

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

Bidding Requirements and Contract Forms

for

Christina Street Sanitary Sewer Repairs

Capital Project No. 2286

Rock River Water Reclamation District Rockford, Illinois

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

for

Christina Street Sanitary Sewer Repairs

Capital Project No. 2286

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Not to be used for bidding purposes

Section I
Bidding Requirements

Article 1 — Notice to Bidders

The Rock River Water Reclamation District (District) will receive signed and sealed bids for the Christina Street Sanitary Sewer Repairs, Capital Project No. 2286, at the District's office at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Tuesday, April 20, 2021 at which time and place responsive / responsible bids will be publicly opened and read aloud. Due to the ongoing COVID-19 pandemic, the Steve Graceffa Administration Building is closed to the general public. Bids may still be delivered in-person. Bids delivered in-person must be placed in the blue bid box located in the foyer of the main entrance of the Steve Graceffa Administration Building located at 3501 Kishwaukee Street, Rockford, Illinois, 61109, prior to the due date and time. Signage will be in place directing those wishing to attend the public opening to the south entrance of the District Board Room where the opening will be held. Those in attendance must wear a face covering or mask.

Christina Street Sanitary Sewer Repairs, Capital Project No. 2286, consists of various repairs to existing sanitary sewer facilities within the right-of-way of Christina Street. Work includes removal and disposal of existing manholes, pipe, fill material and pavements, installation of new manholes, pipe, service connections, cleanouts, pavement restoration and all other appurtenances 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's office at 3501 Kishwaukee Street in Rockford, Illinois.

All demolition, construction, installation associated Project work shall be completed by June 30, 2021. Liquidated damages shall be \$300.00 per calendar day.

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

Plans and specifications may also be viewed at the offices of the Northern Illinois Building Contractors Association at 1111 S. Alpine Rd, Rockford, Illinois. For more information, visit the District website at www.rwrwd.dst.il.us.

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

Each Proposal must be accompanied by the District Bid Bond form with an acceptable Bid Security attached, in the amount of ten percent (10%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

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

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

Dated this 1st day of April, 2021


BY: Timothy S. Hanson, Executive Director

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

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

The provisions of this Section shall not apply:

- a. Where the Contract involves an expenditure of less than \$500.
 - b. Where the executive head of the public agency certifies in writing that
 - i. the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
 - ii. obtaining the specified products, manufactured or produced in the United States would increase the cost of the Contract by more than 10%.
 - c. When its application is not in the public interest.
2. 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.
 3. Public Act 101-0221 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.

4. 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.
5. The Contractor for this project shall comply with the Occupational Safety and Health Act.
6. The Contractor for this project shall comply with the Federal Drug-Free Workplace Act.
7. 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.

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

The bid must be verified and be presented on the 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 work 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 repair 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 Christina Street Sanitary Sewer Repairs, Capital Project No. 2286.
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 related to Proposal items. The work to be done under each item is discussed along with units for payment and measurement for payment. However, the descriptions given do not necessarily outline all the work to be done under any item. In addition, work shall conform to the following: *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's (IDOT's) Standard Specifications for Road and Bridge Construction*, current edition.

Throughout these specifications, the term "Owner" and "District" shall be synonymous.

In case of apparent contradictions between *Article 3 - Detailed Specifications*, *IDOT Standard Specifications*, and *General Provisions and Technical Specifications for Sanitary Sewer Construction*, *Article 3 - Detailed Specifications* shall govern.

Utility locations shown on the plans are based on the information obtained at the time of design and are not guaranteed. The orientation and location (horizontal and vertical) of all existing underground utilities, such as gas mains, water mains, electric lines, field tiles, irrigation pipes, etc., shall be ascertained by the Contractor. The Contractor shall assume full responsibility for the location of all utilities.

The general location of the proposed sewer is governed by existing field conditions. Minor variations in alignment may be made to facilitate construction operations with prior District approval.

Any construction not supervised by a Rock River Water Reclamation District (District) Inspector will not be accepted.

No work shall be permitted on Sundays or District Holidays without prior approval by the District Director of Engineering.

Suppliers shall implicitly warrant that their products and product components are suitable and appropriate for the intended use and that they are free from all material, design, or workmanship defects. Said warranty shall inure to the benefit of the District. The foregoing shall apply to all products and product components, whether constructed as directed by the Contract documents or produced by an outside source.

The District will not supervise, direct, control, have authority over or be responsible for the Contractor's means, methods, techniques, sequences, procedures of construction, safety precautions and programs incident thereto, or for any failure by the Contractor to comply with all applicable laws and regulations in performance of the specified work. The District will not be responsible for the Contractor's failure to perform or furnish the work in accordance with the Contract documents.

2 Permit Requirements

2.1 General

All work within public Right-of-Ways shall be subject to the regulations and requirements of the jurisdictional agencies. Should conflicts or contradictions arise between the plans, specifications and Right-of-Way permits, the permits shall govern.

The Contractor shall comply with the requirements of any and all permits obtained and required for the construction of this project, including but not limited to, the following:

Roadway Authority	Contact	Phone	Email
City of Rockford	Jordan Masemoore	(779) 348-7634	Jordan.masemoore@rockfordil.gov

Unless otherwise noted, the Contractor shall be responsible for securing all necessary permits and for all bonds, insurance, etc., and all fees required by any and all permits. Copies of all Contractor-secured permits shall be provided to the District prior to the start of construction.

2.2 Materials – Not used.

2.3 Required Submittals

1. Copies of signed permits, as applicable.

2.4 Payment

No payment shall be made for costs associated with permit procurement or compliance.

3 Notification, Access, and Special Considerations

3.1 Notification

The Contractor shall notify all utility companies prior to beginning any work. All underground utilities shall be located by the utility owner and special care shall be taken when excavating near underground utilities to avoid damage. Contractor shall call J.U.L.I.E. at (800) 892-0123 for utility locations in the project area, forty-eight (48) hours, minimum, prior to construction. More advanced notification shall be provided if required by permits.

The Contractor shall notify the District, all affected property and business owners, and all applicable roadway authorities forty-eight (48) hours, minimum, prior to beginning any work.

3.2 Access

The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of this project and shall maintain access to residences and businesses at all times during construction (i.e. drives, roadways, ramps, etc., must remain open or temporary access must be provided). All materials, equipment, labor, etc., necessary to assure access is maintained shall be incidental to the Contract.

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

3.3 Special Considerations

The City of Rockford is reconstructing Christina Street from 18th Avenue to 15th Avenue under separate contract. The City-contracted work will be performed immediately after, or concurrent with the sanitary repairs proposed under this Contract. Contractor shall coordinate scheduling of work under this Contract with District who will coordinate City personnel. The proposed schedule shall be approved by both the District and City prior to mobilization to perform work. The City of Rockford project manager for the Christina Street Reconstruction Project is Ken Mattson, ken.mattson@rockfordil.gov and (779) 348-7486.

3.4 Required Submittals

1. Project Schedule

3.5 Measurement and Payment

No payment will be made for costs associated with notification, access, and special considerations.

4 Traffic Control and Protection

4.1 General

This work shall consist of furnishing, installing, maintaining, relocating, and removing work zone traffic control and protection in accordance with *Section 701 of IDOT Standard Specifications* and the standard details shown in the plans. Contractor shall be solely responsible for the safety of all operations and shall comply with all State, local and OSHA regulations.

All work shall be in conformance with the current edition of the Illinois Department of Transportation's Manual on Uniform Traffic Control Devices for Street and Highways.

Add the following to *Section 701 of IDOT Standard Specifications*:

The Contractor will be required to furnish all traffic control devices necessary for the convenience and protection of vehicular and pedestrian traffic. Whenever Contractor operations endanger or interfere with vehicular traffic or pedestrians, as determined by the District or roadway authority, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his workmen at no extra cost.

The Contractor will be required to furnish flaggers as specified in the plans or as required by the District on a continuous basis whenever construction operations are in progress.

Traffic control devices may not be delivered to the site more than five (5) days prior to installation of the devices and must be removed from the site within five (5) days after the required work is complete.

The Contractor is responsible for the proper location, installation, and arrangement of all traffic control devices furnished. Whenever operations indicate that relocation of a proposed or existing traffic control device is advisable, as determined by the District, the Contractor shall remove, relocate, and reinstall the device in question at no additional cost.

All advance warning signs for lane closure, intermediate information signs, and standard signs shall be installed in accordance with *IDOT Highway Standards*. Cones will not be allowed as a traffic control device.

“WORKERS” (W21-1a (0) - 48) signs shall be replaced with symbol “Right or Left Lane Closed Ahead” (W4-2R or L (0) - 48) signs.

Daily or periodic lane closures shall be erected no earlier than 9:00 AM and shall be removed no later than 3:30 PM regardless of the day of the week. In the event that a lane closure will remain for more than one calendar day, the Contractor shall notify the City of Rockford at least six (6) hours in advance. Contact Ken Mattson at (779) 348-7486, ken.mattson@rockfordil.gov.

Emergency lane closures shall be erected and removed at the explicit direction of the roadway authority.

All advance warning signs and traffic control devices shall be removed or covered by the Contractor when such signs and devices are not in effect or at the direction of the District or roadway authority.

The basic layout for traffic control devices will be in accordance with the plans and specifications.

The Contractor is responsible for the maintenance of all traffic control devices installed. The Contractor shall provide surveillance of all barricades, barrels, warning signs, and lights which he has installed on a twenty-four (24) hour a day basis for each day of this Contract. In the event of severe weather conditions, the Contractor shall be required to furnish any additional personnel required to maintain all traffic control devices as required by the District. Surveillance shall mean checking control devices periodically, but not less than once every twelve (12) hours.

The Contractor shall provide the District and City of Rockford with the name, address, and telephone number of two (2) persons who will be responsible for maintaining the traffic control devices and who will be available to the City on an immediate basis twenty-four (24) hours a day. In the event one or both of the persons become unavailable, the Contractor shall furnish the contact information for other individuals who will be responsible.

The Contractor will be required to remove all traffic control devices which were furnished, installed, or maintained by him under this Contract and such devices shall remain the property of the Contractor upon said removal. All traffic control devices shall remain in place until specific authorization for removal is received from the District or roadway authority.

Contractor acknowledges that the nature of this project requires varying scopes of work at many locations throughout a large area. As such, no additional payment will be made for Traffic Control and Protection for any location additions, deletions or changes in scope of work at any particular location.

4.2 Materials

This item shall include all signs, signals, temporary pavement markings, other required traffic control markings, barricades, warning lights, and other devices which are to be used to regulate, warn or guide traffic during construction of this improvement in addition to *Article 701.03 of IDOT Standard Specifications*.

