

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

Bidding Requirements and Contract Forms

for

Plant Roadway Replacement 2019

Capital Project No. 2006

Not to be used for bidding purposes

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

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

for

Plant Roadway Replacement 2019

Capital Project No. 2006

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Section I

Bidding Requirements

Article 1 — Notice to Bidders

The Rock River Water Reclamation District (District) will receive sealed and signed bids for Plant Roadway Replacement 2019, Capital Project No. 2006, at the District office located at 3501 Kishwaukee Street, Rockford, Illinois until 11:00 a.m. on Tuesday, May 14, 2019 at which time and place responsive / responsible bids will be publicly opened and read aloud.

The Plant Roadway Replacement 2019, Capital Project No. 2006, consists of the construction of 1,934 SY of 10" jointed Portland Cement Concrete pavement, 954 LF of combination Portland Cement Concrete curb and gutter, 2,534 SF of 4" Portland Cement Concrete sidewalk, hot-mix asphalt paving, storm sewer installation, abandonment, adjustment, and reconstruction of utility structures, turf restoration and all other appurtenances as indicated on the plans and in the specifications.

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

All underground construction, paving, testing, and restoration shall be completed by September 6, 2019. Liquidated damages shall be \$300 per calendar day.

Bid documents may be obtained upon receipt of payment of \$50 per set (non-fundable) by contacting the District Engineering Department at 815-387-7660.

Plans and specifications may also be viewed at the Northern Illinois Building Contractors Association, whose office is located at 1111 S. Alpine Rd, Rockford, IL. For more information, visit the District website at www.rrwr.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) by the Rock River Water Reclamation District of Rockford.

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

A Mandatory Pre-Bid Meeting for this project will be held on Thursday, May 2, 2019 at 1:00 PM at the RRWRD Board Room, 3501 Kishwaukee Street, Rockford, Illinois. All Contractors intending to bid on this project must attend the pre-bid meeting.

The successful bidder will be required to furnish a satisfactory performance bond in the full amount of the bid or proposal. No bid shall be withdrawn without the consent of the District for a period of sixty (60) days after the scheduled time of receiving bids.

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

Dated this 23rd day of April, 2019.



BY: Chris Black, Business Manager

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Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

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

1.2 Contradictions

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

2 Legal Requirements

2.1 Illinois Regulations

1. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Rock River Water Reclamation District) to submit certified payroll records on a monthly basis, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing false records is a Class B Misdemeanor.

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

2. Public Act 83-1030 entitled "Steel Products Procurement Act" requires that steel products used or supplied in performance of this contract or subcontract shall be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

- a. Where the contract involves an expenditure of less than \$500.
 - b. Where the executive head of the public agency certifies in writing that
 - i. the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
 - ii. obtaining the specified products, manufactured or produced in the United States would increase the cost of the contract by more than 10%.
 - c. When its application is not in the public interest.
3. Public Act 96-929 (30 ILCS 570) provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State

of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.

4. Public Act 99-0933 requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
 - a. the illegality of sexual harassment
 - b. the definition of sexual harassment under Illinois State law
 - c. a description of sexual harassment, utilizing examples
 - d. my (our) organization's internal complaint process including penalties
 - e. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
 - f. directions on how to contact the Department and the Commission
 - g. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act

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

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

2.2 Americans with Disabilities Act

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

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

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

3 General Instructions

3.1 Bidder's Responsibility

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

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

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

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

3.2 Addenda and Interpretations

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

3.3 Laws and Regulations

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

3.4 Quantities Estimated Only

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

3.5 Form, Preparation, and Presentation of Proposals

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

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

The Contractor 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 District reserves the right to request additional information as needed to evaluate bids prior to making an award.

3.9 Comparison of Proposals

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

3.10 Acceptance of Bids and Basis of Award

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

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

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

3.10.1 Evaluation of Responsiveness

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

3.10.2 Evaluation of Responsibility

To be judged as responsible, the bidder shall:

- a. Have adequate financial resources for performance, the necessary experience, organization, technical qualifications, and facilities, or a firm commitment to obtain such by subcontracts;
- b. Be able to comply with the required completion schedule for the project;
- c. Have a satisfactory record of integrity, judgment, and performance, including, in particular, any prior performance on contracts from the District;
- d. Have an adequate financial management system and audit procedures, that provide efficient and effective accountability and control of all property, funds, and assets;

- e. Conform to the civil rights, equal employment opportunity and labor law requirements of the Bid Documents.
- f. Have satisfactorily completed no less than three (3) sanitary sewer system contracts within the past five (5) years of equal or greater value to the bid being submitted.

