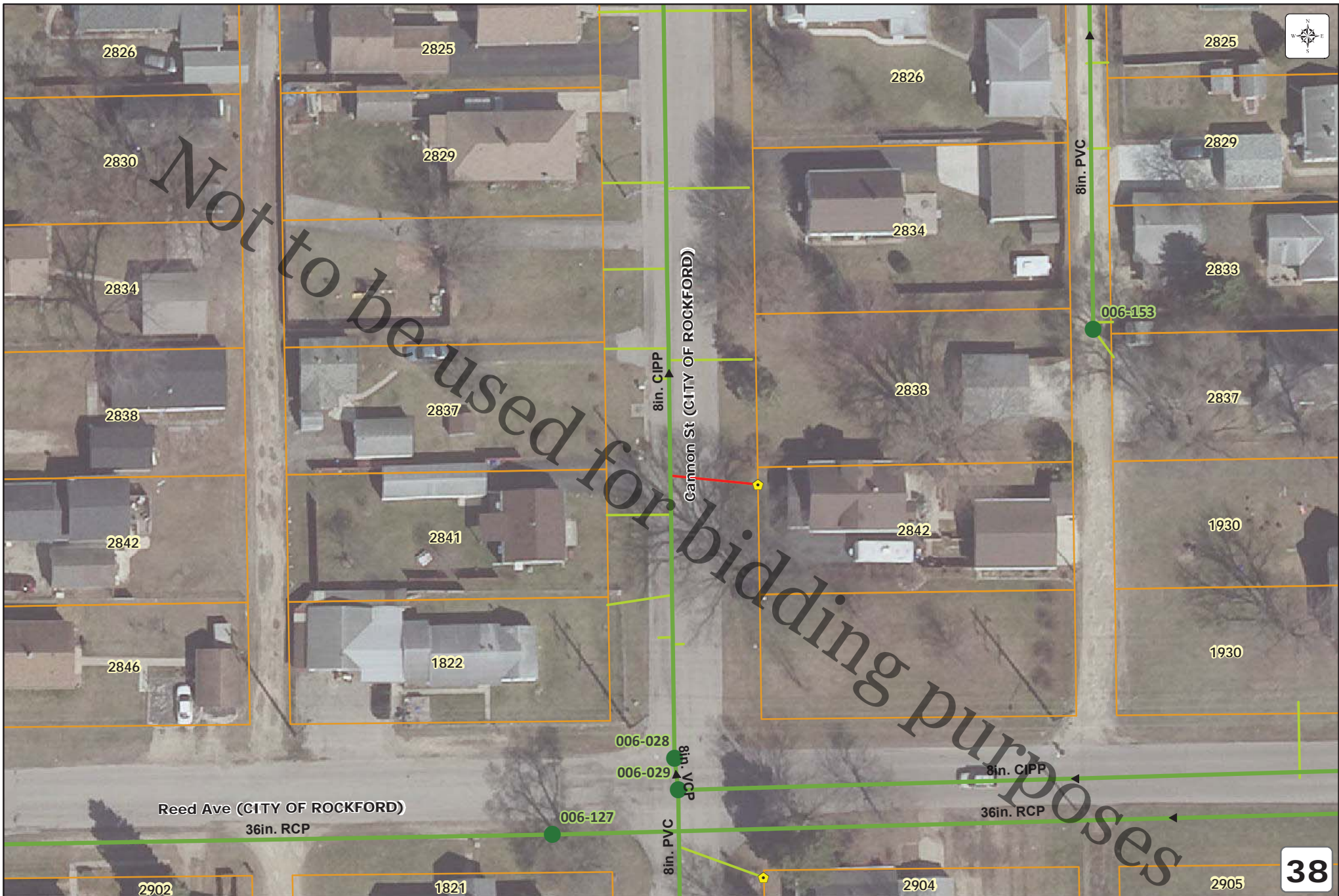


## Service Lateral Lining 2020-2021

Capital Project #2133

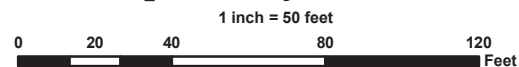






## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

### Capital Project #2133

1 inch = 50 feet

0 20 40 80 120 Feet

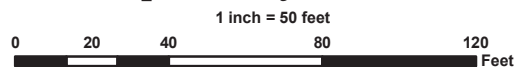
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