4.3 Required Submittals

1. Copies of approved traffic control plans, including detour routing and road closures as required by the roadway authority.

4.4 Payment

Payment for Traffic Control and Protection shall be made at the Contract Lump Sum (LS) price, complete.

5 Erosion and Sediment Control

5.1 General

The Contractor shall comply with all the requirements of the *IEPA Illinois Urban Manual*, current edition and *Article 280* of the *IDOT Standard Specifications*. All disturbed areas shall be restored to near original contours.

The Contractor shall take whatever measures the District deems necessary to prevent or eliminate excessive erosion or siltation. Actual field conditions may require additional measures beyond those cited. This shall include, but is not limited to: straw baling of ditches, stabilizing slopes with an approved geo-fabric and/or mulch, seeding, sodding, silt fence installation, rip rap, etc. Sediment control shall be provided around the perimeter of all stockpile areas.

Provisions shall be made to minimize the transport of sediment by runoff or vehicle tracking onto roadways. 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 District approval.

The Contractor shall maintain storm water flow in all ditches and storm water conveyance systems (storm inlets, pipes, culverts, etc.) disturbed as a result of construction. Ditches shall be rough graded at the end of each day and whenever rain is imminent.

Silt Fencing

Silt fencing shall conform to Standard 280001-07 of the *IDOT Highway Standards*. Silt fencing shall be Amoco 2127, or approved equivalent. Posts shall be 1.5" x 1.5" x 4' long, minimum, spaced 5' maximum on center. Silt fencing shall be installed prior to excavation or stockpiling of materials.

Inlet and Pipe Protection

This work shall consist of furnishing, installing, maintaining and retrieval of District-approved drainage inlet protection filters to retain storm water runoff sediment as required or as directed. Inlet protection shall be drop-in type installed in accordance with Illinois Urban Manual detail 561D. Filters shall be 9" or 12" diameter sediment logs, erosion eels or straw wattles as manufactured by North American Green (or District-approved equal).

The Contractor shall inspect the work site and review the plans to determine the sizes, types and numbers of inlet protection filters needed.

Erosion control devices shall remain in place until removal is directed by the District. All erosion control devices shall remain the property of the Contractor. Upon stabilization and approval, the Contractor shall promptly remove and dispose of all erosion control devices as well as all debris and sediment accumulations.

5.2 Materials

Temporary erosion control measures shall conform to *IL Urban Manual* and *Article 1081 of IDOT Standard Specifications*.

5.3 Required Submittals

Material specifications for erosion control products outlined below or as applicable:

1. Inlet and pipe protection products.

5.4 Payment

Payment for Inlet and Pipe Protection installation will be made at the Contract unit price per Each (EA) installed.

Additional erosion and sediment control measures not explicitly mentioned shall be provided, as needed or directed – no separate payment will be made for additional erosion and sediment control measures. No separate payment will be made for maintenance and retrieval of erosion control devices during construction and upon completion of construction.

6 Combination Curb and Gutter Removal

6.1 General

This work shall conform to applicable portions of *Section 440 of IDOT Standard Specifications* and consist of all labor, equipment and materials required to remove existing Portland cement concrete (PCC) combination curb and gutter to the limits indicated on the plans. Existing curb and gutter shall be saw-cut (full-depth) at removal limits or removed at the nearest construction joint.

Existing base aggregates shall remain in place. No additional payment will be made for grading, shaping

Final base preparation and installation of replacement curb and gutter will be by others.

6.2 Materials – Not used.

6.3 Required Submittals – Not used.

6.4 Measurement and Payment

Payment for Combination Curb and Gutter Removal shall be made at the Contract unit price per Linear Foot (LF) removed.

7 Sidewalk Removal

7.1 General

This work shall conform to applicable portions of *Section 440 of IDOT Standard Specifications* and consist of removing existing Portland cement concrete sidewalk as required to construct this project. Existing sidewalk shall be saw-cut at full depth or removed at the nearest existing construction joint.

Care must be taken to protect existing vertical joint faces from any damage. In all cases where drop-offs greater than two inches (2") exist temporary compacted aggregate wedges will be required. Cost of installation and removal of temporary wedges will be incidental to construction. No additional payment will be made for the removal of aggregate base or soil under existing sidewalk.

Final base preparation and replacement sidewalk to be installed by others.

7.2 Materials – Not used.

7.3 Required Submittals – Not used.

7.4 Payment

Payment for Sidewalk Removal will be made at the Contract unit price per Square Foot (SF) removed, irrespective of the thickness.

8 Pavement Removal

8.1 General

This work shall conform to applicable portions of *Section 440 of IDOT Standard Specifications* and consist of removing existing bituminous or concrete roadway pavement and driveway pavement as required to construct this project. Bituminous pavement shall be saw-cut full depth prior to removal at no additional cost to the District. PCC Pavement shall be saw-cut at full depth or removed at the nearest existing construction joint.

Care must be taken to protect bituminous and concrete vertical joint faces from any damage. In all cases where drop-offs exist, measures such as temporary asphalt pavement wedges will be required and the cost of furnishing, installing, and removal will be incidental to construction. No additional payment will be made for the removal of aggregate base or soil under the existing pavements.

8.2 Materials – Not used

8.3 Required Submittals – Not used.

8.4 Payment

Payment for Pavement Removal will be made at the Contract unit price per Square Yard (SY) removed, irrespective of the type or thickness.

9 Bypass Pumping Sanitary Sewers

9.1 General

The Contractor shall provide bypass pumping as required and shall be responsible for providing all piping, valves, pumps, power, fuel, plugs and other items to divert the flow of sewage as required to complete proposed work.

All pumping systems shall have adequate capacity to accommodate peak flows. The Contractor shall provide adequate 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 noise levels shall be restricted to ninety decibels (90 dB) or less.

The Contractor shall be responsible for maintaining the current level of service to all properties and shall be liable for any damage caused by sewer back-ups resulting from this project.

9.2 Materials – Not used.

9.3 Required Submittals

1. Pump specifications.
2. Temporary pipe and fitting specifications.

9.4 Payment

No separate payment will be made for bypass pumping. Costs associated with bypass pumping shall be incidental to sanitary sewer system related pay items.

10 Dewatering

10.1 General

Contractor shall use all means at his/her disposal to maintain dry trenches 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 discharge 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 require permits from 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; contact (815) 720-4000.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be his/her responsibility to provide any bonds, insurance's, guarantees, etc., as required by said permit(s). 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, the noise levels of equipment supplied shall be restricted to ninety decibels (90 dB) or less.

10.2 Materials – Not used.

10.3 Required Submittals

1. Copy of permits, as applicable.

10.4 Payment

No separate payment will be made for dewatering. Costs associated with dewatering shall be incidental to sanitary sewer system related pay items.

11 Sanitary Manhole Removal

11.1 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 IDOT Standard Specifications*.

Removed manhole castings may be delivered to the District's North Facility at 4850 Torque Road, Loves Park, Illinois between 7:00 a.m. and 3:30 p.m. Coordinate with a District Inspector or Construction Division Manager, Brian Markgraf at (815) 543-3470 a minimum of one (1) hour prior to delivery.

11.2 Submittals – Not used.

11.3 Payment

Payment for Sanitary Manhole Removal will be made at the contract unit price per Each (EA) removed, irrespective of existing material or diameter.

12 Rock Excavation

12.1 General

This item shall consist of furnishing all labor, equipment, tools, transportation, materials and operations needed to excavate, remove and dispose of rock material during the construction of the proposed project, when required and as approved by the District.

The Contractor shall demonstrate to the District that the material encountered while excavating within the designated limits of payment meet requirements described in T.S. 2:3 of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*. This demonstration shall be completed before the subsurface material is classified as rock. The following criteria will be used in the determination of whether or not the work will be considered rock excavation:

1. The guidelines and requirements of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.
2. A substantial reduction in production rate.
3. Visual evidence of large boulders, rock, granite, trap, quartzite, chert, limestone, hard sand stone, hard shale or slate, or other hard materials, in natural ledges or displaced masses which cannot be removed by a modern backhoe without resorting to the continuous use of pneumatic tools, blasting, barring or wedging for removal from their original beds.

12.2 Materials – Not used.

12.3 Required Submittals – Not used.

12.4 Measurement and Payment

Payment for Rock Excavation shall be made at the Contract unit price per Cubic Yard (CY) removed.

The limits of what will qualify as rock excavation will be determined by the District in the field. The maximum payable trench width shall not exceed the nominal pipe size plus eighteen inches (18") for 8" to 24" diameter pipes or the nominal pipe size plus twenty-four inches (24") for pipe sizes greater than 24" diameter. The maximum payable radius used to calculate volume of rock removed for manhole installation shall be the inside radius of the manhole plus twenty-four inches (24"). No additional payment will be made for extra rock excavation desired for work area enhancement or for areas needed to facilitate manhole or vault installations.

13 Bedding, Backfill and Compaction

13.1 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, as detailed on the District's *Standard Detail Sheet*.

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. 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 Standard 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.

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 at no extra cost.

13.2 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 *General Provisions and Technical Specifications* T.S. 2:4-c. Select trench backfill under said structures shall meet FA 6 gradation and be 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 *Section 208 and 550.07, Method 1* of the *IDOT Standard Specifications*.

For granular backfill, a vibratory plate or other approved equipment-mounted compaction equipment must be used. Lifts shall not to exceed eighteen inches (18"). Water-jetting, ponding or flooding will not be permitted as a means of trench compaction.

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%) of Proctor density, minimum. Contractor shall provide third-party confirmation of subgrade compaction at the District's request.

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 requirements specified above, the area shall be re-compacted and re-tested at the Contractor's expense until the test requirements are met. 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.

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.

13.3 Submittals

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

13.4 Payment

No separate payment will be made for bedding, backfill and compaction. Costs associated with bedding backfill and compaction shall be incidental to sanitary sewer system pay items.

14 Sanitary Manholes

14.1 General

This work shall consist of all labor, equipment and materials required to furnish and install pre-cast concrete sanitary manholes as directed by the District in accordance with the District *Standard Detail Sheet* and Article 6:3 and 7 of the District's *General Provisions and Technical Specifications*. Work shall include furnishing and placing a District-approved manhole frame and lid (Neenah R-1670 or EJ E-1117). **Manholes installed under this Contract will be final adjusted by others.**

Eccentric cone sections must be a component of all manholes. Unless otherwise noted in plans, flat-top structures will not be allowed.

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. No more than thirty inches (30") from the top of casting to the first step will be allowed.

The Contractor shall field verify all proposed rim elevations and shall construct manholes in accordance with the District *Standard Detail Sheet*.