3.11 The Rejection of Bids

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

3.12 Insurance and Bonding

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

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

3.12.1 General

The Contractor shall ensure that:

1. All insurance policies shall be specific to the project.
2. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for the Plant Roadway Replacement 2019, Capital Project No. 2006.
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

1.1 General

This article contains detailed specifications relating to proposal items. The work to be done under each item is discussed along with units for payment and measurement for payment. However, the descriptions given do not necessarily outline all the work to be done under any item. In addition, all work shall conform to the *Standard Specifications for Water and Sewer Main Construction in Illinois*, current edition, the *Rock River Water Reclamation District (District) General Provisions and Technical Specifications for Sanitary Sewer Construction*, and the *Illinois Department of Transportation's Standard Specifications for Road and Bridge Construction*, current edition (“*IDOT Standard Specifications*”), as applicable.

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

In case of apparent contradictions between Article 3 - Detailed Specifications and the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*, these Detailed Specifications shall govern.

The Contractor shall transport all waste material, pipe, pavement, sewer and debris, etc., removed during construction to an approved offsite dumping area. The Contractor shall pay all tipping fees. When the work is halted due to rain, the Contractor shall clean up the working areas before leaving the site and ensure that proper surface drainage is provided.

Utility locations shown on the plans are based on record information made available at the time of design and are not guaranteed. The location and/or elevation of existing underground utilities, such as sanitary sewers, gas mains, water mains, electric lines, treatment plant process pipes, etc., shall be determined by the Contractor. The Contractor shall assume full responsibility for the location of all utilities and shall contact District Plant Operations Maintenance Supervisor Warren Adam at 815-871-0787 five (5) days prior to beginning any work to arrange for District utilities to be located on the Treatment Plant grounds. The Contractor shall notify JULIE at least forty-eight (48) hours in advance of beginning construction to locate all other utilities. The Contractor shall exercise extreme care when excavating near underground utilities to avoid damage; any damage done to utilities and treatment plant process facilities shall be repaired or replaced at the Contractor's sole expense. The Contractor shall be solely responsible for the protection, restraint and support of all utilities, as well as the protection of private water wells.

This project involves the construction and reconstruction of pavements, curbs, and storm sewers within the District's main treatment plant at 3333 Kishwaukee Street, Rockford, IL 61109.

All removal limits shown on the plans shall be adhered to by the Contractor. Should any appurtenances outside of those limits be damaged, including but not limited to pavements, curbs, drainage pipes/structures, signs, landscaped/turf areas, and/or any treatment plant facilities, they shall be restored and/or repaired to the District's satisfaction at no additional cost to the Contract.

Any construction not observed by a District Inspector shall not be accepted.

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

Suppliers shall warrant their products and product components as suitable and fit for the intended purpose and that they are free from all defects in material, design and manufacture. Said warranty shall extend to the benefit of the District and shall apply to all products and product components whether supplied or cause to be fabricated by these Specifications.

The District will not supervise, direct, control, have authority over or be responsible for Contractor's means, methods, techniques, sequences, procedures of construction, safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the furnishing or performance of the Work. The District will not be responsible for Contractor's failure to furnish or perform the Work in accordance with the Contract Documents.

The Contractor shall be responsible for all tests of materials and final installation required by the District. All deficiencies noted by the inspectors shall be corrected by the Contractor without cost to the District and prior to final payment.

The Contractor shall restore all disturbed areas to near original contour and state, graded and raked to a neat, well-drained condition. Upon approval of the seed bed by the District, all disturbed turf areas shall be seeded, as hereinafter noted. Any damage to pavement, driveways, sod, trees, bushes, fences, landscaping, structures, fixtures, etc., beyond the project limits shall be replaced or repaired, at no cost to the District.

The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of the project and shall maintain access to all non-closed pavements at all times. Excavated or other materials shall not be stored or cast upon the pavement.

The Contractor shall provide traffic control personnel and/or equipment, as required, to clearly delineate traffic routing through the work zone for all treatment plant personnel.

The Contractor's workforce shall include a person competent in ensuring compliance with all pertinent OSHA regulations and requirements. This person must be present on-site at all times during construction and must be deputized to take any prompt preventative or corrective actions needed to avoid, prevent or mitigate existing and potential hazardous working conditions.

1.2 Materials – Not used.

1.3 Submittals

The Contractor shall submit to the Engineer the items under 'Required Submittals' of each special provision prior to beginning any work. The Contractor shall:

1. Review each submittal.
2. Verify field dimensions.

3. Verify compliance with Contract documents.
4. Sign and stamp submittals to certify Contractor's review/approval.
5. Transmit reviewed submittals to the District for approval.