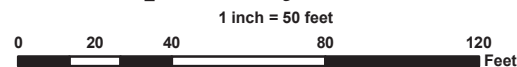
### Capital Project #2133



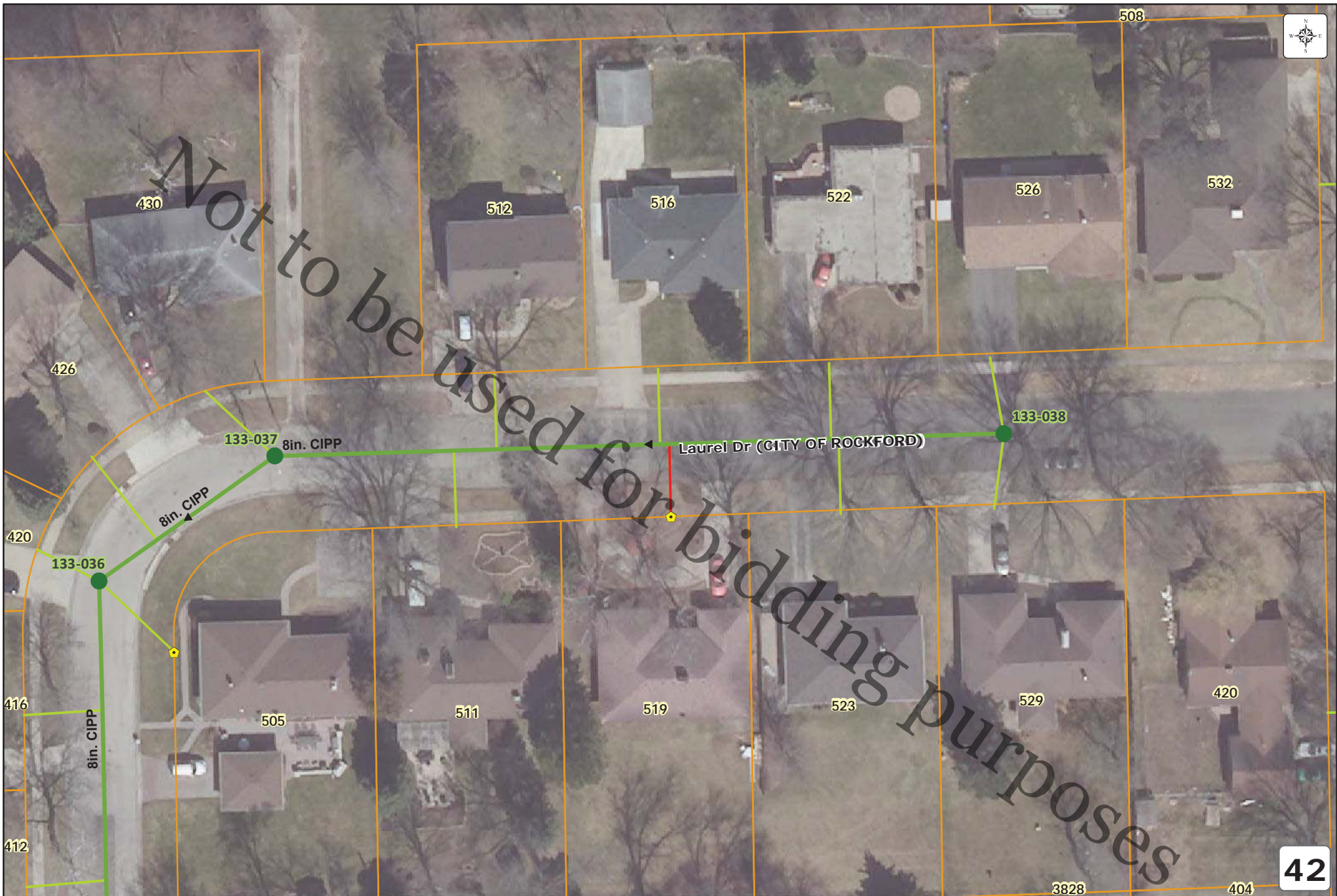




# **Service Lateral Lining 2020-2021** **Capital Project #2133**

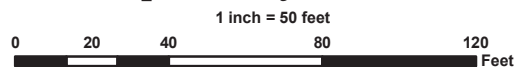




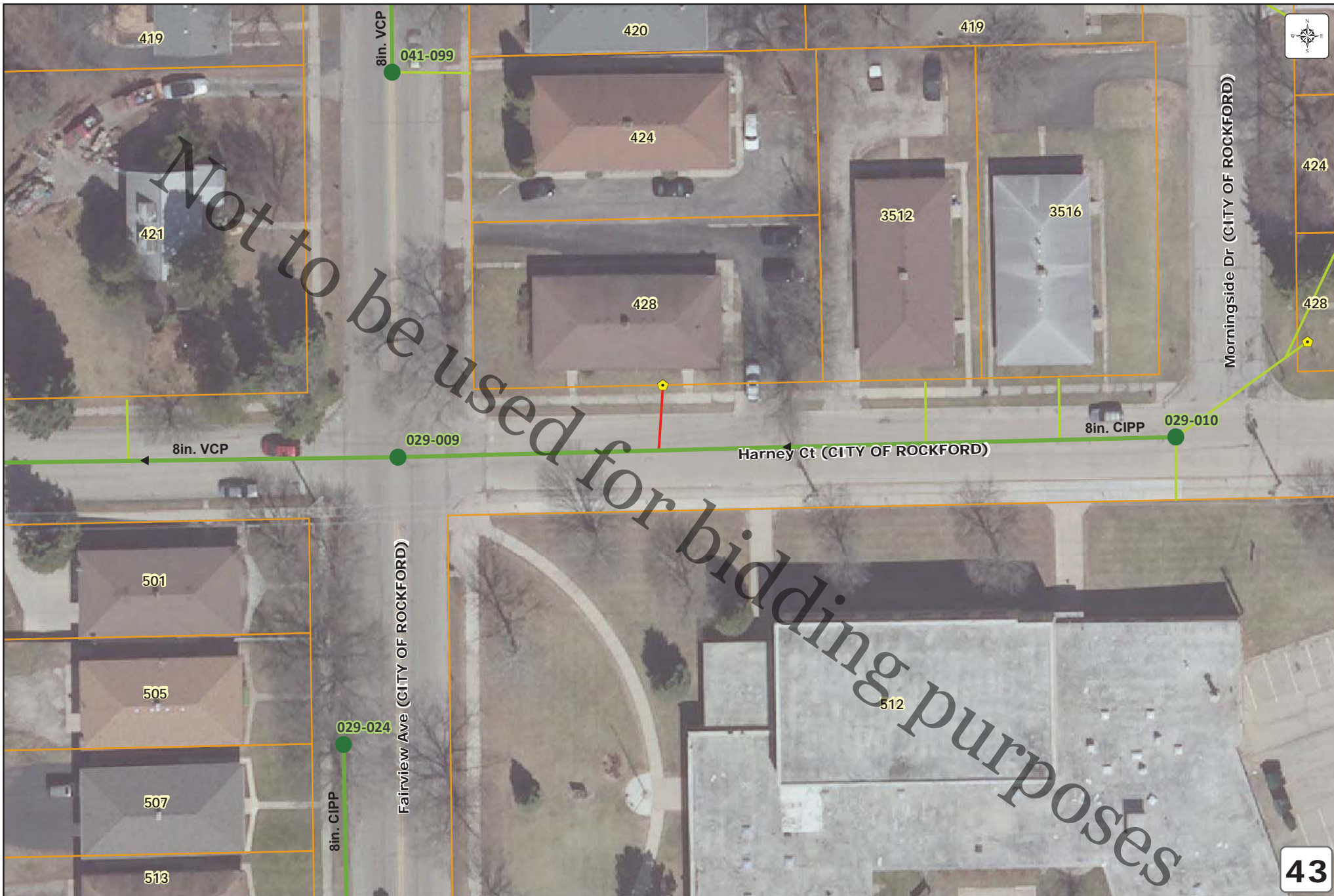


## Service Lateral Lining 2020-2021

### Capital Project #2133

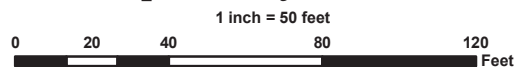






## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

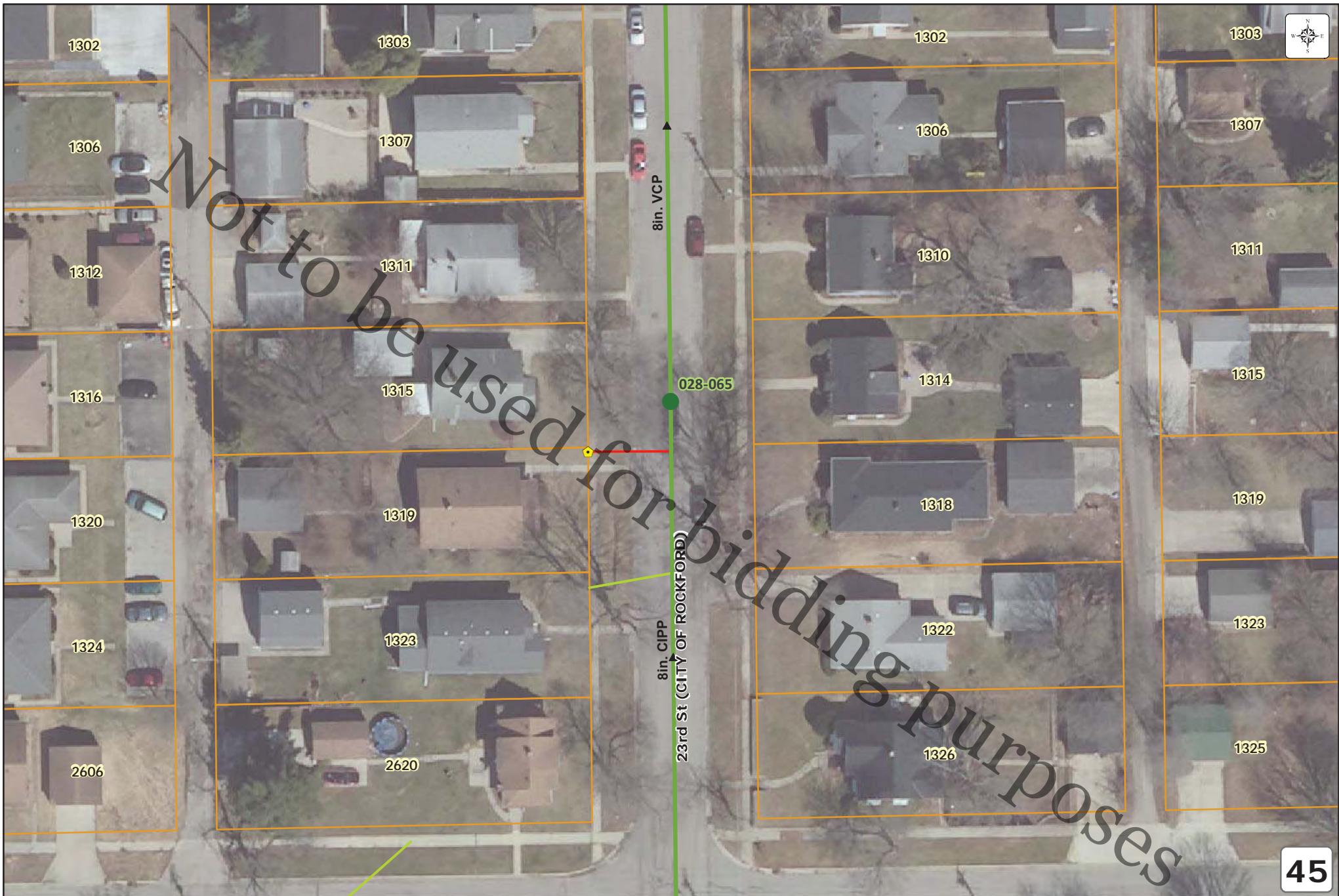
### Capital Project #2133

1 inch = 50 feet

0 20 40 80 120 Feet

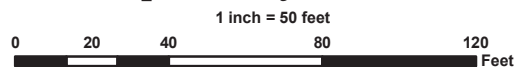
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

### Capital Project #2133

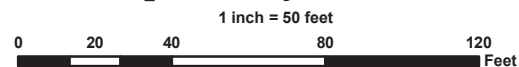






## Service Lateral Lining 2020-2021

### Capital Project #2133

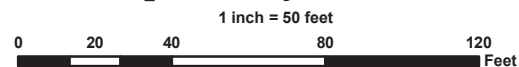






## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

### Capital Project #2133

1 inch = 50 feet  
0 20 40 80 120  
Feet

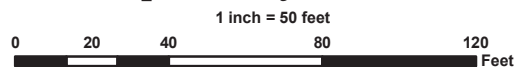
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

### Capital Project #2133







## Service Lateral Lining 2020-2021

Capital Project #2133

1 inch = 50 feet

0 20 40 80 120 Feet

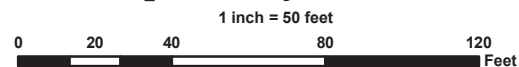
By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department