Manhole frames shall be set 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 shall be Class "A" as specified in T.S. 5:3(a) in the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*. Absorption shall comply with ACI Specification P-I-C and ASTM C139, latest revision.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal. Minimum adjusting ring placement height is four inches (4"). Maximum adjusting ring placement height is twelve inches (12"). 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 roadways with curb and gutter.

In roadways only: metal or plastic shims will be required if the casting is located in a roadway and must be pitched to match the slope of pavement. Shims must be equally spaced with no more than one-inch (1") of total adjustment. If frame is shimmed, no butyl sealant (E-Z Stik, Kent-Seal, or equal) will be required 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 any additional requirements of the governing roadway authority.

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

The Contractor shall field verify the materials, sizes and elevations of all existing pipes to be connected. Pipe connections to new manholes shall be made by means of a watertight flexible pipe-to-manhole connector meeting the requirements of ASTM C923. 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 at a minimum of 15 psi hydrostatic pressure (A-LOK model X-CEL or District-approved equivalent).

All connections between new manholes and existing sanitary sewers shall be made with minimum 4.0' lengths of new PVC Pipe. Connection shall be made to structurally sound pipe.

All new manholes shall be vacuum tested per ASTM C1244 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to placing into service.

14.2 Materials

Materials for manholes and components shall be as shown on the District *Standard Detail Sheet*.

14.3 Required Submittals

1. Shop drawings for each manhole showing the number and height of barrel sections, height of cone section, total height of adjusting rings, location and spacing of steps and elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.
2. Frames and lids material specifications.
3. Chimney seals material specifications.

4. Barrel joint seals material specifications.
5. Manhole-to-pipe connection material specifications.
6. Manhole steps material specifications.
7. Exterior wall sealant material specifications.

14.4 Payment

Payment for Sanitary Manholes shall be made at the Contract unit price per Each (EA) installed of the diameter specified.

15 Reconstruct Sanitary Manhole

15.1 General

This work shall consist of reconstructing existing sanitary sewer manholes, as required, in accordance with *Section 602 of the IDOT Standard Specifications* and the *District Standard Detail Sheet*.

Manhole reconstruction shall include the removal of the existing casting, adjusting rings, pre-cast cone section, bricks or blocks in order to reconstruct the manhole structure to a depth of up to five feet (5'). The removal shall stop at an existing precast barrel section joint or course of bricks or blocks that is 90% intact, minimum. If necessary, a leveling bed of non-shrink cement shall be applied to the remaining top course.

For block or brick manholes only: The bottom of the new precast cone or barrel section to be placed on the existing structure shall not have a shi lap. It shall be full thickness and set on two (2) beads of 1" mastic material. A one foot (1') high by six-inch (6") thick concrete collar shall be poured around the entire outside of the manhole, centered on the joint.

15.2 Materials

Materials for manholes and components shall be as shown on the *District Standard Detail Sheet* and as specified elsewhere herein.

15.3 Required Submittals

1. Shop drawings for precast manhole components showing the number and height of barrel sections, height of cone section, total height of adjusting rings, and location and spacing of steps as applicable. Frames and lids material specifications.
2. Chimney seals material specifications.
3. Barrel joint seals material specifications.
4. Manhole steps material specifications.

15.4 Payment

Payment for Reconstruct Sanitary Manholes shall be made at the Contract unit price per Each (EA) completed.

16 Sanitary Sewer Service, 4" Dia.

16.1 General

This work shall consist of all labor, equipment and materials needed to furnish and install four-inch (4") diameter sanitary sewer service from the sewer main to the roadway Right-of-Way limits as shown on the plans, or as otherwise directed by the District. Installation shall conform to the requirements of the District's *General Provisions and Technical Specifications* and the District *Standard Detail Sheet*.

Work shall include connection to the proposed sanitary main with a new wye fitting, a 4" end-of-service riser (cleanout) and connection to existing service pipe at the limits of public Right-of-Way with a District-approved coupling.

For Replacement services, removal and disposal of existing service pipe and fittings shall be incidental.

16.2 Materials

Sanitary service pipe shall be PVC SDR 26 PVC WMQ pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139.

Clay to PVC and cast iron or ductile iron to PVC pipe transition couplings shall be Fernco 5000 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.

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.

16.3 Required Submittals

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

16.4 Measurement and Payment

Payment for Sanitary Sewer Service, 4" Diameter will be made at the Contract unit price per Each (EA) installed.

17 Temporary Pavement

17.1 General

This work shall consist of all labor, equipment and materials needed to furnish and place 2" of hot-mix asphalt binder course over compacted aggregate base course.

This work shall include subgrade preparation, removal and disposal of excess material, furnishing, placing and compacting base course aggregate and trimming and prepping aggregate base for subsequent pavement placement. Compacted aggregate base course thickness shall be twelve inches (12") and conform with *Section 351* of the *IDOT Standard Specifications*.

Existing base material may remain in place if approved by the roadway authority. No additional payment will be made for grading, shaping, and compacting existing base materials.

Placement of temporary pavement shall conform with *Section 406 of IDOT Standard Specifications*.

The work shall be performed to the satisfaction of the District and jurisdictional roadway authority. All roadway authorities shall be notified a minimum of forty-eight (48) hours prior to pavement replacement. All costs associated with placement of the bituminous tack coat shall be considered incidental to this item.

No vibratory rollers may be utilized on this project.

17.2 Materials

Base course aggregate shall be of CA-6 or CA-10 gradation. Course Aggregates shall be in accordance with *Article 1004.04 of the IDOT Standard Specifications*.

Hot-mix asphalt binder mixture composition shall be IL-19.0.

17.3 Required Submittals

1. Material gradation certifications for aggregates.
2. Hot-mix asphalt mix design.

17.4 Measurement and Payment

Payment for Temporary Pavement will be made at the Contract unit price per Square Yard (SY) installed.

18 Quality Control Tests and Certification

18.1 General

All costs of testing, installing, re-installing, backfilling, compaction, and re-testing of sanitary sewers and services shall be borne by the Contractor. All pipe shall be tested in accordance with ASTM and manufacturer's standards. The manufacturer shall furnish certified test reports with each shipment of pipe, run or unit of pipe extrusion.

Final, satisfactory low-pressure air tests, deflection tests and manhole vacuum tests shall be performed no later than sixty (60) days after the installation of each sewer main section (manhole-to-manhole). The 60-day period starts with the completion of the sewer main. The District reserves the right to suspend any or all work until the Contractor fully complies with this requirement.

After the final installation, backfilling and compaction have been completed and prior to starting the roadway replacement, low-pressure air tests and deflection tests shall pass on all sewer pipe throughout the project.

Low Pressure Air Test - Gravity Sewers:

Low-pressure air testing of sanitary sewers shall use an allowable timed pressure drop of 0.5 psig. The allowable air loss rate shall be 0.0015 cu.ft./min. All test times shall be calculated using Ramseier's equation $T = 0.85 DK/Q$, where:

- T = Shortest time, in seconds, allowed for the pressure to drop 0.5 psig
- K = 0.000419 DL, but not less than 1.0
- Q = 0.0015 cu.ft./minute/sq.ft. of internal surface
- D = Nominal pipe diameter, in inches
- L = Length of pipe being tested, in feet

This modifies T.S. 9.4 of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

Pipe Deflection Test:

After sewer installation, backfilling and compaction, all flexible sewer pipe shall be thoroughly cleaned and flushed with water and then, if not previously tested as elsewhere specified herein, the installed pipe shall be deflection tested by the Contractor at his own expense. Deflection testing shall be performed at least thirty (30) days after the trench has been backfilled.

If the vertical deflection exceeds five percent (5%) of the diameter, the Contractor shall replace the pipe. In the event that this pipe is used for replacement, it will be subject to the same vertical deflection test. The District reserves the right to make a vertical deflection test within a year following construction.

If deflection exceeds five percent (5%), the Contractor is responsible for replacing the pipe, as per G.C. 7:4 of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

In addition to the above and T.S. 8:2(c) of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*, use the following deflection test:

Testing of all lines shall be done with a Pin-Type Go/No-Go Gauge, pulled through all lines except the house leads. The diameter of the gauge shall be set at ninety-five percent (95%) of the inside diameter of the flexible pipe. The Pin-Type Go/No-Go Gauge will stop at any area in a flexible underground pipeline having vertical ring deflection greater than five percent (5%).

All pipe exceeding this deflection shall be considered to have reached the limit of serviceability and shall be re-laid or replaced by the Contractor at no additional cost to the owner. (WPCF Manual of Practice No. 9, page 222).

If possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines. Where deflection is found to be in excess of five percent (5%) of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, after the initial testing, should the deflected pipe fail to return to the original site (inside diameter) the line shall be replaced.

Vacuum Testing – Manholes:

All sanitary sewer manholes shall be vacuum tested per ASTM C-1244 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to placing into service.

18.2 Measurement and Payment

No separate payment will be made for quality control tests and certification. Costs associated with quality control tests and certification shall be incidental to sanitary sewer system related work.

19 Warranty

19.1 General

The Contractor shall unconditionally warrant all workmanship and materials for a period of two (2) years commencing on the date installation of the entire project is completed and accepted, in writing, by the District. The Contractor shall repair, at his own expense, any defects that become apparent during the warranty period. All repairs shall be performed in a manner that is mutually agreed upon by the District and the Contractor. Any such repairs shall likewise be covered by the same warranty period from the date of subsequent installation and written approval by the District.

Complete site restoration of any repairs shall also be the responsibility of the Contractor.

All trenches and related restoration shall be guaranteed against settlement for a period of three (3) years from the date the project is completed and accepted.

19.2 Payment

No separate payment will be made for warranty. Costs associated with warranty shall be incidental to sanitary sewer system related pay items.

Not to be used for bidding purposes

Section II
Contract Forms

Proposal

Project: Christina Street Sanitary Sewer Repairs
Capital Project No. 2286

Location: Christina Street from 18th Avenue to 15th Avenue in Rockford,
Illinois

Completion Date: June 30, 2021

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 101-0221 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 Rock River Water Reclamation District) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx.
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	Traffic Control and Protection			
2	6	EA	Inlet and Pipe Protection			
3	60	LF	Combination Curb & Gutter Removal			
4	64	SF	Sidewalk Removal			
5	120	SY	Pavement Removal			
6	4	EA	Sanitary Manhole Removal			
7	5	CY	Rock Excavation			
8	4	EA	Sanitary Manhole, 4' Diameter			
9	1	EA	Reconstruction Sanitary Manhole			
10	1	EA	Sanitary Sewer Service, 4" Diameter			
11	120	SY	Temporary Pavement			
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: Christina Street Sanitary Sewer Repairs, Capital Project No. 2286

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 Departments 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: **TEN PERCENT (10%) 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 _____, 2021, between the Rock River Water Reclamation District, Rockford, Illinois (District), acting by and through the Board of Trustees, and _____, his/their executors, administrators, successors or assigns:

2. Scope of Work

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

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

3. Contract Price

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

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

4. Bond

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

5. Maintenance and Guarantee

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

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

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

6. Contract Execution

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

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

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

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

7. Payments to Contractor

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

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

8. Subcontracts

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

9. Contractor's Responsibility

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

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

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

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

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

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

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

Contractor shall also comply with Public Act 101-0221, 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 Public Act 96-929 (30 ILCS 570) 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 June 30, 2021.

