

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

Bidding Requirements and Contract Forms

for

2018-2019 Collection System Repairs

Capital Project No. 1954

Rock River Water Reclamation District Rockford, Illinois

Bidding Requirements and Contract Forms and *General Provisions and Technical Specifications* for *Sanitary Sewer Construction*

for

2018-2019 Collection System Repairs

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Section I
Bidding Requirements

Article 1 — Notice to Bidders

The Rock River Water Reclamation District will receive sealed and signed bids for the 2018-2019 Collection System Repairs, Capital Project No. 1954, sewerage improvements at the Rock River Water Reclamation District offices, 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Tuesday, June 19, 2018 at which time and place all responsive, responsible bids will be publicly opened and read aloud.

The 2018-2019 Collection System Repairs, Capital Project No. 1954 consists of various repairs to existing sanitary sewer facilities throughout the District. Work includes removal and disposal of existing manholes, pipe, fill material and pavements, and installation of new manholes, pipe, service connections, pavement and restoration. Work also includes bypass pumping, dewatering, tree removal, safety and traffic control, and all other appurtenances as indicated in the Contract Documents.

Bidder's attention is called to Article 2 – Instructions to Bidders 3.8 requirements for Statement of Qualifications. Bidder must have a permanent business office within forty (40) miles of the District office at 3501 Kishwaukee Street in Rockford, IL.

All underground construction, paving, testing, and restoration shall be completed by November 30, 2018. Liquidated damages shall be \$300.00 per calendar day.

Copies of the contract documents may be obtained by depositing Fifty Dollars (\$50.00) with the Rock River Water Reclamation District. The deposit for contract documents is non-refundable.

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

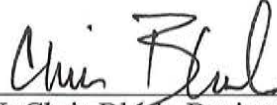
Each proposal must be accompanied by the District Bid Bond form with an acceptable Bid Security attached, in the amount of five percent (5%) of the total bid price. This sum is a guarantee that, if the Proposal is accepted, a contract will be entered into and its performance properly secured.

Bid documents may be obtained by contacting the Engineering Department at the Rock River Water Reclamation District, (815) 387-7660, 3501 Kishwaukee St. For more information, visit the District's web site at www.rrwrd.dst.il.us. Plans and specifications are also available for viewing through the Northern Illinois Building Contractors Association, whose office is located at 1141 S. Alpine Rd, Rockford, IL.

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 Rock River Water Reclamation 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 Rock River Water Reclamation District.

Dated this 24th day of May, 20 18.



BY: Chris Black, Business Manager

Not to be used for bidding purposes

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

This section of the contract documents is concerned with furnishing detailed information and requirements for preparing bids to prospective bidders, bidders' responsibility, the preparation and the submission of bids, basis for awarding the contract and other general information concerned with bidding and executing the contract.

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, 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. 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 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 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 standard IDOT forms.

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 99-0933 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 Rock River Water Reclamation District (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.

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 verifying 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 Rock River Water Reclamation 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 less or more 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 prescribed 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.

Should the Contractor desire to have an electronic proposal form e-mailed to him, the Contractor should contact the District's Engineering Department at (815) 387-7660. 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 prescribed 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, has a permanent business office within forty (40) miles of the District office at 3501 Kishwaukee Street in Rockford, IL, 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 no less than three (3) contracts for sanitary sewer system within the past five (5) years having equal or greater value to the bid being submitted. 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 Rock River Water Reclamation 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 from 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 2018-2019 Collection System Repairs, Capital Project No. 1954 project.

3. The District shall be named as Additional 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.

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 measurement and payment. Descriptions given do not necessarily outline all the work to be done under any item. In addition, all work shall conform to the following Technical Specifications: *Standard Specifications for Water and Sewer Main Construction in Illinois*, current edition, Rock River Water Reclamation District *General Provisions and Technical Specifications for Sanitary Sewer Construction*, and the Illinois Department of Transportation (IDOT) *Standard Specifications for Road and Bridge Construction*, current edition.

Throughout these specifications, the terms “Owner”, “Engineer”, and “District” shall be synonymous.

In case of apparent contradictions between the Detailed Specifications and the Technical Specifications, these Detailed Specifications shall govern.

The Contractor shall notify the Rock River Water Reclamation District (District), private property owners, and public roadway authority (City of Rockford, Village of Loves Park, Rockford Township, etc.) forty-eight (48) hours minimum prior to beginning any work to have an inspector present during all construction.

Unless noted otherwise, the Contractor shall be responsible for securing any necessary permits, and for securing all bonds, insurance, etc. and paying all fees required by any and all permits. Copies of all secured permits shall be provided to the District Engineer prior to the start of construction. The Contractor shall comply with all provisions of permits secured or required for this project.

The Contractor shall notify all utility companies prior to beginning any work. All underground utilities shall be located by the utility involved and special care shall be taken when excavating near underground utilities to avoid damage. Forty-eight (48) hours minimum prior to starting construction, the Contractor shall call J.U.L.I.E. at 1-800-892-0123 for utility location at site.

No utility locations, whether above or below ground, have been shown on the plans. The location and/or elevation of existing underground utilities, such as gas mains, water mains, electric lines, field tiles, irrigation pipes, etc., shall be determined by the Contractor. The Contractor shall assume full responsibility for all utility locations.

General location of sewer is governed by existing obstructions in the field. Minor variations in location may be made after approval by District to facilitate construction operations.

Contractor shall employ a competent person to comply with OSHA trenching and excavation requirements on site at all times during construction. The person shall be capable of identifying existing and probable hazards in the surroundings, or working conditions which are unsanitary, hazardous or dangerous to employees, and shall be authorized to take prompt corrective measures to eliminate them. The means and methods to comply with construction site safety are the sole responsibility of the Contractor. District staff is not responsible for Contractor's compliance procedures.

The District will not supervise, direct, control or have authority over or be responsible for Contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and

Regulations applicable to the furnishing or performance of the Work. District will not be responsible for Contractor's failure to perform or furnish the Work in accordance with the Contract Documents.

Any construction not performed in the presence of a District inspector shall not be accepted.

The Contractor shall be responsible for all tests of materials and final installation required by the District. Final inspection, testing and acceptance tests shall be in accordance with technical specifications and requirements of the District except as modified by the Detailed Specifications. All deficiencies noted by the inspectors shall be corrected by the Contractor without cost to the District and prior to final payment.

The Contractor shall restore all disturbed areas to near original contour and state, graded and raked to a neat and well-drained condition. All disturbed turf areas shall be seeded or sodded as noted in specifications after approval of seed or sod bed by the District.

Any damage to pavement, driveways, bituminous surfacing, turf, trees, bushes, structures, etc., shall be repaired or replaced to equal or better condition or as required by easement agreements. Restoration in right-of-way areas shall be in accordance with applicable roadway authority requirements.

It shall be the Contractor's responsibility to secure any temporary or permanent access, storage or construction easements which he deems necessary from property(ies) to perform the work as shown on the plans or defined in the specifications.

All work in streets, highways, railroad right-of-way or flood plains shall be subject to the regulations and requirements of the appropriate agencies. Should conflicts or contradictions arise between the plans, specifications and the roadway, railroad or waterway permits, the permits shall govern.

The Contractor shall be responsible for the temporary maintenance of all roadways and drives over the course of this project and shall maintain access at all times. The Contractor shall clean up areas from which spoil has been removed at the end of each day by sweeping, washing or other approved methods. When the work is halted by rain, the Contractor shall clean up the working areas before leaving the site.

The Contractor shall provide traffic control manpower and/or equipment as required by the jurisdictional roadway authority.

No work shall be permitted on Sundays without prior approval by District Engineering Manager.

Pavement Restoration shall be completed on each Collection System Repair within fourteen (14) days of completion of the pipe and/or manhole repair.

Suppliers shall be deemed to impliedly warrant that their products and all component materials incorporated into them are suitable and fit for the intended use of such products and shall be free from defect in material, workmanship or design, such warranty to run to the benefit of Owner and Engineer. The foregoing applies whether the products or their component materials are specified in the Contract Documents or are of supplier's design.

2 Notification, Access and Special Considerations

2.1 General

Contractor shall notify all affected residents or businesses of the impending construction project a minimum of forty-eight (48) hours minimum prior to the start of construction.

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

2.2 Specific Site Considerations

Item No. 2 – Bishop Washington Ave.: Proposed repair is adjacent to St. Paul Lutheran Church and School. Notify the school at school.office@stpaulrockford.org.

Item No. 7 – Crosby St. & Regan St.: Proposed repair is adjacent to Jackson Charter School. School resumes mid August. Contact the school at (815) 316-0093 to coordinate with school if not complete by August 1st.

Item No. 9 – S. Independence Avenue: Coordinate work with City of Rockford Street Department for access to 500 S. Independence Ave. Contact Mitch Leatherby at (779)348-7260. Also coordinate work with Liebovich Bros for truck access (815) 987-3200. **To minimize impact to local business and City Street Department Contractor shall perform the removal replacement of MH 044-082 on a Saturday.**

Item No. 10 – W. Jefferson St. & N. Sunset Ave.: Proposed repair is adjacent to Lewis Lemon Elementary School. School Resumes mid August. Contact Jim Kaplanes if repair is not complete by August 1st at kaplanj@rps205.com.

Item No. 11 – N. Winnebago St. & Park Ave.: Contractor shall maintain a passable lane width (11' minimum) for southbound traffic on Winnebago St. Northbound Traffic on Winnebago Street shall be detoured to Jefferson and North Rockton Ave.

Item No. 12 – N. Rockton Ave. & Auburn St.: Contractor shall maintain a passable lane width (11' minimum) for both northbound and southbound traffic at all time.

Item No. 13 – Marchesano Dr. & Clifton Ave.: Proposed repair is adjacent to Rockford Fire Department Station No. 3. Contractor shall notify the Fire Department at (779) 348-7171 prior to performing work.

Item No. 14 – Summerdale Ave. & Glenwood Ave.: Proposed repair impacts emergency vehicle traffic to the Rockford Memorial Emergency Room. Contractor shall notify Mercyhealth Service Division prior to mobilizing to site. Contact John Acardo at jacardo@mhemail.org.

Item No. 16 – Pepper Drive & Kimball Rd.: Notify the Rockford Park District Prior to beginning work; access to Gambino Park is impacted. Contact Tim Bragg at timbragg@rockfordparkdistrict.org, (815) 987-8865.

Item No. 17 – Arnold Ave.: Maintain a passable lane width (11' minimum) for both northbound and southbound traffic at all times.

Item No. 18 – Applewood Lane: 20' wide sanitary sewer easement contained in Wood at Mission Hill No. 2 Subdivision (Book 37, Page 101, 1984)

Item No. 24 – Basin Dr. & Sunbird Dr.: 20' wide sanitary sewer easement contained in Forest Ridge No. 2 Subdivision (Book 2, Page 191, 1980)

Item No. 27 – Kent St. & West St.: The existing manhole has a gas main passing through. The District will issue a clarification on status of gas main (live or abandoned) once confirmed by Nicor. If live Contractor shall coordinate relocation of gas main with Nicor prior to removal and replacement of the sanitary manhole.

2.3 Submittals – Not Used

2.4 Payment

No separate payment for notification efforts or special access provisions will be made. This work shall be included in the Contract lump sum (LS) price per each applicable Collection System Repair.

3 Permit Requirements

3.1 General

The Contractor shall comply with the requirements of any and all permits obtained and required for the construction of this project; this includes but is not limited to: Army Corps of Engineers, IDNR, City of Rockford, Rockford Township, and City of Loves Park. The Contractor shall provide all insurance, bonds, etc. as required by the necessary permits. The Contractor shall also obtain and comply with any additional permits that may be required for the completion of this project.

The City of Rockford will require a right-of-way permit for all Collection System Repairs located in City of Rockford right-of-way. Traffic control plans as required by the City shall be reviewed and approved prior to the start of construction. Contact Patricia Williams at (779)-348-7174, patricia.williams@rockfordil.gov.

CONTACT INFORMATION		
Entity	Name	Phone Number
City of Rockford	Patricia Williams	(779) 348-7174
Rockford Township	Brad Trent	(815) 962-7313
City of Loves Park	Shannon Messinger	(815)-654-5040

3.2 Submittals

1. Copies of signed permits as applicable.

3.3 Payment

Payment for procurement of and compliance with any permits required shall be included in the Contract lump sum (LS) price per each applicable Collection System Repair.

4 Sanitary Sewer Collection System Repair

4.1 General

Work under this item includes permits, mobilization/transportation, site access, site preparation, supervision, and all labor, equipment and materials needed to complete main line repairs on existing sanitary sewers of various diameters and materials with new sanitary sewer pipe on grade and in line. Work shall also include manhole removal and replacement, existing manhole invert reconstruction, inside and outside drop connection removal and replacement, disposal of removed materials, traffic control, temporary by-pass pumping, pipe bedding and backfill, compaction, pavement restoration, construction easement acquisition, trench dewatering, utility relocation and/or removal and replacement, all site and property restoration, grading, erosion control, dust control, tree trimming and removal, and any ancillary items necessary for the completion of this project not specifically provided for herein.

The lengths of the collection system repairs shown in *Section III* are estimated only. The Contractor's lump sum price per Collection System Repair shall be based on the length shown with an allowance of up to 10.0' of pipe per connection. This allowance for additional pipe is also applicable to pipe used to connect new manholes. Connection shall be made to structurally sound pipe with positive slope as verified by the District Inspector. If additional pipe replacement is required, over and above the 10.0' of additional pipe, the District will reimburse the Contractor on a time and material basis.

The District has completed internal televising of all existing sewers on this project. Video Reports are available for viewing at the District's office during normal working hours (8:00 a.m. – 4:30 p.m.). Maps of the Collection System Repairs and T.V. inspection reports are included in *Section III*. Where work includes removal and replacement of an existing manhole, a manhole inspection report is attached.

The Contractor shall be responsible for locating the main line repair limits in the field; both for the J.U.L.I.E. locate and repair. Note: Sewer service locations on the location maps are not exact. Contractor shall reference District TV logs provided for accurate sewer service locations on the mainline sewer.

Contractor shall field verify the depth of all Collection System Repairs on this project. The depths shown on the TV logs are at the upstream manholes on standard televising setups and at the downstream manhole on reverse televising setups. Depth and inverts on supplied maps are based upon most recent District inspection.

The Contractor shall be responsible for any costs associated with corrective measures required to repair or replace items not meeting the requirements of these specifications as determined by the District.

4.2 Pipe Materials

All materials, pipes and fittings shall be transported, handled, delivered and stored as recommended by the manufacturer. Any new pipe or fittings damaged before or during construction shall be replaced as recommended by the manufacturer or as required by the District, at the Contractor's sole expense.

Any 9" diameter clay pipe encountered shall be replaced with 10" diameter PVC pipe.

4.2.1 Sanitary Sewer Main

8" through 15" Diameter PVC pipe shall be SDR 35 PVC pipe meeting the requirements of ASTM D3034. Joints shall conform to ASTM D3212.

18" through 36" Diameter PVC pipe shall meet the requirements of ASTM F679. Joints shall conform to ASTM D3212.

4.2.2 Sanitary Sewer Services

PVC Pipe shall be watermain quality SDR 26 pipe meeting the requirements of ASTM D2241 with O-ring joints per ASTM D3139. Where required or specified, PVC Pipe shall be Schedule 40 PVC meeting the requirements of ASTM D1785 and D2665. Solvent weld joint shall meet the requirements of ASTM D2855

4.2.3 Transition Couplings

Clay to PVC and cast iron or ductile iron to PVC pipe transition couplings shall be Fernco 5000 or LDC series (as required by pipe diameter) or Mission Flex-Seal ARC shear resistant or District approved repair couplings, made of flexible PVC compound with 316 stainless steel clamps and stainless steel rings. Transition couplings shall conform to the applicable parts of ASTM D5926 and C1173.

4.2.4 Material Tests

All material tests shall be made in accordance with manufacturer and District requirements and shall comply with all applicable ASTM specifications. Manufacturer material specifications and certifications for all castings, pipes, fittings, connectors, adapters, etc., must be furnished, upon request, for all materials to be used under this contract.

4.3 Submittals

The Contractor shall submit the following items for review and approval:

1. Pipe, fitting, and repair coupling material specifications.
2. Detailed Project Schedule; including specific collection system repair numbers from list provided in *Section III*.

4.4 Measurement and Payment

Payment for Collection System Repairs shall be made at the Contract lump sum (LS) price for each Collection System Repair.

5 Manholes

5.1 General

Work under this item shall include all labor, equipment, and materials, required to construct pre-cast concrete sanitary manholes including connecting to existing sanitary sewers in accordance with the District Standard Detail Sheet and District Specifications. Work includes furnishing

and installing a District approved manhole frame and lid (Neenah R-1670, R1915J, or EJ E-1117) adjusted to grade as indicated on the project location maps provided in *Section III* or as specified in this section; Contractor shall field-verify all proposed rim elevations. District approved manhole steps shall be provided with a maximum spacing of 16". The top of the pre-cast cone section shall be at an elevation to allow for adjustment of frame (12" maximum) without disturbing the cone section. Should it be required to stub a section of pipe out of a manhole or install a drop connection, this section of pipe and plug shall be considered incidental to the cost of the size and type of manhole installed.

Unless otherwise specified or shown, manhole frames shall be set at one inch (1") above finish grade in turf areas and at finished grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness shall be two inches (2"). Maximum ring thickness shall be twelve inches (12"). Adjustment rings shall conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in T.S. 5:3(a) in the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). Minimum adjusting ring placement height is four inches (4"). Maximum adjusting ring placement height is twelve inches (12"). No more than thirty inches (30") from the top of casting to the first step will be allowed. A maximum of one (1) 2" adjusting ring will be allowed. Joint between adjusting rings and casting shall be watertight by means of a butyl material seal (E-Z Stik, Kent-Seal, or equal).

No adjusting rings are required for manholes in turf areas or with roadway having curb and gutter.

In roadways only: metal or plastic shims will be required if the casting in the roadway must be pitched to accommodate roadway pavement. Shims must be equally spaced with no more than one-inch (1") of total adjustment. No butyl materials seal (E-Z Stik, Kent-Seal, or equal) will be used under the casting. The void area between the casting, and masonry shall be grouted from the outside to the inside face of the adjusting ring, filling the entire void. No trench compaction shall take place until the concrete has cured and hardened to the District's satisfaction. Final manhole adjustment shall meet additional requirements of the applicable roadway authority.

Unless noted otherwise, manhole bases shall be constructed in the factory with only the opening for the pipe coming out of the manhole (with District approved gasket) cast in place. The openings for the pipes coming into the manhole shall be core drilled in the field. A flexible pipe to manhole connector (PSX Positive Seal Gasket System with Power Sleeve Expansion or other District approved connector) shall be installed in the field.

All connections to the new manholes shall be made with PVC SDR 35 Pipe (ASTM 3034) diameters of 8" through 15", and ASTM F679 for diameters of 18" through 36". A minimum of 3.0' of new PVC pipe shall be installed at each connection to existing sanitary sewer.

Doghouse style manholes will only be allowed on existing 18" or larger diameter sewers as approved by the District. Construction shall be in accordance with the detail provided in Section IV.

The Contractor shall install a District-approved external casting seal on all proposed manholes as indicated on the Detail Sheet. The Contractor shall install District approved external seals on all manhole barrel section joints (Cretex Mac Wrap or CANUSA Wrapid Seal).

All new manholes (except approved doghouse-style manholes) shall be vacuum tested per ASTM C124493 *Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test* prior to placing into service.

For all new manholes, and where manhole invert reconstructions are required, the Contractor shall construct a paved manhole bench in each manhole per the District's Standard Detail Sheet or per the District's direction. Manhole benches shall have a minimum slope of two inches (2") per foot.

Pipe connections to new manholes shall be made by means of a watertight flexible pipe to manhole connector meeting the requirements of ASTM C923 titled "Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes." Integrally cast and expandable gaskets are acceptable. The design shall be in accordance with the manhole and pipe manufacturer requirements and shall receive prior District approval. All sanitary manholes equal to or greater than twenty-two feet (22') deep shall use pipe to manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A LOK model X-CEL or District approved equivalent).

Flat tops will not be permitted on four foot (4') diameter manholes; eccentric cone sections must be a component of these manholes unless otherwise noted.

Manholes identified with inside drop connections shall utilize a Reliner inside drop bowl assembly as manufactured by Reliner/Duran, Inc. Drop connections shall be sized as per the manufacturer's recommendations. Contractor shall submit shop drawings for all manhole drop connections.

The Contractor shall be responsible for verifying all manhole depths, pipe slopes and angles.

5.2 Submittals

1. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and invert elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.
2. Manhole frames and lid material specifications.
3. Chimney seal material specifications.
4. Barrel joint seal material specifications.
5. Manhole to pipe connection seal material specifications.
6. Manhole step material specifications.
7. Sealant material specifications, including water stop for doghouse manholes.
8. Drop assembly material specifications (as applicable).

5.3 Payment

Payment for sanitary manholes installed shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

6 Bedding, Backfill and Compaction

6.1 General

Pipe Bedding

Pipe bedding for PVC pipe shall be Class IA per ASTM Standard D2321. The trench bottom shall be bedded with a minimum of six inches (6") of crushed stone foundation. Crushed stone shall be placed to a minimum of twelve inches (12") above the top of the pipe, per the District's bedding detail.

Bedding shall be graded such that it precludes the migration of trench wall material into the bedding; the District shall approve this bedding material after the characteristics of the trench are determined. In the event that the trench bottom is unstable, as determined by the District, the Contractor shall undercut the trench as required and furnish foundation material at no additional cost to the District. The foundation material shall be a coarse aggregate material of a gradation distribution that will inhibit the migration of the bedding material, trench bottoms and walls.

In the event the water table is above the bottom of the pipe bedding, or the trench bottom is unstable or unsuitable, a porous granular foundation meeting IDOT specifications of CA-5 or CA-3 stone shall be installed as necessary below the granular bedding material, extending to the limits of the bedding diagram at no extra cost to the District.

Should boulders, frozen material, etc., which could damage the pipe be present in the native backfill material, the Contractor shall bring the bedding material to a point twenty-four inches (24") above the crown of the pipe (cost incidental).

Backfill and Compaction

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in Technical Specifications T.S. 2:4-c. Select trench backfill under said structures shall be of FA 6 gradation (IDOT), mechanically-compacted in six-inch (6") to eighteen-inch (18") loose lifts to the sub-grade elevation of the road shoulder, sidewalk, driveway, parking lot or pavement. The materials and compaction shall be in accordance with the IDOT *Standard Specifications for Road and Bridge Construction*, (Current Edition), including Section 208 and 550.07, Method 1.

All select trench backfill shall be compacted to ninety-five percent (95%) of Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Proctor density.

Contractor shall properly dispose of all spoil at no additional cost to the District. The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations.

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All compaction tests will be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. If the tests do not meet the compaction requirement specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met.

Use of vibratory rollers will not be permitted on this project.

For granular backfill (F.A.6), a vibratory plate, or other approved equipment-mounted compaction equipment must be used by the Contractor to compact the backfill in lifts not to exceed eighteen inches (18"). Water-jetting, ponding or flooding will not be permitted as a means of trench compaction.

If initial tests indicate compaction requirements are being met, no further lift testing will be required unless method, equipment or material changes. The final lift forming the sub-grade must be tested.

In trenches not requiring select trench backfill, no excavated material larger than eight inches (8") in any dimension shall be used in the backfill.

The Contractor shall provide a three (3) year guarantee against trench settlement throughout this project upon completion of construction.

6.2 Submittals

1. Pipe bedding and select trench backfill material gradation certifications.

6.3 Payment

Payment for bedding, backfill and compaction shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

7 Remove Sanitary Manhole

7.1 General

This work shall consist of removal and disposal of existing sanitary sewer manholes as required to construct this project. All work shall conform to Section 605.03 of the I.D.O.T. *Standard Specifications for Road and Bridge Construction*. The existing manhole castings shall be delivered to the R.R.W.R.D. North Facility at 4850 Torque Road, Loves Park, Illinois between 7:00 a.m. and 3:30 p.m. Coordinate with District Inspector or Brian Markgraf at (815)-543-3470 a minimum of one (1) hour prior to delivery.

7.2 Submittals – Not used.

7.3 Payment

Payment for removal and disposal of existing sanitary sewer manholes shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

8 Bypass Pumping

8.1 General

The Contractor shall provide bypass pumping as required and shall be responsible for providing all pumps, conduits, plugs and other equipment to divert the flow of sewage as required to complete the proposed Collection System Repairs.

The Contractor shall furnish the necessary labor, equipment, materials and supervision to set up and operate the pumping system. The Contractor shall only pump flow into other sanitary sewer manholes as approved by the District. The pumping system shall have sufficient capacity to handle the existing flow plus any additional flow that may occur during or after a storm event or peak flow periods. The Contractor shall provide sufficient inspection personnel to ensure that surcharging and backups do not occur on public or private property. If pumping is required on a 24-hour basis, the equipment supplied shall be equipped to minimize noise to a level of ninety decibels (90 dB) or less.

All plugs or blocking shall be restrained to ensure that they cannot be washed downstream.

The Contractor shall be responsible for maintaining continual sanitary sewer service to each resident for the duration of construction. The Contractor shall be responsible for the clean up, repair, restoration of damaged property and any costs and claims resulting from sewage backups.

8.2 Submittals

1. Specifications for all pumping equipment, including backup pumping equipment.

8.3 Payment

Payment for bypass pumping shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

9 Sewer Service Replacement

9.1 General

This work shall consist of replacing existing sanitary sewer services from the private VCP, PVC or cast iron pipe at or near the property or easement line (or point of connection as shown on the project location maps) to the new sanitary sewer with 4" or 6" PVC pipe as indicated on project location maps. This item shall include all necessary materials, risers, fittings, couplings, adaptors, labor, bypass pumping, sidewalk replacement, curb and gutter replacement, pavement restoration, storm sewer removal/replacement, equipment, supervision and work necessary to complete this work with all necessary appurtenances. All existing VCP sanitary sewer services in the right-of-way or easement limits are believed to be 6" diameter.

When replacing 4" diameter sewer services to single family residential homes, the Contractor will be allowed to telescope the new 4" Schedule 40 PVC pipe through existing 6" VCP service pipe provided there is adequate line and grade. If sleeving of the 4" service into the existing 6" service cannot be accomplished, open cut replacement will be required at no additional cost. All 6" diameter sewer services to be replaced with 6" PVC services will require open cutting.

Sleeved / Telescoped Sanitary Sewer Service Replacement pipe shall be Schedule 40 PVC meeting the requirements of ASTM D-1785 and D-2665. Solvent weld joints shall meet the requirements of ASTM D-2855.

Open cut sanitary sewer service replacement pipe shall be watermain quality PVC SDR 26 meeting the requirements of ASTM D-2241 with O-ring joints per ASTM D-3139.

The Contractor shall be responsible for maintaining the current level of service to all users connected to the existing sanitary sewer. Bypass pumping shall be provided per *Article 3, Part 8*.

Clay or Cast Iron Pipe to PVC pipe transitions shall be made by use of shear-resistant flexible Clay or C.I.P.-to-PVC adapters (Fernco Model 5000, Mission Flex Seal ARC, or District approved equal adaptor). Connection shall be made to existing pipe that is structurally sound.

Connection of a new service lateral to new sewer main shall be made with a factory wye fitting.

Connection of a new service lateral to an existing sewer main shall be made with a saddle-wye fitting.

This bid item shall include excavation, dewatering, pipe, fittings, risers, adapters, cleanouts, jacking, and connection to the existing house/building discharge lateral for occupied parcels as shown on the plans.

RRWRD Connection permits for existing sewer service replacement and reconnections will not be required.

The location of existing sewer service wyes is based upon TV logs and record information, and the proposed service connection at the Right-of-Way or easement line is based upon that location. Should the service alignment, diameter or point of connection vary from that shown in the plans, no claims for additional compensation will be entertained.

Cleanouts will be required at the property or easement line, as shown on the Standard Detail Sheet and where required by the Illinois State Plumbing Code. A cleanout casting shall be provided on all cleanouts in paved areas (Neenah R-1974-A or District approved equal).

9.2 Submittals

1. Pipe, fittings, and repair coupling material specifications.
2. Cleanout casting shop drawings; Neenah R-1974-A or equal.

9.3 Payment

Payment for replacement of sewer services shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

10 Sewer Service Reconnection

10.1 General

Work shall include excavation, dewatering, pipe, fittings, risers, adapters, and connection to the existing building discharge lateral for occupied parcels as shown on the project location maps. Sidewalk removal and replacement, curb and gutter removal and replacement, bedding, initial backfill, select backfill, pavement and surface restoration shall be included and shall comply with specifications for provided elsewhere in these Detailed Specifications. All work shall be performed in accordance with State and local plumbing codes.

Sanitary sewer service pipe shall be watermain quality PVC SDR 26 meeting the requirements of ASTM D-2241 with O-ring joints per ASTM D-3139.

The Contractor shall be responsible for maintaining the current level of service to all users connected to the existing sanitary sewer. Bypass pumping shall be provided as required.

Connection to new sewer main shall be made with a factory wye fitting.

Connection to an existing sewer main shall be made with a saddle-wye fitting.

Connection shall be made to a structurally sound pipe. Connection to the existing sewer service shall not be made until the District Inspector has verified the structural condition.

RRWRD Connection permits for existing sewer service reconnections will not be required.

The locations of existing sewer service wyes are based upon TV logs and record information, and the proposed service connection at the Right-of-Way or easement line is based upon that location. Should the service alignment, diameter or point of connection vary from that shown in the plans, no claims for additional compensation will be entertained.

10.2 Submittals

1. Pipe, fitting, and repair coupling material specifications.

10.3 Payment

Payment for reconnection of sewer services shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

11 PCC Curb and Gutter Removal / Replacement

11.1 General

This work shall conform to Section 606 of the IDOT *Standard Specifications for Road and Bridge Construction* and IDOT Standard 606001. One-inch (1") Ceramar expansion joint materials with caulking shall be installed at 100' intervals. The Contractor shall remove and replace the entire length of curb and gutter as required or shown on the project location maps; tunneling under the existing curb and gutter will not be permitted. Curb and gutter replacement shall match existing type, line and grade. All curb and gutter replacement shall be inspected and approved by the applicable roadway authority. Connection to the existing curb and gutter shall be made by drilling and epoxy grouting two (2) one-inch (1") diameter smooth dowels 18" long into the existing curb and gutter at mid-depth. This shall be similar to Detail A of IDOT Standard 606001. Curb and gutter shall be saw-cut at the tie-in points.

11.2 Submittals

1. Approved concrete mix design as required by roadway authority.
2. Approved curb and gutter detail drawing as required by roadway authority.

11.3 Payment

Payment for curb and gutter replacement shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

12 Sidewalk Removal / Replacement

12.1 General

This work shall consist of removing and replacing existing PCC sidewalk as required to construct this project. This work shall conform to Sections 424 and 440 of the IDOT *Standard Specifications for Road and Bridge Construction*, Current Edition.

Sidewalk replacement shall match existing width, thickness, line and grade. Sidewalk shall be removed in full panels, tunneling under existing sidewalks will not be permitted. Sub-grade preparation shall be included in the bid price. Sidewalk replacement width shall match existing sidewalk.

12.2 Submittals

1. Approved concrete mix design as required by roadway authority.

12.3 Payment

Payment for removal and replacement of PCC sidewalk shall be included in the Contract lump sum price (LS) for each applicable Collection System Repair.

13 Pavement Removal

13.1 General

This work shall consist of removing existing bituminous and/or PCC roadway pavement and/or driveway pavement as required to construct this project. This work shall conform to Section 440 of the IDOT *Standard Specifications for Road and Bridge Construction* (Current Edition). Pavement shall be saw-cut full depth prior to removal. Areas of removed pavement shall be rectangular in shape.

13.2 Submittals – Not used.

13.3 Payment

Payment for pavement removal shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

14 Dewatering

14.1 General

Contractor shall use all means at his disposal to maintain a dry trench to the satisfaction of the District.

Groundwater will not be allowed to be pumped on existing ground surfaces or pavements where it may cause a traffic nuisance, or into existing sanitary sewers; it shall be discharged to a point acceptable to the District, with all erosion control requirements and specifications taken into account.

Dewatering well points shall require permits issued by the Winnebago County Department of Public Health (Health Department). The installation, operation and removal of well points shall conform to the Health Department requirements. The Health Department shall be notified prior to installing dewatering wells and prior to abandonment of well points so that they may be present if they desire.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be his responsibility to provide any bonds, insurance's, guarantees, etc. as required by said permit. Abandonment of dewatering facilities shall be performed in accordance with pertinent State and County requirements.

If generators are required to run on a twenty-four (24) hour basis, equipment supplied shall be equipped to minimize noise to a level of ninety decibels (90 dB) or less.

14.2 Submittals

1. Copy of permits, as applicable.

14.3 Payment

Payment for dewatering shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

15 Erosion Control

15.1 Erosion Control

The total disturbed area for this project is estimated to be less than 1.0 acre. A Notice of Intent (NOI) and a Storm Water Pollution Prevention Plan (SWPPP) will not be submitted to the IEPA.

The Contractor shall comply with all the requirements of the IEPA Illinois Urban Manual, Current Edition and standard specifications for soil erosion and sediment control contained within. All disturbed areas shall be restored to near original contours and seeded in accordance with District requirements.

The Contractor shall take whatever measures the District deems necessary to eliminate excessive erosion or siltation. This includes but is not limited to: stabilizing slopes with fabric and/or mulch, seeding, sodding, erosion control mat, silt fence installation, inlet protection, rip-rap, etc. Sediment control shall be provided around the perimeter of all stockpile areas.

The Contractor shall keep the road rights-of-way free from all dirt and construction debris at all times during construction. Mud and debris shall be removed daily from roadway surfaces at the end of each workday or as necessary.

The Contractor shall remove and dispose of all temporary erosion control devices within 30 days of final site stabilization and approval by the District.

Erosion control includes all labor, equipment, materials, maintenance and supervision required to provide erosion control as required by the City of Rockford, Rockford Township, City of Loves Park or District.

Silt fence shall be Amoco 2127 or District approved material. Silt fencing shall be installed prior to excavation or stockpiling of materials.

Inlet Protection shall be installed in conformance with IDOT Highway Manual standard 28001-02 for temporary erosion control systems.

15.2 Submittals

1. Material specifications for erosion control products, as applicable.

15.3 Payment

Payment for installed erosion control measures shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

16 Tree Removal and Trimming

16.1 General

The Contractor shall trim and remove only those trees required to complete Collection System Repairs. Tree trimming and removal shall be kept to a minimum. All trees designated by the District to be saved, shall be saved and protected by all means necessary and guaranteed for a period of one year from final acceptance of the project.

Tree removal shall consist of cutting, grubbing, removing and disposing of any trees, stumps and brush, as needed, to properly facilitate construction. Only trees approved by the District for removal shall be removed. This work shall conform to Section 201 of the IDOT *Standard Specifications for Road and Bridge Construction*, Current Edition.