## Service Lateral Lining 2020-2021

### Capital Project #2133

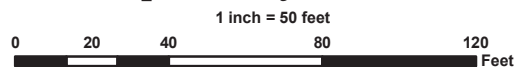






## Service Lateral Lining 2020-2021

### Capital Project #2133

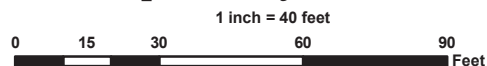






## Service Lateral Lining 2020-2021

### Capital Project #2133

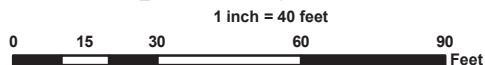






## Service Lateral Lining 2020-2021

### Capital Project #2133



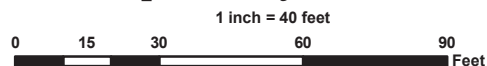




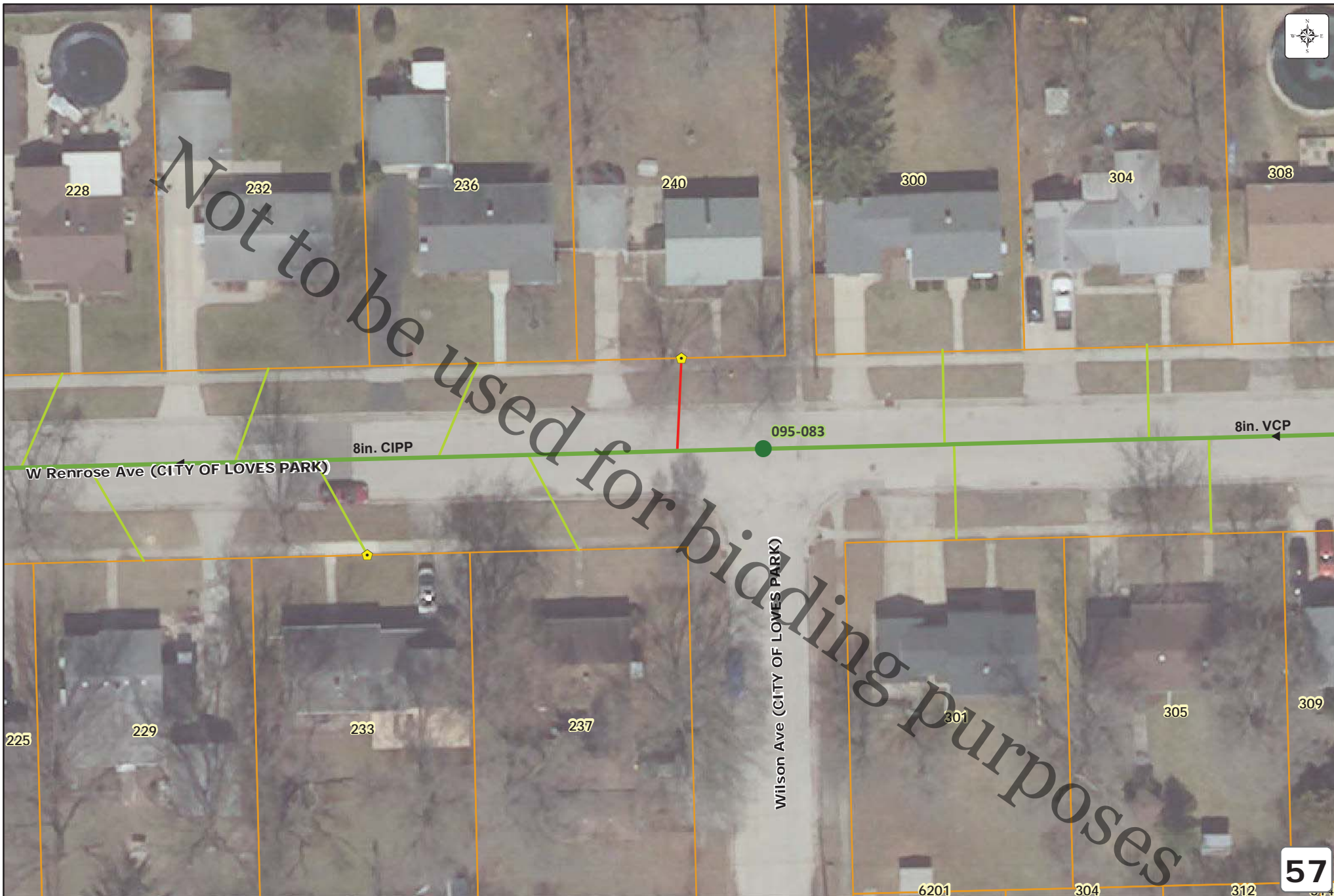


## Service Lateral Lining 2020-2021

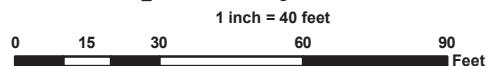
### Capital Project #2133

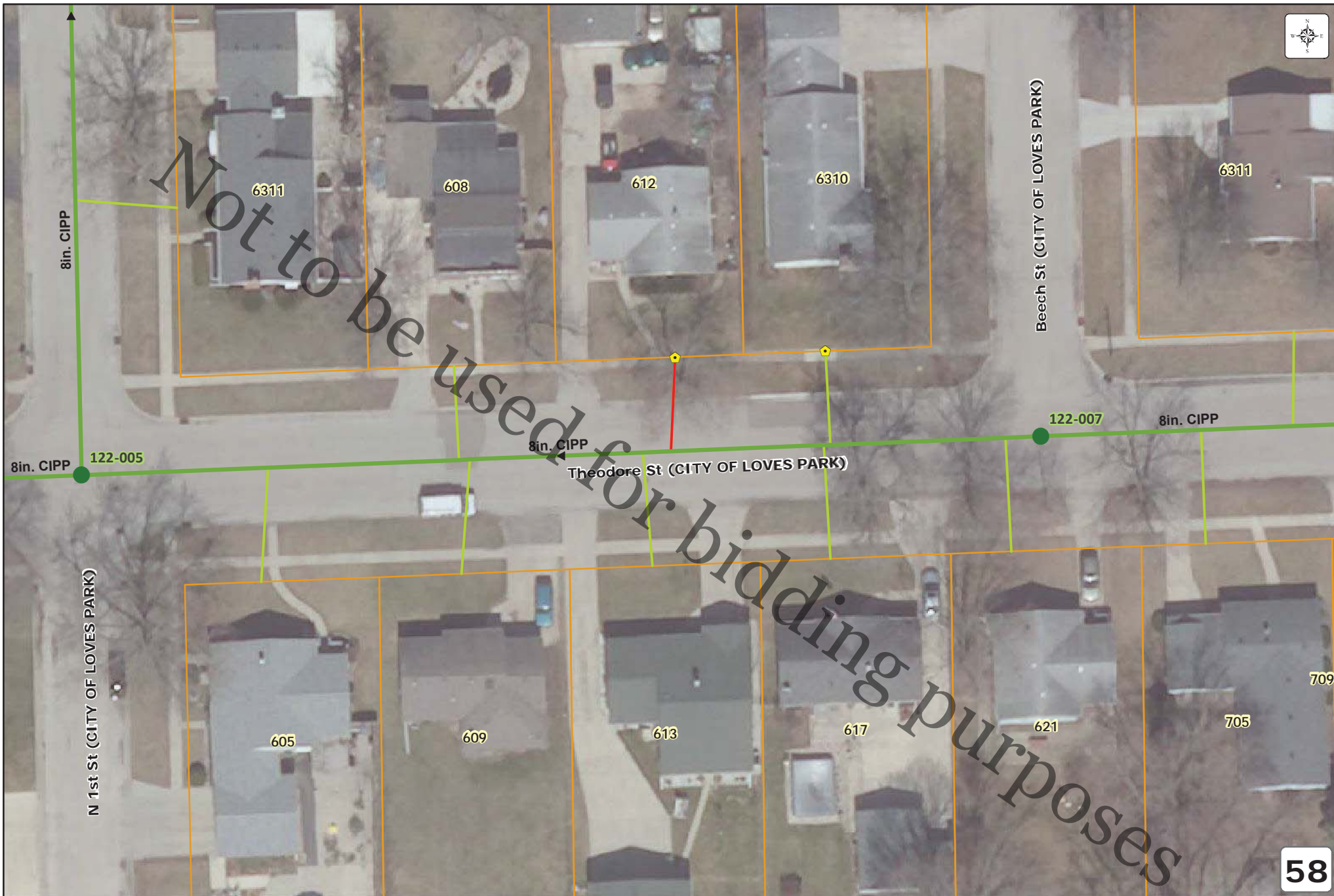






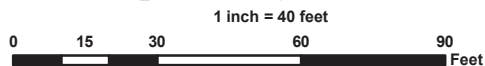
## Service Lateral Lining 2020-2021 Capital Project #2133





## Service Lateral Lining 2020-2021

### Capital Project #2133

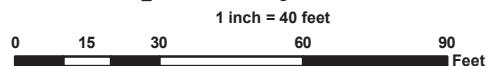






## Service Lateral Lining 2020-2021

### Capital Project #2133

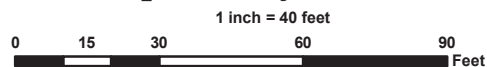






## Service Lateral Lining 2020-2021

Capital Project #2133

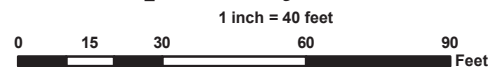






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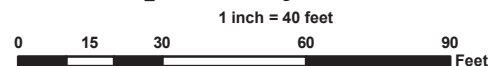
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# Service Lateral Lining 2020-2021