11. Liquidated Damages

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

12. Counterparts

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

13. Seals

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

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

(Seal)

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

(Corporate Seal)

By _____
Contractor's Officer

Name: _____

Title: _____

Date: _____

ATTEST: _____

Labor & Material Payment Bond

TO: _____ Contractor Name

Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That _____ (Contractor)

as Principal, and _____

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

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

WHEREAS, Principal has by written agreement dated _____ 20__ Entered into a Contract with Obligee for _____ in accordance with contract documents prepared by the Rock River Water Reclamation District which Contract is by reference made a part hereof, and is hereinafter referred to as "the Contract".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 280 ILCS 130 / 1-12 et seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

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

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

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

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Performance Bond

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

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

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

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

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

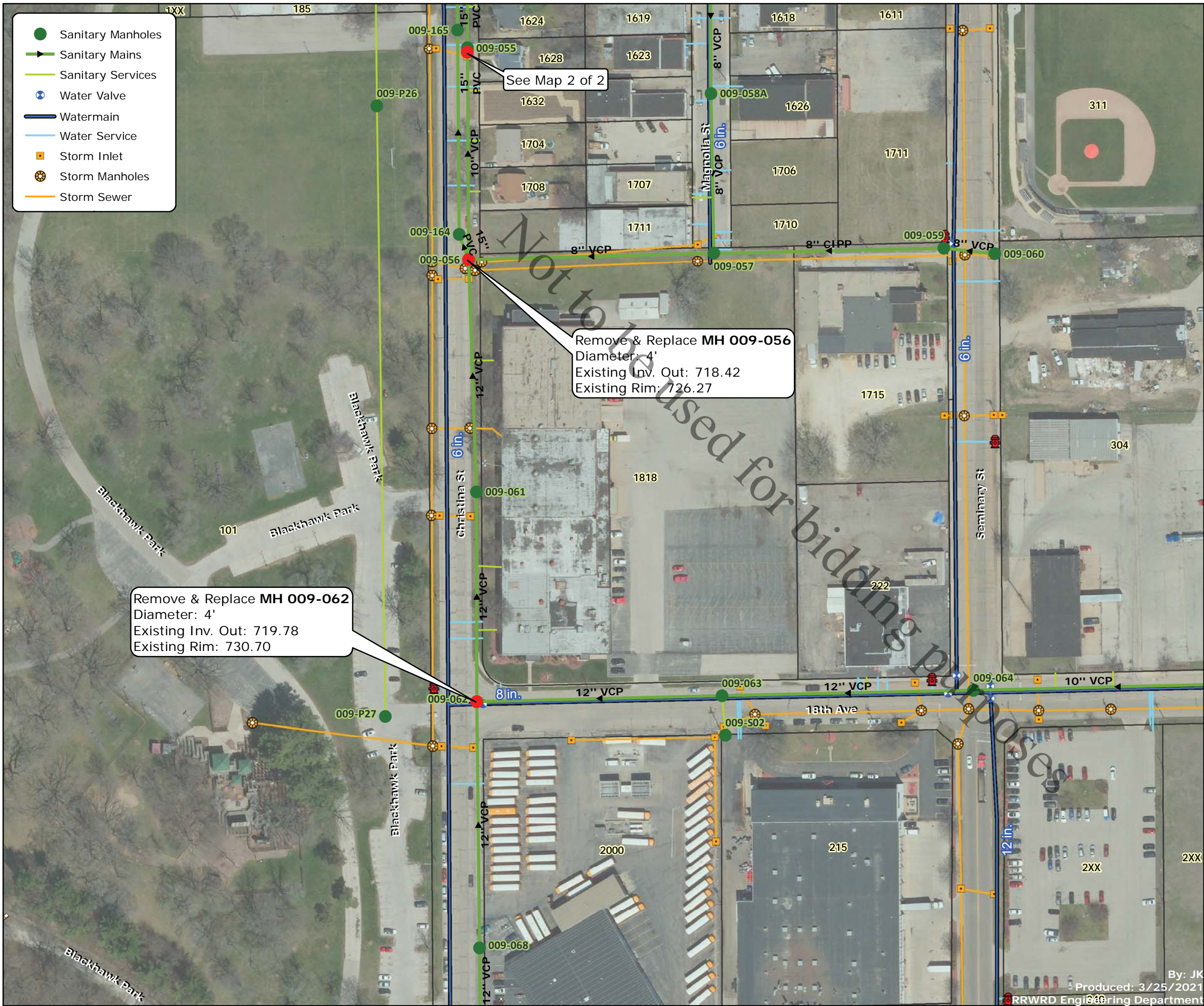
ATTEST:

Corporate Secretary (Corporations only)

Section III

Supporting Information

- **Location Maps**
- **Detour Plan**
- **Existing Manhole Inspections**
- **RRWRD Standard Detail Sheet**
- **IDOT Standard 280001-07**



Notes

The City of Rockford is reconstructing Christina Street from 18th Avenue to 15th Avenue under separate contract. Contractor shall coordinate scheduling the proposed sanitary sewer work with the City's Project Manager, Ken Mattson, ken.mattson@rockfordil.gov, (779) 348-7486.

Contractor shall install traffic control signage as detailed in these specifications. To avoid conflict with any concurrent or planned detours, all traffic control measures shall be approved by the City of Rockford prior to installation.

Unless noted otherwise, manhole bases shall be delivered to the site with only the opening for the pipe exiting the manhole cast in place. The openings for pipes entering the manhole shall be core-drilled in the field. A District-approved flexible pipe to manhole connector shall be installed in the field.

Inlet and piper protection shall be installed per specifications prior to any pavement cuts or excavation.

Temporary pavement, if required, shall be 2" of HMA binder placed on 12" compacted base course aggregate.

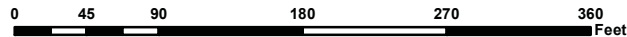
Unless noted otherwise final pavements, curb and gutter, sidewalk and restoration shall be completed by others.

Summary of Quantities - Map 1 of 2

1. Inlet and Pipe Protection: 3 EA
2. Combination Curb & Gutter Removal: 20 LF
3. Pavement Removal: 55 SY
4. Sanitary Manhole Removal: 2 EA
5. Sanitary Manhole, 4' Diameter: 2 EA
6. Temporary Pavment: 55 SY

**Quantities shown are estimates only, payment will be based upon actual installed quantities*

Christina Street Sanitary Sewer Repairs - Map 1 of 2



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 009-056	Inspector: CN/JS	Date: 7-8-20
Address/Location: 1712 Christina		
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"/>	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"/>	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"/>	
Qty	Size							
1	4"							

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 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 type="checkbox"/>
	Other <input type="checkbox"/>			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 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 type="checkbox"/>

GPS Rim Elev: 726.27	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input type="checkbox"/>
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S E	In MH 1 (Upstrm) 009-061	Depth High: _____	Elev: _____	Depth Low: 7.80	Elev: 718.47
	In MH 2 (Upstrm) 009-057	Depth High: _____	Elev: _____	Depth Low: 7.75	Elev: 718.52
	In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

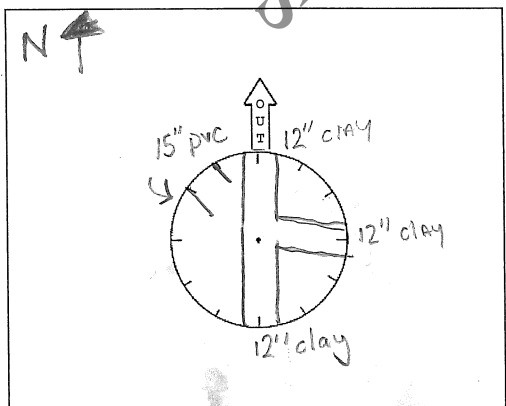
Serv 1 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 2 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
Serv 3 Clock Pos: _____	Address: _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

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

Out MH 1 (Dwnstrm) 009-055	Depth: 7.85	Elev: 718.42
Out MH 2 (Dwnstrm) 009-164	Depth: 7.45	Elev: 718.82

Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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Comments: _____



MH 009-056



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 009-062 Inspector: CN Date: 4-8-20

Address/Location: Intersection of Christina & 18 Ave

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

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 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 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 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 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 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 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 type="checkbox"/>	

GPS Rim Elev: 730.70 MH Diameter: 4' Surcharge: Yes ☐ No ☒

In MH 1 (Upstrm) 009-063 Depth High: -10.80 Elev: 719.90 Depth Low: _____ Elev: _____
 In MH 2 (Upstrm) 009-068 Depth High: -10.90 Elev: 719.80 Depth Low: _____ Elev: _____
 In MH 3 (Upstrm) _____ Depth High: _____ Elev: _____ Depth Low: _____ Elev: _____

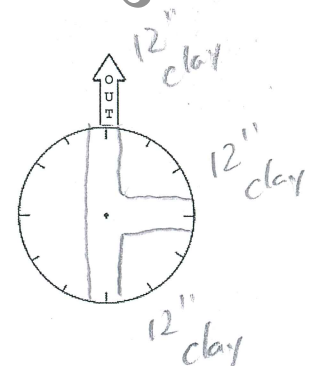
Serv 1 Clock Pos: _____ Address: _____
 Depth High: _____ Elev: _____ Depth Low: _____ Elev: _____
 Serv 2 Clock Pos: _____ Address: _____
 Depth High: _____ Elev: _____ Depth Low: _____ Elev: _____
 Serv 3 Clock Pos: _____ Address: _____
 Depth High: _____ Elev: _____ Depth Low: _____ Elev: _____

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

Out MH 1 (Dwnstrm) 009-061 Depth: -10.92 Elev: 719.78
 Out MH 2 (Dwnstrm) _____ Depth: _____ Elev: _____

Metered ☐ Outside Drop ☐ Inside Drop ☐

Comments: Castings need to be slid 6"-8" to the east to line up



MH 009-062



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>609-054</u>	Inspector: <u>CH / JS</u>	Date: <u>7-8-20</u>
Address/Location: <u>201 15th 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"/>	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"/>	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"/>	
Qty	Size							
6	rows							