All tree trimming shall be done with a chain-saw or loppers. The District Inspector shall approve all tree removal and trimming.

For tree removal and trimming within the City of Rockford, the Contractor must obtain a Maintenance Permit from the Forestry Department. Contact Taylor Hennelly, taylor.hennelly@rockfordil.gov.

16.2 Submittals

1. Tree Maintenance Permits as applicable.

16.3 Payment

Payment for tree trimming and removal shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

17 Restoration and Seeding

17.1 General

All restoration of public or private property including, but not limited to, fences, sidewalks, driveways, all other slab work, (concrete and asphalt), drainage channels, riprap, fences, turf areas, dry wells, etc. disturbed or damaged as a result of this construction project shall be promptly completed in accordance with public agency requirements or equal or better than the 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 work. Topsoil shall be as specified in T.S. 4:2c (6" minimum thickness).

All drainage devices shall be cleaned of debris and replaced at original elevations. Pipes, which have been, in the estimation of the District, significantly damaged by the Contractor, shall be replaced with new pipe or structures of the same diameter, length and/or type at no added expense to the District. All work shall be to the satisfaction of the District. When necessary, temporary restoration of roads, drives, fences, etc. will be required, all costs incidental.

All work shall be guaranteed against trench subsidence for a period of three (3) years.

Suppliers shall be prepared to certify that laboratory and field testing of their product has been accomplished, and that it meets all of the foregoing requirements based upon such testing.

Guarantee: All seeded areas shall be maintained for at least thirty (30) days after application. Scattered bare spots no larger than two square feet will be allowed up to a maximum of five percent (5%) of any seeded area.

Seeding and Fertilizing

Ground surfaces including rights-of-way and easements that were covered with grass previous to construction shall be seeded according to all applicable specifications and as directed by the District.

The Contractor shall make certain that all disturbed areas have the same depth (6" minimum) and quality of approved topsoil at the surface as existed prior to construction.

The seeding mixture used shall be compatible with the existing ground cover or as indicated under easement requirements and shall be acceptable to the District. Maintainable lawn areas shall be seeded with I.D.O.T. Class I seeding mixture. Existing non-maintained turf areas shall be seeded with I.D.O.T. Class 3-slope mixture or as indicated under specific easement requirements.

Reference is made to the *General Provisions and Technical Specifications for Sanitary Sewer Construction*, T.S. 4:2, for specifications on seeding and sodding and fertilizer, and to Sections 250 and 251 of the I.D.O.T. *Standard Specifications for Road and Bridge Construction* (Current Edition).

Seeding shall be placed on six-inch (6") (minimum) topsoil bed. The District shall approve the locations from which the topsoil is to be obtained. When requested by the District, a sample of the proposed topsoil shall be submitted to the District in a one-quart glass container, completely filled, with a chemical and mechanical analysis of the topsoil by an approved testing laboratory.

Seeding Specification

Seedbed preparation shall be done according to Article 250.05 of the I.D.O.T. *Standard Specifications for Road and Bridge Construction* (Current Edition).

Seeding methods shall follow those mentioned in Article 250.06. Mowing to discourage weed growth will be completed by the Contractor until the project is accepted by the District.

Fertilizer work shall be done in accordance with Article 250.04. Fertilizer shall have an analysis of 10-10-10 and be applied at the rate of 400 lbs./acre. No additional compensation will be allowed.

Straw mulch shall be per Method 2 and done in accordance with the applicable portions of Section 251 of the *Standard Specifications* with the following exceptions:

The rate of application for mulch will be 4,000 lbs./acre using Hydro Tack at a rate of 400 lbs./acre for stabilization. This specification describes a mulch for use with the hydraulic application of grass seed which shall consist of specially prepared wood cellulose fiber. It shall be processed in such a manner that it will not contain any growth or germination-inhibiting factors, and shall be dyed in an appropriate color to facilitate metering of the material. It shall be manufactured in such a manner that after additions and agitations in slurry tanks with fertilizers, grass seeds, water and any other approved additives, the fibers in the material will be come uniformly suspended to form a homogenous slurry, and that when hydraulically sprayed on the ground, the material will form a blotter-like cover impregnated uniformly with grass seed, and which after application will allow the absorption of moisture and percolation of rainfall or mechanical watering of the underlying soil.

The mulch material described above shall be supplied in packages having a gross weight not in excess of 55 pounds. The packages shall be adequately wrapped in paper, polyethylene or other suitable material to prevent loss or spillage during handling. Weight specifications of this

material from suppliers, and for all applications, shall refer only to air dry weight of the fiber material. Absolute air dry weight is based on the normal weight standard of the Institute of the Pulp and Paper Industry for wood cellulose and is considered equivalent to ten percent (10%) moisture. Each package of the cellulose fiber shall be marked by the manufacturer to show the air-dry weight content.

At the direction of the District or other governing agency, the Contractor shall provide steep slope protection over turf areas disturbed by construction in accordance with Sections 251.03 and 251.04 of the *Standard Specifications*.

17.2 Submittals

1. Seed mixtures and fertilizer specifications.

17.3 Payment

Payment for restoration and seeding shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

18 Pavement Restoration

18.1 General

This work shall be in accordance with T.S. 4:3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*, and with the IDOT *Standard Specifications for Road and Bridge Construction* (including Sections 301, 406, and 420) as appropriate to provide new pavement as indicated for each individual repair.

The work shall be performed to the satisfaction of the District and applicable roadway authority. All roadway authorities shall be notified a minimum of forty-eight (48) hours prior to pavement replacement. At the discretion of the District, maintenance and temporary restoration of roads, drives, fences, etc., will be required; this work shall be done by the Contractor without delay.

If 80% or more of the pavement lane width is damaged, the Contractor shall replace the entire lane width.

All pavement edges shall be saw cut full depth. All pavement patches shall be square or rectangular in shape. Contractor shall provide all materials, labor and equipment required to remove and dispose of the existing pavement.

Pavement restoration shall be completed on each Collection System Repair within fourteen (14) days of completion of the repair.

All pavement restoration shall match existing conditions. The Contractor shall be responsible for performing all surveying work necessary to reconstruct the roadway and base course to the lines and grades that existed prior to the project, or as specified herein.

HMA Roadway restoration shall match existing thickness or at a minimum consist of 1.5" of HMA surface course, 2.5" HMA binder course, and 10" of Aggregate Base Course Type B or as required by the roadway authority.

PCC Roadway restoration shall match existing thickness and requirements of the applicable roadway authority.

HMA Drives or Private Roadways shall match existing thickness or at a minimum consist of 2" of HMA surface course and 10" of Aggregate Base Course Type B.

PCC Driveways damaged as a result of construction shall be removed and replaced to match existing thickness or at a minimum consist of 6" of PCC pavement.

HMA Pedestrian/Bike Paths shall match existing thickness or at a minimum consist of 2" of HMA surface course and 10" of Aggregate Base Course, Type B. Full width replacement of damaged bike/walking paths is required.

Vibrating rollers will not be allowed on residential streets. Densities for HMA materials shall be 93% minimum unless otherwise specified by roadway authority or the District.

HMA Materials

All Bituminous pavement replacement shall be constructed in accordance with Section 406 of the I.D.O.T. *Standard Specifications for Road and Bridge Construction* (Current Edition).

Section 406.16 of the IDOT *Standard Specifications* shall be modified to read:

Joins between old and new pavements or between successive day's work or when the temperatures of the previously laid materials drops below 150°, to ensure thorough and continuous bond, the contact surface shall be sprayed or painted with a thin, uniform coating of asphalt: SS1.

Mix designs and materials inspection reports must be submitted and approved by the applicable roadway authority prior to installation.

HMA surface course shall be mixture composition IL 9.5 or IL 12.5, Mix D, N50.

HMA binder course shall be mixture composition IL 19.0, N70.

PCC Roadway Restoration

The Contractor shall replace existing PCC roadway surface including medians as required matching existing Portland Cement Concrete Pavement thickness in accordance with Section 420 of the IDOT *Standard Specifications*. The Contractor shall replace the paved surface as necessary, or as otherwise directed by the District or Roadway Authority. PCC Pavement patching shall be either Class B or Class C Patch per Section 442 of the IDOT *Standard Specifications*. Reference Standard 442101-07 for Class B patches and Standard 442201-03 for Class C patches. Mixture PP-4 or PP-5 as per Article 1020.04 shall be used.

Aggregate Base Course, Type B

Aggregate Base course replacement shall consist of matching existing thickness or placing ten inches (10") minimum thickness, whichever is greater, compacted Aggregate Base Course, Type B, beneath pavement surfaces to be replaced throughout the project area. Ten-inch (10") aggregate base course strata shall consist of new CA-2 in the bottom five inches (5") and new CA-6 in the top five inches (5"). A mixture of sand and clay will not be accepted for base course material. This item shall include all sub-grade preparation throughout the project, as well as the removal and disposal of all excess material.

Contractor shall compact the base course and pay for a sufficient number of compaction tests as determined by the District and Roadway Authority. Compaction tests must be performed as work progresses. All compaction tests must meet 100% of Standard Proctor density, and be performed by an approved independent geotechnical company.

Contractor shall remove and dispose of all excess materials to a location acceptable to the District.

18.2 Submittals

1. HMA and PCC pavement mix designs, as approved by the applicable roadway authority.

18.3 Payment

Payment for pavement restoration shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

19 Utility Relocation

19.1 General

The Contractor shall be responsible for relocation and reconstruction of all utilities, storm sewers, power poles, signs, lights, signals, underground utilities, etc., conflicting with the proposed construction whether temporary or permanent in accordance with G.R. 9.1. The Contractor shall be responsible for support and protection of any utilities in the construction area. All storm sewer removal and replacement shall be approved by the appropriate local authority.

Throughout the course of this project the Contractor shall be responsible for maintaining the current level of service provided by the respective utilities to all properties affected by construction.

Water Main Removal / Replacement and Line Stops

When proposed work requires the removal and replacement of the existing water main, including the installation of line stops, the Contractor shall obtain the permission of the applicable water department, prior to any water main shut off. The Contractor shall notify all water customers affected by a water main shut off at least twenty-four (24) hours in advance, using forms supplied by the water utility.

The Contractor shall meet with water utility personnel at least two (2) days prior to the start of construction to coordinate potential valve shut off patterns and exercise valves or determine that line stops are required to isolate and minimize the water main shut off requirements. Line stops, if required, shall be furnished and installed in accordance with the Water Department requirements and specifications as applicable, including select trench backfill and pavement restoration as required.

If the water main is removed and replaced it shall be replaced with the same size pipe. The replacement pipe shall be ductile iron manufactured in accordance AWWA C151/A21.51 meeting the wall thickness requirements of AWWA C151/A21.50. The pipe shall be centrifugally cast in metal molds and lined in accordance with AWWA C104/A21.4. The replacement water main shall be installed to the same line and grade as the existing water main. The Contractor shall notify the applicable water utility once water service has been restored. Bacteriological sampling shall be done in accordance with the AWWA C651-99 regulations and I.E.P.A. regulation Section 652.203. The appropriate Water Department shall receive a copy of all bacteriological laboratory reports as applicable.

Polyethylene encasement (poly-wrap) shall be furnished and installed on all ductile iron water main, valves, fittings and appurtenances. The work shall be done according to the requirements

of AWWA C105 and the requirements of the City of Rockford Water Division or Love Park Water Department. Tube form poly-wrap is required having 8 mil thickness. Where poly-wrapped water mains join existing unwrapped main the poly-wrap shall be extended at least three (3') feet onto the unwrapped pipe with the ends sealed with adhesive tape. All cuts, tears and damage to the poly-wrap shall be repaired with adhesive tape or with a short section of additional poly-wrap over the damaged area and secured in place.

19.2 Submittals

1. Copies of approved material submittals as required by the applicable utility.

19.3 Payment

Payment for utility relocation shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

20 Safety and Traffic Control

20.1 General

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 obtain all permits required by the governing roadway agencies and shall provide detailed traffic control plans as required and implement and maintain approved traffic control measures, including detour routes, as required. Traffic control and protection shall be in accordance with the current IDOT *Standard Specifications*.

Traffic control plans as required by the applicable local authority shall be submitted prior to the start of construction.

Five-day advance notice of pending roadway closures shall be posted at the job site on signs approved by the Roadway Authority. Detour routes may not utilize local residential streets. The local roadway authority shall approve traffic control plans any and all detours/road closures prior to the start of construction.

20.2 Submittals

1. Copies of approved traffic control plans as required by the appropriate roadway authority.

20.3 Payment

Payment for traffic control and safety measures shall be included in the Contract lump sum (LS) price for each applicable Collection System Repair.

21 Quality Control, Tests and Certification

21.1 General

Low pressure air testing of sanitary sewer will not be required on this project.

All Sanitary Sewer Main Line Repairs on this project shall be inspected by the Rock River Water Reclamation District via internal television inspection for final acceptance. Contractor shall coordinate televising with the District's Inspector.

Televising shall be completed prior removal of bypass pumping and installation of new pavement, but after final installation, backfilling and compaction have been completed.

Any defects identified by the District which may affect the maintenance, integrity or strength of the pipe, including offsets at the pipe transition or sags in the pipe, in the opinion of the District, shall be repaired or replaced by the Contractor at the Contractor's sole expense.

The Contractor shall provide the District a minimum of forty-eight (48) hours advance notice when requesting that a sewer segment be televised.

All new sanitary manholes, except for new doghouse manholes, shall be vacuum tested per ASTM C124493 *Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test* prior to placing into service.

21.2 Submittals – Not used.

21.3 Payment

Payment for quality control, tests and certifications shall be included in the Contract lump sum (LS) price for each Collection System Repair.

Section II
Contract Forms

Proposal

Project: 2018-2019 Collection System Repairs
Capital Project No. 1954

Location: Within public right-of-ways and sanitary sewer easements in the City of Rockford, Rockford Township, and the City of Loves Park

Completion Date: November 30, 2018

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 http://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.

Not to be used for bidding purposes

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	1	LS	Collection System Repair - Brooke Rd & Lapey St.			
2	1	LS	Collection System Repair - Bishop Washington Ave.			
3	1	LS	Collection System Repair - Holland St. & Knowlton St.			
4	1	LS	Collection System Repair - S. 2nd St. Alley			
5	1	LS	Collection System Repair - 1202 Jackson St.			
6	1	LS	Collection System Repair - Jackson St. & Adams St.			
7	1	LS	Collection System Repair - Crosby St & Regan St.			
8	1	LS	Collection System Repair - 1605 Jackson St.			
9	1	LS	Collection System Repair - S. Independence Ave.			
10	1	LS	Collection System Repair - W. Jefferson St. & N. Sunset Ave.			
11	1	LS	Collection System Repair - Park Ave. & N. Winnebago St.			
12	1	LS	Collection System Repair - N. Rockton Ave.			
13	1	LS	Collection System Repair - Marchesano Dr. & Clifton Ave.			
14	1	LS	Collection System Repair - Summerdale Ave. & Glenwood Ave.			
15	1	LS	Collection System Repair - Dresden Ave.			
16	1	LS	Collection System Repair - Pepper Dr. & Kimball Rd.			
17	1	LS	Collection System Repair - Arnold Ave.			
18	1	LS	Collection System Repair - Applewood Ln.; Easement			
19	1	LS	Collection System Repair - Weathervane Ln.			
20	1	LS	Collection System Repair - 5247 Sunbird Dr.			
21	1	LS	Collection System Repair - Brimfield Ln. & Sunbird Dr.			
22	1	LS	Collection System Repair - 6210 Walnut Grove Rd.			
23	1	LS	Collection System Repair - Walnut Grove Rd. & Stellar Dr.			
24	1	LS	Collection System Repair - Basin Dr.; Easement			
25	1	LS	Collection System Repair - Henrietta Ave. & Mulberry St.			
26	1	LS	Collection System Repair - Nina Terrace			
27	1	LS	Collection System Repair - Kent St. & West St.			

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
28	1	LS	Collection System Repair - Montague St. & Church St.			
29	1	LS	Collection System Repair - Sanford St. & Kent St.			
30	1	LS	Collection System Repair - Preston St. & Johnson Ave.			
31	1	LS	Collection System Repair - Chestnut St. & Webster Ave.			
32	1	LS	Collection System Repair - Preston St. & Hinkley Ave.			
33	1	LS	Collection System Repair - Hinkley Ave. & Andrews St.			
34	1	LS	Collection System Repair - Wallis Ave. & Rural St.			
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: 2018-2019 Collection System Repairs, Capital Project No. 1954

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 _____, 20____, 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. Certified payroll reports shall be submitted on industry standard forms such as IDOT Statement of Compliance (Form SBE 348).

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. The completion date for this project shall be November 30, 2018.

11. Liquidated Damages

The amount of liquidated damages shall be \$300.00 per calendar day.

12. 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: _____

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 SURETY

Contractor Firm Name:

By: _____

By: _____ Signature

Attorney-in-Fact

Title

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

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.

Contractor City, State

That _____ (Contractor)

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 _____

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 Oblige, 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 Oblige 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 Oblige 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 Oblige relative to claims made against this Bond.

Signed and Sealed this _____ day of _____, 20____.

CONTRACTOR SURETY

Contractor Firm Name

By: _____
Signature

By: _____
Attorney-in-Fact

Title Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Section III

**Repair List,
Location Maps and
Supporting Information**

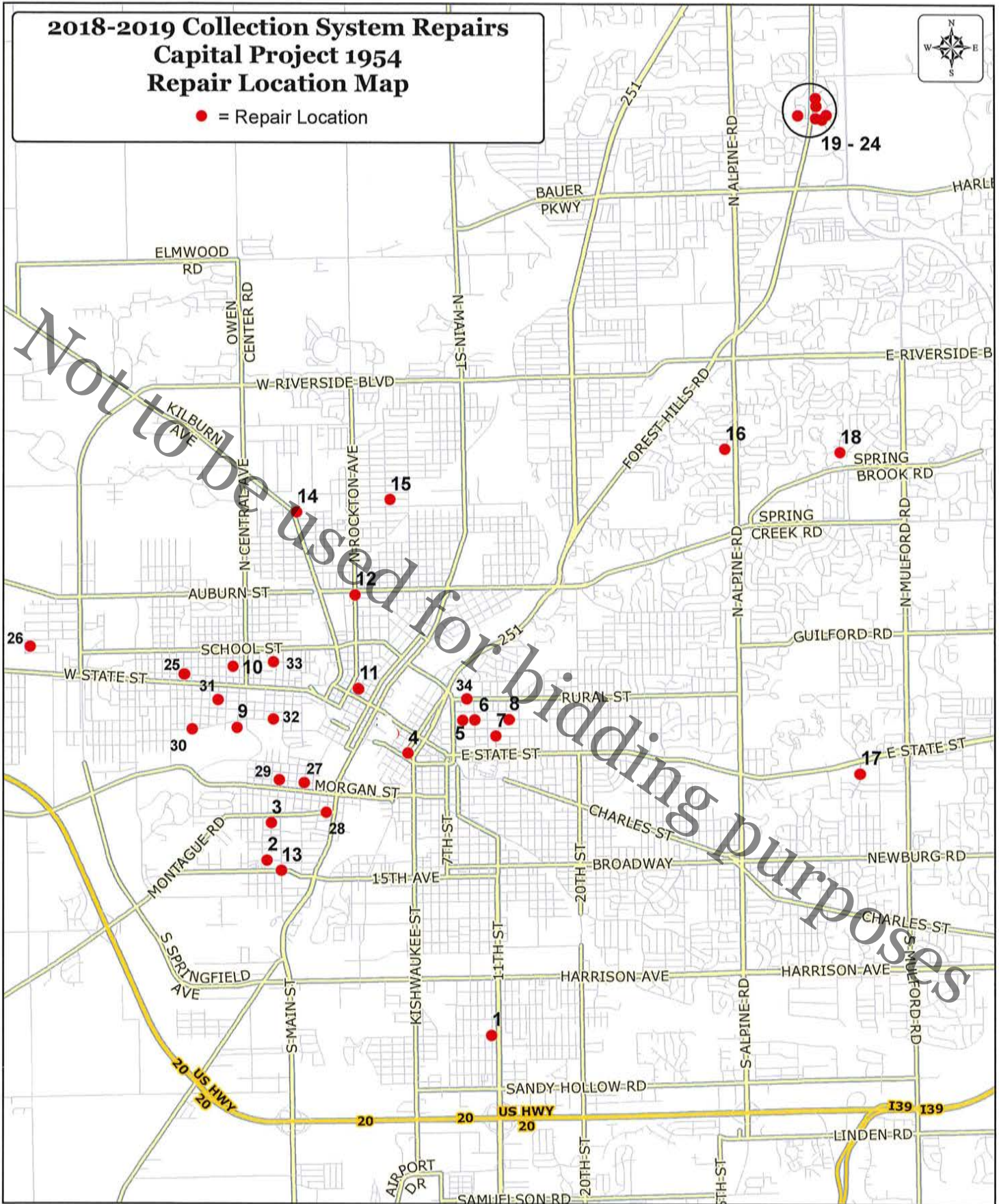
2018-2019 COLLECTION SYSTEM REPAIRS, CAPITAL PROJECT 1954
PROPOSED REPAIR LIST

BID ITEM	LOCATION	ROADWAY AUTHORITY	REPAIR TO/FROM	EXISTING PIPE		LENTH OF REPAIR (FT)	ESTIMATED DEPTH (FT)	MANHOLE REPLACEMENT(S) DIA. / I.D. #	SERVICE REPLACEMENT(S)	COMMENTS
				MATERIAL	DIA. (INCH)					
1	BROOKE RD & LAPEY ST.	CITY OF ROCKFORD	MH REPLACEMENT	CIPP	8	N.A.	8.35	4' DIA - 005-036	N.A.	
2	BISHOP WASHINGTON AVE.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8	N.A.	10.55	4' DIA - 021-042	N.A.	Do not reinstate existing services connected at MH 021-042.
3	HOLLAND ST. & KNOWLTON ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8	N.A.	9.1	4' DIA - 021-067	N.A.	
4	S. 2ND ST. ALLEY	CITY OF ROCKFORD	MH RECONSTRUCTION	VCP	8	N.A.	6.98	RECONSTRUCT 036-051	N.A.	Adjust manhole w/ new frame & lid. Construct new concrete invert.
5	1202 JACKSON ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	24	N.A.	9.3	6' DIA DOGHOUSE - 038-006	N.A.	038-006 is former combination storm/sanitary vault.
6	JACKSON ST. & ADAMS ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	9, 18, 24	N.A.	8.48	6' DIA DOGHOUSE - 038-007	N.A.	038-007 is former combination storm/sanitary vault.
7	CROSBY ST. & REGAN ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP,CIPP	9-VCP; 10-CIPP	N.A.	11.4	5' DIA - 038-015	N.A.	038-015 is former combination storm/sanitary vault.
8	1605 JACKSON ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	12	N.A	8.7	4' DIA - 038-025	N.A.	038-025 is former combination storm/sanitary vault.
9	S. INDEPENDENCE AVE.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	15,9	N.A.	9.82	4' DIA - 044-082 & 044-039	N.A.	Coordinate with City of Rockford Street Department for access to 500 Independence Ave.
10	W. JEFFERSON ST. & N. SUNSET AVE.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	10	N.A.	11.1	4' DIA - 054-054	6" - 1993 Mulberry St.	Replace service to 1993 Mulberry including cleanout at P.L. Connect 7' d/s of 054-054.
11	PARK AVE. & N. WINNEBAGO ST.	CITY OF ROCKFORD	MH 060-106 TO 060-021	VCP	9, 15	11' - 15" DIA	9.7	4' DIA - 060-106 & 060-021	N.A.	Detour Winnebago St. NB traffic on Jefferson to N. Rockton. Maintain SB Traffic through intersection.
12	N. ROCKTON AVE.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	10	N.A.	7.75	4' DIA - 070-136	N.A.	Maintain 11' lane width for NB and SB traffic at all times.
13	MARCHESANO DR. & CLIFTON AVE.	CITY OF ROCKFORD	MH 021-031 TO 021-030	VCP	8, 12	35' - 8" DIA	9.55	4' DIA - 021-031 & 021-030	N.A.	
14	SUMMERDALE AVE. & GLENWOOD AVE.	CITY OF ROCKFORD	150' TO 205' D/S OF EX. MH 077-040; MH REPLACEMNT	VCP	8	55' - 8" DIA	8.2	4' DIA - 077-040	4" - 3121 & 3122 Summerdale Ave.	
15	DRESDEN AVE.	CITY OF ROCKFORD	60' to 100' D/S OF MH 080-051 & C.O. INSTALLATION	CIPP	8	40' - 8" DIA	9.5	N.A.	6" Cleanout @ 2008 Dresden Ave.	
16	PEPPER DR. & KIMBALL RD.	CITY OF ROCKFORD	xx TO xx U/S OF MH 085-027	CIPP	8, 10	26' TOTAL - 10" DIA	16.16	6' DIA - 085-027	N.A.	Salvage removed pipe for District inspection of failed CIPP liner.
17	ARNOLD AVE.	CITY OF ROCKFORD	26' D/S OF 110-071 & 25' U/S OF 110-070	VCP	8	51' TOTAL	9.1	N.A.	N.A.	Maintain 11' lane width for NB and SB traffic at all times.
18	APPLEWOOD LN; EASEMENT	N.A.	145' & 225' D/S OF MH 120-151	PVC	8	30' TOTAL	13.9	N.A.	4" - 3113 & 3121 Applewood Ln.	Service connection only; no cleanout required.
19	WEATHERVANE LN.	CITY OF LOVES PARK	135' to 141' D/S OF MH 140-017	RPM	15	6'	14.4	N.A.	N.A.	
20	5247 SUNBIRD DR	CITY OF LOVES PARK	SERVICE RE-CONNECTION	PVC	8	N.A.	10	N.A.	4" - 5247 Sunbird (Connection only)	Install new saddle wye and connect to existing 4" service.
21	BRIMFIELD LN. & SUNBIRD DR.	CITY OF LOVES PARK	MH 140-073 TO 10' U/S	PVC	8	11' - 8" DIA	9.92	N.A.	N.A.	
22	6210 WALNUT GROVE RD.	CITY OF LOVES PARK	87' TO 110' D/S OF MH 140-081	PVC	8	23'	16.3	N.A.	N.A.	
23	WALNUT GROVE RD. & STELLAR DR.	CITY OF LOVES PARK	MH 140-082 TO 15' U/S	PVC	8	15'	8.1	N.A.	N.A.	
24	BASIN DR.; EASEMENT	CITY OF LOVES PARK	140-088 TO 40' D/S & 150'-171' D/S	PVC	8	61' TOTAL	11	N.A.	4" - Reconnect 5329 Sunbird Dr.	
25	HENRIETTA AVE. & MULBERRY ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8,10	N.A.	8.93	4' DIA - 045-047	N.A.	
26	NINA TERRACE	ROCKFORD TOWNSHIP	281' D/S MH 126-088 TO MH 126-087; MH REPLACEMENT	VCP	8	12' - 8"	9.7	4' DIA - 126-088	4" - 4419 & 4418 Nina Terrace	
27	KENT ST. & WEST ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	9, 12	N.A.	8.52	4' DIA - 032-011	N.A.	Re-route existing 6" diameter gas main. Coordinate relocation of gas with Nicor.
28	MONTAGUE ST. & CHURCH ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP, CIPP	9	N.A.	5.9	4' DIA - 032-059	N.A.	
29	SANFORD ST. & KENT ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	9,10	N.A.	8.73	4' DIA - 033-016	N.A.	
30	PRESTON ST & JOHNSON AVE	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8,12	N.A.	8.6	4' DIA - 043-003	N.A.	
31	CHESTNUT ST & WEBSTER AVE	CITY OF ROCKFORD	MH REPLACEMENT	VCP	9,10	N.A.	8.83	5' DIA INSIDE DROP - 045-015	N.A.	
32	PRESTON ST. & HINKLEY AVE.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8	N.A.	9.53	4' DIA - 044-024	N.A.	
33	HINKLEY AVE. & ANDREWS ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	9	N.A.	5.9	4' DIA - 057-074	N.A.	Do not reinstate existing service connected to manhole.
34	WALLIS AVE. & RURAL ST.	CITY OF ROCKFORD	MH REPLACEMENT	VCP	8,10	N.A.	18.18	5' DIA INSIDE DROP - 047-054	N.A.	

LEGEND
CIPP = CURED IN PLACE PIPE
VCP = VITRIFIED CLAY PIPE
RPM = REINFORCED PLASTIC MORTAR
U/S = UPSTREAM
D/S = DOWNSTREAM
N.A. = NOT APPLICABLE


2018-2019 Collection System Repairs Capital Project 1954 Repair Location Map

● = Repair Location



Legend

Sanitary Sewer

 Manhole

 Gravity Main

 Service

Water Main

 Active

 Abandoned


 Killed


Water Service

 Active

 Abandoned

Water System

 Hydrant

 Water System Valve

 Parcel Ownership

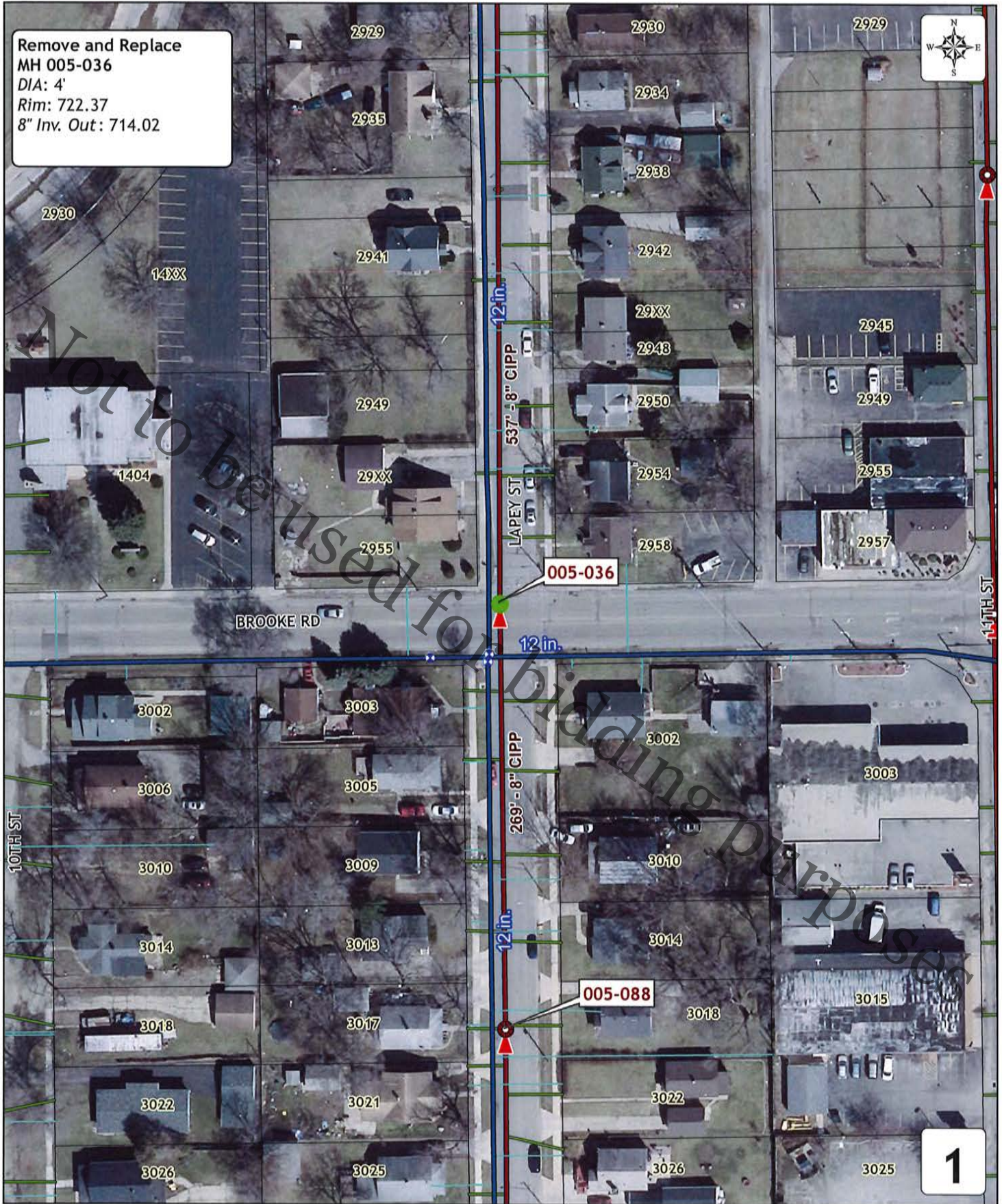
123 House Number

Map ID Number

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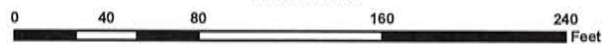
Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.

Remove and Replace
MH 005-036
DIA: 4'
Rim: 722.37
8" Inv. Out: 714.02



Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.

1 inch = 80 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

MH INVERT DATA (GIS)

MH # 005-036

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 722.37

OUT MH 1 (DWNSTRM) 005-038 DEPTH 8.35 714.02

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 005-088 DEPTH HIGH _____ DEPTH LOW 8.25 714.12

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PS 1-11-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 005-036

Date: 1-11-18

Inspector: PJ

Street Address: INT. BROOK RD / LAPEY ST

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<u>RSD</u>	<input checked="" type="checkbox"/>	Low Profile

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input type="checkbox"/>	Flat <input type="checkbox"/>
Block <input type="checkbox"/>	Half <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	$\frac{3}{4}$ <input type="checkbox"/>
None <input type="checkbox"/>	$\frac{1}{4}$ <input checked="" type="checkbox"/>
Other <input type="checkbox"/>	

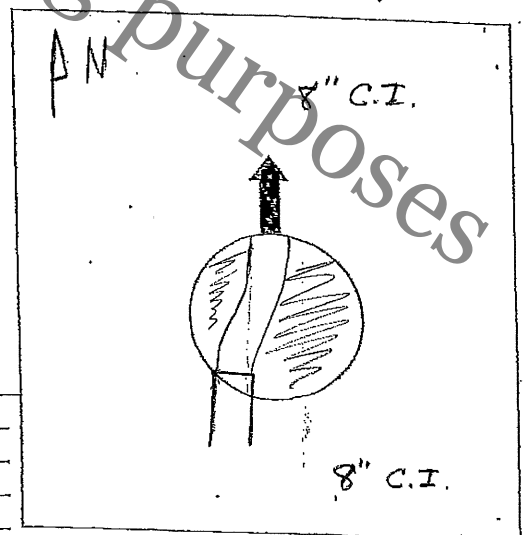
Steps	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>8.4</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

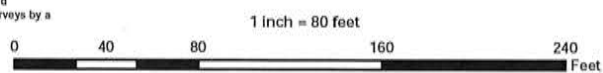
Comments: POOR BRICK BENCH. SEVERAL BRICKS ARE MISSING.