## Capital Project #2133

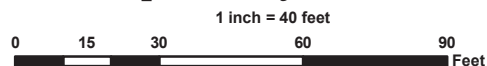






## Service Lateral Lining 2020-2021

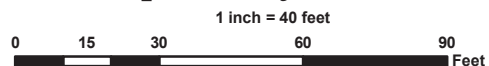
### Capital Project #2133





## Service Lateral Lining 2020-2021

### Capital Project #2133

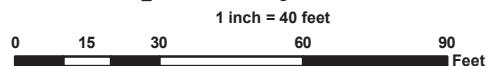




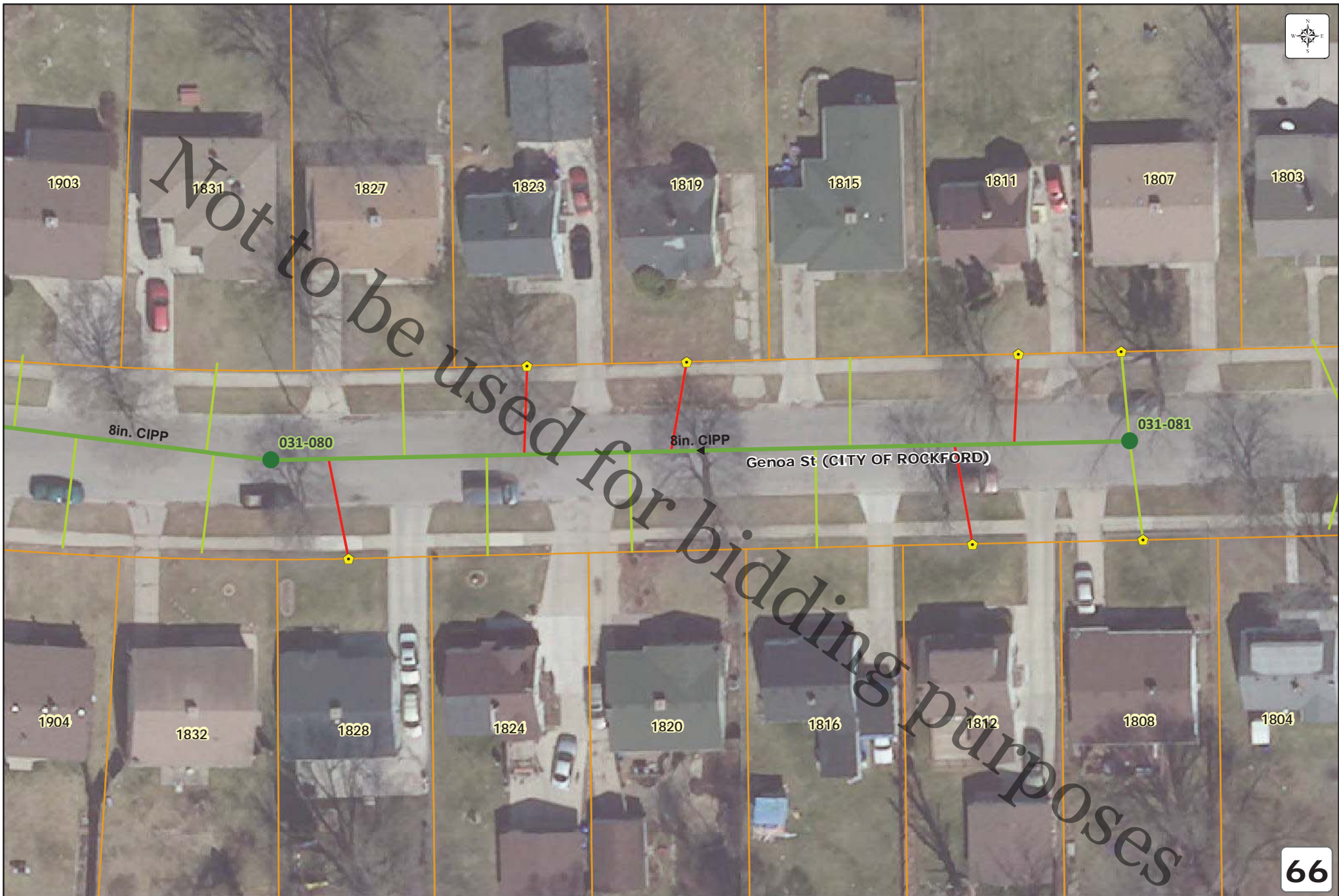


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### Capital Project #2133

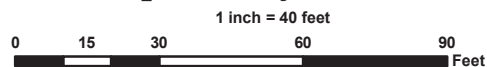