Bench:	Conc. <input checked="" type="checkbox"/>	Flat <input type="checkbox"/>	Steps:	Cast Iron <input 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 type="checkbox"/>
	Brick <input type="checkbox"/>	3/4 <input checked="" type="checkbox"/>		None <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>		Cone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other <input type="checkbox"/>			1st < 30" from Rim	Yes <input type="checkbox"/> No <input type="checkbox"/>		Wall	<input 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 type="checkbox"/>		Bench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

GPS Rim Elev: <u>724.49</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm)	<u>009-055</u>	Depth High:		Elev:		Depth Low:	<u>7.60</u>	Elev:	<u>716.89</u>
In MH 2 (Upstrm)		Depth High:		Elev:		Depth Low:		Elev:	
In MH 3 (Upstrm)		Depth High:		Elev:		Depth Low:		Elev:	

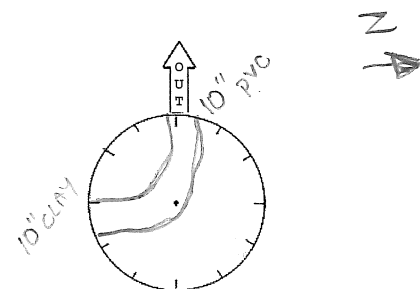
Serv 1 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	
Serv 2 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	
Serv 3 Clock Pos:		Address:	
Depth High:		Elev:	
Depth Low:		Elev:	

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

Out MH 1 (Dwnstrm)	<u>099-166</u>	Depth:	<u>7.60</u>	Elev:	<u>716.89</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: CASTING offset 1/2 due to curbline



MH 009-054



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: <u>009-055</u>	Inspector: <u>CH/JS</u>	Date: <u>7-8-20</u>
Address/Location: <u>1628 Christina</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"/>	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 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 <u>1</u> Size <u>row</u>	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 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 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>724.99</u>	MH Diameter: <u>4'</u>	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm) <u>009-056</u>	Depth High: _____	Elev: _____	Depth Low: <u>7.40</u>	Elev: <u>717.59</u>
In MH 2 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____
In MH 3 (Upstrm) _____	Depth High: _____	Elev: _____	Depth Low: _____	Elev: _____

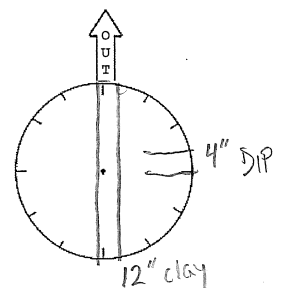
Serv 1 Clock Pos: <u>3:00</u>	Address: <u>1628 Christina</u>
Depth High: _____	Elev: _____ Depth Low: <u>6.80</u> Elev: <u>718.19</u>
Serv 2 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____
Serv 3 Clock Pos: _____	Address: _____
Depth High: _____	Elev: _____ Depth Low: _____ Elev: _____

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

Out MH 1 (Dwnstrm) <u>009-054</u>	Depth: <u>7.40</u>	Elev: <u>717.59</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: No GASKET



MH 009-055



ROCK RIVER WATER RECLAMATION DISTRICT

Manhole Inspection Form

Manhole ID: 009-166	Inspector: CN/JS	Date: 7-8-20
Address/Location: 201 15th Ave		
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"/>	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 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"/>	Cone:	Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>	Wall / Base:	Precast <input checked="" type="checkbox"/>	Good <input checked="" type="checkbox"/>
	Brick <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input type="checkbox"/>		Brick <input type="checkbox"/>	Fair <input 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						Coating <input type="checkbox"/>	
3	(1) 2" (2) 6"							

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

GPS Rim Elev: 724.04	MH Diameter: 4'	Surcharge: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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In MH 1 (Upstrm)	009-165	Depth High:	Elev:	Depth Low:	7.75	Elev:	716.29
In MH 2 (Upstrm)	009-054	Depth High:	Elev:	Depth Low:	7.75	Elev:	716.29
In MH 3 (Upstrm)		Depth High:	Elev:	Depth Low:		Elev:	

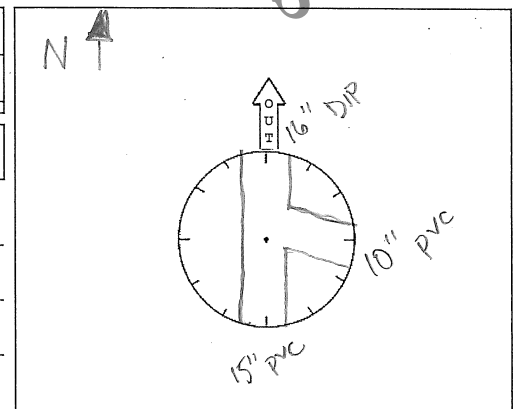
Serv 1 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 2 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:
Serv 3 Clock Pos:	Address:	Depth High:	Elev:	Depth Low:	Elev:

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

Out MH 1 (Dwnstrm)	009-053	Depth:	7.83	Elev:	716.21
Out MH 2 (Dwnstrm)		Depth:		Elev:	

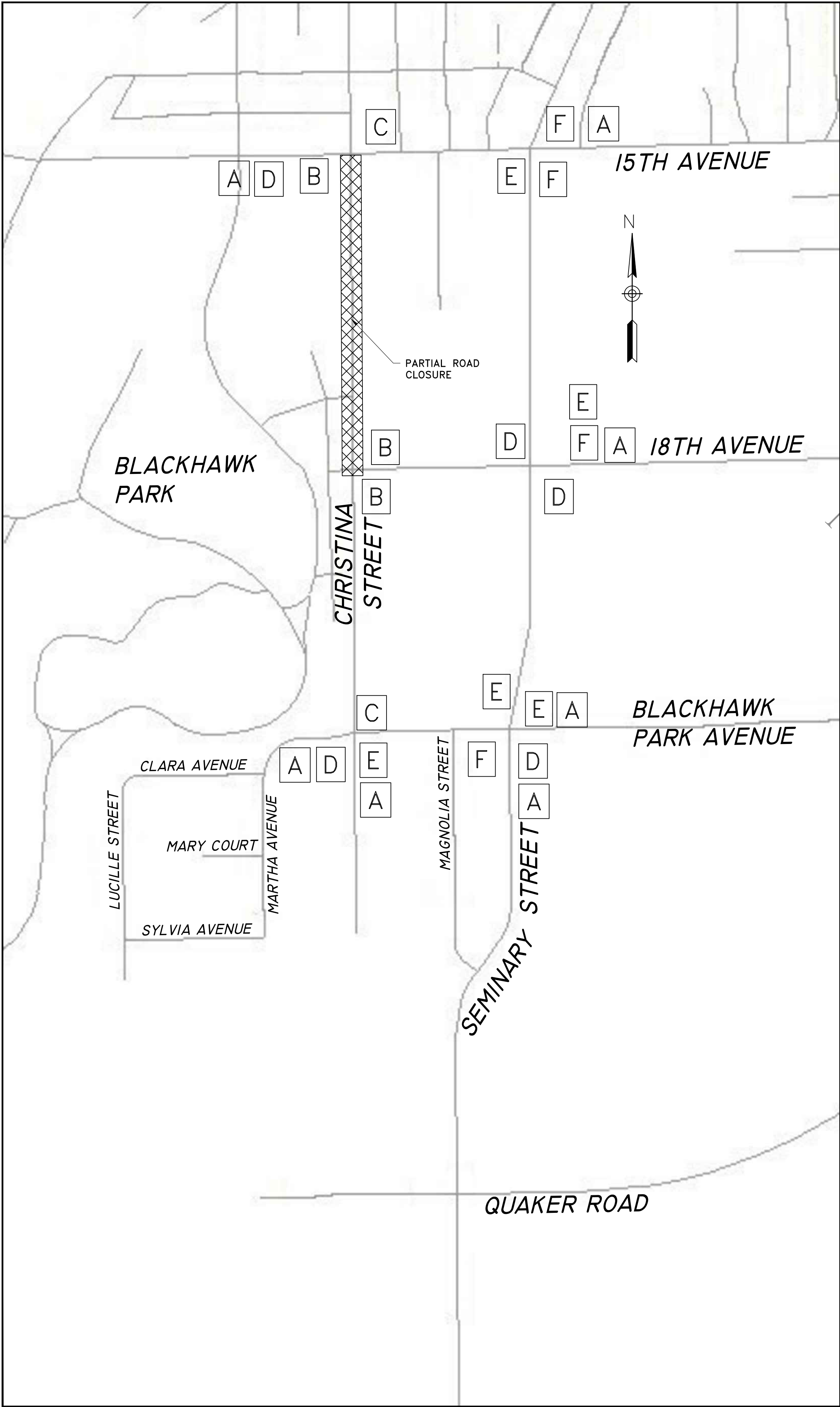
Metered <input type="checkbox"/>	Outside Drop <input type="checkbox"/>	Inside Drop <input type="checkbox"/>
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Comments: NO GASICOT



MH 009-166



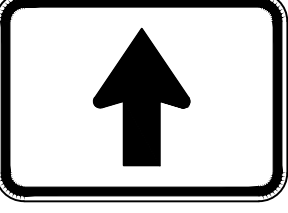


Not to be used for bidding purposes



A

W20-2



D

M4-8
W16-8
M6-3



B

R11-4



C

M4-8A



E

M4-9R
W16-8



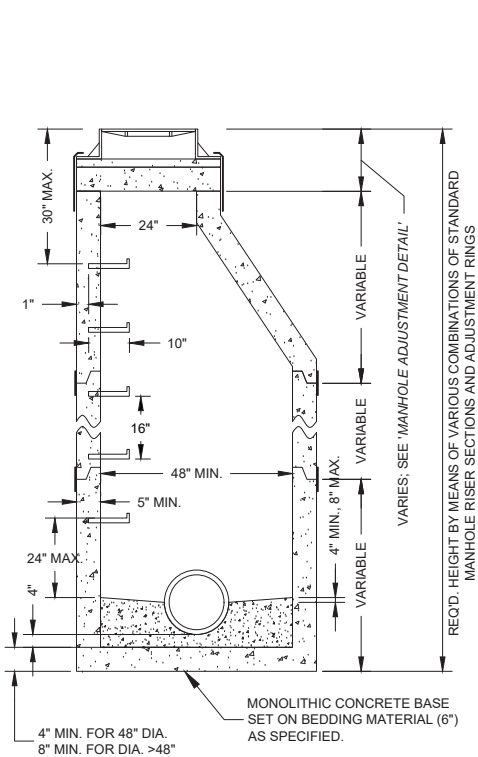
F

M4-9L
W16-8

NOTE:
SEE IDOT DIST 2 HIGHWAY STANDARD 40.1 FOR ADDITIONAL ROAD CLOSURE DETAILS.
TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DETAILS AS SHOWN IN THE PLANS.
CONTRACTOR SHALL COORDINATE WITH THE ROCK RIVER WATER RECLAMATION DISTRICT REGARDING THE PARTIAL CLOSURE OF CHRISTINA STREET TO THROUGH TRAFFIC FROM 15TH AVENUE TO 18TH AVENUE FOR APPROXIMATELY ONE TO TWO WEEKS PRIOR TO COMMENCEMENT OF ROADWAY CONSTRUCTION.