Invert out
Manhole Diagram (Plan View)



Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 021-042

Date: 1-11-18

Inspector: PJ

Street Address: _____

Qualifier / Description: _____

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate <input type="checkbox"/>	Stamped Sanitary <input type="checkbox"/>	Bolt-down <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input type="checkbox"/>
	(2) Open Pickhole <input checked="" type="checkbox"/>	Other <u>SEWER DEPT</u> <input checked="" type="checkbox"/>	Low Profile <input type="checkbox"/>

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>
Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>
Brick <input type="checkbox"/>	$\frac{3}{4}$ <input type="checkbox"/>
None <input type="checkbox"/>	
Other <input type="checkbox"/>	

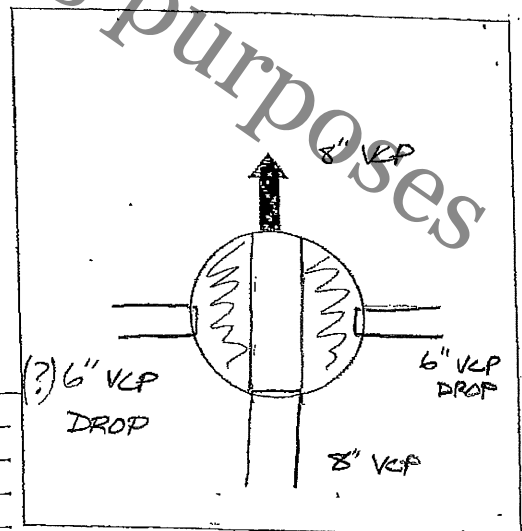
Steps	
Cast Iron <input type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
 Med: 1-5 GPM
 Heavy: 5-10 GPM

Manhole Depth <u>10.5</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments: _____



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 021-042

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 759.40

OUT MH 1 (DWNSTRM) 021-041 DEPTH 10.55 748.85

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 021-043 DEPTH HIGH _____ DEPTH LOW 10.50 748.90

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

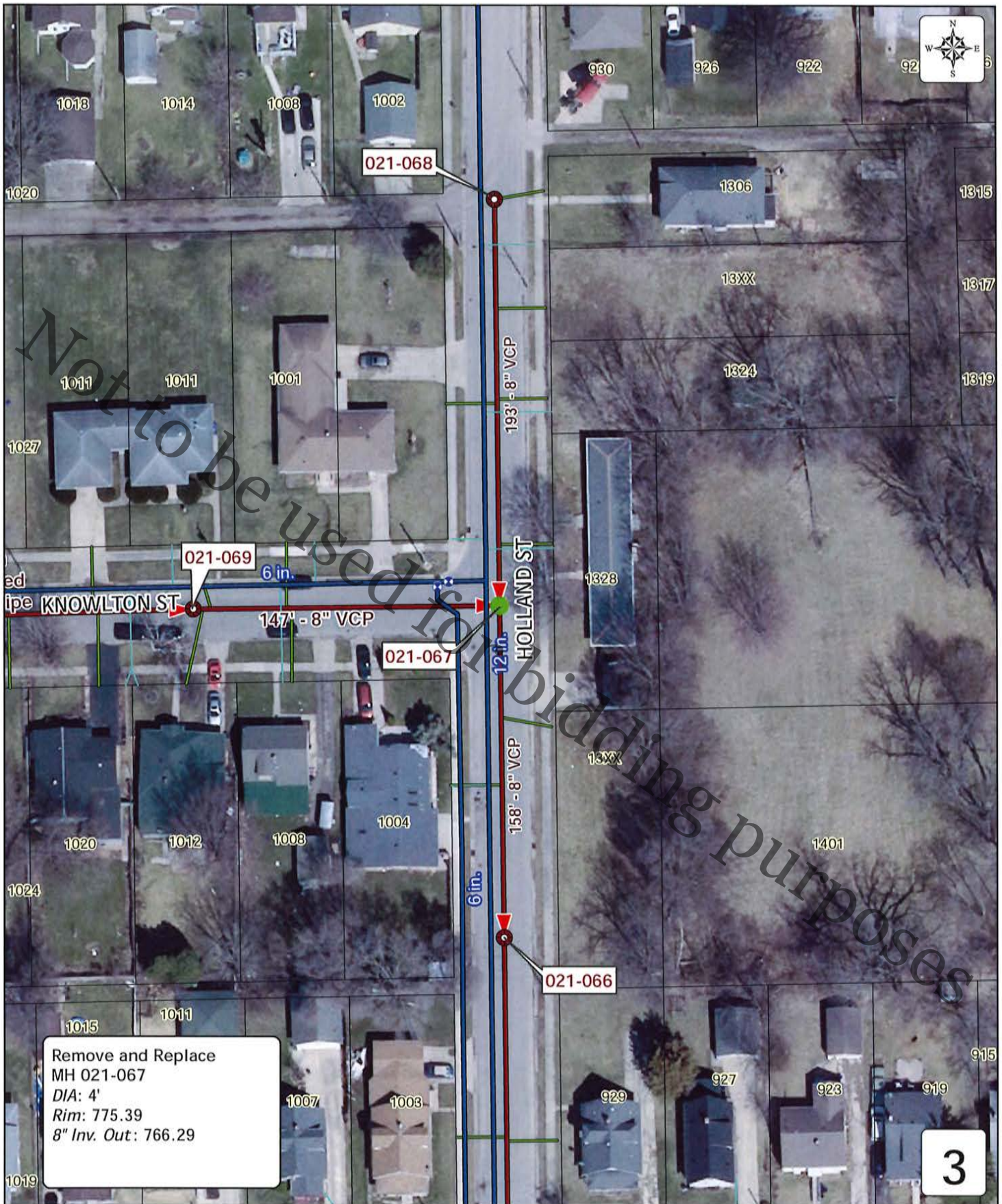
SERV 1 CLOCK POS. 9 ADDRESS 1001 BISHOP WASHINGTON AVE DEPTH 8.60 750.80
(Out being 12:00)

SERV 2 CLOCK POS. 3 ADDRESS XXXX BISHOP WASHINGTON AVE DEPTH 8.90 750.50
(LOT)

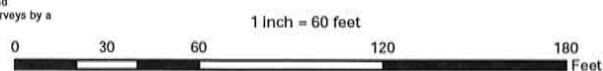
SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-11-18



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 021-067

Date: 1-11-18

Inspector: PJ

Street Address: INT. HOLLAND ST / KNOWLTON ST

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input checked="" type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input checked="" type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input checked="" type="checkbox"/>
	Open Pickhole	<input type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input checked="" type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/>
Other	<input type="checkbox"/>
None	<input type="checkbox"/>

Wall/Base	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/>

Bench	
Concrete	<input type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input type="checkbox"/>
Brick	<input type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/> UNABLE TO SEE - BACKED UP

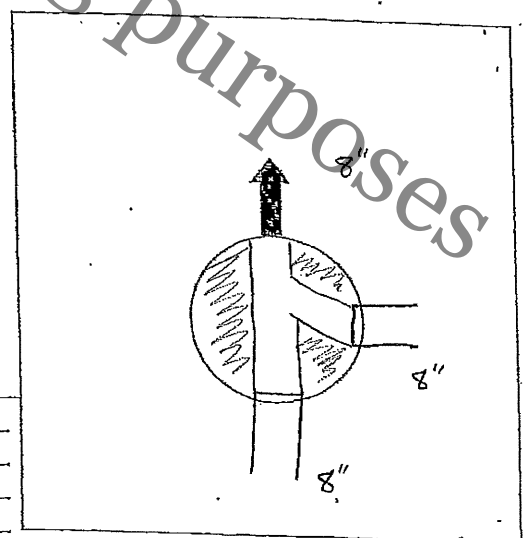
Steps	
Cast Iron	<input type="checkbox"/> Good <input type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input checked="" type="checkbox"/> Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>9.10</u> Feet	Metered Manhole	<input type="checkbox"/>
	Outside Drop	<input type="checkbox"/>
Surcharge Evident: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Inside Drop	<input type="checkbox"/>

Comments: INVERT BACKED UP



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 021-067

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 775.39

OUT MH 1 (DWNSTRM) 021-066 DEPTH 9.10 766.29

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 021-067 DEPTH HIGH _____ DEPTH LOW 9.00 766.39

IN MH 2 (UPSTRM) 021-068 DEPTH HIGH _____ DEPTH LOW 9.10 766.29

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

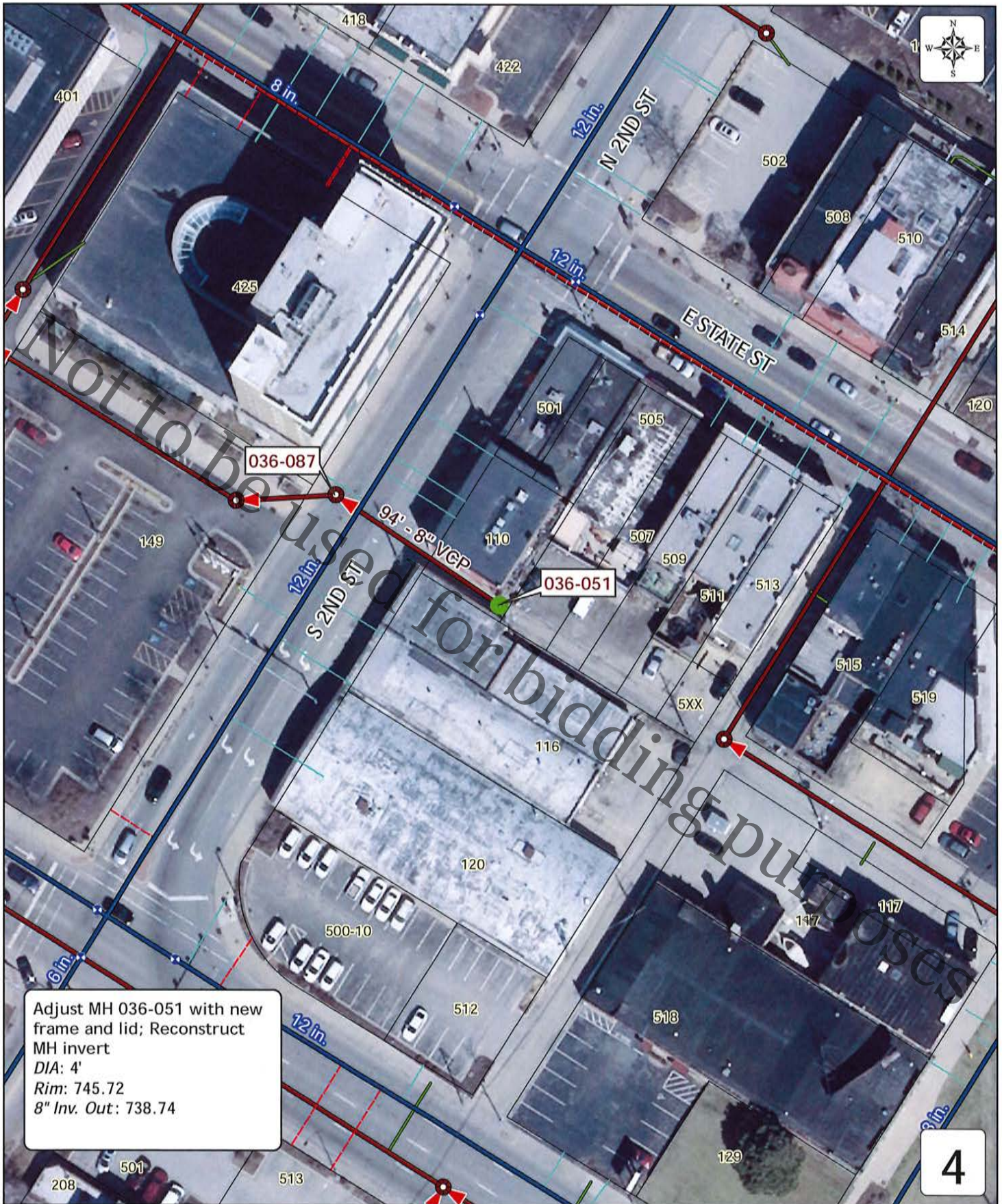
SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

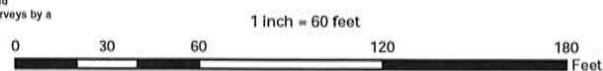
SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-11-18



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By: JMK
 Produced: 5/17/18
 RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 036-051	Inspector: CB/WS	Date: JANUARY 23, 2018
Address/Location: 112 S. 2ND ST (BACK ALLEY)		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/> Concealed Pickhole <input type="checkbox"/> Open Pickhole <input checked="" type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/> No Stamp <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Bolt-down <input type="checkbox"/> Gasket <input type="checkbox"/> Low Profile <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
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Adj. Rings:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	Cone:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Flat Top <input type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> Coating <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
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Bench:	Conc. <input checked="" type="checkbox"/> Block <input type="checkbox"/> Brick <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Flat <input type="checkbox"/> Half <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Infiltr:	Low <input checked="" type="checkbox"/> Med <input type="checkbox"/> Heavy <input type="checkbox"/> None <input type="checkbox"/>
			1 st < 30" from Rim	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>
			Last < 24" from Bench	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Cone	<input checked="" type="checkbox"/>
						Wall	<input type="checkbox"/>
						Bench	<input type="checkbox"/>

GPS Rim Elev: 145.72	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input type="checkbox"/>
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In MH 1 (Upstrm)	Depth High:	Elev:	Depth Low:	Elev:
In MH 2 (Upstrm)	Depth High:	Elev:	Depth Low:	Elev:
In MH 3 (Upstrm)	Depth High:	Elev:	Depth Low:	Elev:

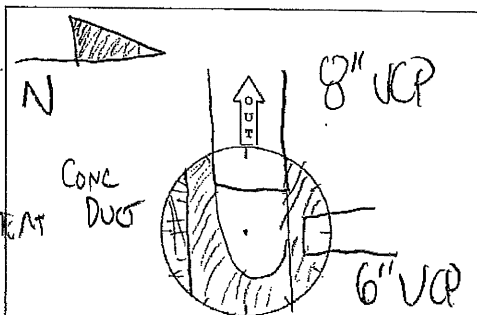
Serv 1 Clock Pos: 3	Address: 112 S. 2ND ST
Depth High:	Elev: 738.74
Serv 2 Clock Pos:	Address:
Depth High:	Elev:
Serv 3 Clock Pos:	Address:
Depth High:	Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) 036-087	Depth: 8.67	Elev: 737.05
Out MH 2 (Dwnstrm)	Depth:	Elev:

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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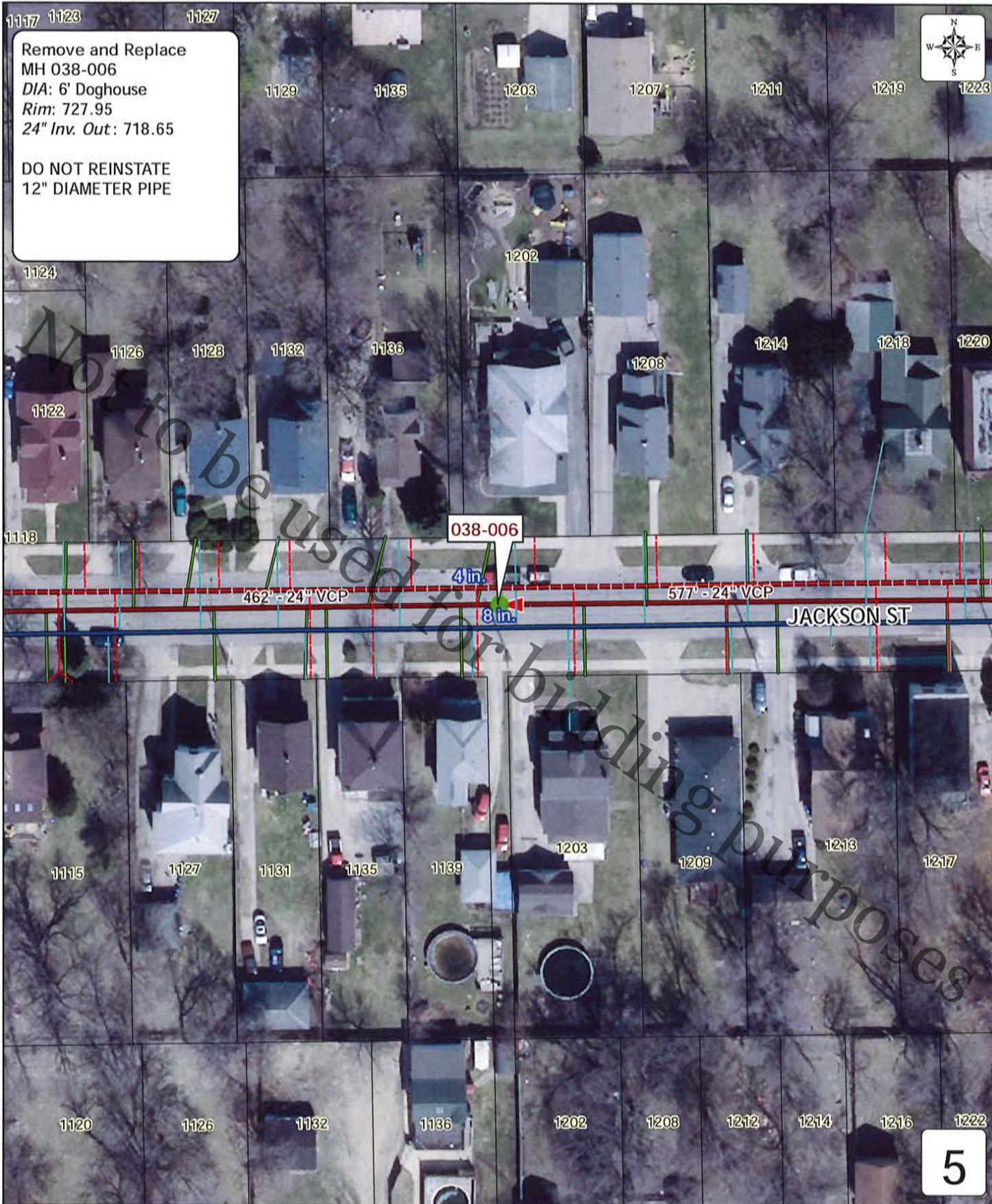
Comments: LIGHT ROOTS INFILTRATION THROUGH ADJUSTMENT AND CONC. CONCRETE OUT BANK RUNNING E/W ± 2.7 DOWN FROM RIM, ABANDONED VCP TROUGH UP ON CONCRETE BENCH ON SOUTH SIDE OF MH RUNNING E/W



File Name/Location: Revised 01/2018

OPEN PICKHOLE UNSTAMPED (IN) LOOSE BRICKS IN CONE 13' OFF 112 S. 2ND ST. GOOD CANDIDATE FOR REPLACEMENT





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1 inch = 60 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>038-006</u>	Inspector: <u>PJ</u>	Date: <u>1-25-18</u>
Address/Location: <u>1139 JACKSON ST</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input type="checkbox"/>	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Qty Size	Block <input type="checkbox"/>	Poor <input type="checkbox"/>	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>		Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input checked="" type="checkbox"/>		Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input type="checkbox"/>	Flat <input checked="" type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>	Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input checked="" type="checkbox"/>	UNKNOWN	1st < 30" from Rim	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>		Last < 24" from Bench	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>727.95</u>	MH Diameter: <u>6' OVAL</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm)	<u>038-007</u>	Depth High: _____	Elev: _____	Depth Low: <u>9.31</u>	Elev: <u>718.64</u>
In MH 2 (Upstrm)	<u>? NORTH</u>	Depth High: _____	Elev: _____	Depth Low: <u>6.25</u>	Elev: <u>721.70</u>
In MH 3 (Upstrm)	<u>? SOUTH</u>	Depth High: _____	Elev: _____	Depth Low: <u>6.50</u>	Elev: <u>721.45</u>

Serv 1 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

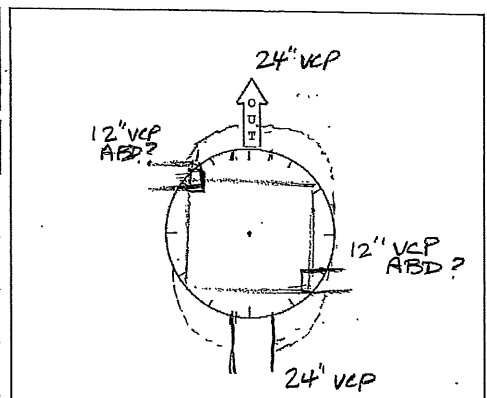
Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm)	<u>038-001</u>	Depth: <u>9.32</u>	Elev: <u>718.63</u>
Out MH 2 (Dwnstrm)	_____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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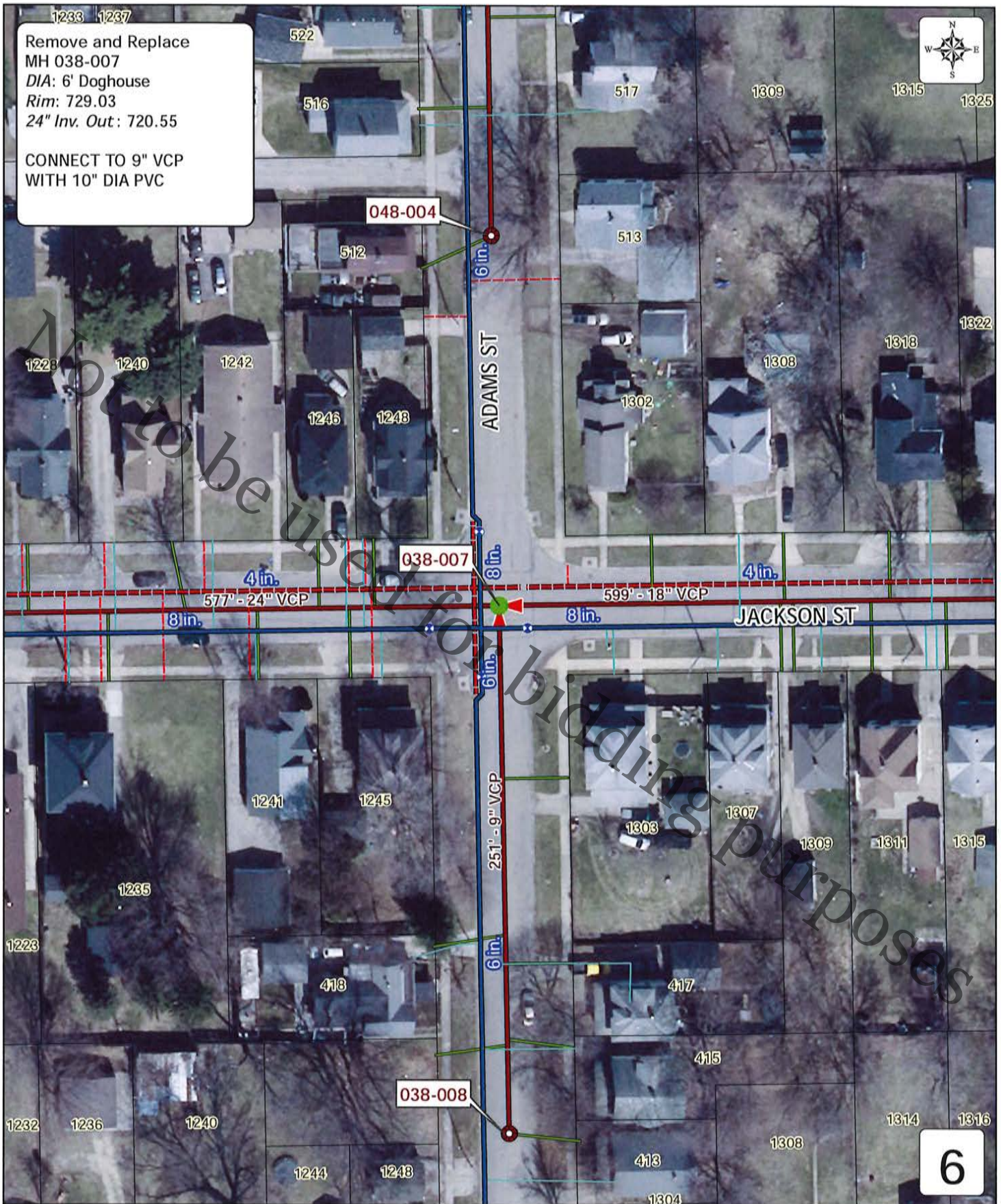
Comments: 3' x 4' BRICK CHAMBER

12" CLAY LINES POSSIBLE OLD COMBINED SAN/STORM

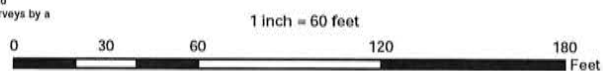




Not to be used for bidding purposes



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 038-007	Inspector: PJ	Date: 1-25-18
Address/Location: INT. OF JACKSON ST / ADAMS ST		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/> Concealed Pickhole <input checked="" type="checkbox"/> Open Pickhole <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/> No Stamp <input type="checkbox"/> Other <input type="checkbox"/>	Bolt-down <input type="checkbox"/> Gasket <input checked="" type="checkbox"/> Low Profile <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
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Adj. Rings:	Qty: 1 Size: 2"	Precast <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Flat Top <input type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> Coating <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
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Bench:	Conc. <input type="checkbox"/> Block <input type="checkbox"/> Brick <input type="checkbox"/> Other <input checked="" type="checkbox"/> None <input type="checkbox"/>	Flat <input checked="" type="checkbox"/> Half <input type="checkbox"/> 3/4 <input type="checkbox"/> UNKNOWN	Steps:	Cast Iron <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
						Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 729.03	MH Diameter: 6' OVAL	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm)	038-009	Depth High:	Elev:	Depth Low:	8.45	Elev:	720.58
In MH 2 (Upstrm)	038-006	Depth High:	Elev:	Depth Low:	7.85	Elev:	721.18
In MH 3 (Upstrm)		Depth High:	Elev:	Depth Low:		Elev:	

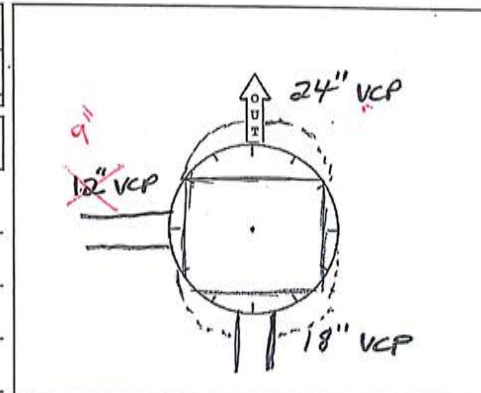
Serv 1 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 2 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 3 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm)	038-006	Depth:	8.48	Elev:	720.55
Out MH 2 (Dwnstrm)		Depth:		Elev:	

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

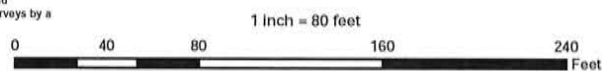
Comments: 4' x 5' BRICK CHAMBER







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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

MH INVERT DATA (GIS)

MH # 038-015

DIAMETER 4x3 VAULT

MATERIAL BRICK

GPS RIM ELEVATION: 755.73

OUT MH 1 (DWNSTRM) 038-013 DEPTH 11.40 744.33

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 038-035 DEPTH HIGH _____ DEPTH LOW 11.05 744.68

IN MH 2 (UPSTRM) 038-018 DEPTH HIGH 9.45 ^{746.28} DEPTH LOW 10.95 ^{744.78} - OUTSIDE DROP

IN MH 3 (UPSTRM) 038-016 DEPTH HIGH _____ DEPTH LOW 9.00 ^{746.73} - DROP

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-12-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 038-015

Date: 1-12-18

Inspector: PS

Street Address: 1430 CROSBY ST INT. CROSBY/REGAN

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input checked="" type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input checked="" type="checkbox"/>	Flat <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Half <input type="checkbox"/>
Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>
None <input type="checkbox"/>	
Other <input type="checkbox"/>	

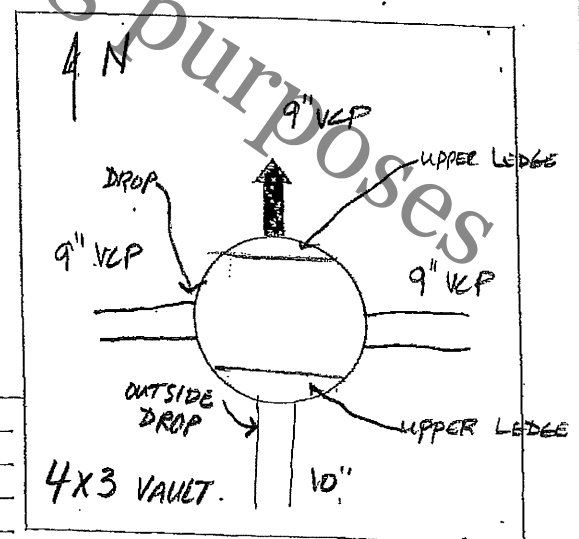
Steps	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

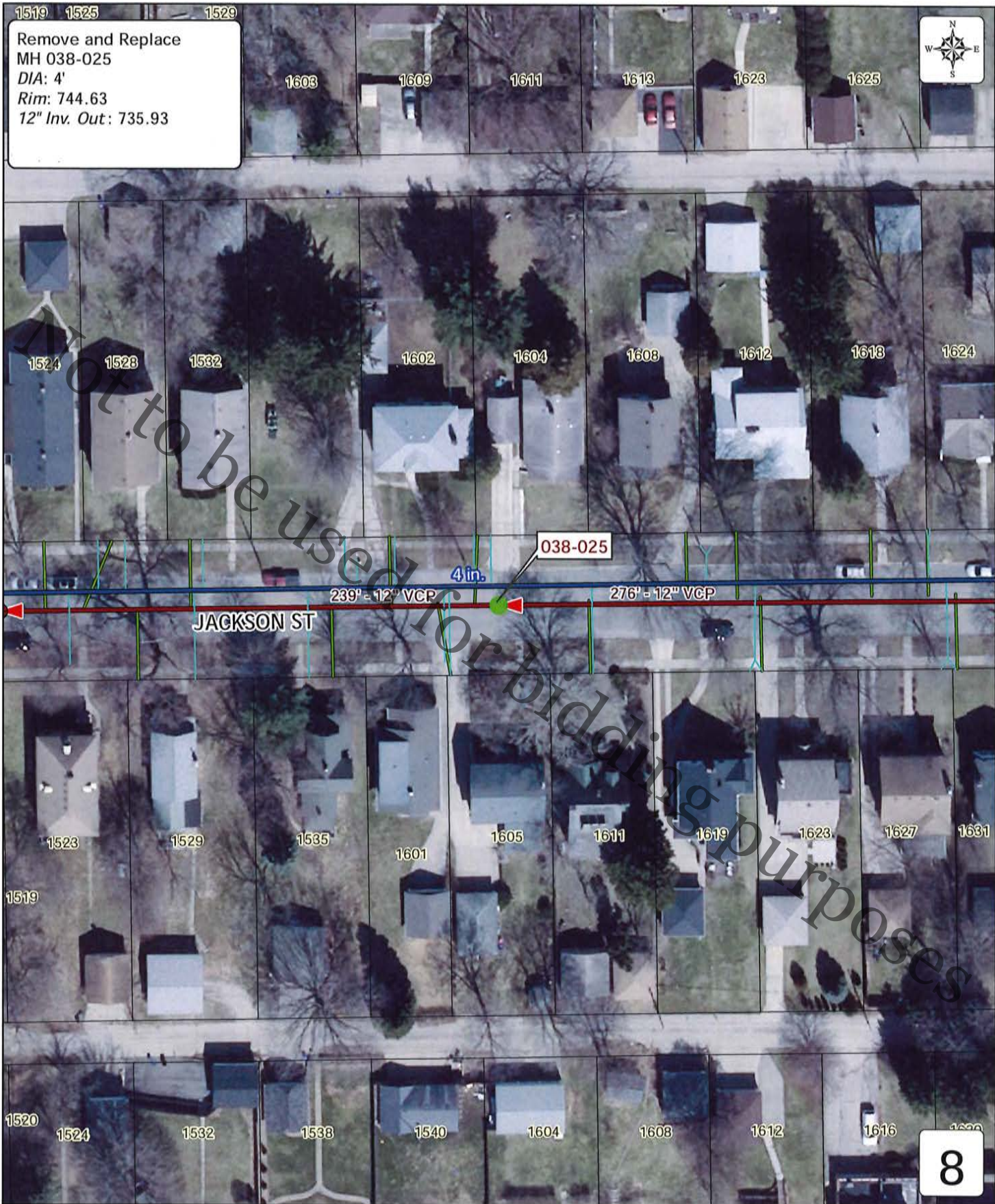
Manhole Depth <u>11.5</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop <input checked="" type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments:

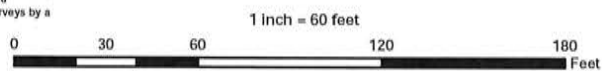


Invert out
Manhole Diagram (Plan View)





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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 038-025	Inspector: PJ	Date: 1-25-18
Address/Location: 1605 JACKSON ST		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings: Qty 1 Size 3"	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input type="checkbox"/>	Flat <input checked="" type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input checked="" type="checkbox"/>	UNKNOWN		1 st < 30" from Rim Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 744.63	MH Diameter: 6' OVAL	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	-----------------------------	---

In MH 1 (Upstrm) 038-064	Depth High: _____	Elev: _____	Depth Low: 8.64	Elev: 735.99
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

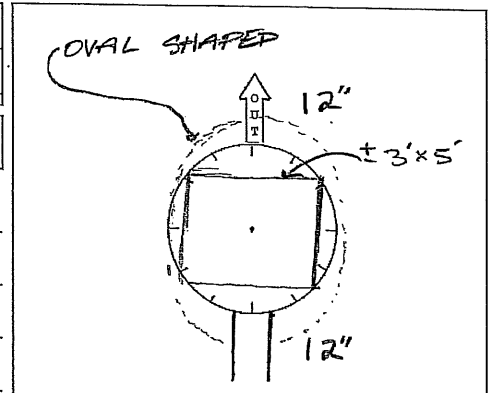
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

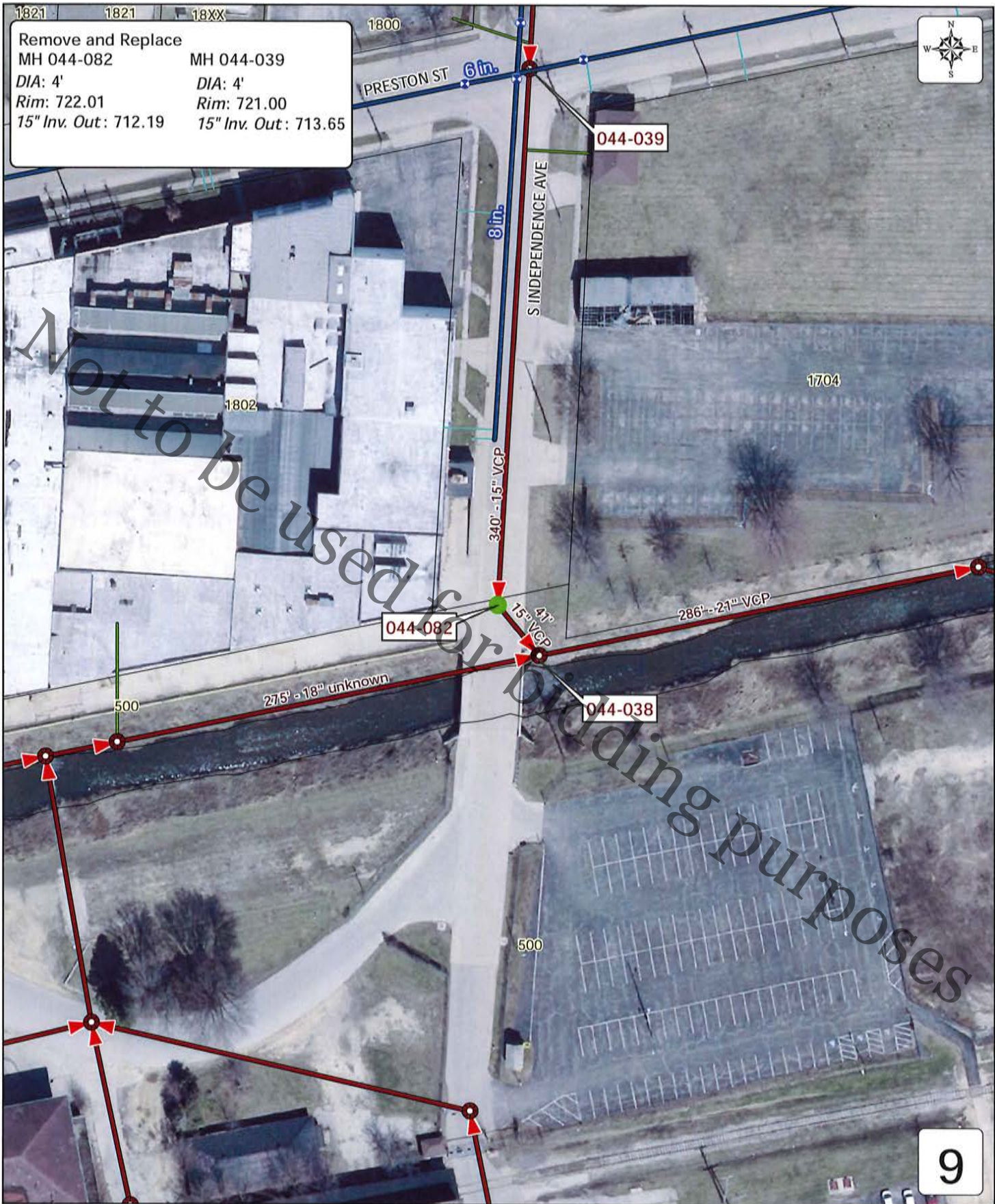
Out MH 1 (Dwnstrm) 038-063	Depth: 8.70	Elev: 735.93
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: NO INVERT. ± 3'x5' CHAMBER
SEVERAL LOOSE BRICKS @ TOP OF CONE.