The Contractor shall allow two (2) weeks, minimum, for the District to review most submittals. The District reserves the right to delay review of interrelated submittals until all submittal components have been received. No Contract extension will be authorized due to the Contractor's failure to provide submittals with enough time to allow the District to perform a thorough review.

The District's approval of a submittal shall not be considered an order for additional, extra, or differing work, nor a guarantee of the accuracy of the information or the effectiveness of the products outlined in the submittal.

No work shall be fabricated by order of the Contractor, unless at the Contractor's risk, until review of submittals has been completed by the District.

When the Contract Documents call for work to be performed in accordance with the manufactures' instructions, the manufacturers' instructions shall also be considered required submittals.

Should any material be installed in the Work for which a Material Safety Data Sheet (MSDS) is required to be retained by the District under State or Federal regulations, the installing subcontractor shall submit applicable MSDS forms to the Contractor for submission to the District upon completion of the project. Three (3) MSDS forms shall be submitted for each item. Only official OSHA MSDS forms shall be used; copies will not be accepted. The Contractor shall compile the MSDS forms and bind them into the Owners Manuals.

1.4 Required Submittals

1. Project Schedule

2 Notification, Access, and Special Considerations

2.1 General

The Contractor shall notify the District forty-eight (48) hours minimum prior to beginning construction operations (5-day notification for District utility locates). Said forty-eight (48) hour minimum notification shall only be considered during business days, not weekends.

Any damage caused by the Contractor's operations to areas outside of the specified project limits, including but not limited to roadway pavements, driveway pavements, drainage structures, storm sewer, underground utilities, overhead utilities, turf areas, cultivated areas, and landscaped areas shall be repaired and/or replaced by the Contractor at no additional cost to the Contract.

Contractor staging and temporary storage of equipment and materials shall be as shown on Plan Sheets 2 and 3. The designated staging/storage areas shall be the only staging/storage areas utilized by the Contractor.

Deliveries to the work site shall be accepted by the Contractor at the East treatment plant entrance (Guard Shack at the Kishwaukee Street entrance). The District will not coordinate or be responsible for any deliveries inadvertently made to the District inventory shop.

The Contractor shall clean up areas from which spoil has been removed at the end of each day by sweeping, washing or other approved methods. When the work is halted by rain, the Contractor shall clean up work areas before leaving the site.

The Contractor is responsible for any damages caused by his operations to existing structures above or below the ground as covered in G.C. 12:1 of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

The Contractor's proposed sequence of work shall be outlined in the Project Schedule and submitted prior to beginning any work. The Contractor is responsible for developing the means, methods, and procedures for all work and is responsible for compliance with all OSHA, EPA, and DOT regulatory requirements.

The Contractor shall have a temporary concrete washout facility installed onsite at the location specified on the plans. The facility shall comply with the Illinois Urban Manual Practice Standard Code 954.

The Contractor shall provide, and have available on site at all times, a calibrated level and rod.

The project shall be constructed in stages. Stage 1 and Stage 2 are delineated within the plans; the contractor can choose to construct either stage first, however the stage chosen must be fully completed before beginning the next.

All Quality Control material testing, subgrade compaction testing, subbase granular material compaction testing, and trench backfill compaction testing shall be performed by the Contractor. Costs associated with material testing by the Contractor will not be paid for separately but shall be included in the various pay items associated with the scope of work.

Standards (IDOT, IDOT District 2, and City of Rockford) Included in this Contract:

1. IDOT Standard 280001-07: Temporary Erosion Control Systems
2. IDOT Standard 420001-09: Pavement Joints
3. IDOT Standard 420101-06: 24' Jointed PCC Pavement
4. IDOT Standard 420111-04: PCC Pavement Roundouts
5. IDOT Standard 420701-03: Pavement Welded Wire Reinforcement
6. IDOT Standard 542301-03: Precast Reinforced Concrete Flared End Section
7. IDOT Standard 604001-04: Frame & Lids Type 1
8. IDOT Standard 604041-03: Frame & Grate Type 9
9. IDOT District 2 18.4: Inlets, Special (Type A Gutter)
10. City of Rockford: Comb. Conc. Curb & Gutter Type M6.18 (Mod.)