DETOUR PLAN CHRISTINA STREET RECONSTRUCTION - PHASE II			
		PUBLIC WORKS DEPARTMENT 425 E. STATE STREET ROCKFORD, IL 61104 P: (815) 987-5570	
DATE	SCALE	DRAWN	SHEET NO.
2/19/2021	NTS	KRL	5 of 17

3/2/2020 Revisions:
Manhole Adjustment Detail: deleted previous note 5, added/modified notes 3,4,5,6,9.
Rigid Pipe Bedding Detail: added leader pertaining to trench wall.
Flexible Pipe Bedding Detail: added leader pertaining to trench wall.
Flexible Saddle Connection Details (2): added note below detail name.



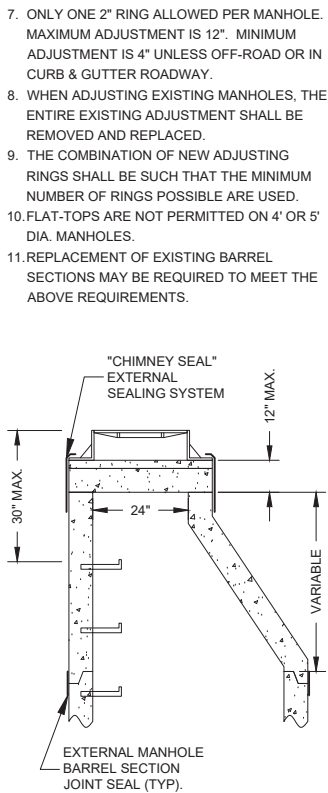
STANDARD MANHOLE DETAIL
(*MANHOLE ADJUSTMENT DETAIL* SHALL APPLY)

- NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
 2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
 3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
 4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/8" BITUMINOUS MATERIAL ON THE LOWER SHIPLAP.
 5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP OR APPROVED EQUAL).
 6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
 7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
 8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
 9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. A DISTANCE GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP MANHOLE DETAIL'.
 12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL AT 16" CENTERS.

rev. 4/1/19

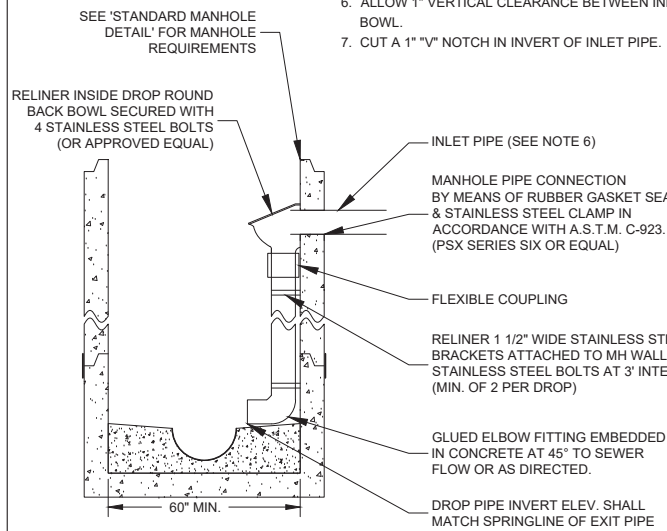
- NOTES:
1. MANHOLE FRAME & LID SHALL BE NEENAH R-1670 OR EAST JORDAN E-1117 WITH NON-ROCKING & SELF-SEALING LID.
 2. LID SHALL HAVE 2" HIGH "SANITARY" LETTERING & A CONCEALED PICK HOLE.
 3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE, HIGH DENSITY POLYETHYLENE (HDPE), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN HDPE OR EPP RING.
 4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALER, INCLUDING FRAME TO CONCRETE JOINT. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
 5. FOR HDPE OR EPP ADJUSTING RINGS, THE MAX. AMOUNT OF ADJUSTMENT IS 3" FOR HDPE & 6" FOR EPP. HDPE & EPP RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE AN 'ADJUSTMENT' RING PER MANUFACTURER'S INSTRUCTIONS.
 6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.

MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)



rev. 3/11/20

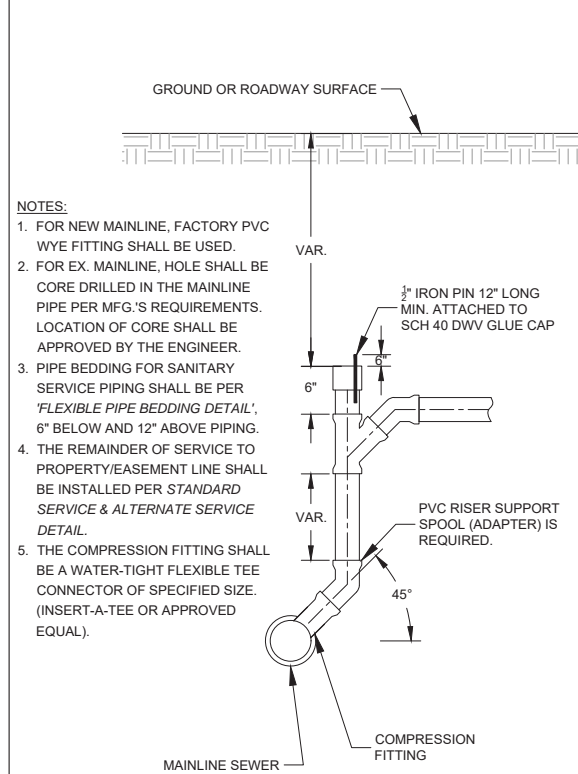
DROP BOWL & DROP PIPE SIZING TABLE	
INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*
* PER MFG. OR AS DIRECTED BY RRWRD	



INSIDE DROP MANHOLE DETAIL
(*STANDARD MANHOLE DETAIL* SHALL APPLY)

- NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
 2. ALL INSIDE DROP TYPE CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY RELINER-DURAN INC. OR EQUAL.
 3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
 4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
 5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8"x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFG. RECOMMENDATIONS.
 6. ALLOW 1" VERTICAL CLEARANCE BETWEEN INLET PIPE & BOWL.
 7. CUT A 1" "V" NOTCH IN INVERT OF INLET PIPE.

rev. 5/15/18

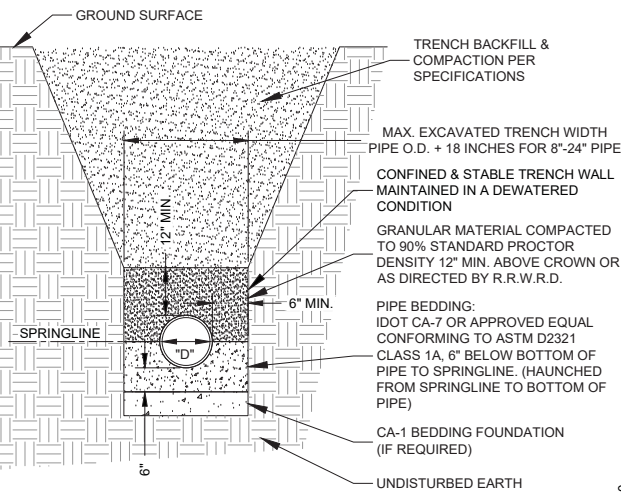


- NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
 2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
 3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
 4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER STANDARD SERVICE & ALTERNATE SERVICE DETAIL.
 5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).

VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 5/15/18

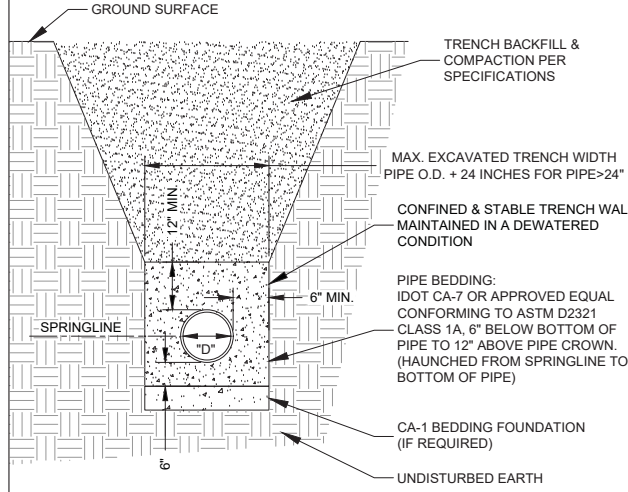
- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