MH INVERT DATA (GIS)

MH # 044-082

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 722.01

OUT MH 1 (DWNSTRM) 044-038 DEPTH 9.82 (712.19)

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 044-038 DEPTH HIGH _____ DEPTH LOW 9.82 (712.19)

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date CB/RJ 1-10-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 044-082

Date: January 10, 2018

Street Address: INDEPENDENCE AVENUE JUST SOUTH OF PRESTON ST

Inspector: CB/PJ

Qualifier / Description:

Surface Cover: Asphalt ☐ Concrete ☒ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding: Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input checked="" type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input checked="" type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input checked="" type="checkbox"/>
	Open Pickhole	<input type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input checked="" type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/>
Other	<input type="checkbox"/>
None	<input type="checkbox"/>

Wall/Base	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/>

Bench	
Concrete	<input type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input checked="" type="checkbox"/>
Brick	<input checked="" type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/>
Other	<input type="checkbox"/>

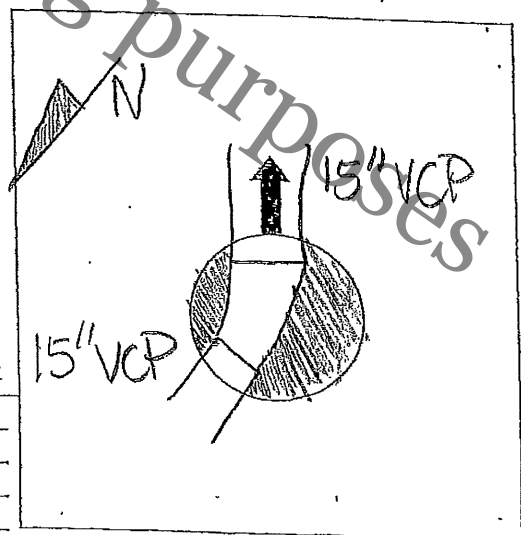
Steps	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

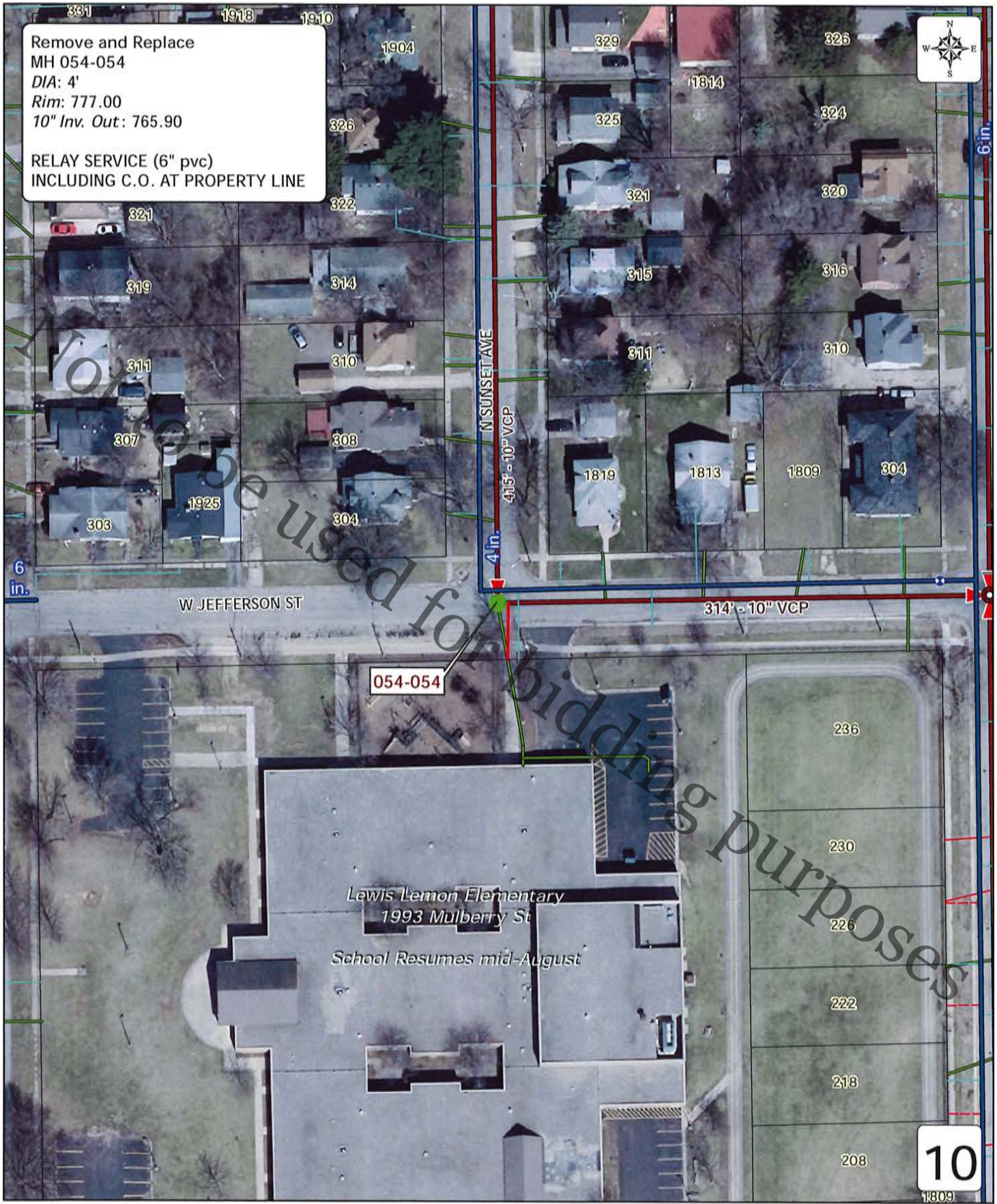
Low: 0-1 GPM
 Med: 1-5 GPM
 Heavy: 5-10 GPM

Manhole Depth <u>9.8'</u> Feet	Metered Manhole
	Outside Drop
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Inside Drop

Comments: BRICK MH IS CRUMBLING AND ±.8' OF SLOGE AND PLASTIC WRAPPERS. NO STEPS AND SLOD BRICKS. FLOW IS BACKED UP.



Invert out
Manhole Diagram (Plan View)



Remove and Replace
MH 054-054
DIA: 4'
Rim: 777.00
10" Inv. Out: 765.90

RELAY SERVICE (6" pvc)
INCLUDING C.O. AT PROPERTY LINE



6 in.

6 in.

N SUNSET AVE

415' - 10" VCP

W JEFFERSON ST

314' - 10" VCP

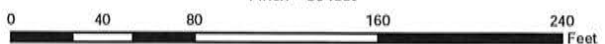
054-054

Lewis Lemon Elementary
1993 Mulberry St
School Resumes mid-August

10

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1 inch = 80 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

MH INVERT DATA (GIS)

MH # 054-054

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 777.00

OUT MH 1 (DWNSTRM) 054-042 DEPTH 11.10 765.90

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 054-055 DEPTH HIGH _____ DEPTH LOW 11.05 765.95

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. 3 ADDRESS 1993 W. JEFFERSON ST DEPTH 10.65 766.35
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PS 1-12-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 054-054

Date: 1-12-18

Inspector: PJ

Street Address: 304 N SUNSET AVE

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input checked="" type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input checked="" type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input checked="" type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/>
Other	<input type="checkbox"/>
None	<input type="checkbox"/>

Wall/Base	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/> UNKNOWN - CAN'T SEE

Bench	
Concrete	<input checked="" type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/>
Other	<input type="checkbox"/>

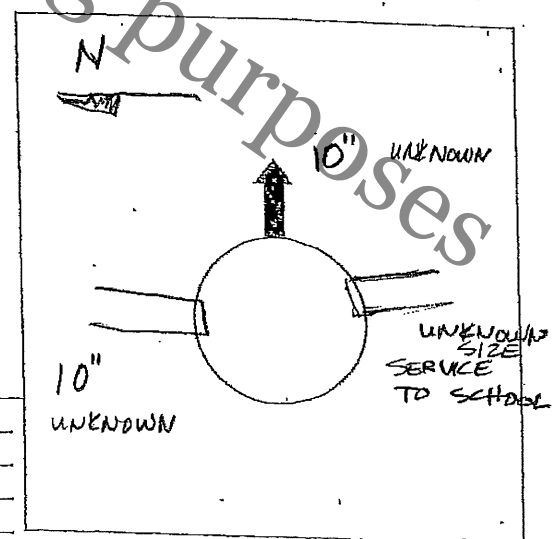
Steps	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls - UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>11.10</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments: UNABLE TO BASE.



Invert out
Manhole Diagram (Plan View)

Remove and Replace

MH 060-106

DIA: 4'

Rim: 733.72

15" Inv. Out: 724.02

MH 060-021

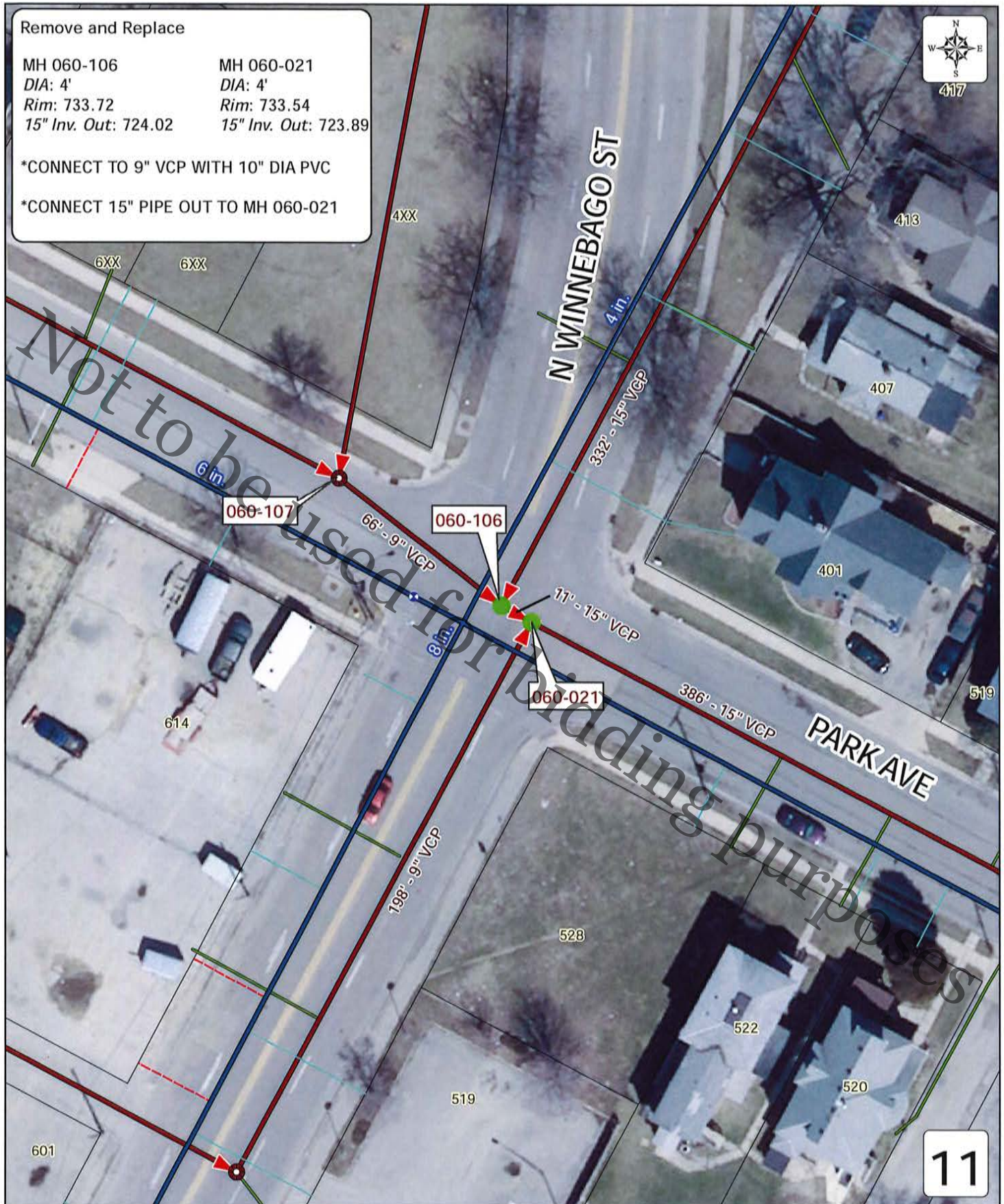
DIA: 4'

Rim: 733.54

15" Inv. Out: 723.89

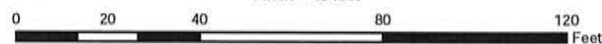
*CONNECT TO 9" VCP WITH 10" DIA PVC

*CONNECT 15" PIPE OUT TO MH 060-021



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1 inch = 40 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 060-106

Date: 1-12-18

Inspector: PJ

Street Address: ENT. OF N. WINNEBAGO / PARK AVE

Qualifier / Description: _____

Surface Cover: Asphalt ☐ Concrete ☒ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding: Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input checked="" type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input checked="" type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Wall/Base	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/> Good <input type="checkbox"/>

Bench	
Concrete	<input checked="" type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input type="checkbox"/>
Brick	<input type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/> 1/2 <input checked="" type="checkbox"/>
Other	<input type="checkbox"/> Good <input type="checkbox"/>

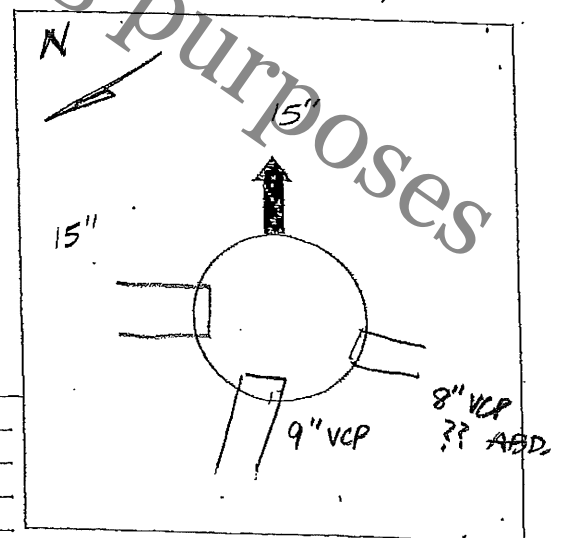
Steps	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>9.7</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments: DEBRIS IN INVERTS. UNABLE TO SEE BOTTOM.



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 060-106

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 733.72

OUT MH 1 (DWNSTRM) 060-021 DEPTH 9.70 724.02

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 060-107 DEPTH HIGH _____ DEPTH LOW 9.40 724.32

IN MH 2 (UPSTRM) 060-024 DEPTH HIGH _____ DEPTH LOW 9.70 724.62

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. 4 ADDRESS UNKNOWN ABD DEPTH ± 8.55 725.17
(Out being 12:00) (BULKHEAD)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-12-16

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>060-021</u>	Inspector: <u>PJ</u>	Date: <u>5-9-18</u>
Address/Location: <u>INT. WINNEBAGOST PARK AVE</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/> Concealed Pickhole <input type="checkbox"/> Open Pickhole <input checked="" type="checkbox"/>	Sanitary Stamp <input type="checkbox"/> No Stamp <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Bolt-down <input type="checkbox"/> Gasket <input type="checkbox"/> Low Profile <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
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Adj. Rings:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	Cone:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Flat Top <input type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> Coating <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
--------------------	--	--	--------------	--	---	---------------------	---	---

Bench:	Conc. <input checked="" type="checkbox"/> Block <input type="checkbox"/> Brick <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Flat <input type="checkbox"/> Half <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
						Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>733.54</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(W)	In MH 1 (Upstrm) <u>060-106</u>	Depth High: _____	Elev: _____	Depth Low: <u>9.60</u>	Elev: <u>723.94</u>
(S)	In MH 2 (Upstrm) <u>060-022</u>	Depth High: _____	Elev: _____	Depth Low: <u>9.40</u>	Elev: <u>724.14</u>
	In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

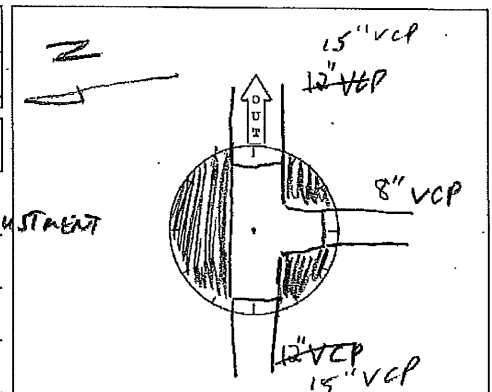
Serv 1 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>060-009</u>	Depth: <u>9.65</u>	Elev: <u>723.89</u>	
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____	

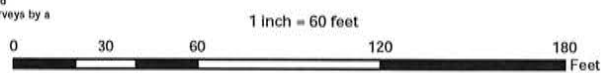
Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
---	--	---

Comments: LOOSE BRICKS @ TOP OF CONE / ADJUSTMENT





Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

MH INVERT DATA (GIS)

MH # 070-136

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 743.63

OUT MH 1 (DWNSTRM) 070-105 DEPTH 7.75 735.88

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 070-102 DEPTH HIGH _____ DEPTH LOW 7.65 735.98

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-12-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 070-136

Date: 1-12-18

Inspector: PJ

Street Address: SOUTH OF ALBURN ST/ W. ROCKTON AVE INT.

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate <input type="checkbox"/>	Stamped Sanitary <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>
Block <input checked="" type="checkbox"/>	Half <input checked="" type="checkbox"/>
Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>
None <input type="checkbox"/>	
Other <input type="checkbox"/>	

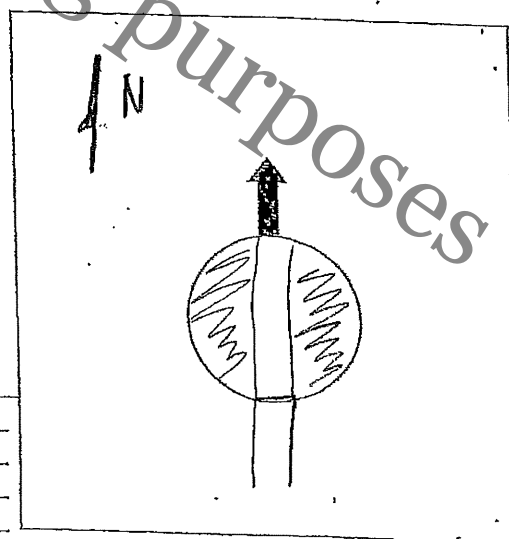
Steps	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

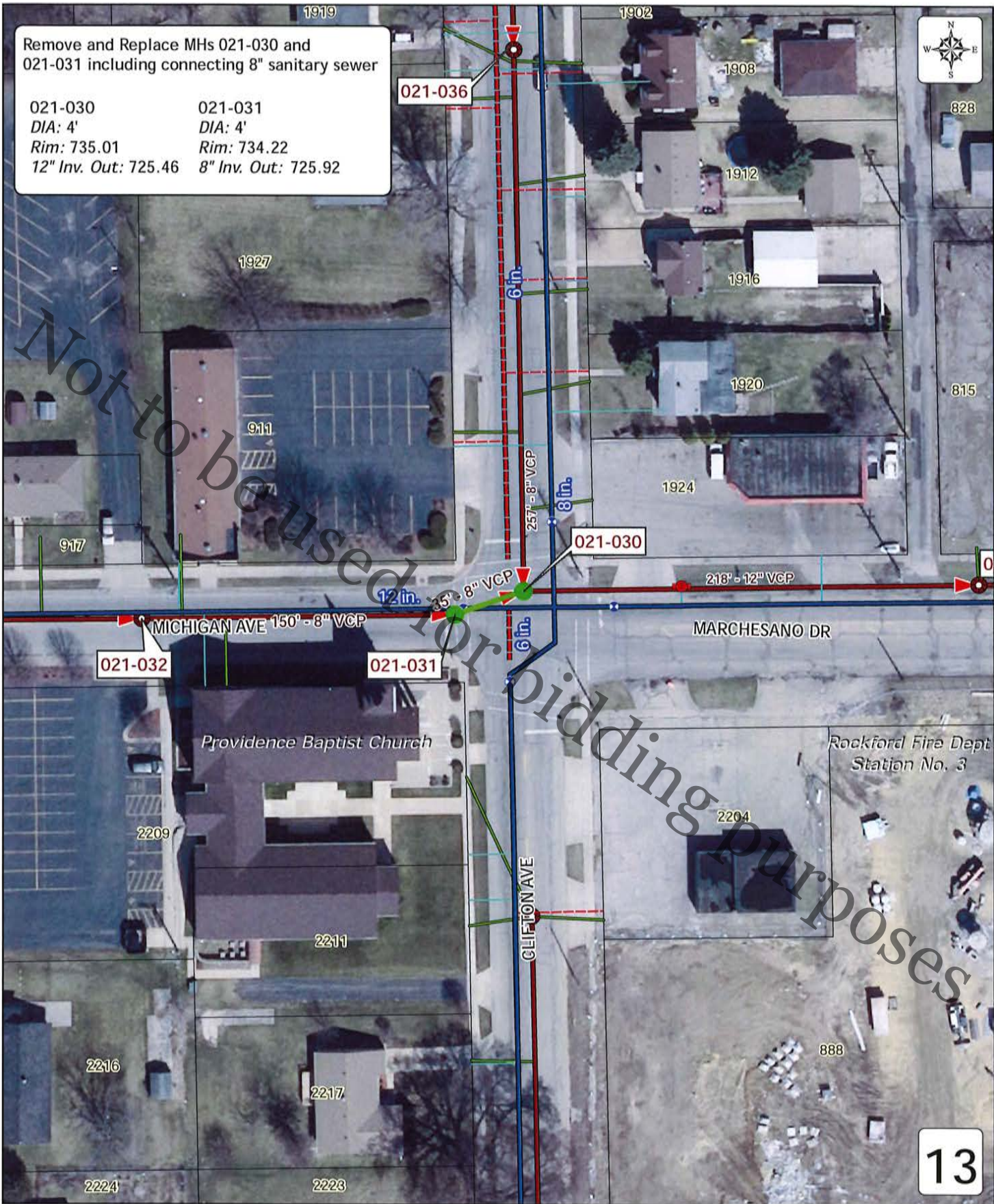
Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>7.8</u> Feet	Metered Manhole <input type="checkbox"/>
	Outside Drop <input type="checkbox"/>
Surcharge Evident: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Inside Drop <input type="checkbox"/>

Comments: SIGNIF. DEBRIS IN INV.
PLASTIC WEDGE @ SOUTH SIDE CASTING



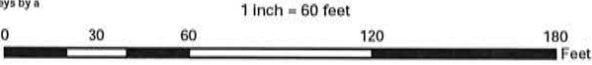
Invert out
Manhole Diagram (Plan View)



Remove and Replace MHs 021-030 and 021-031 including connecting 8" sanitary sewer

021-030	021-031
DIA: 4'	DIA: 4'
Rim: 735.01	Rim: 734.22
12" Inv. Out: 725.46	8" Inv. Out: 725.92

Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>021-031</u>	Inspector: <u>CB</u>	Date: <u>FEBRUARY 21, 2018</u>
Address/Location: <u>IM OF CLIFTON AVENUE AND MICHIGAN AVENUE</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>		Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Qty <u>3</u> Size <u>Round</u>	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Cone:	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input checked="" type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>	Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>		1" < 30" from Rim	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>		Last < 24" from Bench	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>734.22</u>	MH Diameter: <u>41</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm) <u>021-032</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.22</u>	Elev: <u>726.00</u>
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

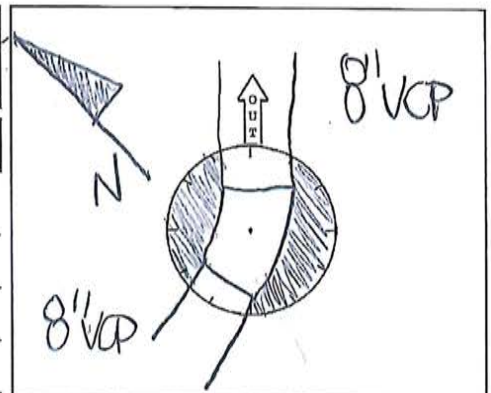
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>021-030</u>	Depth: <u>8.30</u>	Elev: <u>725.92</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: LOOSE AND MISSING BRICKS IN ADJUSTMENT
AND CONE



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>021-030</u>	Inspector: <u>CB</u>	Date: <u>FEBRUARY 21 2016</u>
Address/Location: <u>INT OF CLIFTON AVENUE AND MARCHESANO DRIVE</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>		Precast <input type="checkbox"/>	Good <input type="checkbox"/>		Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Qty	Size			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
2	24"			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>		Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>		Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1" < 30" from Rim Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>735.01</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(N) In MH 1 (Upstrm) <u>021-036</u>	Depth High: _____	Elev: _____	Depth Low: <u>9.45</u>	Elev: <u>725.56</u>
(SW) In MH 2 (Upstrm) <u>021-031</u>	Depth High: _____	Elev: _____	Depth Low: <u>9.37</u>	Elev: <u>725.64</u>
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

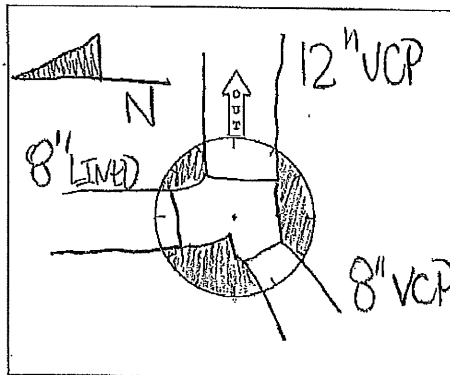
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

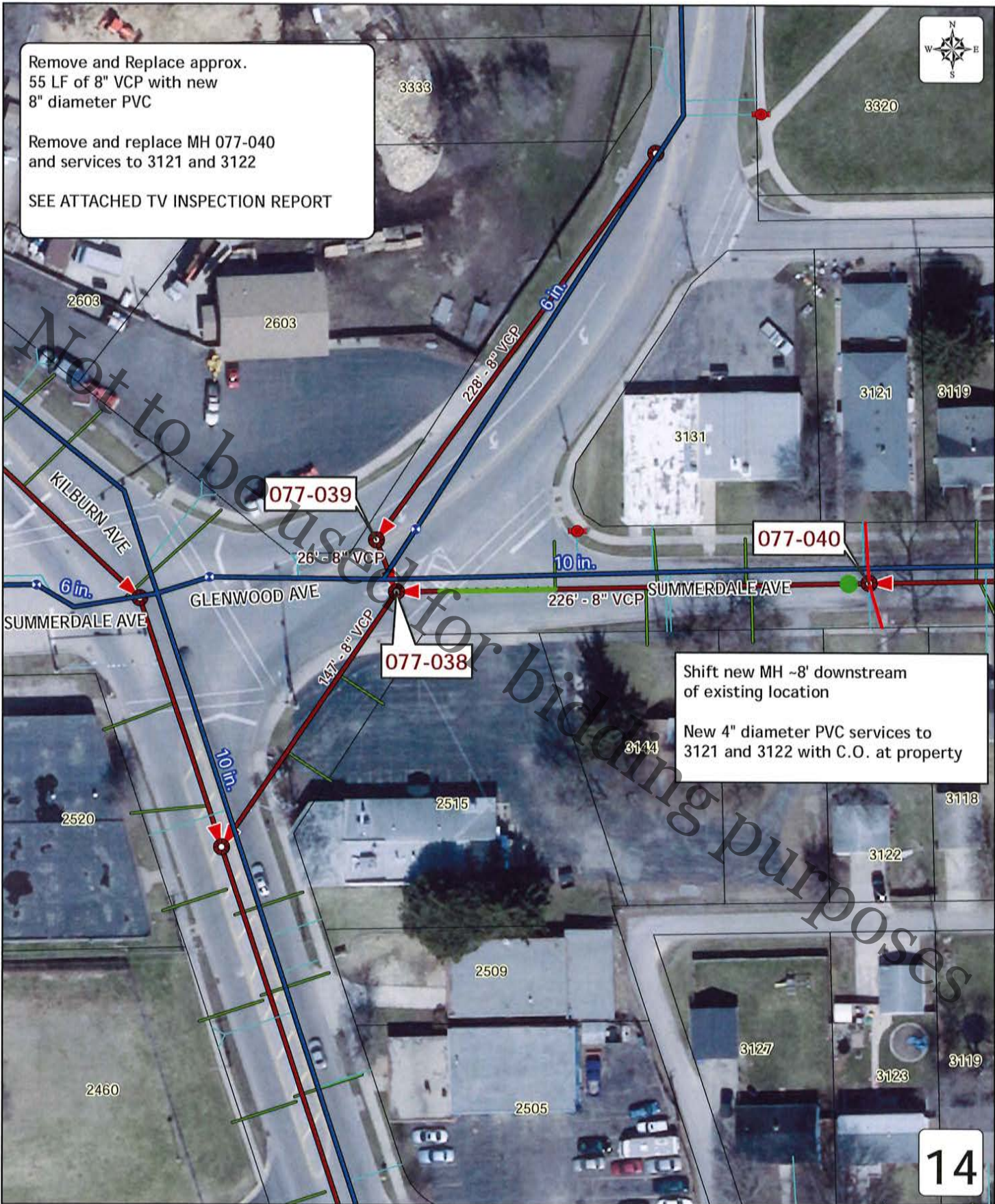
Out is considered 12:00 and service clock position shall be given from 12:00.