## Service Lateral Lining 2020-2021

### Capital Project #2133





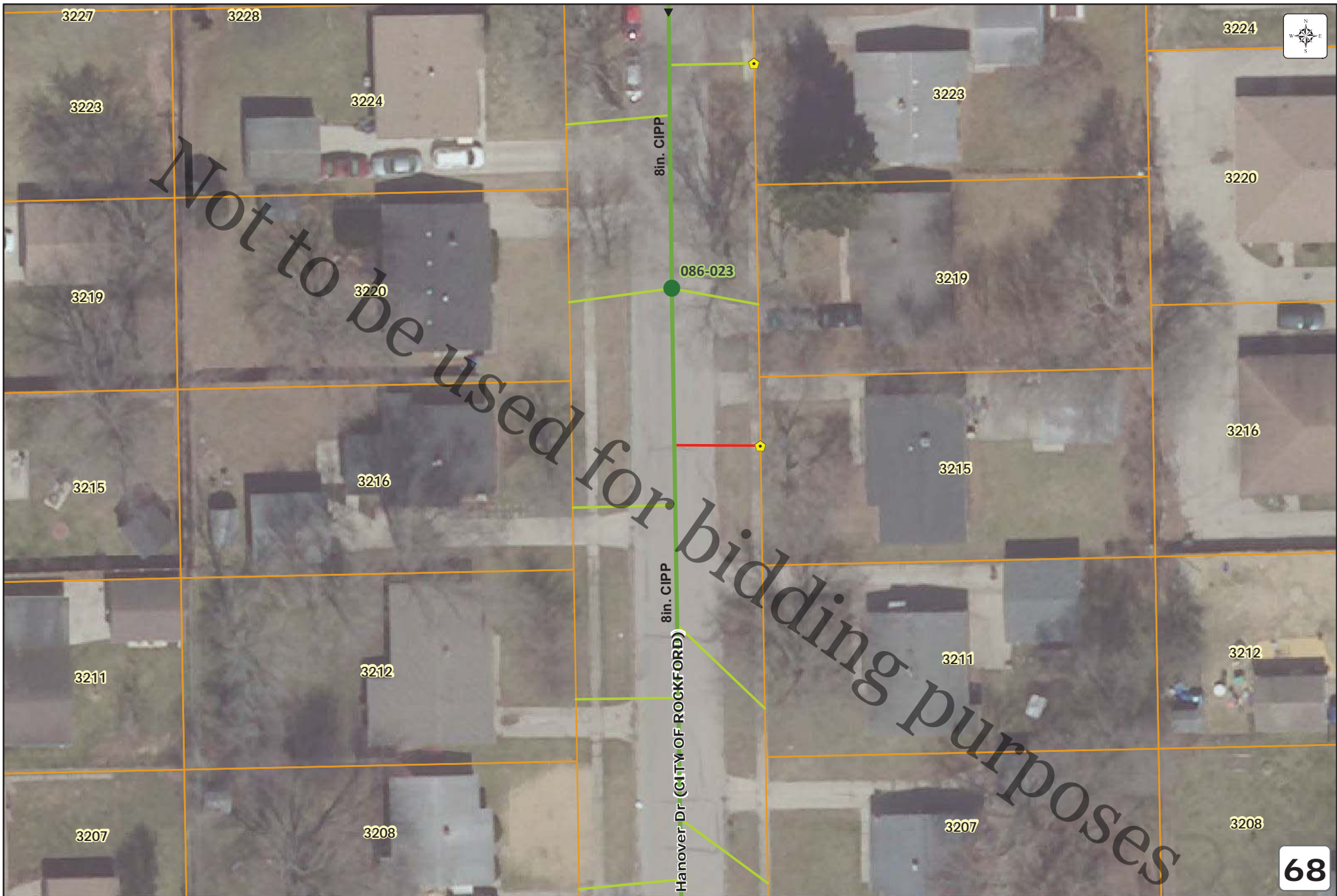


## Service Lateral Lining 2020-2021

### Capital Project #2133

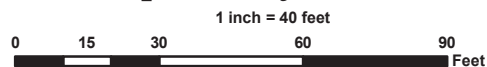
1 inch = 40 feet  
0 15 30 60 90 Feet

By: J. Kink  
Produced: 8/17/2020  
RRWRD Engineering Department



## Service Lateral Lining 2020-2021

### Capital Project #2133

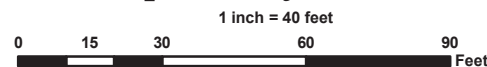




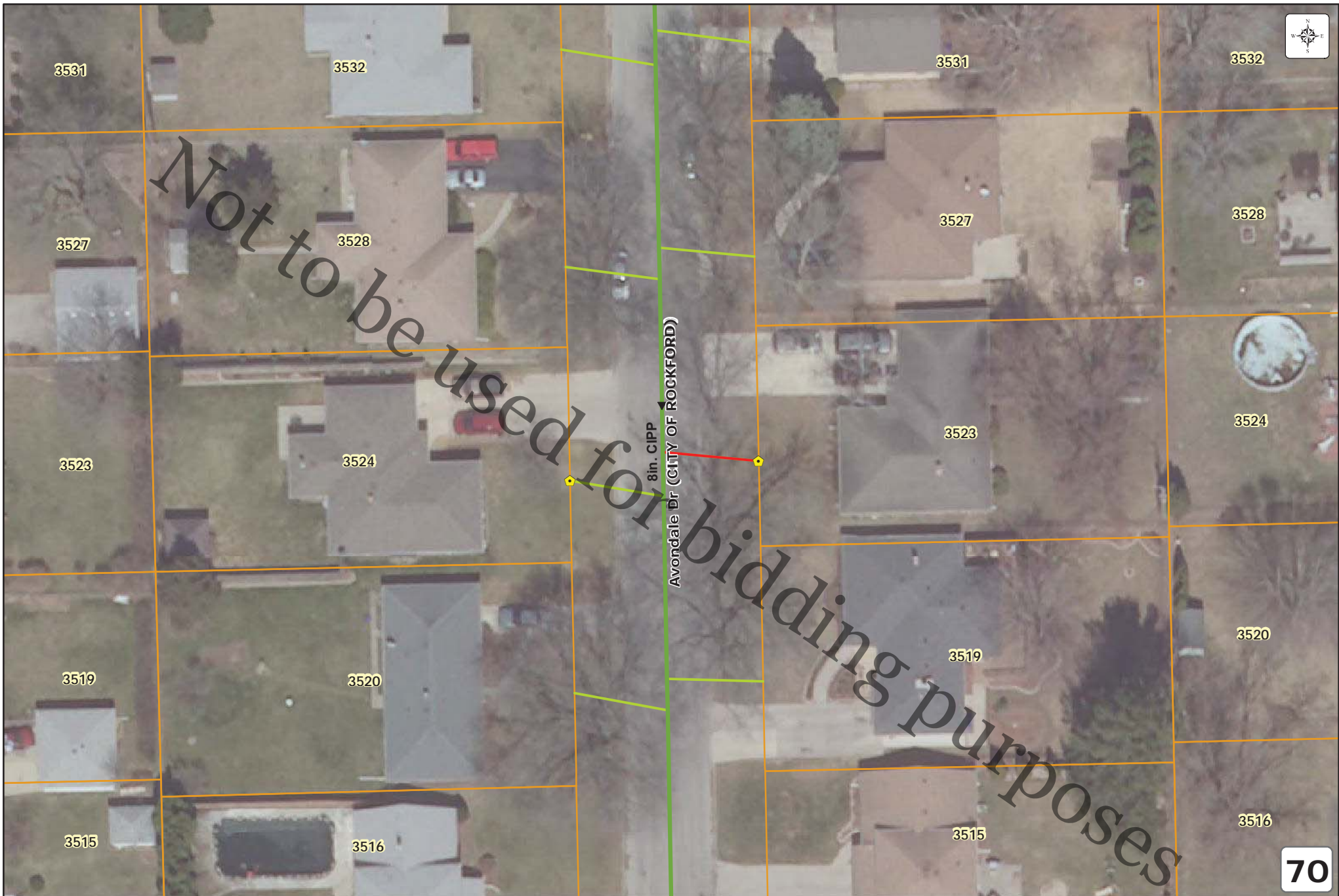


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Capital Project #2133

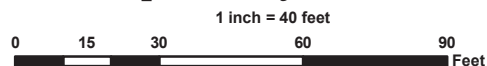






## Service Lateral Lining 2020-2021

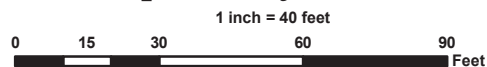
### Capital Project #2133





## Service Lateral Lining 2020-2021

Capital Project #2133

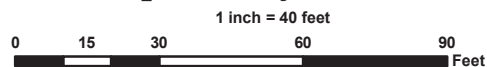






## Service Lateral Lining 2020-2021

Capital Project #2133



## **Section IV**

# **General Provisions & Technical Specifications for Sanitary Sewer Construction**

(Separate document incorporated by reference)