RIGID PIPE BEDDING DETAIL

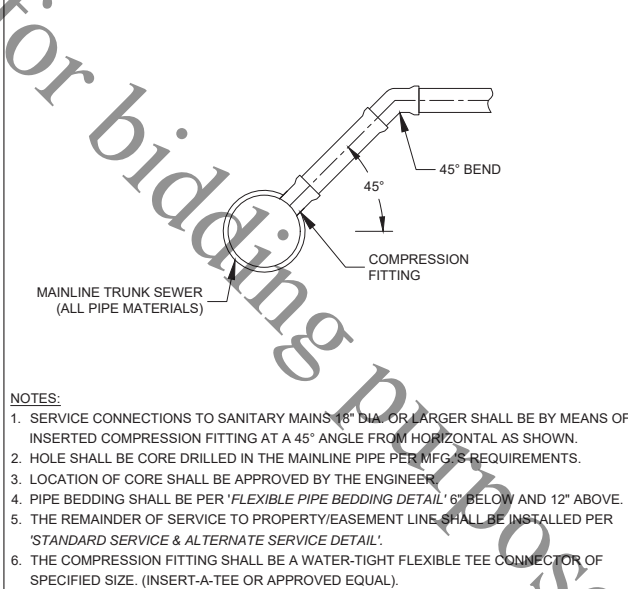
rev. 3/11/20

- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



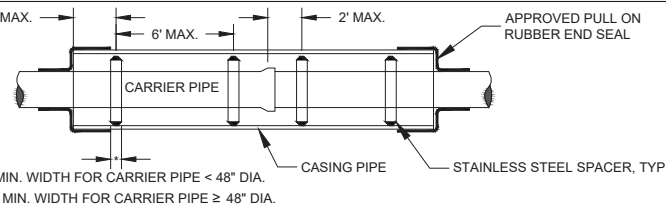
FLEXIBLE PIPE BEDDING DETAIL

rev. 3/11/20



SERVICE CONNECTION DETAIL FOR CONNECTION TO 18" DIA. OR LARGER PIPE

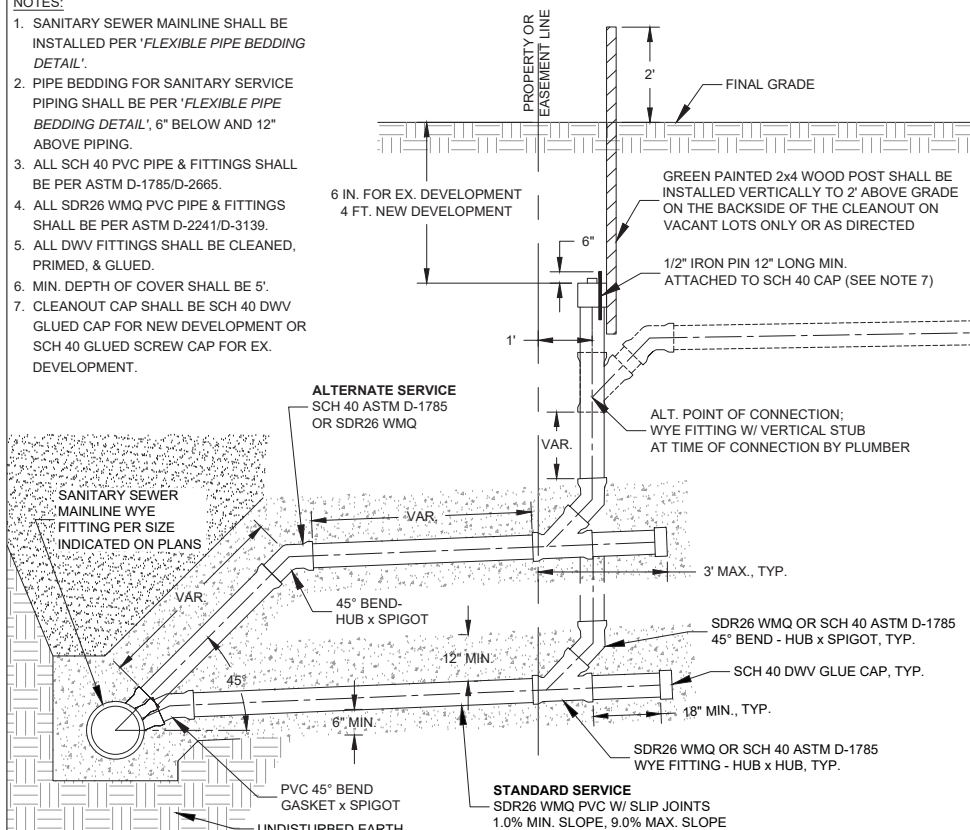
rev. 3/11/20



- NOTES:
1. CASING END SEALS & SPACERS SHALL BE AS MFG. BY CASCADE MFG., OR APPROVED EQUAL.
 2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFG.'S RECOMMENDATION.
 3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFG.'S RECOMMENDATION.

CASING & SPACER DETAIL

rev. 5/15/18



STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18")

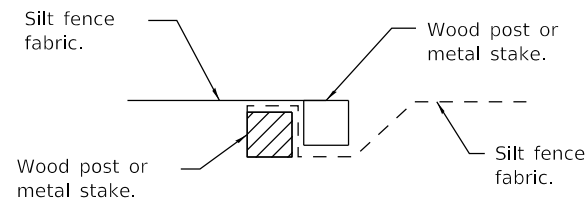
rev. 4/1/19



ROCK RIVER WATER RECLAMATION DISTRICT
STANDARD DETAIL SHEET
(NOT TO SCALE)

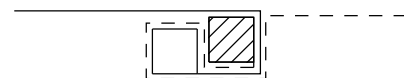
3501 KISHWAUKEE ST. P.O. BOX 7480
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

ISSUE 3/11/2020



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

STEP 1

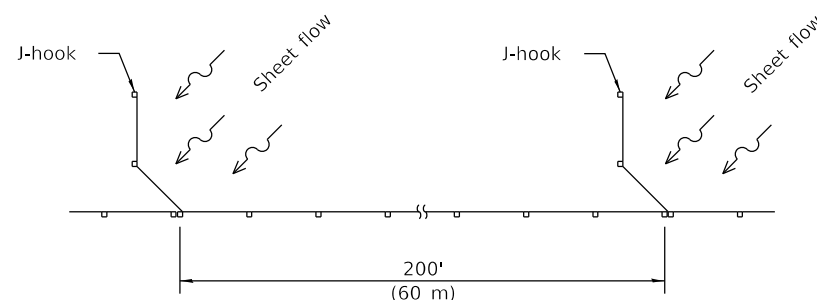


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

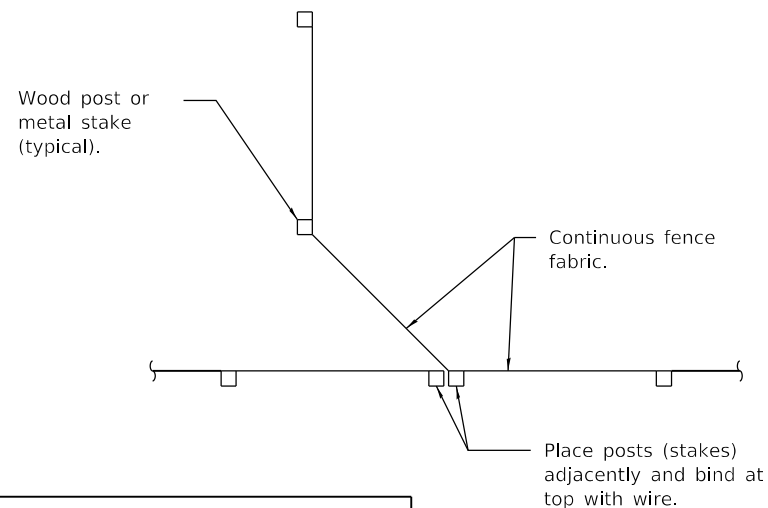
STEP 2

ATTACHING TWO SILT FILTER FENCES

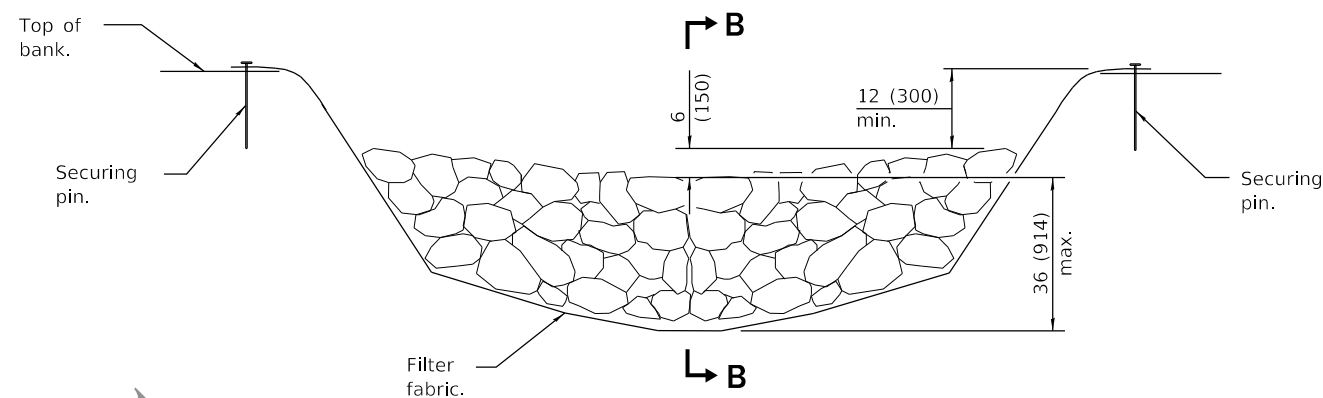
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

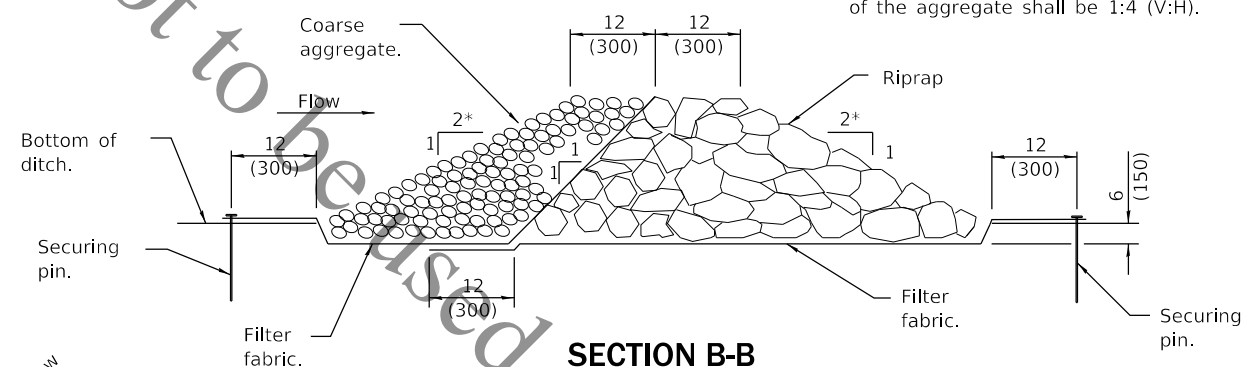


J-HOOK



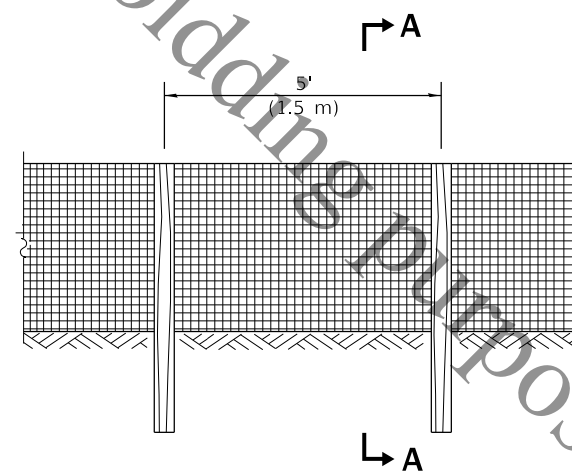
ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