(CB) Out MH 1 (Dwnstrm) <u>021-028</u>	Depth: <u>9.55</u>	Elev: <u>725.46</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: LOOSE BRICKS IN ADJUSTMENT AND CONE APPEARS TO BE LETTING IN INFILTRATION, NO STEPS TILL BOTTOM AND VERY POOR





Remove and Replace approx.
55 LF of 8" VCP with new
8" diameter PVC

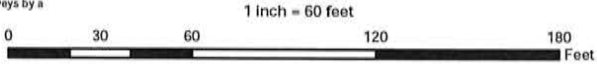
Remove and replace MH 077-040
and services to 3121 and 3122

SEE ATTACHED TV INSPECTION REPORT

Shift new MH ~8' downstream
of existing location

New 4" diameter PVC services to
3121 and 3122 with C.O. at property

Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Monday, June 29, 2015

Group Inspection #

9463

Page 1

Inspection # 66352 Activity TVINSP - Main TV Inspection

From ID SMH 077040

To ID SMH 077038

Length 225.60

Address 3122 SUMMERDALE AVE
ROCKFORD IL**Location**

Started Thursday, June 25, 2015

Weather CLOUDY+70

Reverse Setup ☐

Completed Thursday, June 25, 2015

Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA

Prone to Blown Toilet ☐**Project**

Surveyed Length 225.60 Surveyed Diam 8.00 Surveyed Height 8.20 Pipe Type VCP

Comments CIP PROJECT

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	20.90	9 -	BROKEN JOINT	BRK JT - LIGHT
B	23.70	10 -	BROKEN JOINT	BRK JT - LIGHT
B	25.80	3 -	CRACK	LOGITUDINAL CRACK < 1/2" W, 1"
B	26.10	9 - 3	LIGHT BROKEN JOINT	BRK JT - LIGHT
B	28.40	3 -	BROKEN JOINT	BRK JT - LIGHT
B	36.40	3 -	BROKEN JOINT	BRK JT - MEDIUM
B	39.10	9 -	BROKEN JOINT	BRK JT - LIGHT
B	44.00	3 -	BROKEN JOINT	BRK JT - LIGHT
B	47.60	9 -	LATERAL	FACTORY SERVICE - LEFT
			VCP SERVICE IS NOT BEING USED	
B	50.00	3 -	LATERAL	FACTORY SERVICE - RIGHT
			VCP SERVICE IS NOT BEING USED	
B	51.70	9 -	BROKEN JOINT	BRK JT - LIGHT
B	59.10	12 -	BROKEN JOINT	BRK JT - LIGHT

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Monday, June 29, 2015

Group Inspection #

9463

Page

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B	74.20	1 -	BROKEN JOINT	BRK JT - LIGHT
B	79.50	2 -	BROKEN JOINT	BRK JT - LIGHT
B	97.30	3 -	BROKEN JOINT	BRK JT - LIGHT
B	98.30	9 -	LATERAL	FACTORY SERVICE - LEFT
B	99.50	11 - 2	BROKEN JOINT	BRK JT - LIGHT
B	100.50	3 -	LATERAL	FACTORY SERVICE - RIGHT
B	102.10	2 -	BROKEN JOINT	BRK JT - MEDIUM
B	125.00	10 - 1	BROKEN JOINT	BRK JT - LIGHT
B	130.10	3 -	BROKEN JOINT	BRK JT - MEDIUM
B	146.20	3 -	LATERAL	FACTORY SERVICE - RIGHT
3	150.20	9 - 10	BROKEN JOINT	BRK JT - LIGHT
B	152.80	8 -	BROKEN JOINT	BRK JT - MEDIUM
B	154.40	-	ALIGNMENT	SAG BEGINS
B	155.60	12 -	BROKEN JOINT	BRK JT - LIGHT
B	169.80	-	ALIGNMENT	SAG ENDS
B	185.30	-	HEAVY SAG ALIGNMENT	SAG BEGINS
B	193.50	-	ALIGNMENT	SAG ENDS
B	214.40	11 - 1	BROKEN JOINT	BRK JT - LIGHT
B	219.40	1 -	BROKEN JOINT	BRK JT - LIGHT
B	225.60	-	MANHOLE	DOWNSTREAM MANHOLE

150'
↑

↓
205'
at least to here!

Not to be used for bidding purposes

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 077-040 Inspector: PS Date: 3-29-18

Address/Location: 3122 SUMMERDALE AVE

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐ Ponding: Yes ☐ No ☒

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings: Qty Size 1 3"	Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 724.45 MH Diameter: 5' Surcharge: Yes ☐ No ☒

In MH 1 (Upstrm) 077-041 Depth High: Elev: Depth Low: 8.05 Elev: 716.40
 In MH 2 (Upstrm) Depth High: Elev: Depth Low: Elev:
 In MH 3 (Upstrm) Depth High: Elev: Depth Low: Elev:

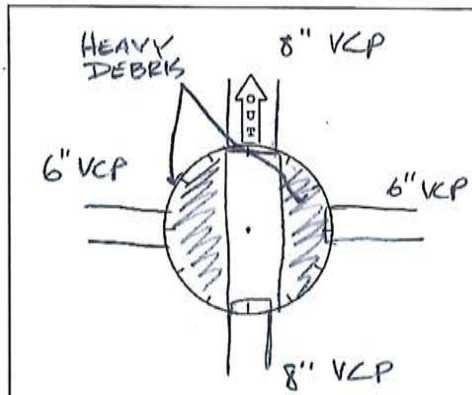
Serv 1 Clock Pos: 3 Address: 3121-23 SUMMERDALE AVE
 Depth High: Elev: Depth Low: 7.52 Elev: 716.93
 Serv 2 Clock Pos: 9 Address: 3122 SUMMERDALE AVE
 Depth High: Elev: Depth Low: 7.48 Elev: 716.97
 Serv 3 Clock Pos: Address:
 Depth High: Elev: Depth Low: Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) 077-038 Depth: 8.10 Elev: 716.35
 Out MH 2 (Dwnstrm) Depth: Elev:

Metered ☐ Outside Drop ☐ Inside Drop ☐

Comments: HEAVY DEBRIS IN FRONT OF 6" VCP
SERVICES. NO INVERTS FOR SERVICES.
MISSING BRICKS IN CONE. SEPERATED VCP
JOINT IN INVERT. RECOMMEND REPLACE,
BROKEN CLAY PIECES ON BENCH.



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 077-038 Inspector: PS Date: 3-29-18
 Address/Location: INT. GLENWOOD AVE / SUMMERDALE AVE
 Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐ Ponding: Yes ☐ No ☒

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings: Qty Size 1 4" 2 Rows	Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input type="checkbox"/>			1 st < 30" from Rim Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wall		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bench		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

GPS Rim Elev: 724.43 MH Diameter: 4' Surcharge: Yes ☐ No ☒

In MH 1 (Upstrm)	<u>077-039</u>	Depth High:		Elev:		Depth Low:	<u>8.10</u>	Elev:	<u>716.33</u>
In MH 2 (Upstrm)	<u>077-040</u>	Depth High:		Elev:		Depth Low:	<u>8.90</u>	Elev:	<u>715.53</u>
In MH 3 (Upstrm)		Depth High:		Elev:		Depth Low:		Elev:	

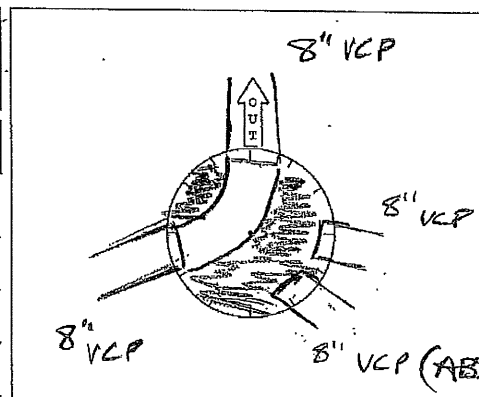
Serv 1 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	
Serv 2 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	
Serv 3 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	

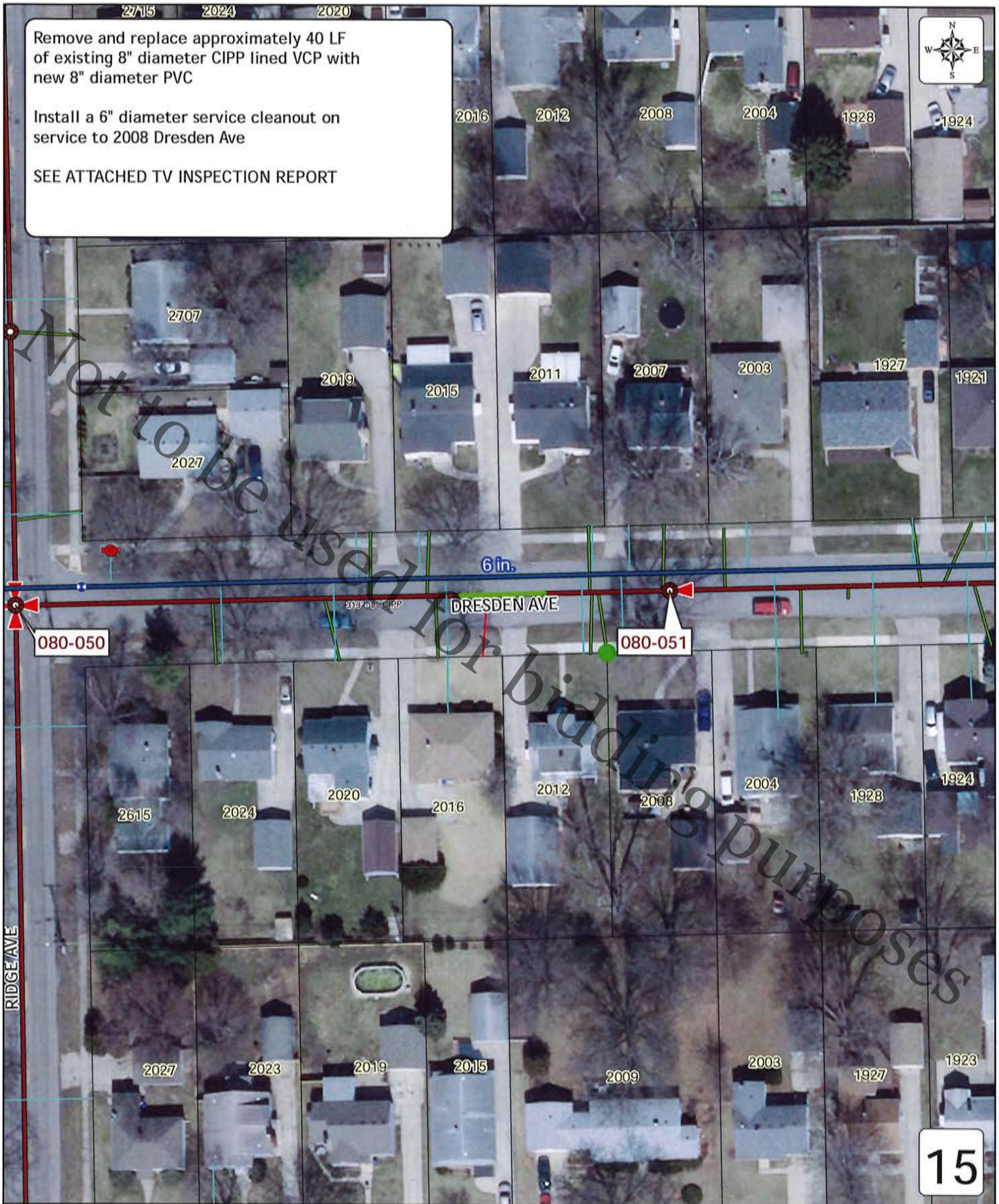
Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm)	<u>077-035</u>	Depth:	<u>8.95</u>	Elev:	<u>715.48</u>
Out MH 2 (Dwnstrm)		Depth:		Elev:	

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: NON-LOCKING - NO GASKET
LIGHT DEBRIS ON BENCH. MISSING/BROKEN
BRICKS IN RINGS/CONC.
BROKEN CLAY ON BENCH.





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1 inch = 60 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Tuesday, April 12, 2016

Group Inspection #

6027

Page 1

Inspection # 62059

Activity TVINSP - Main TV Inspection

From ID SMH 080051

To ID SMH 080050

Length 313.00

Address 2008 DRESDEN AVE
ROCKFORD IL

Location

Started Monday, January 20, 2014

Weather

Reverse Setup ☐

Completed Monday, January 20, 2014

Both Directions Setup ☐

Comp By 0057 LARRY R PIERCE

Prone to Blown Toilet ☐

Project 080

Surveyed Length 313.00

Surveyed Diam 8.00

Surveyed Height 9.50

Pipe Type LINCIP

Comments

(2) Main line backups

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	2.00	3 -	LATERAL	FACTORY SERVICE - RIGHT
B	35.00	10 -	LATERAL	FACTORY SERVICE - RIGHT
B	38.10	10 -	LATERAL	FACTORY SERVICE - LEFT
B	38.90	3 -	LATERAL	FACTORY SERVICE - RIGHT
B	71.00	-	ALIGNMENT	SAG BEGINS
B	88.30	9 -	LATERAL	FACTORY SERVICE - LEFT
B	98.60	-	HEAVY ROOTS - ABANDONED ALIGNMENT	SAG ENDS
B	112.80	9 -	LATERAL	FACTORY SERVICE - LEFT
B	117.40	3 -	LATERAL	FACTORY SERVICE - RIGHT
B	144.60	3 -	LATERAL	FACTORY SERVICE - RIGHT
B	166.10	9 -	LATERAL	FACTORY SERVICE - LEFT
B	219.90	9 -	LATERAL	FACTORY SERVICE - LEFT

6" C.O.
100'

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Tuesday, April 12, 2016

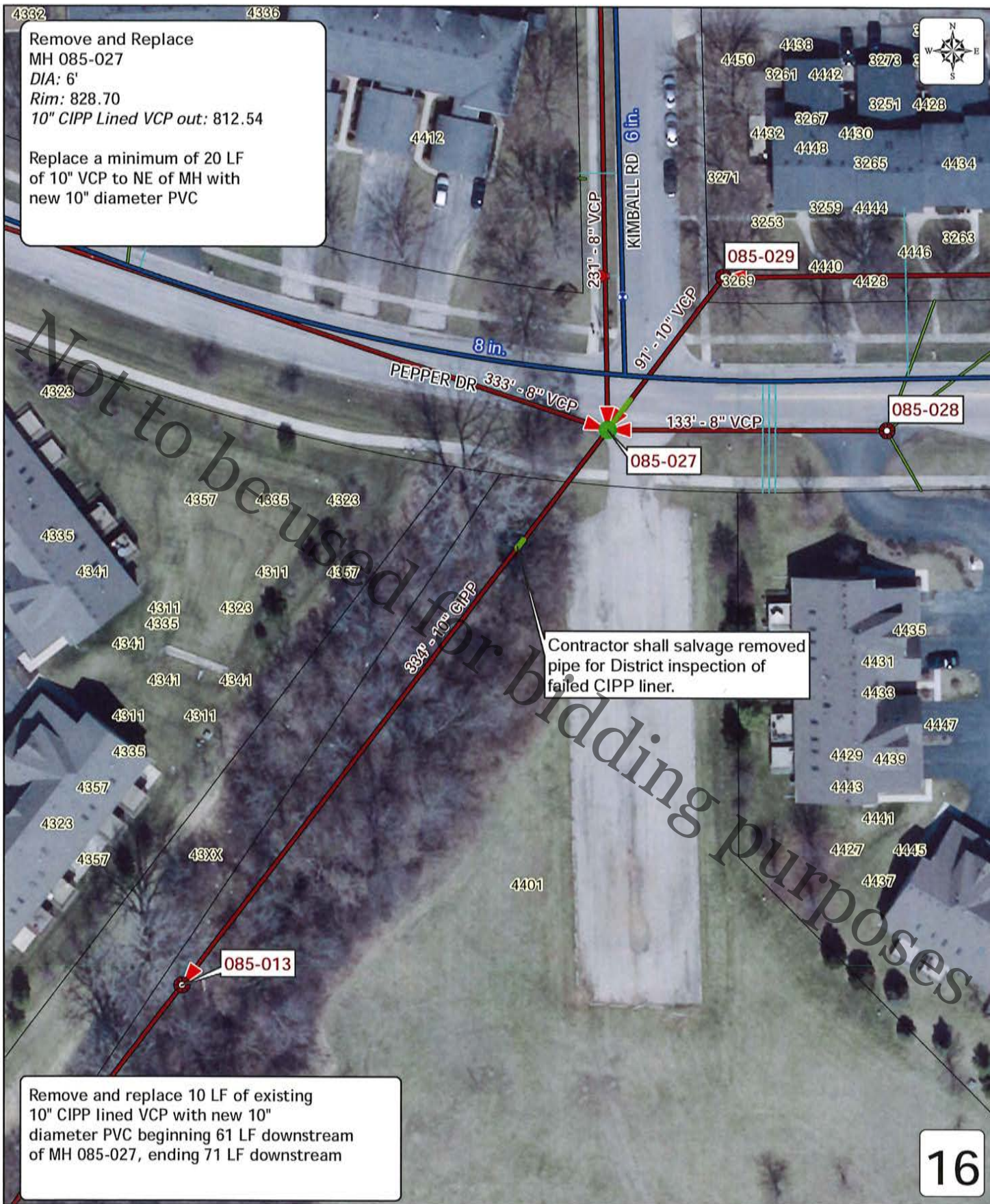
Group Inspection #

6027

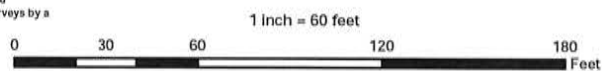
Page 2

2024 Dresden Avenue - District crews pushed 4" PVC pipe on 3/12/93. Installed saddled			
tee on 6/1/11.			
B	312.00	-	OTHER DROP
B	313.00	-	MANHOLE DOWNSTREAM MANHOLE

Not to be used for bidding purposes



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By: JMK
 Produced: 5/17/18
 RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street
Rockford, IL 61126
(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Tuesday, December 12, 2017

Group Inspection #

Page 1

Inspection # 54636

Activity TVINSP - Main TV Inspection

From ID SMH 085029

To ID SMH 085027

Length 91.40

Address 4442 PEPPER DR
ROCKFORD IL

Location

Started Friday, May 13, 2011

Weather CLOUDY 65

Reverse Setup ☐

Completed Friday, May 13, 2011

Both Directions Setup ☐

Comp By 0062 TONY A VICTOR

Prone to Blown Toilet ☐

Project 085

Surveyed Length 91.40 Surveyed Diam 10.00 Surveyed Height 16.20 Pipe Type VCP

Comments

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	18.80	-	DEBRIS	MINERAL DEPOSITS - LIGHT
B	25.20	-	DEBRIS	MINERAL DEPOSITS - MEDIUM
B	31.50	-	DEBRIS	MINERAL DEPOSITS - LIGHT
B	40.60	-	DEBRIS	MINERAL DEPOSITS - LIGHT
B	75.00	-	ALIGNMENT	SAG BEGINS
B	91.40	-	MANHOLE	DOWNSTREAM MANHOLE

76'
↑
Abut
Repair
↓
mH
Replace mH

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Monday, October 17, 2016

Group Inspection #

10424

Page 1

Inspection # 67704 Activity TVINSP - Main TV Inspection

From ID SMH 085027 To ID SMH 085013 Length 333.60

Address PEPPER DR
ROCKFORD IL

Location EASEMENT

Started Friday, September 30, 2016

Weather CLOUDY+70

Reverse Setup ☐

Completed Friday, September 30, 2016

Both Directions Setup ☐

Comp By 0054 VINCE MANGIARACINA

Prone to Blown Toilet ☐

Project

Surveyed Length 333.60 Surveyed Diam 10.00 Surveyed Height 16.20 Pipe Type LINCIP

Comments

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	66.00	-	DEBRIS LINER LOOKS BROKEN	MINERAL DEPOSITS - HEAVY
B	121.60	-	ALIGNMENT	SAG BEGINS
B	128.50	-	ALIGNMENT	SAG ENDS
B	129.10	-	MEDIUM TO HEAVY SAG DEBRIS	MINERAL DEPOSITS - LIGHT
B	158.80	-	DEBRIS	MINERAL DEPOSITS - LIGHT
B	210.90	-	DEBRIS	MINERAL DEPOSITS - MEDIUM
B	223.60	-	ALIGNMENT	SAG BEGINS
B	228.30	-	ALIGNMENT	SAG ENDS
B	246.60	-	MEDIUM TO HEAVY SAG DEBRIS	MINERAL DEPOSITS - LIGHT
B	333.60	-	MANHOLE MANHOLE HAS MEDIUM INFILTRATION LEAKING	DOWNSTREAM MANHOLE

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 085-027

Date: 1-17-18

Inspector: PJ

Street Address: SW COR OF INT. @ PEPPER DR / KIMBALL RD

Qualifier / Description: _____

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input checked="" type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input checked="" type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input checked="" type="checkbox"/>
	Open Pickhole	<input type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/>
Other	<input type="checkbox"/>
None	<input type="checkbox"/>

Wall/Base	
Precast	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/>

Bench	
Concrete	<input checked="" type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/>
Other	<input type="checkbox"/>

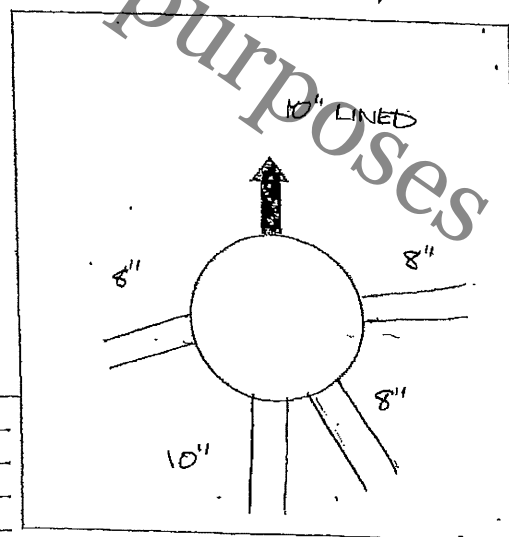
Steps	
Cast Iron	<input checked="" type="checkbox"/> Good <input type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input checked="" type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
 Med: 1-5 GPM
 Heavy: 5-10 GPM

Manhole Depth <u>16.2</u> Feet	Metered Manhole <input type="checkbox"/>
	Outside Drop <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input type="checkbox"/> No	Inside Drop <input type="checkbox"/>

Comments: EXCESSIVE STEAM IN MH. UNABLE TO GET A REALLY GOOD LOOK @ BOTTOM WALL/BASE AND BENCH. UNABLE TO DETERMINE INFILT. IN BOTTOM. ALSO, UNABLE TO GET POSITIVE ANSWER ON TYPE OF PIPE.



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 085-027

DIAMETER 4'

MATERIAL PRECAST

GPS RIM ELEVATION: 828.70

OUT MH 1 (DWNSTRM) 085-013 DEPTH 16.16 812.54

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 085-026 DEPTH HIGH _____ DEPTH LOW 15.45 813.25

IN MH 2 (UPSTRM) 085-030 DEPTH HIGH _____ DEPTH LOW 13.98 814.72

IN MH 3 (UPSTRM) 085-029 DEPTH HIGH _____ DEPTH LOW 16.05 812.65

IN MH 4 (UPSTRM) 085-028 DEPTH HIGH _____ DEPTH LOW 13.97 814.73

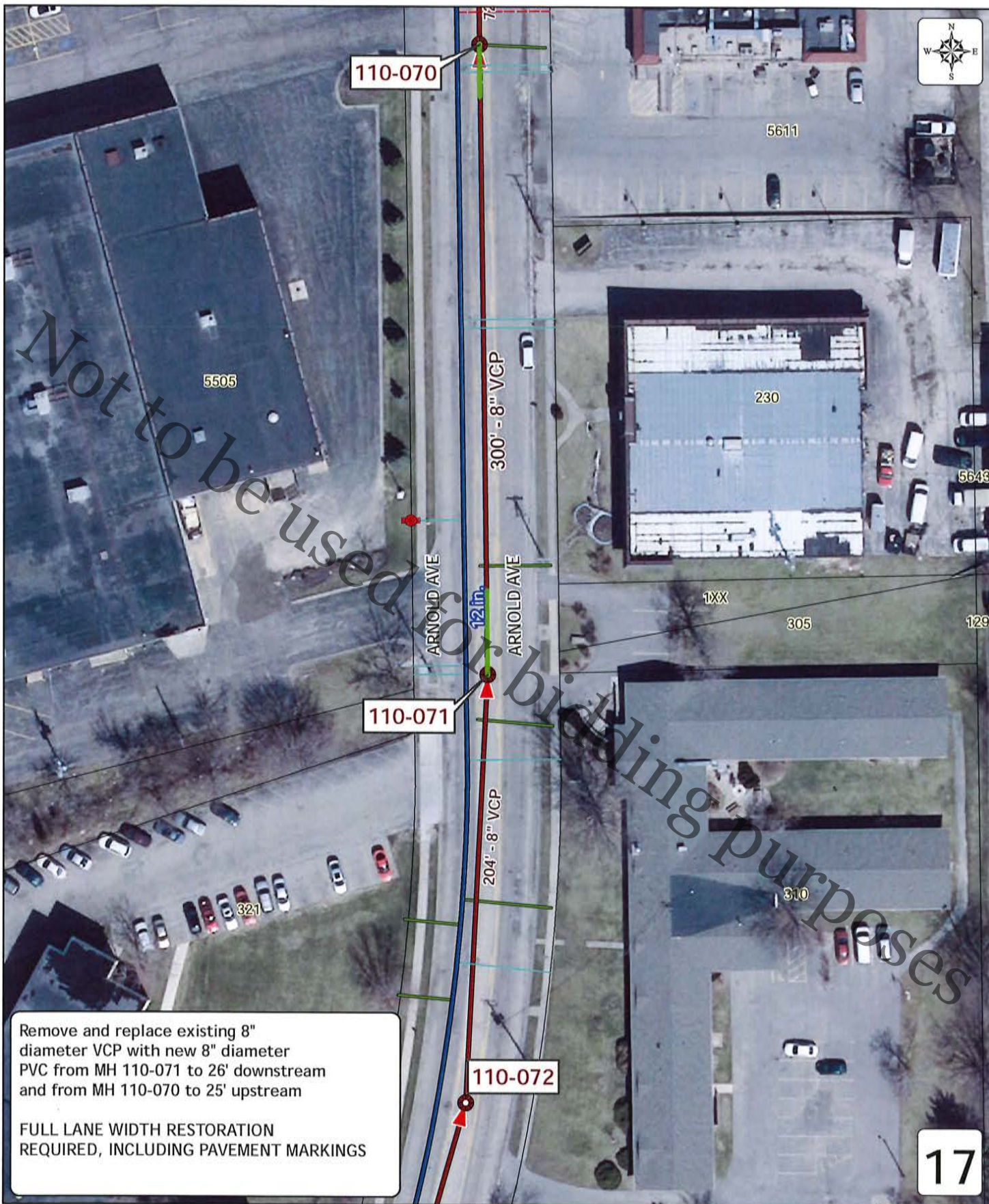
SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

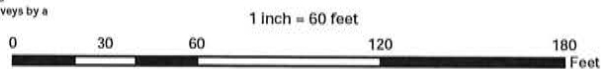
SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PJ 1-17-16



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street
Rockford, IL 61126
(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Friday, September 26, 2014

Group Inspection #

7762

Page 1

Inspection # 64172 Activity TVINSP - Main TV Inspection
From ID SMH 110071 To ID SMH 110070 Length 299.80
Address 310 ARNOLD AVE
ROCKFORD IL

Started Monday, September 15, 2014

Weather CLOUDY 62

Reverse Setup ☐

Completed Monday, September 15, 2014

Both Directions Setup ☐

Comp By 0057 LARRY R PIERCE

Prone to Blown Toilet ☐

Project 110

Surveyed Length 299.80 Surveyed Diam 8.00 Surveyed Height 9.10 Pipe Type VCP

Comments

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	13.20	-	ALIGNMENT	SAG BEGINS
B	25.30	-	ALIGNMENT	SAG ENDS
B	46.80	11 - 1	BAD DEBRIS	GREASE - LIGHT
B	54.20	3 -	LATERAL	PROTRUDING SERVICE 0'-1"
B	94.90	3 -	LATERAL	PLUMBER SERVICE - RIGHT
B	290.60	-	ALIGNMENT	SAG BEGINS
B	298.80	-	ALIGNMENT	SAG ENDS
B	299.80	-	BAD MANHOLE	DOWNSTREAM MANHOLE

Main line
backup

FROM
MH

repair

275

repair

TO MH

MH INVERT DATA (GIS)

MH # 110-070

DIAMETER 5'

MATERIAL PRECAST/BRICK

GPS RIM ELEVATION: 841.15

OUT MH 1 (DWNSTRM) 110-130 DEPTH 8.92

832.23

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 110-071 DEPTH HIGH _____ DEPTH LOW 8.92

832.23

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. 3 ADDRESS 5611 E. STATE ST DEPTH 8.82 832.33
(Out being 12:00) (LINDS)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PS 1-17-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 110-070

Date: 1-17-18

Inspector: PS

Street Address: 5611 E. STATE ST / ARNOLD AVE / WEST OF LAND'S

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding: Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input checked="" type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input checked="" type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
	<input type="checkbox"/> Poor <input type="checkbox"/>

Adjusting Rings	
Precast	<input checked="" type="checkbox"/> Good <input type="checkbox"/> (1) 2" RING
Brick	<input type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Cone	
Precast	<input type="checkbox"/> Good <input type="checkbox"/>
Brick	<input checked="" type="checkbox"/> Fair <input checked="" type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Wall/Base	
Precast	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> Fair <input type="checkbox"/>
Block	<input type="checkbox"/> Poor <input type="checkbox"/>
Concrete	<input type="checkbox"/> Good <input type="checkbox"/>
Other	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>
Coating	<input type="checkbox"/>

Bench	
Concrete	<input checked="" type="checkbox"/> Flat <input type="checkbox"/>
Block	<input type="checkbox"/> Half <input checked="" type="checkbox"/>
Brick	<input type="checkbox"/> 3/4 <input type="checkbox"/>
None	<input type="checkbox"/>
Other	<input type="checkbox"/>

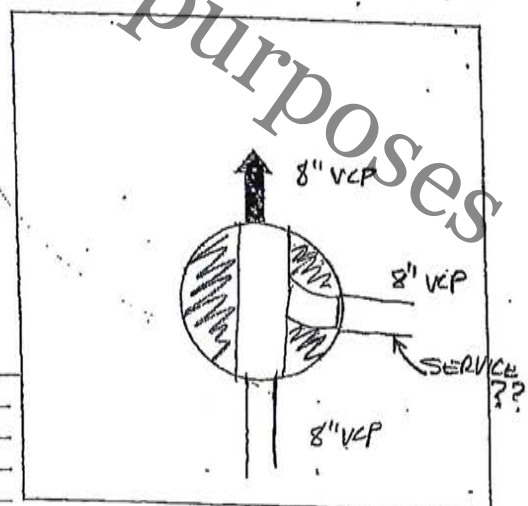
Steps	
Cast Iron	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/>
Plastic	<input type="checkbox"/> Fair <input type="checkbox"/>
None	<input type="checkbox"/> Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>8.9</u> Feet	Metered Manhole	<input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop	<input type="checkbox"/>
	Inside Drop	<input type="checkbox"/>

Comments: LIGHT DEBRIS ON BENCH



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 110-071

DIAMETER 4'

MATERIAL PRECAST / BRICK

GPS RIM ELEVATION: 842.40

OUT MH 1 (DWNSTRM) 110-070 DEPTH 9.04

833.36

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 110-072 DEPTH HIGH _____ DEPTH LOW 9.02

833.36

IN MH 2 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 3 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date PS 1-17-18

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 110-071

Date: 1-17-16

Inspector: PS

Street Address: 310 ARNOLD AVE

Qualifier / Description:

Surface Cover: Asphalt ☒ Concrete ☐ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input checked="" type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input checked="" type="checkbox"/>	No Stamp	<input type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/> 1/2"
Brick <input type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
Brick <input type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>
Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>
Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>
None <input type="checkbox"/>	
Other <input type="checkbox"/>	

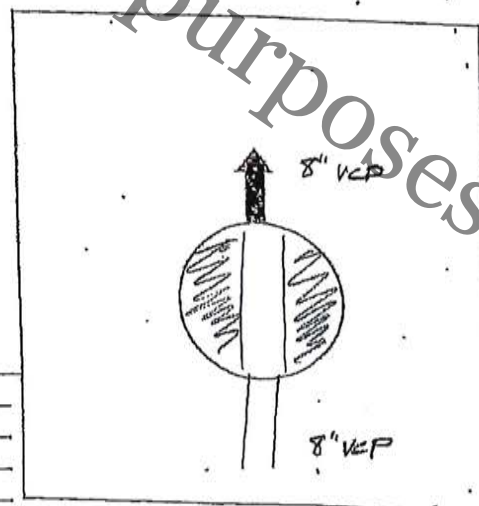
Steps	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

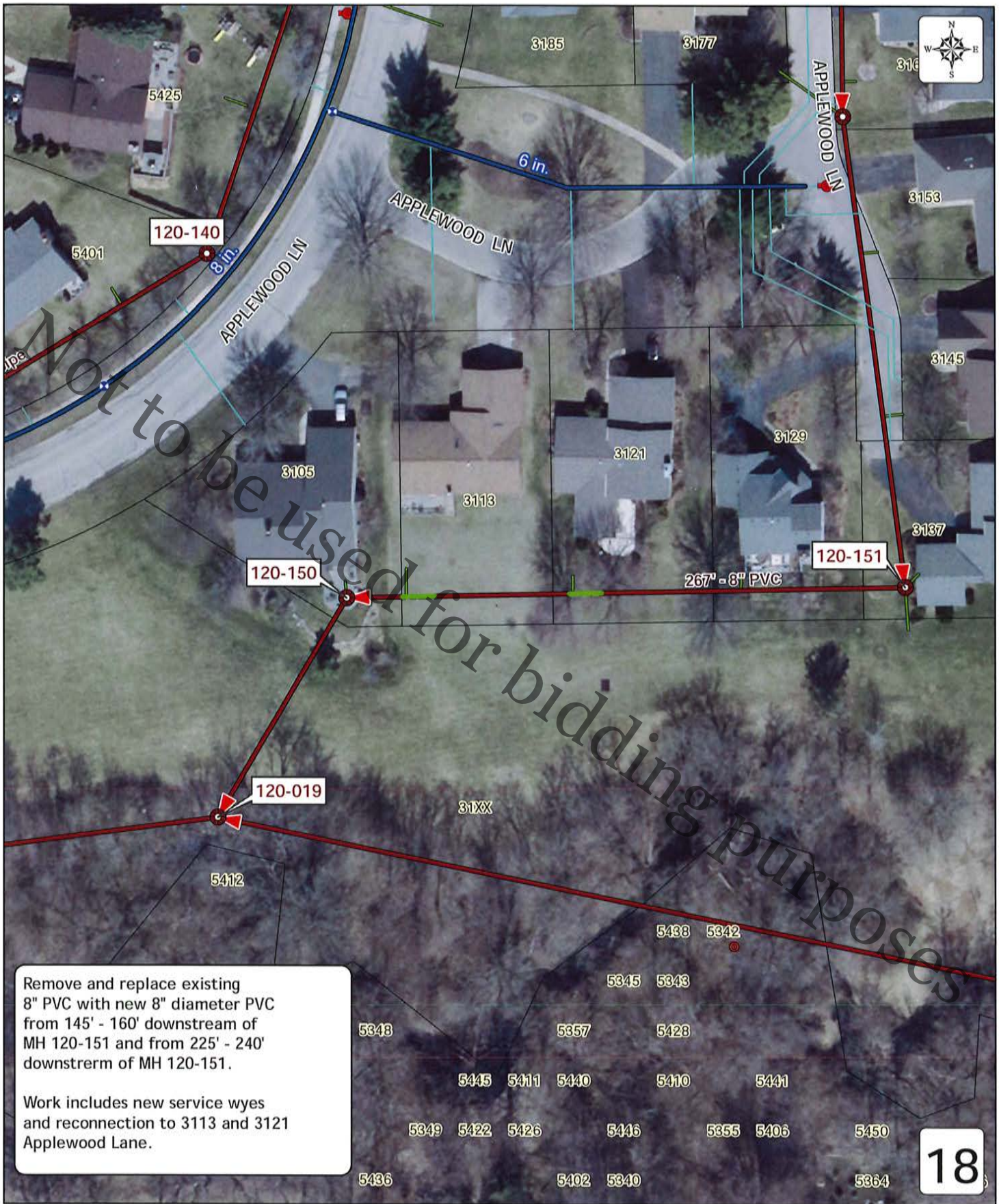
Lbw: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>9</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments: LIGHT DEBRIS ON BENCH.
MH LOOKS TO BE IN DECENT SHAPE



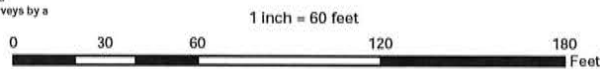
Invert out
Manhole Diagram (Plan View)



Remove and replace existing 8" PVC with new 8" diameter PVC from 145' - 160' downstream of MH 120-151 and from 225' - 240' downstream of MH 120-151.