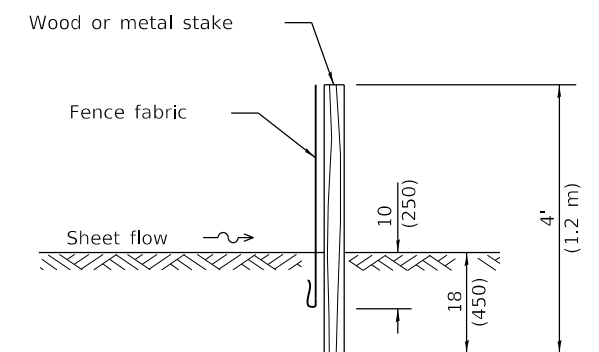
SECTION B-B

AGGREGATE DITCH CHECK

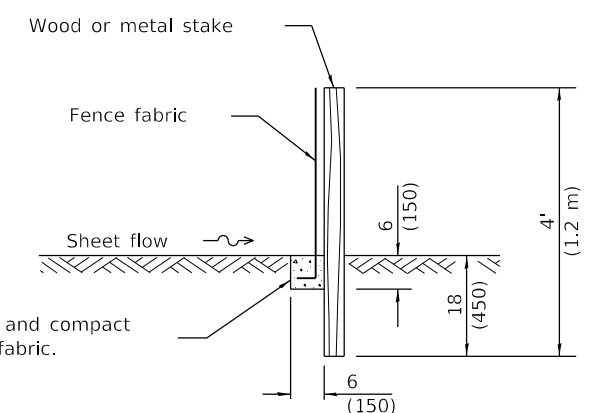


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



Excavate, backfill and compact trench to secure fabric.

TRENCH METHOD

SECTION A-A

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-13	Corrected notation for flowline (f _l) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-07

Illinois Department of Transportation

PASSED January 1, 2013

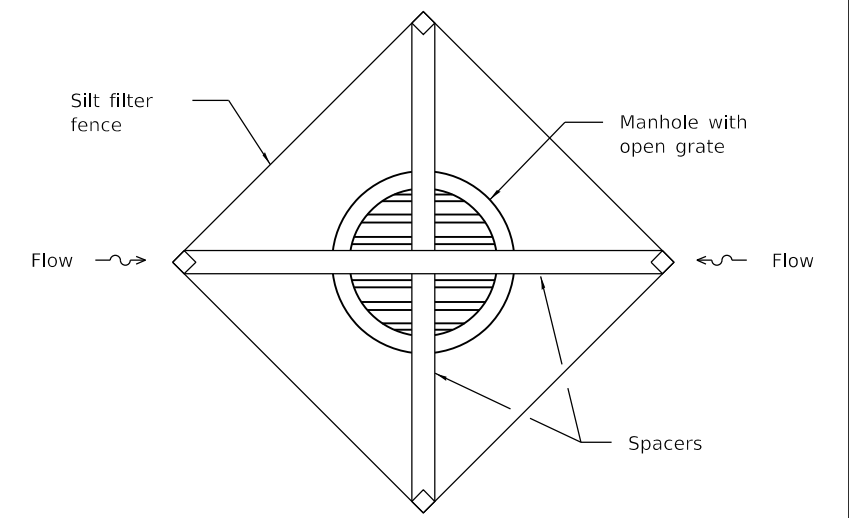
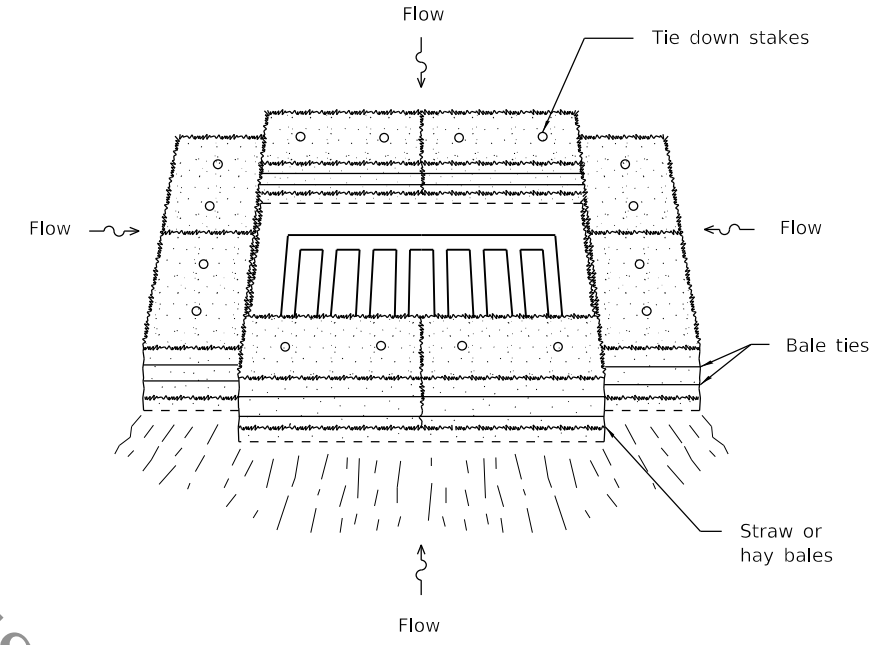
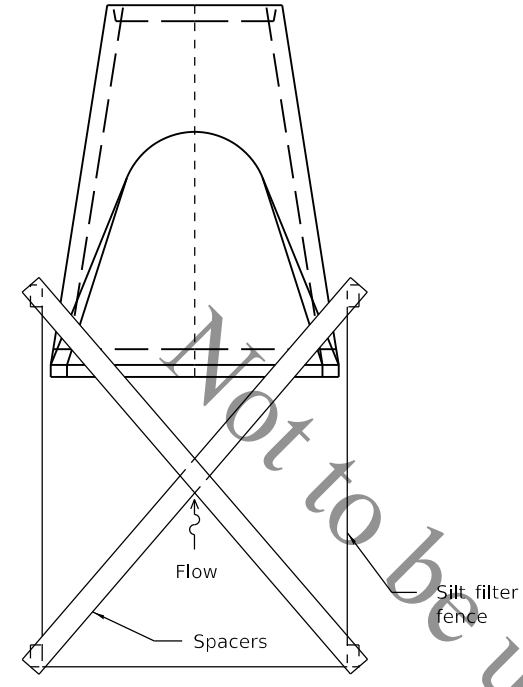
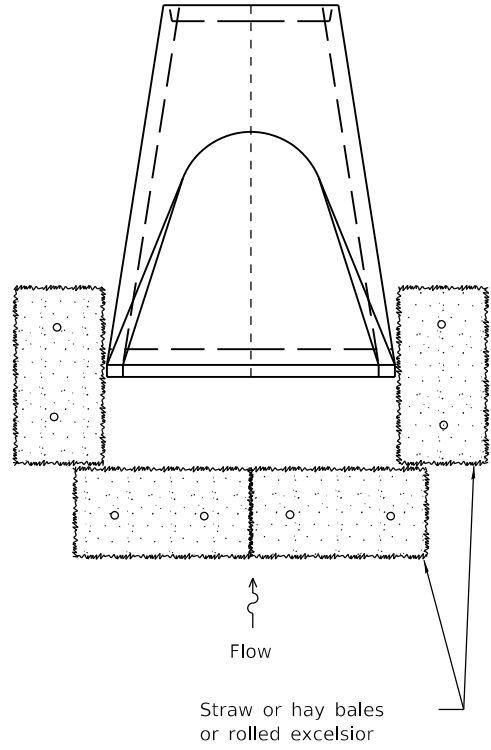
Michael Brand

ENGINEER OF POLICY AND PROCEDURES

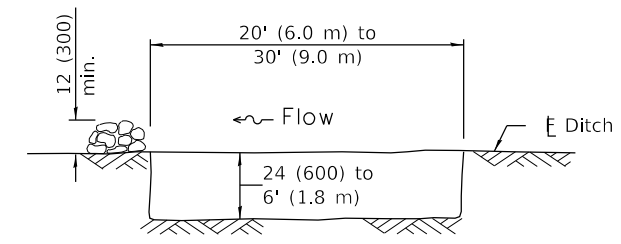
APPROVED January 1, 2013

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

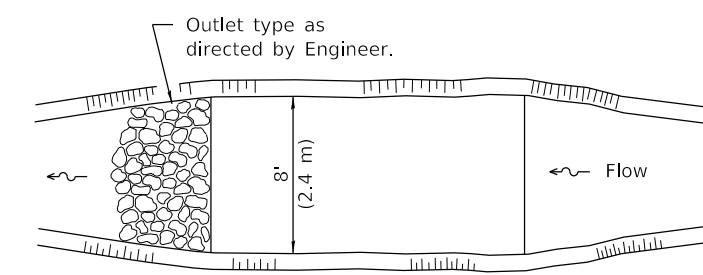


INLET AND PIPE PROTECTION



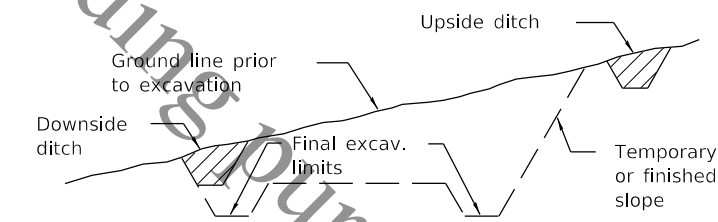
The performance of the basin will improve if put into a series.

ELEVATION

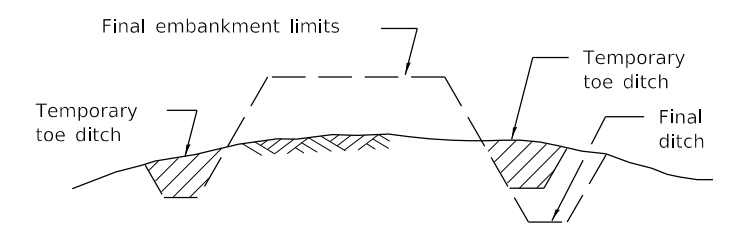


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

SEDIMENT BASIN

Illinois Department of Transportation	
PASSED January 1, 2013 Michael Brand ENGINEER OF POLICY AND PROCEDURES	ISSUED 1-1-97
APPROVED January 1, 2013 ENGINEER OF DESIGN AND ENVIRONMENT	

<h2>TEMPORARY EROSION CONTROL SYSTEMS</h2> <p>(Sheet 2 of 2)</p>
<h3>STANDARD 280001-07</h3>

Not to be used for bidding purposes

Section IV

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)