Work includes new service wyes and reconnection to 3113 and 3121 Applewood Lane.

Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street
Rockford, IL 61126
(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Wednesday, February 08, 2017

Group Inspection #

12984

Page

1

Inspection # 70933 Activity TVINSP - Main TV Inspection

From ID SMH 120151

To ID SMH 120150

Length 266.90

Address 3137 APPLEWOOD LN
ROCKFORD IL

Location EASEMENT/BACKYARD

Started Thursday, February 2, 2017

Weather SUNNY +21

Reverse Setup ☐

Completed Thursday, February 2, 2017

Both Directions Setup ☐

Comp By 0356 TONY RAFFERTY

Prone to Blown Toilet ☐

Project

Surveyed Length 266.90

Surveyed Diam 8.00

Surveyed Height 13.90

Pipe Type PVC

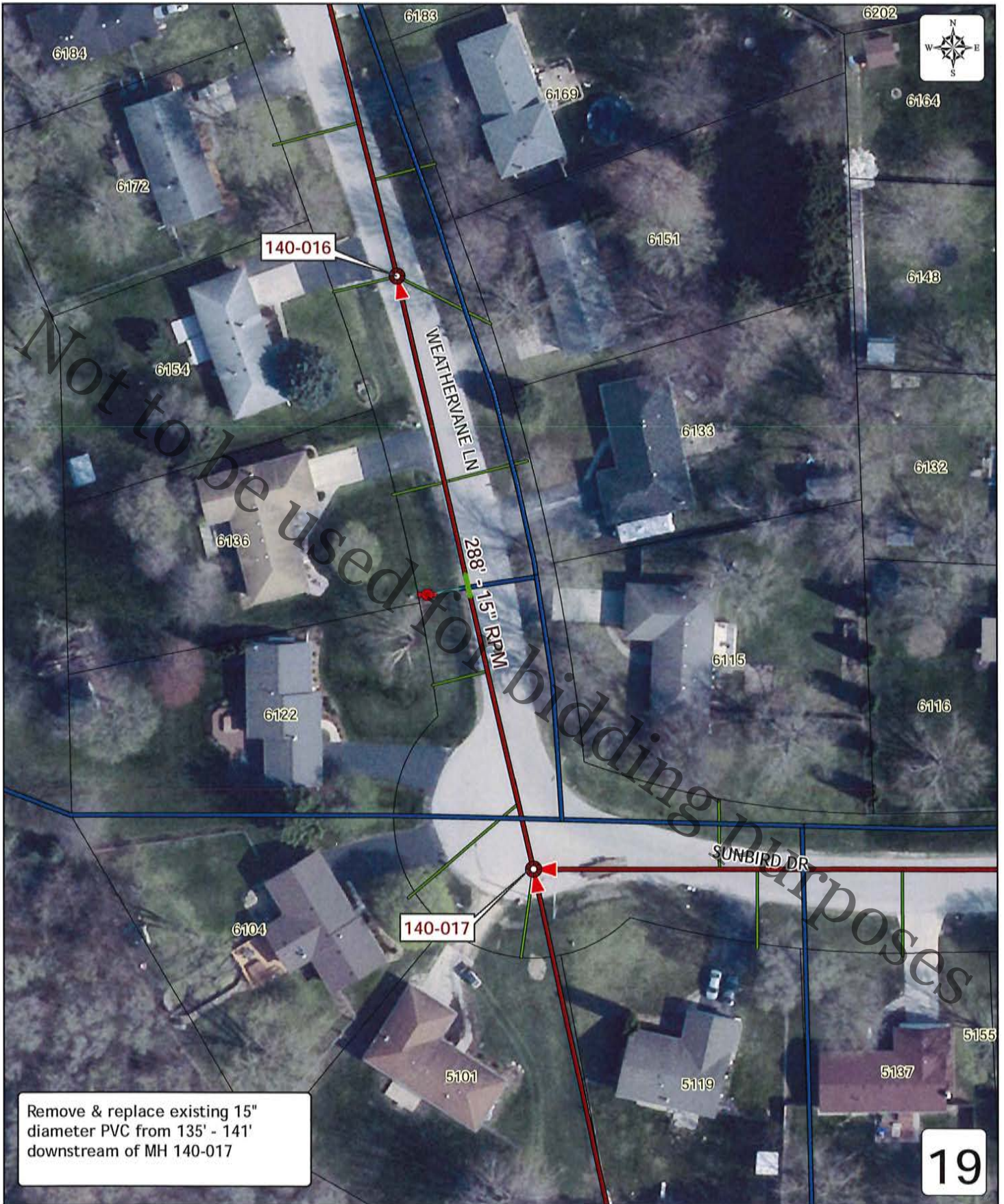
Comments

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	75.70	3 -	LATERAL	FACTORY SERVICE - RIGHT
			PVC	
B	149.20	12 -	LATERAL	FACTORY SERVICE CROWN
			PVC, MEDIUM INFILTRATION AROUND SERVICE PIPE, SERVICE PUSHING DOWN ON MAIN LINE. MAIN IS EGG SHAPED IN THIS AREA.	
B	149.80	-	STRUCTURAL	POINT REPAIR - BEGIN
			Point repair completed by and date unknown. 1/1/90	
B	151.30	-	STRUCTURAL	POINT REPAIR - END
B	155.20	3 -	LATERAL	FACTORY SERVICE - RIGHT
			PVC, CAPPED	
B	228.10	12 -	LATERAL	FACTORY SERVICE CROWN
			PVC, SADDLE TEE, INFILTRATION	
B	235.10	3 -	LATERAL	FACTORY SERVICE - RIGHT
			PVC, CAPPED, LIGHT DEBRIS IN SERVICE	
B	266.90	-	MANHOLE	DOWNSTREAM MANHOLE
			Manhole is located under deck.	

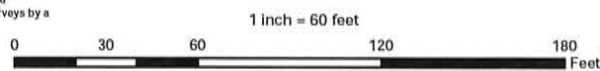
145'
160'
225'
240'

Not good



Remove & replace existing 15" diameter PVC from 135' - 141' downstream of MH 140-017

Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

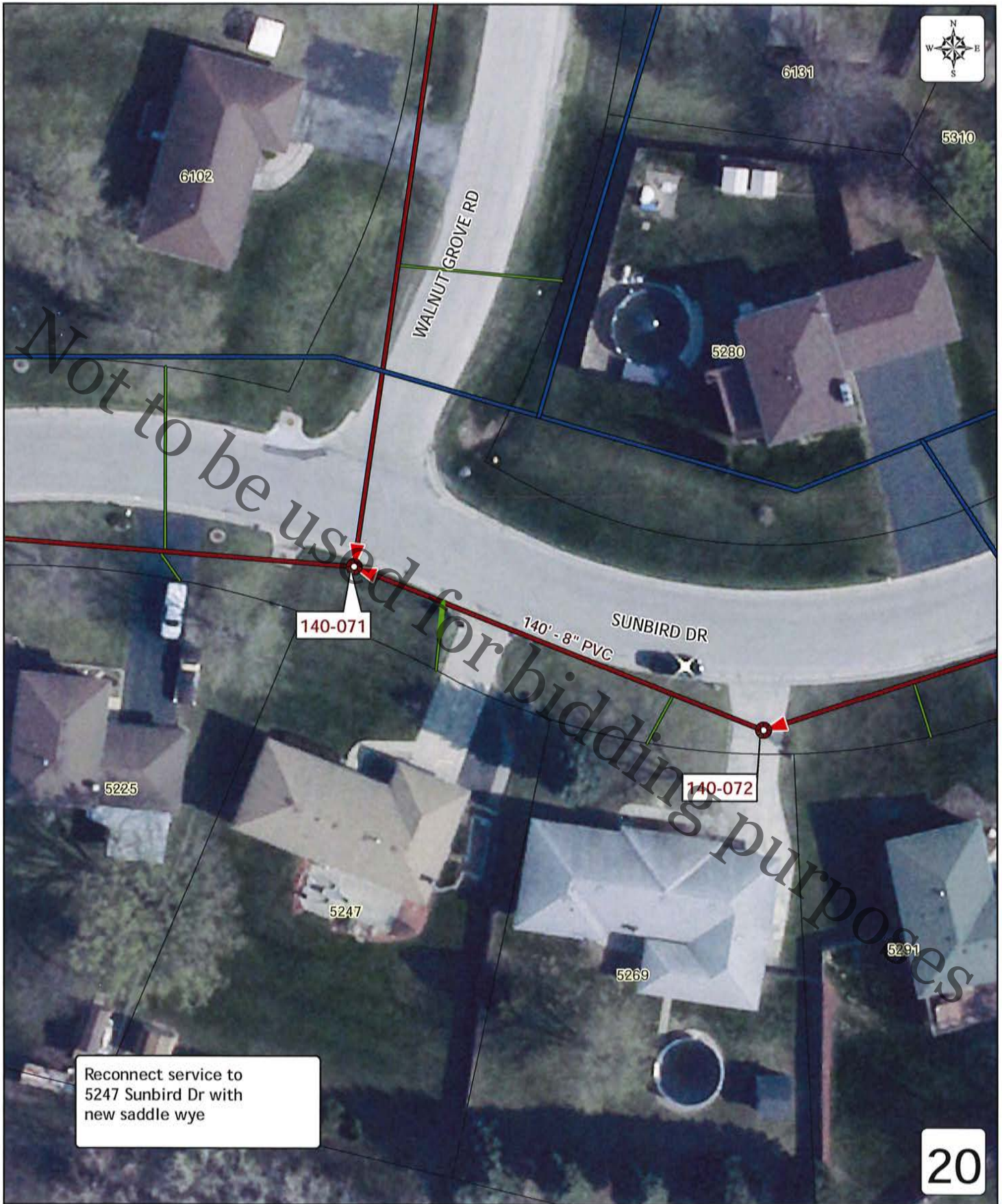
3333 Kishwaukee Street
Rockford, IL 61126
(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION**Report Date** Thursday, November 02, 2017**Group Inspection #**

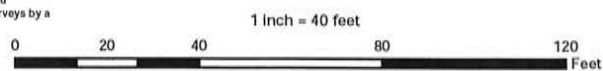
15842

Page 1**Inspection #** 74559**Activity** TVINSP - Main TV Inspection**From ID** SMH 140017**To ID** SMH 140016**Length** 288.40**Address** 5101 SUNBIRD DR
MACHESNEY PARK IL**Location****Started** Wednesday, September 20, 2017**Weather** SUNNY+80**Reverse Setup** ☐**Completed** Wednesday, September 20, 2017**Both Directions Setup** ☐**Comp By** 0051 VINCE MANGIARACINA**Prone to Blown Toilet** ☐**Project** 140**Surveyed Length** 288.40 **Surveyed Diam** 15.00 **Surveyed Height** 14.40 **Pipe Type** PVC**Comments****Observations**

<u>Setup</u>	<u>From</u>	<u>Position</u>	<u>Observation / Comments</u>	<u>Severity</u>
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	41.60	12 -	LATERAL PVC	FACTORY SERVICE CROWN
B	43.70	12 -	LATERAL PVC	PLUMBER SERVICE - CROWN
B	138.30	-	STRUCTURAL	FLATTENED FLEX PIPE 5-10%
B	140.50	-	INFLOW/INFILTRATION	I/I - MEDIUM(1-5 GPM)
B	177.00	12 -	LATERAL PVC MEDIUM INFITRATION	PLUMBER SERVICE - CROWN
B	288.40	-	MANHOLE	DOWNSTREAM MANHOLE



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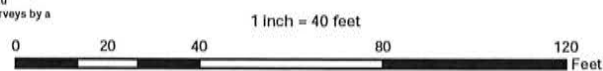


By: JMK
Produced: 5/17/18
RRWRD Engineering Department

20



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>140-073</u>	Inspector: <u>PS/CB</u>	Date: <u>APRIL 17, 2018</u>
Address/Location: <u>INT OF BRIMFIELD LANE AND SUNBERD DRIVE (S.E. COR)</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Turf <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input checked="" type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input checked="" type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>805.52</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	------------------------	--

In MH 1 (Upstrm) <u>140-074</u>	Depth High: <u>9.92</u>	Elev: <u>795.60</u>	Depth Low: <u>8.95</u>	Elev: <u>786.57</u>
In MH 2 (Upstrm) <u>140-078</u>	Depth High: <u>9.92</u>	Elev: <u>795.60</u>	Depth Low: <u>18.93</u>	Elev: <u>786.59</u>
In MH 3 (Upstrm)	Depth High:	Elev:	Depth Low:	Elev:

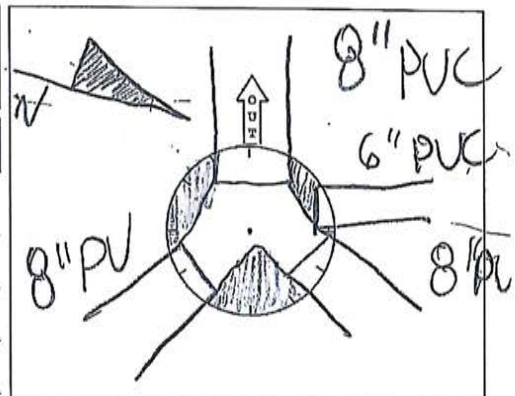
Serv 1 Clock Pos: <u>3</u>	Address: <u>5310 SUNBERD DRIVE</u>
Depth High:	Elev: <u>16.60</u>
Serv 2 Clock Pos:	Address:
Depth High:	Elev: <u>788.92</u>
Serv 3 Clock Pos:	Address:
Depth High:	Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>140-072</u>	Depth: <u>19.05</u>	Elev: <u>786.47</u>
Out MH 2 (Dwnstrm)	Depth:	Elev:

Metered <input type="checkbox"/>	Outside Drop <input checked="" type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	--	--------------------------------------

Comments: LIGHT ROOTS COMING IN BRICKS OF ADJUSTMENT, TP WAS COLLECTING IN TROUGH, NON-LOCKING UNSTAMPED LID





UP
10.3

DN
18.9

Rock River Water
Reclamation District
3333 Kishwaukee St
Rockford, IL 61109
PH: 815-387-7400

051

Main Inspections Pipe Run

Project name:	Mainline ID:	City:	Address:
TVINSP140080217	SMH-140078 - SMH-140073	LOVES PARK	
Start date/time:	Direction:	Weather:	Surface condition:
9/22/2017 11:30 AM	With the flow		NPAV
Pipe shape:	Pipe material:	Pipe height:	Pipe width:
CIRC	PVC	0.0 in.	8.0 in.

Sewer Manhole '140078'

Started at 0.0 ft. with flow
on 9/22/2017 11:30:19 AM

At 0.0 ft.
M - MANHOLE
Severity: MA - UPSTREAM MANHOLE

At 54.3 ft. 9/.
L - LATERAL
Severity: LG - FACTORY SERVICE -
LEFT
Comments: PVC

At 55.2 ft. 3/.
L - LATERAL
Severity: LGG - FACTORY SERVICE -
RIGHT
Comments: PVC

At 146.7 ft. 9/.
L - LATERAL
Severity: LG - FACTORY SERVICE -
LEFT
Comments: PVC

At 147.9 ft. 3/.
L - LATERAL
Severity: LGG - FACTORY SERVICE -
RIGHT
Comments: PVC

At 239.4 ft. 3/.
L - LATERAL
Severity: LGG - FACTORY SERVICE -
RIGHT
Comments: PVC

At 290.8 ft.
A - ALIGNMENT
Severity: AA - SAG BEGINS

At 296.5 ft.
A - ALIGNMENT
Severity: AC - SAG ENDS MEDIUM

Mainline length: 297.2 ft.
Surveyed length: 297.2 ft.

Omitted: 0.7 ft.

297'
↓
m H Drop

Project name:
TVINSP140080217
Weather:

Mainline ID:
SMH-140078 - SMH-140073 9/22/2017 11:30 AM

Direction:
With the flow

Mainline length: 297.2 ft.
Surveyed length: 297.2 ft.

Omitted: 296.7 ft.

Stopped at 297.2 ft. with flow
on 9/22/2017 11:44:05 AM

Sewer Manhole '140073'

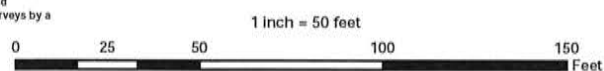
At 296.7 ft. 6/
O - OTHER
Severity: OF - DROP
Comments: PVC

At 297.2 ft.
M - MANHOLE
Severity: MB - DOWNSTREAM
MANHOLE

Not to be used for bidding purposes



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Thursday, November 02, 2017

Group Inspection #

15842

Page 1

Inspection # 74606

Activity TVINSP - Main TV Inspection

From ID SMH 140081

To ID SMH 140080

Length 300.00

Address 6232 WALNUT GROVE RD
LOVES PARK IL**Location**

Started Wednesday, September 20, 2017

Weather SUNNY +70

Reverse Setup ☐

Completed Wednesday, September 20, 2017

Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA

Prone to Blown Toilet ☐

Project 140

Surveyed Length 300.00 Surveyed Diam 8.00 Surveyed Height 16.30 Pipe Type PVC

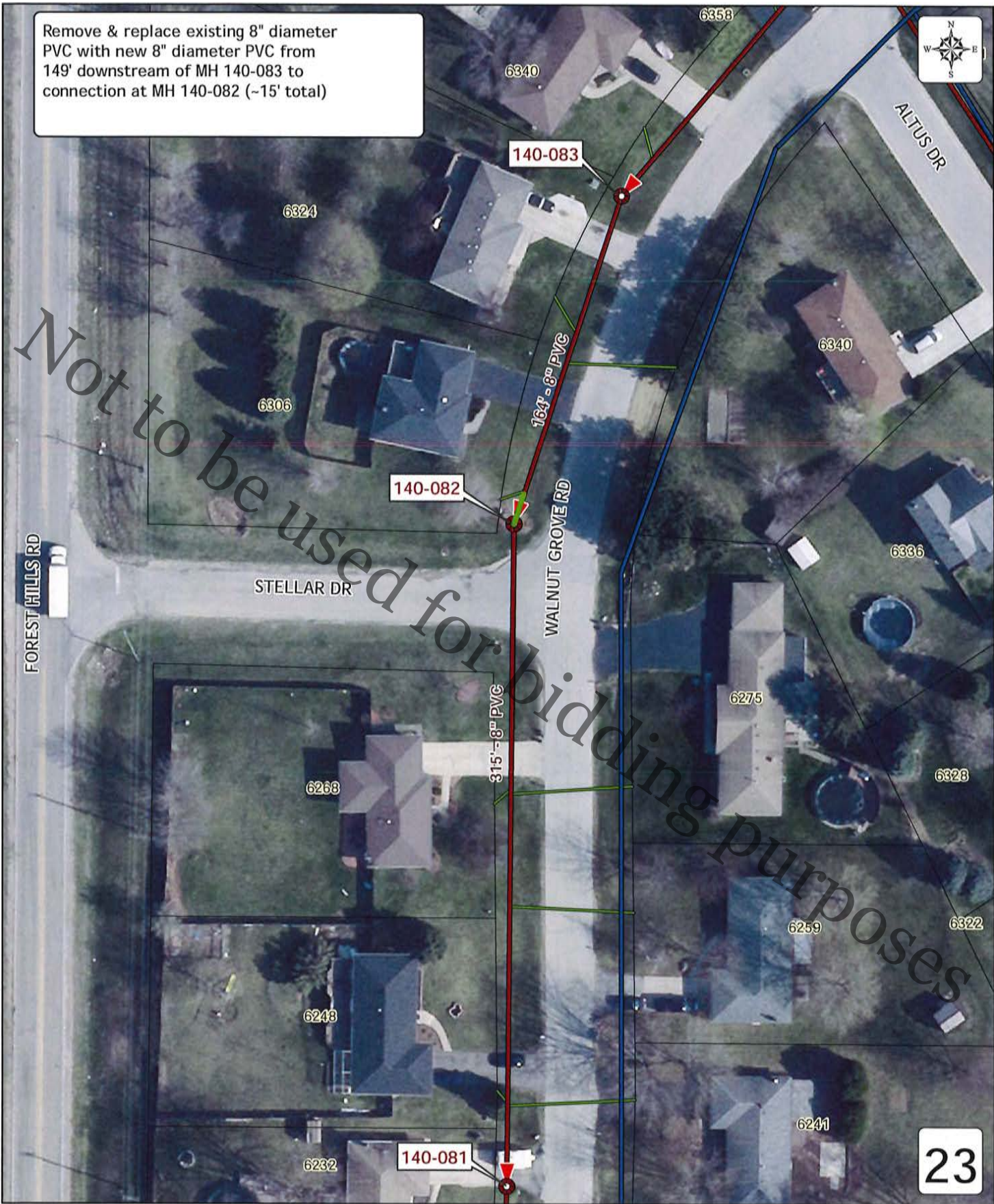
Comments**Observations**

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	50.70	3 -	LATERAL PVC	FACTORY SERVICE - RIGHT
B	51.80	9 -	LATERAL PVC	SERVICE CONNECTION CAPPED
B	90.60	-	ALIGNMENT	SAG BEGINS
B	107.50	-	ALIGNMENT	SAG ENDS MEDIUM
B	144.00	9 -	LATERAL PVC	FACTORY SERVICE - LEFT
B	144.80	3 -	LATERAL PVC	FACTORY SERVICE - RIGHT
B	250.00	9 -	LATERAL PVC	FACTORY SERVICE - LEFT
B	251.10	3 -	LATERAL PVC	SERVICE CONNECTION CAPPED
B	300.00	-	MANHOLE	DOWNSTREAM MANHOLE
SIGNS OF MEDIUM INFILTRATION LEAKING IN BETWEEN BARREL SECTIONS				

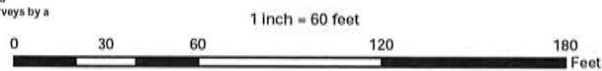
Remove & replace existing 8" diameter PVC with new 8" diameter PVC from 149' downstream of MH 140-083 to connection at MH 140-082 (~15' total)



Not to be used for bidding purposes



Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>40-082</u>	Inspector: <u>CB/PJ</u>	Date: <u>APRIL 17, 2018</u>
Address/Location: <u>INT OF WALNUT GROVE AND STELLAR DRIVE (N.W. COR)</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Turf <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input checked="" type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
Qty	Size			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None			
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Other <input type="checkbox"/>						Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
None <input type="checkbox"/>									Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>785.42</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	------------------------	--

In MH 1 (Upstrm) <u>140-083</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.10</u>	Elev: <u>777.32</u>
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

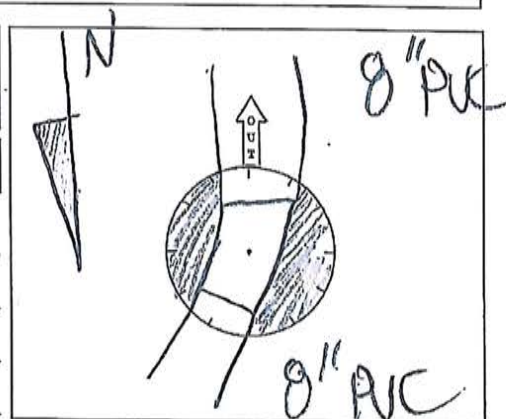
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>140-081</u>	Depth: <u>9.95</u>	Elev: <u>775.47</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: RIPPED GASKET, LIGHT DEBRIS ON BENCHES AND FECAL PICK-UP FROM ±2' DROP OF INV IN, NON-LOCKING FRAME AND
LYO



Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION**Report Date** Tuesday, November 14, 2017**Group Inspection #**

15842

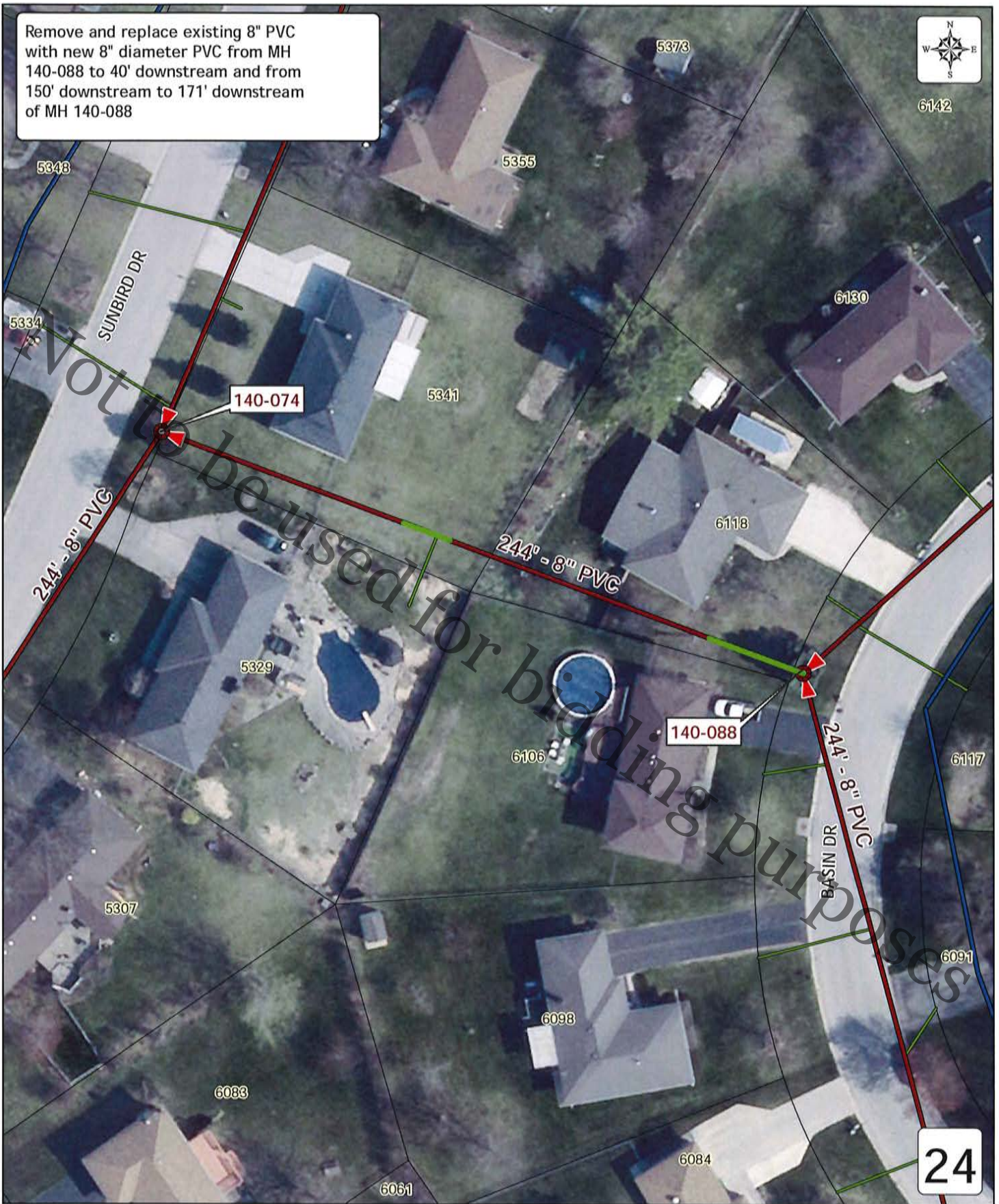
Page 1**Inspection #** 74608**Activity** TVINSP - Main TV Inspection**From ID** SMH 140083**To ID** SMH 140082**Length** 164.30**Address** 6340 WALNUT GROVE RD
LOVES PARK IL**Location****Started** Wednesday, September 27, 2017**Weather** SUNNY+75**Reverse Setup** ☐**Completed** Wednesday, September 27, 2017**Both Directions Setup** ☐**Comp By** 0051 VINCE MANGIARACINA**Prone to Blown Toilet** ☐**Project** 140**Surveyed Length** 164.30 **Surveyed Diam** 8.00 **Surveyed Height** 12.50 **Pipe Type** PVC**Comments****Observations**

<u>Setup</u>	<u>From</u>	<u>Position</u>	<u>Observation / Comments</u>	<u>Severity</u>
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	66.30	3 -	LATERAL PVC	FACTORY SERVICE - RIGHT
B	81.10	9 -	LATERAL PVC	PLUMBER SERVICE - LEFT
B	145.30	9 -	LATERAL PVC	FACTORY SERVICE - LEFT
B	146.60	3 -	LATERAL PVC	FACTORY SERVICE - RIGHT
B	152.90	-	ALIGNMENT	SAG BEGINS
B	159.10	-	ALIGNMENT HEAVY SAG	SAG ENDS HEAVY
B	164.30	-	MANHOLE	DOWNSTREAM MANHOLE

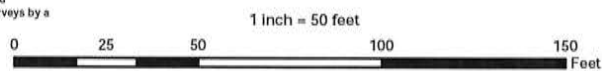
Remove and replace existing 8" PVC
with new 8" diameter PVC from MH
140-088 to 40' downstream and from
150' downstream to 171' downstream
of MH 140-088



6142



Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>140-074</u>	Inspector: <u>PJ/CB</u>	Date: <u>April 17, 2018</u>
Address/Location: <u>5334 SUNBIRD LANE</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Turf <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input type="checkbox"/>	Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Qty Size	Block <input type="checkbox"/>	Poor <input type="checkbox"/>	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>		Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input checked="" type="checkbox"/>		Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>	Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input type="checkbox"/>		1st < 30" from Rim	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	None <input type="checkbox"/>		Last < 24" from Bench	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>816.08</u>	MH Diameter: <u>41</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	------------------------	--

In MH 1 (Upstrm) <u>140-075</u>	Depth High: <u>2.23</u>	Elev: <u>803.85</u>	Depth Low: <u>26.15</u>	Elev: <u>789.93</u>
In MH 2 (Upstrm) <u>140-088</u>	Depth High: _____	Elev: _____	Depth Low: <u>26.40</u>	Elev: <u>789.68</u>
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

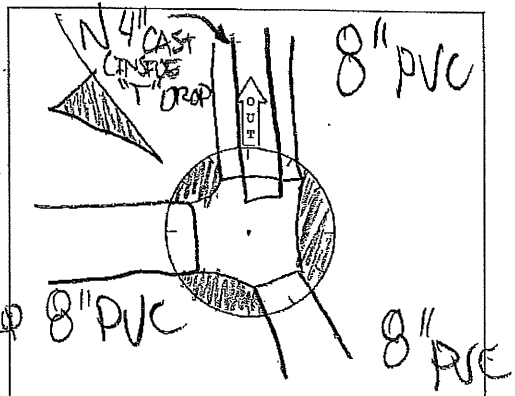
Serv 1 Clock Pos: <u>12</u>	Address: <u>5329 SUNBIRD LANE</u>
Depth High: _____	Elev: _____
Depth Low: <u>13.26</u>	Elev: <u>802.82</u>
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____
Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____
Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>140-073</u>	Depth: <u>26.61</u>	Elev: <u>789.47</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input checked="" type="checkbox"/>	Inside Drop <input checked="" type="checkbox"/>
----------------------------------	--	---

Comments: HICKS YEW OVER TOP OF FRAME. LIGHT ROOTS COMING IN @ INSIDE DROP AND LIGHTROOTS IN BARREL WALL JOINT @ INSIDE DROP



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>140-088</u>	Inspector: <u>PJCB</u>	Date: <u>APRIL 17, 2018</u>
Address/Location: <u>6106 BASTIN DRIVE</u>		
Surface Cover: Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Turf <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input checked="" type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
Qty	Size			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None				
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	Other <input type="checkbox"/>						Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	None <input type="checkbox"/>									Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>800.10</u>	MH Diameter: <u>41</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	------------------------	--

(NE)	In MH 1 (Upstrm)	<u>140-089</u>	Depth High:	Elev:	Depth Low:	<u>10.15</u>	Elev:	<u>789.95</u>
(SE)	In MH 2 (Upstrm)	<u>140-094</u>	Depth High:	Elev:	Depth Low:	<u>10.35</u>	Elev:	<u>789.75</u>
	In MH 3 (Upstrm)		Depth High:	Elev:	Depth Low:		Elev:	

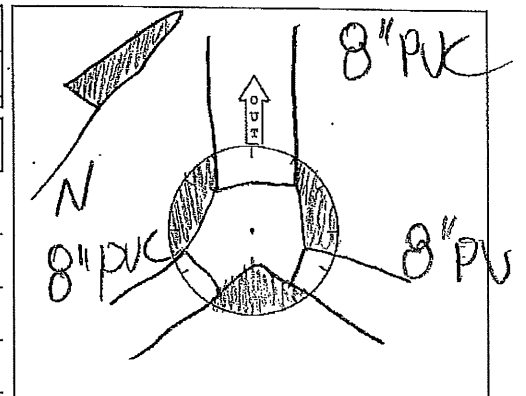
Serv 1 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 2 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 3 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

(NW)	Out MH 1 (Dwnstrm)	<u>140-074</u>	Depth:	<u>10.29</u>	Elev:	<u>789.81</u>
	Out MH 2 (Dwnstrm)		Depth:		Elev:	

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: INV IN (SE) HAS BACKFILL W/ FLOW
SITTING IN TROUGH, TROUGH DE INV IN
NE. IS SCURED UNDERNEATH AND NEEDS SOME
PATCHING. MA LEANS TO SE AND IS PROBABLY
WHY THERE IS BACKFILL.



Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION
Report Date Tuesday, May 1, 2018

Group Inspection #

15842

Page

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Inspection # 74613 **Activity** TVINSP - Main TV Inspection

From ID SMH 140088

To ID SMH 140074

Length

272.90

Address 6118 BASIN DR
LOVES PARK

IL

Location IN FRONT OF HOUSE

Started Monday, September 25, 2017

Weather SUNNY+80

Reverse Setup
☐
Completed Monday, September 25, 2017

Both Directions Setup
☐
Comp By 0051 VINCE MANGIARACINA

Prone to Blown Toilet
☐
Project 140

Survey Length 272.90 **Survey Diam** 8.00 **UP Depth** 10.50 **DWN Depth** 0.00 **Pipe Type** PVC

Comments
Observations

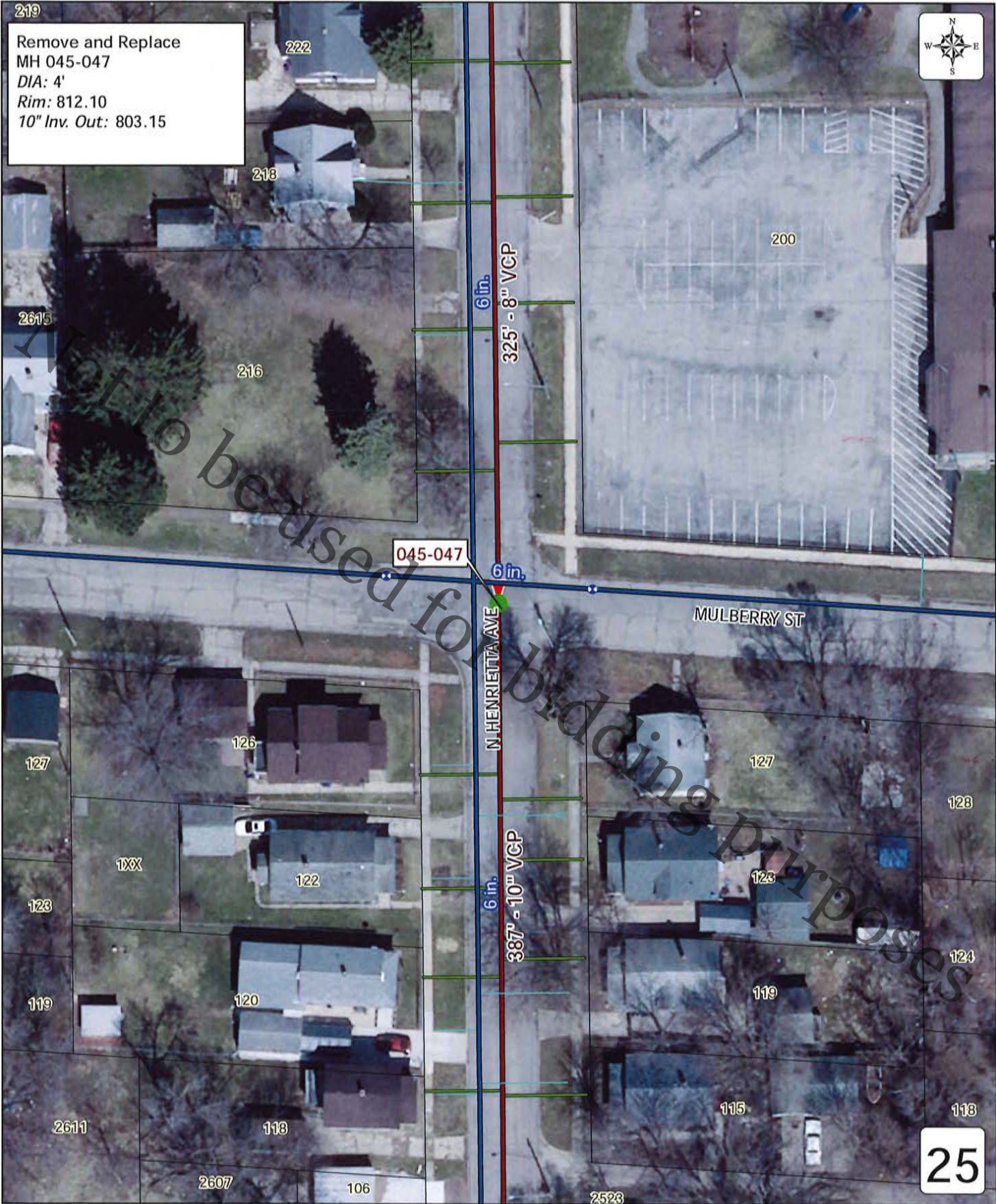
Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE	UPSTREAM MANHOLE
B	37.90	-	STRUCTURAL	FLATTENED FLEX PIPE 5-10%
B	150.00	-	ALIGNMENT SAG BEGINS	SAG BEGINS
B	158.50	9 -	LATERAL PVC	FACTORY SERVICE - LEFT
B	171.00	-	ALIGNMENT SAG ENDS LIGHT	SAG ENDS LIGHT
B	272.90	-	MANHOLE	DOWNSTREAM MANHOLE

REM/REP

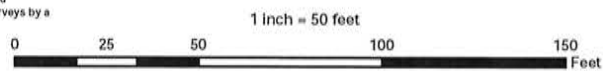
40'

150'

171'



Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 045-047	Inspector: CR	Date: May 14, 2018
Address/Location: INT OF HENRIETTA AND MULBERRY ST		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input checked="" type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input checked="" type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>		Precast <input type="checkbox"/>	Good <input type="checkbox"/>		Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>	Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input checked="" type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input type="checkbox"/>					Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>					Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 812.35	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm)	045-048	Depth High:	Elev:	Depth Low:	8.87	Elev:	803.48
In MH 2 (Upstrm)		Depth High:	Elev:	Depth Low:		Elev:	
In MH 3 (Upstrm)		Depth High:	Elev:	Depth Low:		Elev:	

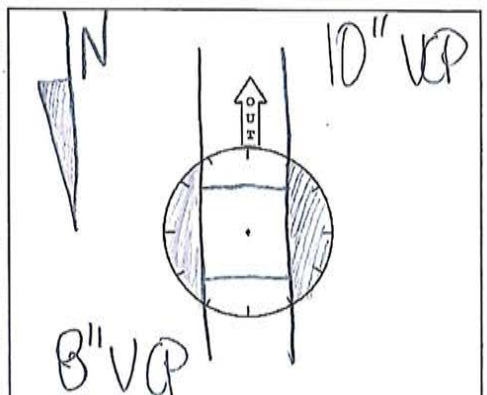
Serv 1 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 2 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 3 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm)	045-046	Depth:	8.93	Elev:	803.42
Out MH 2 (Dwnstrm)		Depth:		Elev:	

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: PONDING LTD W/ 2 OPEN PICKHOLES
 UNSAMPLED LTD, WITH LOOSE BRICKS AND ONE THAT WAS BLOCKING FLOW. RAN TO UNCUT 1ST STEP 4' DOWN DUE TO ROTTED AWAY

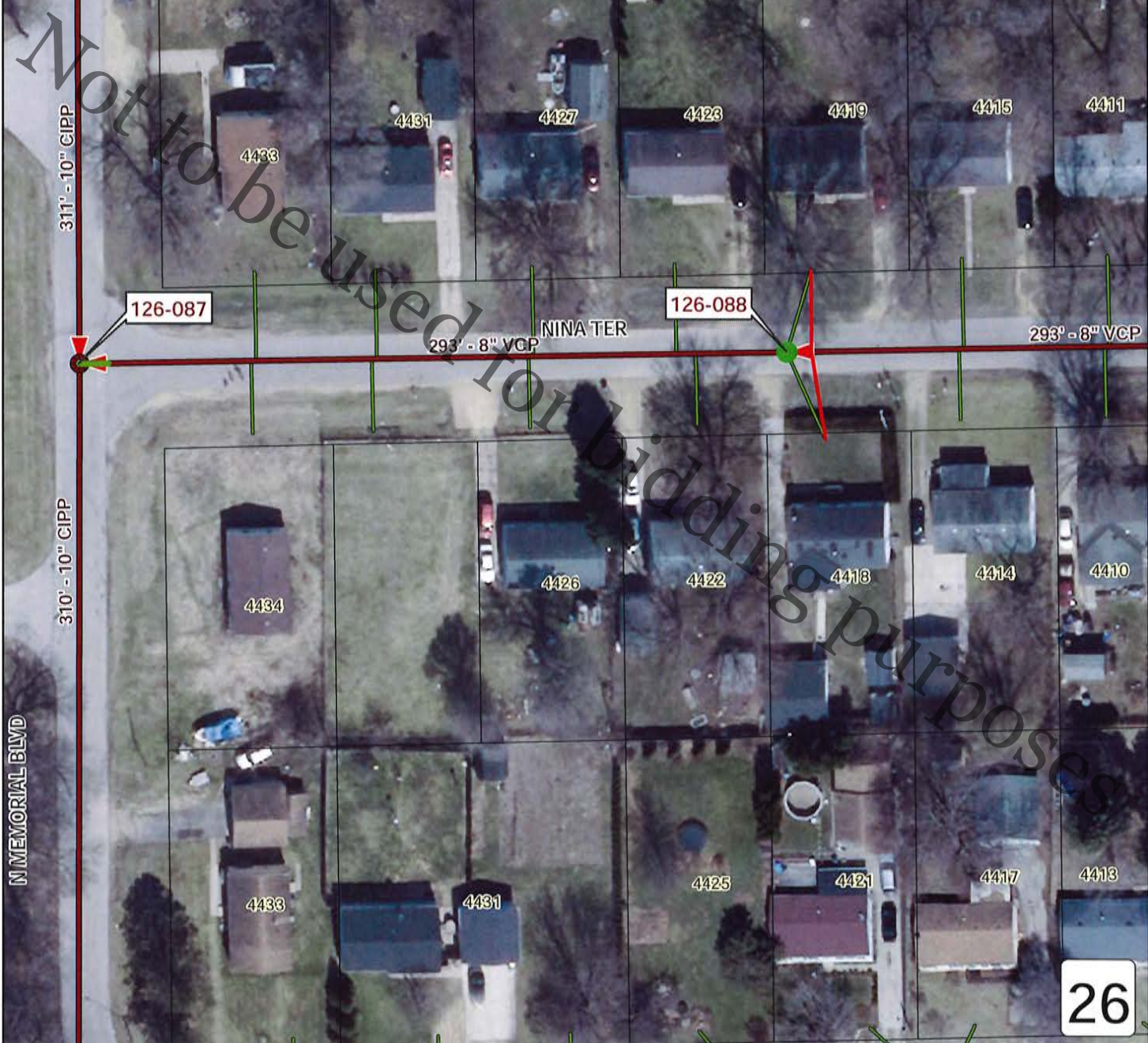


GOOD CANDIDATE FOR REPLACEMENT

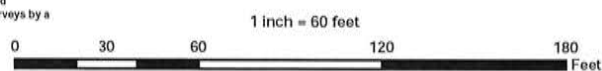
Remove and Replace
MH 126-088
DIA: 4'
Rim: 810.24
8" Inv. Out: 801.33

Replace services to 4418
and 4419 Nina Ter with 4" diameter
PVC with C.O. at property line

Replace pipe from 281' downstream
of MH 126-088 to MH 126-087



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

(815) 387-7600 Fax (815) 387-7595

SEWER MAIN INSPECTION

Report Date Monday, February 5, 2018

Group Inspection #

14282

Page 1

Inspection # 72664

Activity TVINSP - Main TV Inspection

From ID SMH 126088

To ID SMH 126087

Length 292.90

Address 4418 NINA TER
ROCKFORD

IL

Location

Started Monday, March 20, 2017

Weather CLOUDY+55

Reverse Setup ☐

Completed Monday, March 20, 2017

Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA

Prone to Blown Toilet ☐

Project

Survey Length 292.90 Survey Diam 8.00 UP Depth 9.10 DWN Depth 0.00 Pipe Type VCP

Comments

Observations

Setup	From	Position	Observation / Comments	Severity
B	0.00	-	MANHOLE HEAVY ROOTS GROWING ON SHELF	UPSTREAM MANHOLE
B	4.80	-	ROOTS	ROOTS-LIGHT
B	17.00	-	ROOTS	ROOTS-MEDIUM
B	33.40	10 -	BROKEN JOINT	BRK JT - LIGHT
B	33.60	-	ROOTS	ROOTS-MEDIUM
B	38.80	3 -	LATERAL VCP MEDIUM ROOTS	FACTORY SERVICE - RIGHT
B	40.60	9 -	LATERAL VCP MEDIUM ROOTS	FACTORY SERVICE - LEFT
B	57.80	-	ROOTS	ROOTS-MEDIUM
B	70.10	-	ROOTS	ROOTS-MEDIUM
B	74.40	-	ROOTS	ROOTS-MEDIUM
B	90.80	-	ROOTS	ROOTS-MEDIUM
B	94.80	-	ROOTS	ROOTS-MEDIUM
B	100.10	3 -	LATERAL VCP MEDIUM ROOTS	FACTORY SERVICE - RIGHT

Rock River Water Reclamation District

3333 Kishwaukee Street

Rockford, IL 61126

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SEWER MAIN INSPECTION

Report Date Monday, February 5, 2018

Group Inspection #

14282

Page 2

B	101.10	-	ROOTS	ROOTS-MEDIUM
B	102.10	9 -	LATERAL LIGHT ROOTS	FACTORY SERVICE - LEFT
B	103.20	-	ROOTS	ROOTS-MEDIUM
B	107.10	-	ROOTS	ROOTS-LIGHT
B	115.40	-	ROOTS	ROOTS-MEDIUM
B	139.90	-	ROOTS	ROOTS-MEDIUM
B	144.00	-	ROOTS	ROOTS-MEDIUM
B	156.00	-	ROOTS	ROOTS-LIGHT
B	164.20	-	ROOTS	ROOTS-MEDIUM
B	165.40	3 -	LATERAL VCP LIGHT ROOTS	FACTORY SERVICE - RIGHT
B	167.60	9 -	LATERAL VCP MEDIUM ROOTS	FACTORY SERVICE - LEFT
B	180.70	-	ROOTS	ROOTS-LIGHT
B	184.90	-	ROOTS	ROOTS-MEDIUM
B	193.10	-	ROOTS	ROOTS-MEDIUM
B	197.10	-	ROOTS	ROOTS-LIGHT
B	201.30	-	ROOTS	ROOTS-LIGHT
B	213.50	-	ROOTS	ROOTS-LIGHT
B	227.00	3 -	LATERAL VCP LIGHT ROOTS	FACTORY SERVICE - RIGHT
B	229.00	9 -	LATERAL VCP	FACTORY SERVICE - LEFT
B	282.00	-	ALIGNMENT	SAG BEGINS
B	286.50	-	ALIGNMENT	SAG ENDS HEAVY
B	289.90	6 -	OTHER VCP	DROP
B	292.90	-	MANHOLE	DOWNSTREAM MANHOLE

Rem/Rep

281'



TO MH

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>126-088</u>	Inspector: <u>OB</u>	Date: <u>May 16, 2018</u>
Address/Location: <u>4418 NINA TERRACE</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Qty	Block <input type="checkbox"/>	Poor <input type="checkbox"/>	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>
Size	Other <input type="checkbox"/>		Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
<u>3</u>	None <input checked="" type="checkbox"/>		Other <input type="checkbox"/>			Coating <input type="checkbox"/>	
<u>Row</u>							

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>	Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>	None <input type="checkbox"/>	Poor <input type="checkbox"/>	Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>				Wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	None <input type="checkbox"/>				Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Steps:						
			1 st < 30" from Rim	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
			Last < 24" from Bench	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

GPS Rim Elev: <u>810.24</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	------------------------	--

In MH 1 (Upstrm) <u>126</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.86</u>	Elev: <u>801.38</u>
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

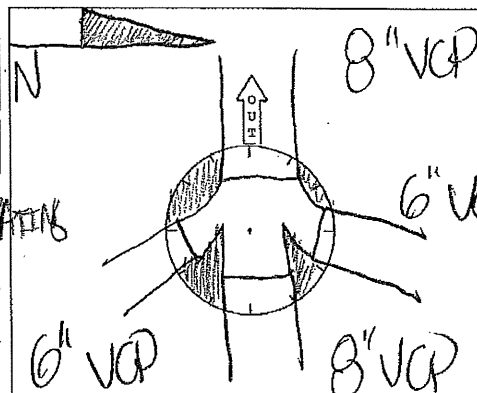
Serv 1 Clock Pos: <u>3</u>	Address: <u>4419 NINA TERRACE</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.71</u>	Elev: <u>801.53</u>
Serv 2 Clock Pos: <u>9</u>	Address: <u>4418 NINA TERRACE</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.70</u>	Elev: <u>801.54</u>
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>126-087</u>	Depth: <u>8.91</u>	Elev: <u>801.33</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

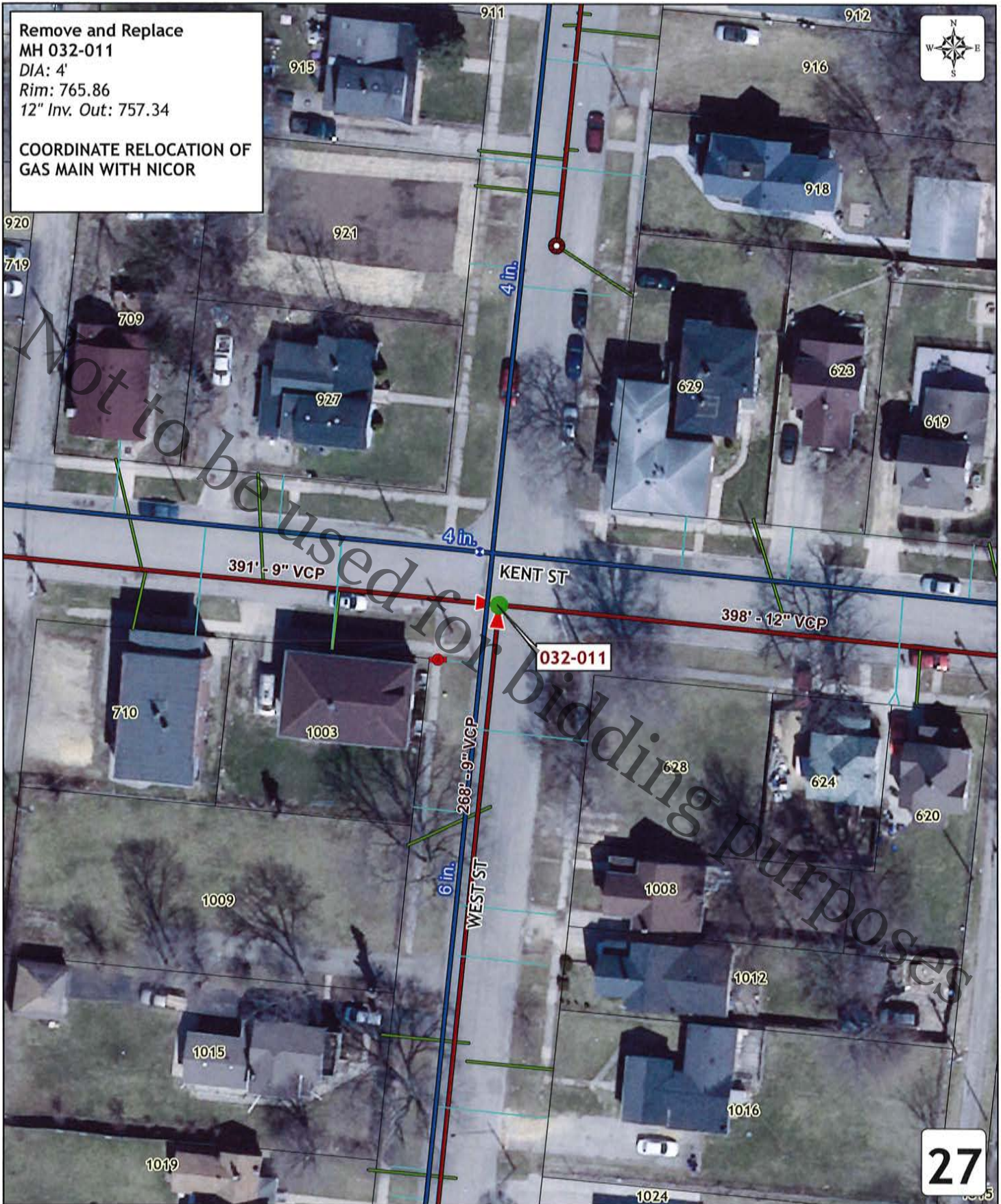
Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: LID PONS ± 1", LIGHT ROOTS INFILTRATING THROUGHOUT ENTIRETY OF STRUCTURE W/ SOME EVIDENT AROUND 30" CLOCK SERVICE AND LAYING ON BENCH



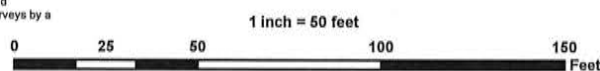
Remove and Replace
MH 032-011
DIA: 4'
Rim: 765.86
12" Inv. Out: 757.34

COORDINATE RELOCATION OF
GAS MAIN WITH NICOR



27

Disclaimer: RRWRD cannot and does not warrant the accuracy of: property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 032-011	Inspector: CB	Date: MARCH 29 2018
Address/Location: INT OF WEST ST AND KENT ST		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings: Qty: 1 Size: 41 1/2 Row: 1	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input checked="" type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 765.86	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(W) In MH 1 (Upstrm) 032-013	Depth High: _____	Elev: _____	Depth Low: 8.48	Elev: 757.36
(S) In MH 2 (Upstrm) 032-012	Depth High: _____	Elev: _____	Depth Low: 8.40	Elev: 757.49
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

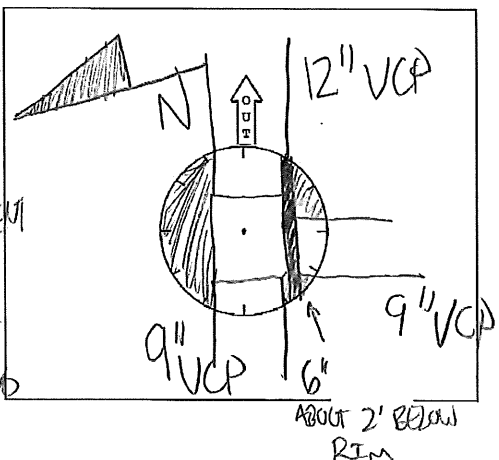
Serv 1 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

(E) Out MH 1 (Dwnstrm) 032-009	Depth: 8.52	Elev: 757.34
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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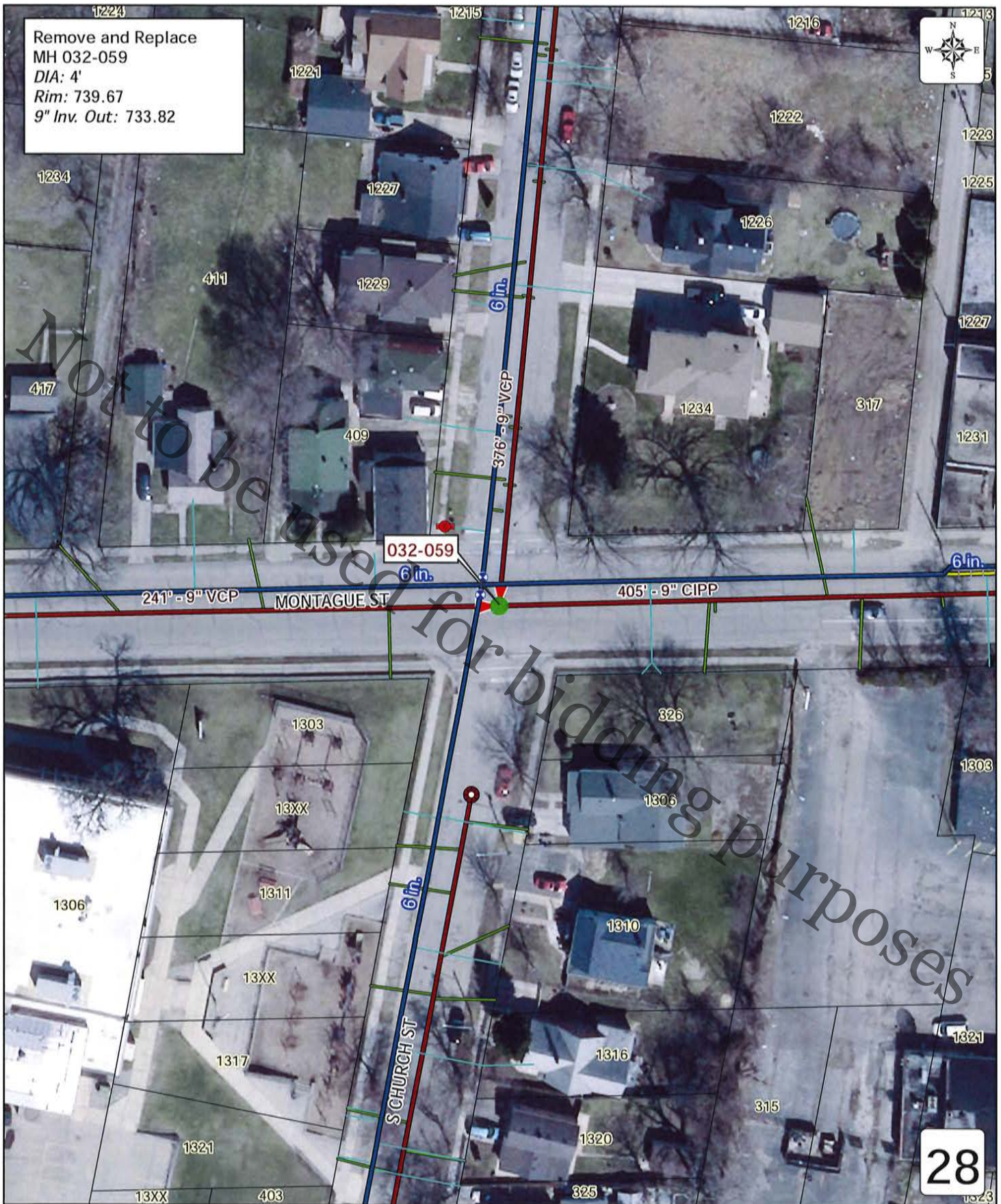
Comments: LOOSE AND CRUMBING BRICKS IN ADJACENT AND CONE, TROUGH FROM SOUTH WAS SLOUGED UP AND RESTRICTING FLOW SINCE CLEANSED. VERY STAGNANT FLOW FROM EAST TO WEST, RUNNING



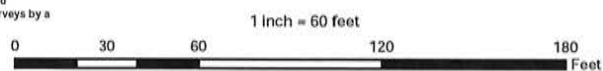
File Name/Location: Revised 01/2018

E/W THROUGH MH ± 2' BELOW RIM ELEV.





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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>032-059</u>	Inspector: <u>CB/PS</u>	Date: <u>APRIL 2 2018</u>
Address/Location: <u>INT MONTAGUE ST AND CHURCH ST.</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	3/4 <input checked="" type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>739.67</u>	MH Diameter: <u>4</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(W) In MH 1 (Upstrm) <u>032-061</u>	Depth High: _____	Elev: _____	Depth Low: <u>5.90</u>	Elev: <u>733.77</u>
(W) In MH 2 (Upstrm) <u>032-075</u>	Depth High: _____	Elev: _____	Depth Low: <u>5.52</u>	Elev: <u>734.15</u>
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

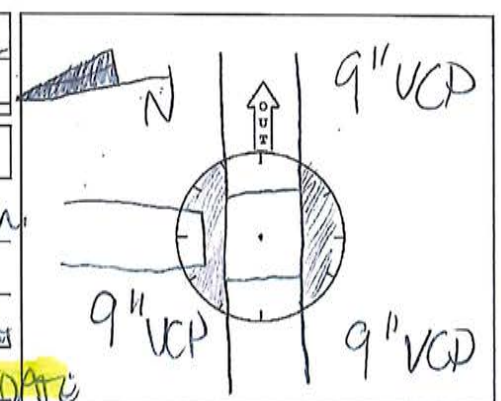
Out is considered 12:00 and service clock position shall be given from 12:00.

(E) Out MH 1 (Dwnstrm) <u>032-057</u>	Depth: <u>5.85</u>	Elev: <u>733.82</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

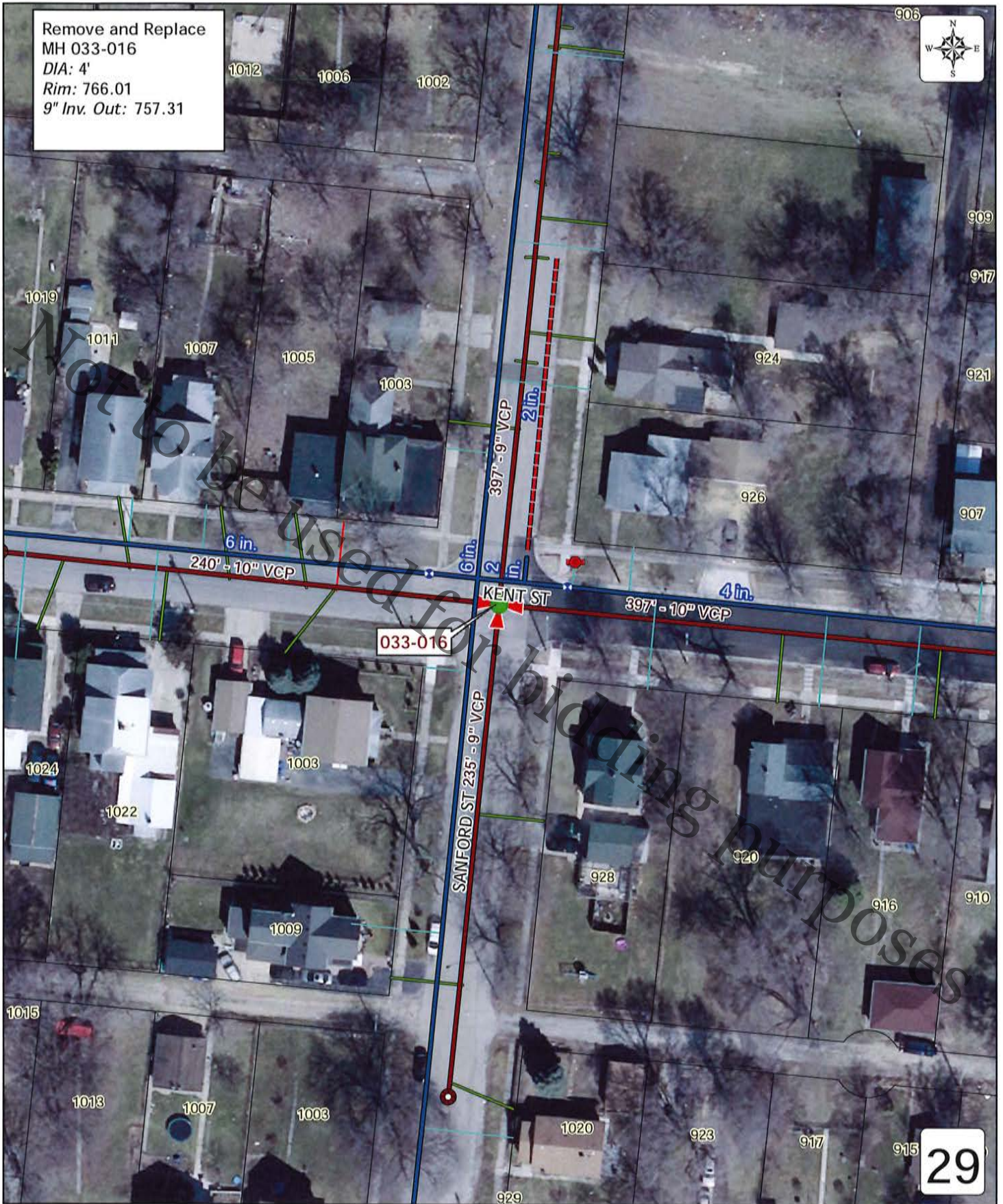
Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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Comments: MH HAS BACKFILL AND VCP BOTTOM

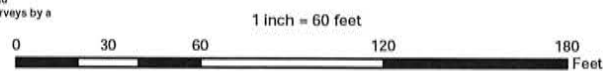
IS ROTTED AWAY LEAVING A POCKET FOR DEBRIS IN TROUGH, BRICKS IN ADJUSTMENT AND CONE ARE IN POOR SHAPE. GOOD CANDIDATE FOR REPLACEMENT



Remove and Replace
MH 033-016
DIA: 4'
Rim: 766.01
9" Inv. Out: 757.31



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>033-016</u>	Inspector: <u>CB</u>	Date: <u>APRIL 16 2018</u>
Address/Location: <u>INT OF KENT ST AND SANFORD ST</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/> Concealed Pickhole <input checked="" type="checkbox"/> Open Pickhole <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/> No Stamp <input type="checkbox"/> Other <input type="checkbox"/>	Bolt-down <input type="checkbox"/> Gasket <input checked="" type="checkbox"/> Low Profile <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
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Adj. Rings:	Precast <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Flat Top <input type="checkbox"/> Other <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/> Brick <input checked="" type="checkbox"/> Block <input type="checkbox"/> Other <input type="checkbox"/> Coating <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
-------------	--	--	-------	--	--	--------------	---	--

Bench:	Conc. <input checked="" type="checkbox"/> Block <input type="checkbox"/> Brick <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>	Flat <input type="checkbox"/> Half <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> None <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
					1 st < 30" from Rim Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					Last < 24" from Bench Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: <u>766.01</u>	MH Diameter: <u>41</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(S) In MH 1 (Upstrm) <u>033-022</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.75</u>	Elev: <u>757.28</u>
(W) In MH 2 (Upstrm) <u>033-017</u>	Depth High: _____	Elev: _____	Depth Low: <u>8.67</u>	Elev: <u>757.34</u>
(E) In MH 3 (Upstrm) <u>033-020</u>	Depth High: _____	Elev: _____	Depth Low: <u>7.45</u>	Elev: <u>758.56</u>

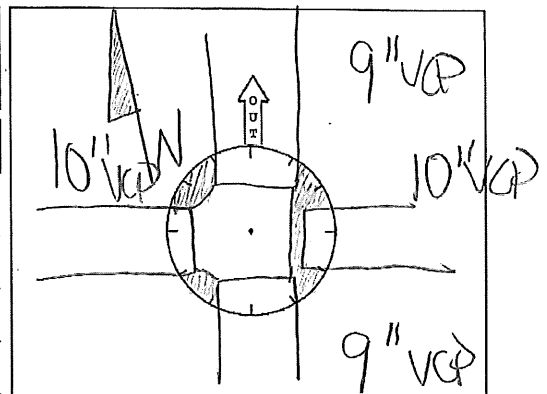
Serv 1 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

(N) Out MH 1 (Dwnstrm) <u>033-014</u>	Depth: <u>8.70</u>	Elev: <u>757.31</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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Comments: INU IN SOUTH HAS BACKFALL AS EVIDENT BY FLOW STARTING IN TROUGH, DEBRIS ON BENCH A FEW LOOSE BRICKS IN CONE.



Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 043-003

Date: JANUARY 3, 2018

Inspector: CB

Street Address: JNT OF JAINSTON AND PRESTON AVENUE

Qualifier / Description:

Surface Cover: Asphalt ☐ Concrete ☒ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding: Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input checked="" type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	Low Profile	<input type="checkbox"/>

Frame	
Cast Iron	Good <input type="checkbox"/>
Other	Fair <input checked="" type="checkbox"/>
	Poor <input type="checkbox"/>

Adjusting Rings	
Precast	Good <input type="checkbox"/>
Brick	Fair <input type="checkbox"/>
Block	Poor <input checked="" type="checkbox"/>
Concrete	Good <input type="checkbox"/>
Other	Fair <input type="checkbox"/>
None	Poor <input type="checkbox"/>

Cone	
Precast	Good <input type="checkbox"/>
Brick	Fair <input type="checkbox"/>
Block	Poor <input checked="" type="checkbox"/>
Concrete	
Other	
None	

Wall / Base	
Precast	Good <input type="checkbox"/>
Brick	Fair <input checked="" type="checkbox"/>
Block	Poor <input type="checkbox"/>
Concrete	Good <input type="checkbox"/>
Other	Fair <input type="checkbox"/>
None	Poor <input type="checkbox"/>
Coating	

Bench	
Concrete	Flat <input type="checkbox"/>
Block	Half <input type="checkbox"/>
Brick	3/4 <input checked="" type="checkbox"/>
None	
Other	

Steps	
Cast Iron	Good <input type="checkbox"/>
Plastic	Fair <input checked="" type="checkbox"/>
None	Poor <input type="checkbox"/>

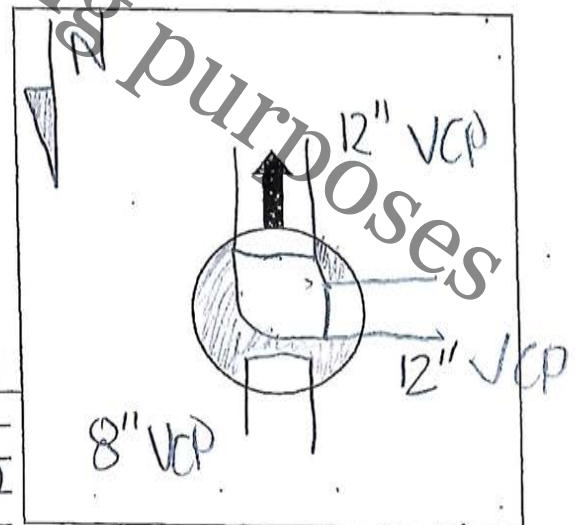
Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth	8.6 Feet	Metered Manhole	<input type="checkbox"/>
Surcharge Evident:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Outside Drop	<input type="checkbox"/>
		Inside Drop	<input type="checkbox"/>

Comments: DEBRIS THROUGHOUT TROUGH
DUE TO BEND AND LOWER FLOW. BRICKS
HEAVING @ CONE. LIGHT INFILTRATION
KEEPING THROUGH BRICKS OF CONE. UNSTAMPED
OPEN PICKHOLE LTD AND FRAME.

GOOD CANDIDATE FOR
REPLACEMENT



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 043-003

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 728.15

OUT MH 1 (DOWNSTREAM) 043-002 DEPTH 8.60 (S) (719.55)

OUT MH 2 (DOWNSTREAM) _____ DEPTH _____

IN MH 1 (UPSTREAM) 043-005 DEPTH HIGH _____ DEPTH LOW 8.50 (W) (719.65)

IN MH 2 (UPSTREAM) 043-004 DEPTH HIGH _____ DEPTH LOW 8.08 (N) (720.07)

IN MH 3 (UPSTREAM) _____ DEPTH HIGH _____ DEPTH LOW _____

IN MH 4 (UPSTREAM) _____ DEPTH HIGH _____ DEPTH LOW _____

SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

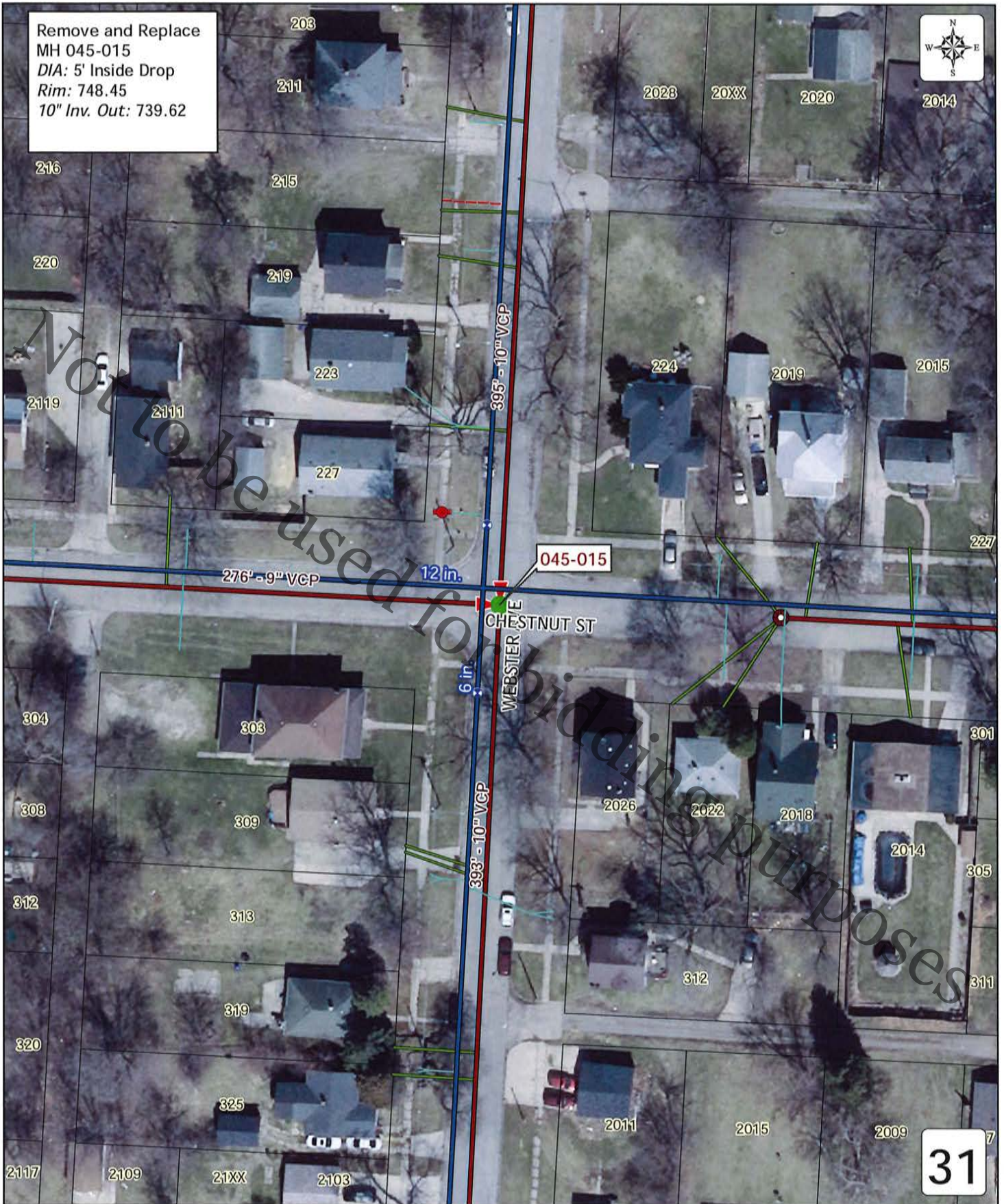
SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

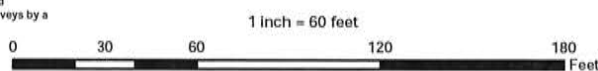
SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date CB 1-3-18

Remove and Replace
 MH 045-015
 DIA: 5' Inside Drop
 Rim: 748.45
 10" Inv. Out: 739.62



Disclaimer: RRWRD cannot and does not warrant the accuracy of property and boundary lines, dimensions of parcels and lots, location of structures or improvements, and topographic or geologic features on the land. Only on-site verification or field surveys by a licensed professional land surveyor can provide such accuracy.



By: JMK
 Produced: 5/17/18
 RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>045-015</u>	Inspector: <u>CB</u>	Date: <u>May 16, 2018</u>
Address/Location: <u>INT OF WEBSTER AVENUE AND CHESTNUT AVE</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input checked="" type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input checked="" type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
Qty	Size						Coating <input type="checkbox"/>	

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None				
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Other <input type="checkbox"/>						Wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	None <input type="checkbox"/>									Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

GPS Rim Elev: <u>748.45</u>	MH Diameter: <u>4</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
-----------------------------	-----------------------	--

(W) In MH 1 (Upstrm) <u>045-016</u>	Depth High: <u>6.52</u>	Elev: <u>740.15</u>	Depth Low: <u>8.30</u>	Elev: <u>740.15</u>
(N) In MH 2 (Upstrm) <u>045-017</u>	Depth High: <u>8.82</u>	Elev: <u>739.63</u>	Depth Low: <u>8.82</u>	Elev: <u>739.63</u>
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

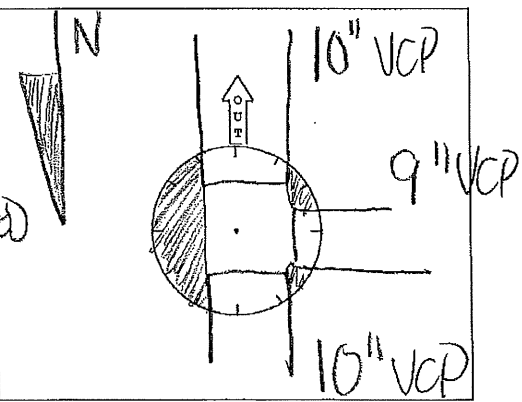
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) <u>045-033</u>	Depth: <u>8.83</u>	Elev: <u>739.62</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

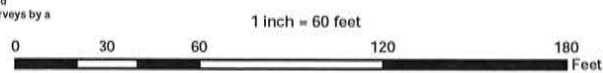
Metered <input type="checkbox"/>	Outside Drop <input checked="" type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	--	--------------------------------------

Comments: LED PONDS W/ OPEN PICKHOLE UNSTAMPED
LED, VERY LOOSE BRICKS IN ADJUSTMENT
AND CO NE, LIGHT INFILTRATION OF ROADS
STARTING THROUGHOUT ENTIRETY OF MH, HEAVY
INFILTRATION ON BENCH FROM INV IN WEST. POOR ROTTING STEPS.





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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

Rock River Water Reclamation District Manhole Inspection Form

Manhole ID: 044-029

Date: JANUARY 12, 2018

Inspector: _____

Street Address: 1st OF HINKLEY AVENUE AND PRESTON ST

Qualifier / Description: _____

Surface Cover: Asphalt ☐ Concrete ☒ Turf ☐ Gravel ☐ Other ☐

Evidence of Ponding Yes ☐ No ☒

COVER	Open Grate	<input type="checkbox"/>	Stamped Sanitary	<input type="checkbox"/>	Bolt-down	<input type="checkbox"/>
	Concealed Pickhole	<input type="checkbox"/>	No Stamp	<input checked="" type="checkbox"/>	Gasket	<input type="checkbox"/>
	Open Pickhole	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	<input checked="" type="checkbox"/> <u>OLD School Low Profile</u>	<input type="checkbox"/>

Frame	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Poor <input checked="" type="checkbox"/>

(2) Rows

Adjusting Rings	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>

Cone	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>
Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>
Concrete <input type="checkbox"/>	
Other <input type="checkbox"/>	
None <input type="checkbox"/>	

Wall/Base	
Precast <input type="checkbox"/>	Good <input type="checkbox"/>
Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Concrete <input type="checkbox"/>	Good <input type="checkbox"/>
Other <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input type="checkbox"/>
Coating <input type="checkbox"/>	

Bench	
Concrete <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>
Block <input type="checkbox"/>	Half <input type="checkbox"/>
Brick <input type="checkbox"/>	$\frac{3}{4}$ <input checked="" type="checkbox"/>
None <input type="checkbox"/>	
Other <input type="checkbox"/>	

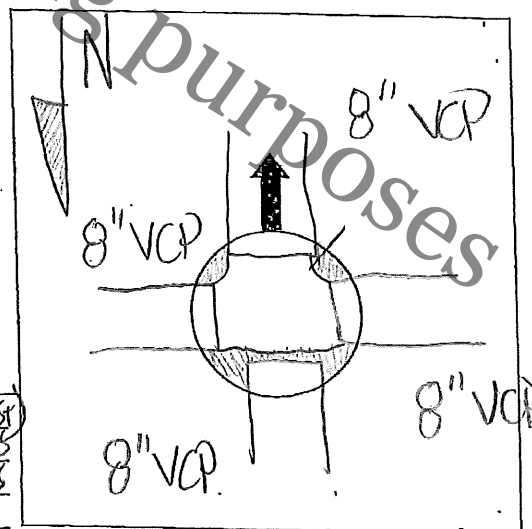
Steps	
Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>
None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>

Infiltration	None	Low	Med.	Heavy
Adjusting Rings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cone Sections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low: 0-1 GPM
Med: 1-5 GPM
Heavy: 5-10 GPM

Manhole Depth <u>9.5</u> Feet	Metered Manhole <input type="checkbox"/>
Surcharge Evident: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Outside Drop <input type="checkbox"/>
	Inside Drop <input type="checkbox"/>

Comments: OPEN PICKHOLE UNSTAMPED LTD. LOCK BRICKS IN ADJUSTMENT AND CONE. IN. IN (EAST) WAS 1.15 OF SLUDGE AND GPT IN LINE. TROUGH WAS PLUGGED IN CONFLUENCE OF PIPE BACKING UP LINES



Invert out
Manhole Diagram (Plan View)

MH INVERT DATA (GIS)

MH # 044-024

DIAMETER 4'

MATERIAL BRICK

GPS RIM ELEVATION: 719.30

OUT MH 1 (DWNSTRM) 044-023 DEPTH 9.53 (S) (709.77)

OUT MH 2 (DWNSTRM) _____ DEPTH _____

IN MH 1 (UPSTRM) 044-020 DEPTH HIGH _____ DEPTH LOW 8.78 (W) (710.52)

IN MH 2 (UPSTRM) 044-028 DEPTH HIGH _____ DEPTH LOW 9.43 (W) (709.87)

IN MH 3 (UPSTRM) 044-025 DEPTH HIGH _____ DEPTH LOW 9.31 (E) (709.99)

IN MH 4 (UPSTRM) _____ DEPTH HIGH _____ DEPTH LOW _____

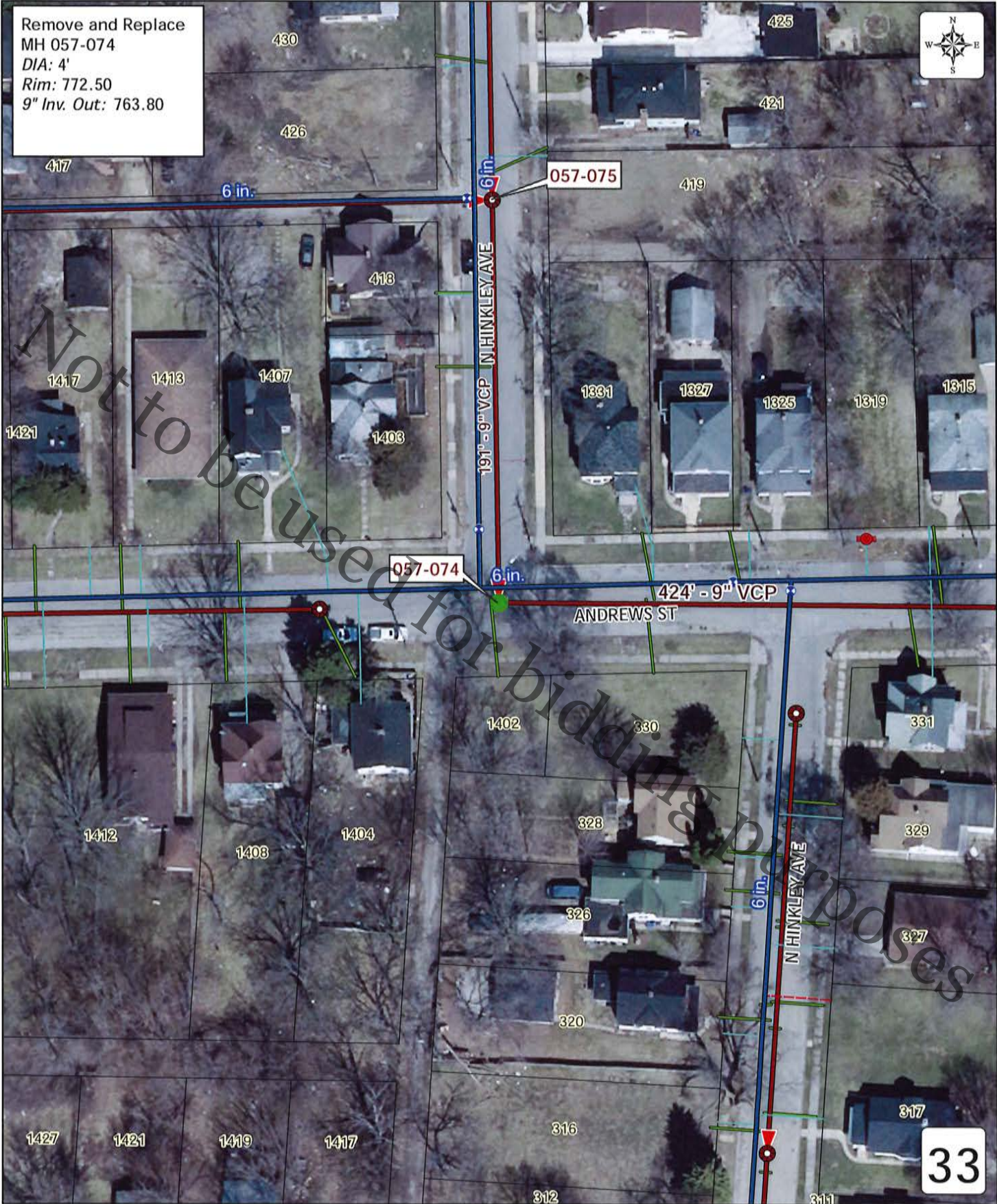
SERV 1 CLOCK POS. _____ ADDRESS _____ DEPTH _____
(Out being 12:00)

SERV 2 CLOCK POS. _____ ADDRESS _____ DEPTH _____

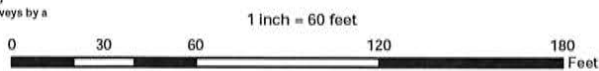
SERV 3 CLOCK POS. _____ ADDRESS _____ DEPTH _____

SERV 4 CLOCK POS. _____ ADDRESS _____ DEPTH _____

Initial and Date CB 1-2-18



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By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 057-074	Inspector: CB	Date: May 16, 2018
Address/Location: INT OF ANDREW ST AND N. HINKLEY AVENUE		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input checked="" type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input checked="" type="checkbox"/>	No Stamp <input type="checkbox"/>	Gasket <input checked="" type="checkbox"/>		Other <input type="checkbox"/>	Fair <input type="checkbox"/>
	Open Pickhole <input type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input checked="" type="checkbox"/>

Adj. Rings:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
Qty	Size			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
1	RA			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	

Bench:	Conc. <input type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Adj.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input type="checkbox"/>	Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GPS Rim Elev: 772.50	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm) 057-075	Depth High: _____	Elev: _____	Depth Low: 8.6p	Elev: 763.84
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

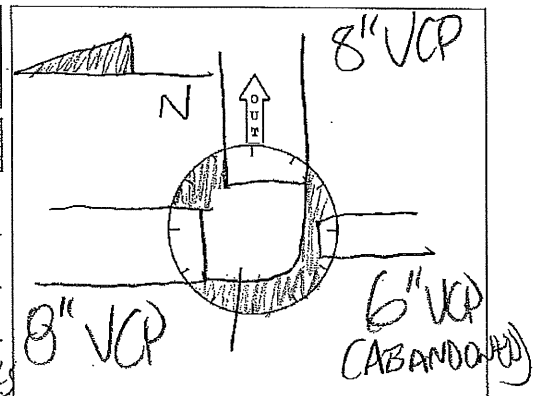
Serv 1 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

Out MH 1 (Dwnstrm) 057-080	Depth: 8.70	Elev: 763.80
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
----------------------------------	---------------------------------------	--------------------------------------

Comments: RIPPED GASKET, FRAME HAS BEEN HIT BY SNOWBLOW SEVERAL TIMES, DEBBIES IN TROUGH DUE TO BEND. LIGHT ROOTS IN CONE AND WALL BRICKS, LOOSE BRICKS IN ADJUSTMENT AND CONE.

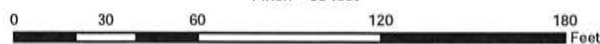


Remove and Replace
MH 047-054
DIA: 5' Inside Drop
Rim: 743.93
10" Inv. Out: 725.75



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1 inch = 60 feet



By: JMK
Produced: 5/17/18
RRWRD Engineering Department

ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>047-059</u>	Inspector: <u>CB</u>	Date: <u>May 16, 2018</u>
Address/Location: <u>INT OF RURAL ST AND WALLIS AVENUE</u>		
Surface Cover: Asphalt <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Turf <input type="checkbox"/> Gravel <input type="checkbox"/> Other <input type="checkbox"/> Ponding: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Lid / Cover:	Open Grate <input type="checkbox"/>	Sanitary Stamp <input type="checkbox"/>	Bolt-down <input type="checkbox"/>	Frame:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>
	Concealed Pickhole <input type="checkbox"/>	No Stamp <input checked="" type="checkbox"/>	Gasket <input type="checkbox"/>		Other <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Open Pickhole <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Low Profile <input type="checkbox"/>			Poor <input type="checkbox"/>

Adj. Rings:	Precast <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Cone:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>	Wall / Base:	Precast <input type="checkbox"/>	Good <input type="checkbox"/>
	Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input checked="" type="checkbox"/>	Fair <input checked="" type="checkbox"/>
	Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>		Block <input type="checkbox"/>	Poor <input type="checkbox"/>
	Other <input type="checkbox"/>			Flat Top <input type="checkbox"/>			Other <input type="checkbox"/>	
	None <input checked="" type="checkbox"/>			Other <input type="checkbox"/>			Coating <input type="checkbox"/>	
Qty	Size							
<u>2</u>	<u>21"</u>							
<u>2</u>	<u>21"</u>							
<u>2</u>	<u>21"</u>							

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	Infiltr:	Low	Med	Heavy	None	
	Block <input type="checkbox"/>	Half <input checked="" type="checkbox"/>		Plastic <input type="checkbox"/>	Fair <input type="checkbox"/>		Adj.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input type="checkbox"/>		None <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>		Cone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1 st < 30" from Rim Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wall		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	None <input type="checkbox"/>			Last < 24" from Bench Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Bench		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

GPS Rim Elev: <u>743.93</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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(S) In MH 1 (Upstrm) <u>047-055</u>	Depth High: <u>9.33</u>	Elev: <u>734.60</u>	Depth Low: <u>17.88</u>	Elev: <u>726.05</u>
(E) In MH 2 (Upstrm) <u>047-056</u>	Depth High: <u>9.33</u>	Elev: <u>734.60</u>	Depth Low: <u>17.10</u>	Elev: <u>726.83</u>
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

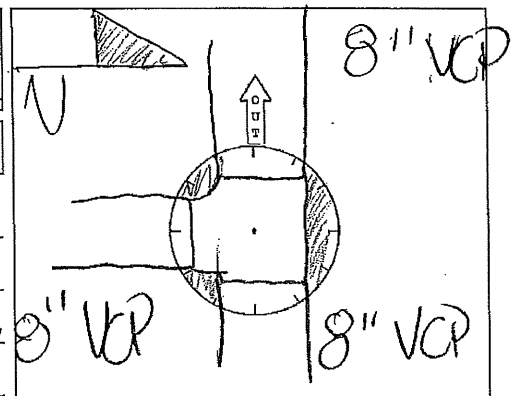
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

Out is considered 12:00 and service clock position shall be given from 12:00.

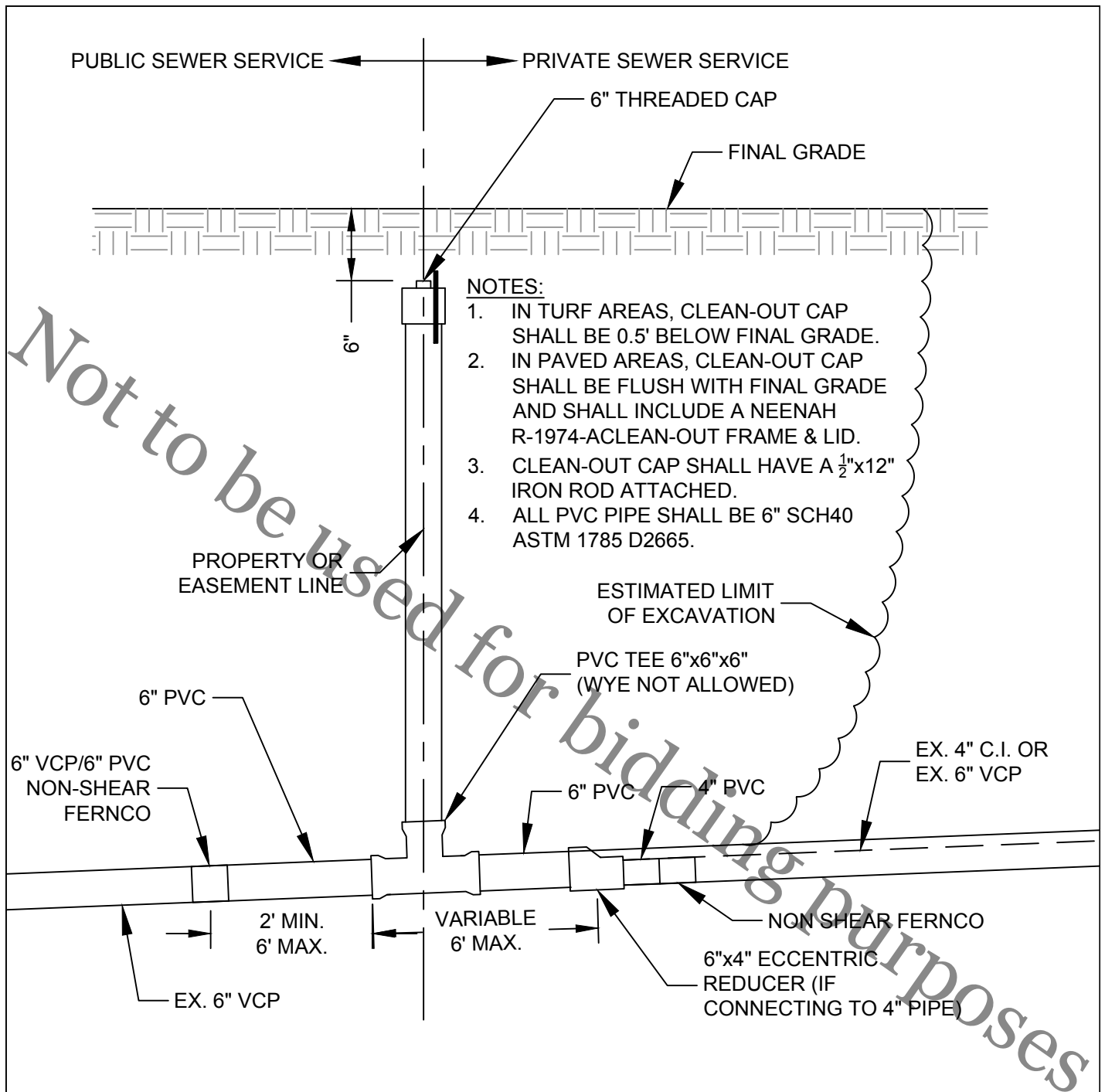
(W) Out MH 1 (Dwnstrm) <u>047-052</u>	Depth: <u>18.19</u>	Elev: <u>725.75</u>
Out MH 2 (Dwnstrm) _____	Depth: _____	Elev: _____

Metered <input type="checkbox"/>	Outside Drop <input checked="" type="checkbox"/>	Inside Drop <input type="checkbox"/>
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Comments: OPEN PICKHOLE UNSTAMPED LID, FLOW COMES OUT OF HIGH OF OUTSIDE DROP, LOOSE BRICKS IN CONE, BENCH WET AND HAS DEBRIS FROM 19" DROP OF INV IN (EAST)



Section IV
Detail Drawings

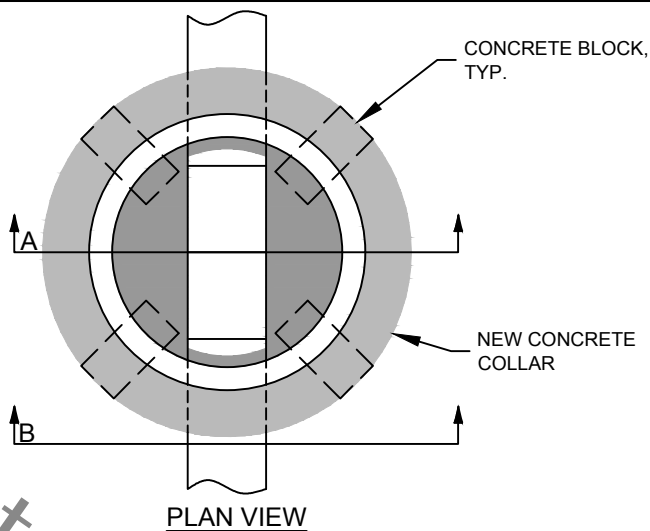


CLEAN-OUT INSTALLATION ON EXISTING SERVICE DETAIL

rev. 4-4-18

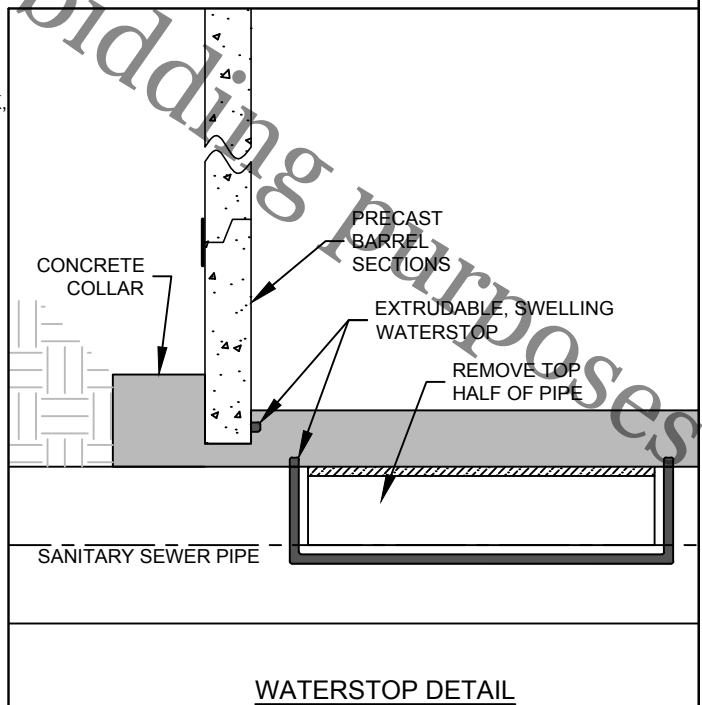
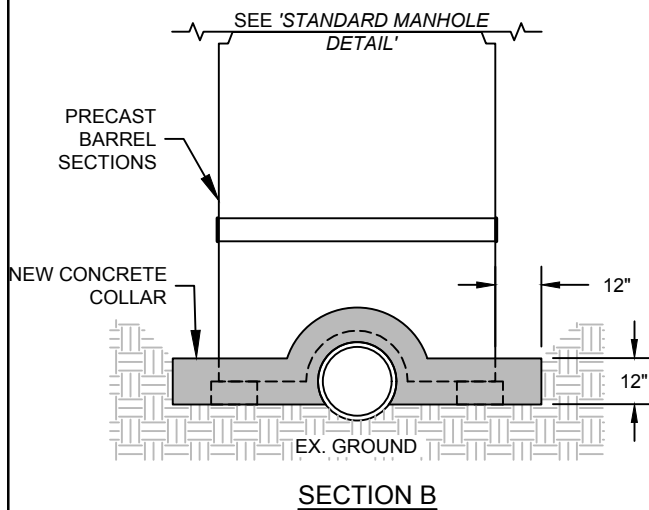
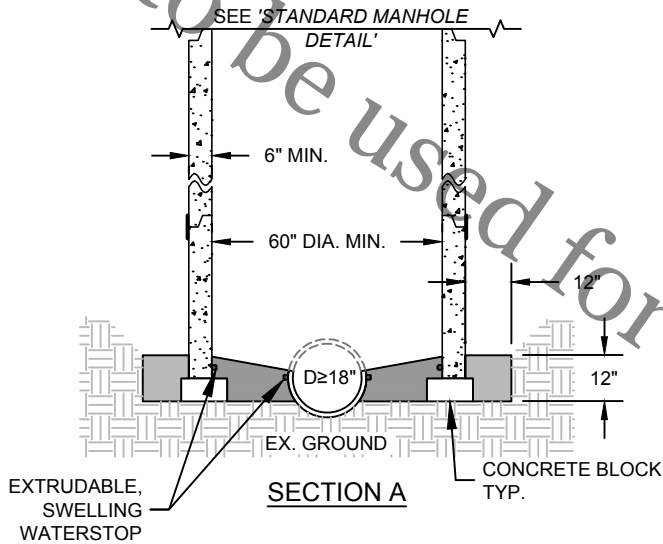


ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109
(815) 387-7660



NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF THE EXISTING SANITARY MANHOLE 6" BELOW THE SPRINGLINE OR TO DEPTH REQUIRED TO EXPOSE UNDISTURBED EARTH FOR CONSTRUCTING THE NEW MANHOLE BASE UPON, WHICHEVER IS GREATER.
2. CONTRACTOR SHALL REMOVE THE TOP HALF OF THE EXISTING SEWER PIPE. EDGES OF PIPE TO REMAIN SHALL BE CUT OR GROUND SMOOTH.
3. THE FIRST PRECAST BARREL SECTION (DOGHOUSE) SHALL BE SUPPORTED BY FOUR (4) 8" CONCRETE BLOCKS AND SHALL BE LEVEL WITHIN $\frac{1}{4}$ " PRIOR TO PLACEMENT OF CONCRETE INVERT AND EXTERIOR COLLAR.
4. PRIOR TO INSTALLATION OF CONCRETE INVERT AND EXTERIOR COLLAR, CONTRACTOR SHALL INSTALL TWO (2) CONTINUOUS BEADS OF EXTRUDABLE SWELLING WATERSTOP AT THE MANHOLE BASE. ONE BEAD SHALL BE INSTALLED ON THE VERTICAL FACE OF THE NEW PRECAST BARREL SECTION, 1" FROM THE BOTTOM EDGE. THE SECOND BEAD SHALL BE INSTALLED ON THE EXISTING PIPE ± 4 " FROM THE REMOVAL LIMITS.
5. THE NEW CONCRETE INVERT AND EXTERIOR COLLAR SHALL BE INSTALLED OVER THE NEW WATERSTOP WITH A MINIMUM OF 2" COVER. WATER STOP SHALL BE SIKASWELL S-2 AS MANUFACTURED BY SIKA CORPORATION OR APPROVED EQUAL.
6. THE DISTRICT 'STANDARD MANHOLE DETAIL' SHALL APPLY EXCEPT AS OTHERWISE SHOWN OR NOTED IN THIS DETAIL.



DOGHOUSE MANHOLE DETAIL

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109
(815) 387-7660

(NOT TO SCALE)

rev. 5/15/18

REV. 08/11/2015

Section V

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)