2.2 Materials – Not used.

2.3 Required Submittals – Not used.

2.4 Measurement and Payment

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

3 Erosion and Sediment Control

3.1 General

The total disturbed area for this project is estimated to be less than 1.0 acre. Accordingly, a Notice of Intent (N.O.I.) and a Storm Water Pollution Prevention Plan (SWPPP) has not been submitted to the Illinois Environmental Protection Agency (I.E.P.A.).

The Contractor shall comply with all the requirements of the I.E.P.A.'s *Illinois Urban Manual*, current edition and Section 280 of the *IDOT Standard Specification*. All disturbed areas shall be restored to near original contours and seeded in accordance with the Section titled "Turf Restoration" of these Detailed Specifications.

The erosion control devices, materials, and procedures specified in these contract documents are to be considered a minimum. Additional devices or materials may be required depending on existing site conditions, at the direction of the District. Any devices, materials, or procedures required by the District due to the Contractor's actions or negligence shall be provided at no additional cost to the District.

The Contractor shall take whatever measures the District deems necessary to eliminate excessive erosion or siltation. This includes but is not limited to: inlet protection, seeding, sodding, erosion control blanket, silt fence, etc.

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

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

3.2 Materials

In accordance with the applicable pay items.

3.3 Required Submittals – Not used.

3.4 Payment

This work will be paid for as outlined below under the **Inlet and Pipe Protection, Erosion Control Blanket, and Turf Restoration, Complete** pay items. No separate payment shall be made for erosion control beyond these pay items.

4 Earth Excavation, Removal and Disposal of Unsuitable Material

4.1 General

The work shall be done in accordance with Section 202 of the *IDOT Standard Specifications* and shall include the excavation and transportation of all suitable excavated materials to locations throughout the project site, and/or the excavation, transportation, and disposal of excavated material. For the purposes of this pay item, earth excavation shall include all materials to be excavated in order to properly construct the project to the lines and grades shown on the plans; said material shall include topsoil, aggregate base course, and any other soils encountered. Pavements, curbs, and sidewalks shown to be removed on the plans shall be paid for separately under the corresponding removal pay items.

All suitable excavated material that is considered excess shall be first offered to the District for use within the treatment plant boundaries prior to removal from the site. Should the District decide the material is not needed at the plant, the Contractor shall properly dispose of the material at an acceptable offsite location, in accordance with all applicable rules and regulations. All costs associated with the disposal of the excess material, whether within the treatment plant boundaries or at an offsite location, shall be included in the cost of this pay item.

Unsuitable material that is encountered shall be excavated and removed from the site and replaced with Subbase Granular Material, Type C, of the depth necessary.

4.2 Materials – Not Used.

4.3 Required Submittals – Not Used.

4.4 Measurement and Payment

Payment shall be made at the contract unit price per Cubic Yard of **Earth Excavation and Removal and Disposal of Unsuitable Material**. Measurement can be made by agreement to Contract Quantities or Measured Quantities according to Article 202.07 of the *IDOT Standard Specifications*. Subbase Granular Material used to replace unsuitable material shall be paid for under the **Subbase Granular Material, Type C, Variable Depth** pay item.

5 Subbase Granular Material, Type C, Variable Depth

5.1 General

This work shall consist of placing compacted Subbase Granular Material, Type C, beneath the pavement, driveway, and sidewalk surfaces to be constructed to the depths as indicated on the plans. This work shall include subgrade preparation, removal and disposal of excess material, furnishing, placing, installing and compacting course aggregate, and trimming and preparing aggregate base for subsequent pavement placement. This work shall be in conformance with Section 311 of the *IDOT Standard Specifications*.

Prior to placement of the Subbase Granular Material, the subgrade shall be prepared according to Section 301 of the *IDOT Standard Specifications*. The District shall approve of the subgrade prior to placement of any Subbase Granular Material.

The Contractor shall compact the Subbase Granular Material and perform a sufficient number of compaction tests as determined by the District. Compaction tests must be performed as work progresses. All compaction tests must meet the requirements stipulated in Section 311.05(a) of the *IDOT Standard Specifications*.

Prior to subbase granular material placement, the entire pavement replacement area shall be proof-rolled and witnessed by the District Inspector. Proof-rolling shall consist of using a fully loaded tandem axle dump truck to identify locations of structurally unsuitable subgrade. Proof-rolling shall be scheduled and completed so as to avoid a rain event between proof-rolling and aggregate base course placement. At the direction of the District, the subgrade may be required to dry out for a period of time to dry in an attempt to identify areas of unsuitable material prior to fortifying the subgrade with subbase granular material.

5.2 Materials

Subbase Granular Material shall be placed to the depths as identified on the plans. Where a 6" compacted depth is specified, the bottom 4" layer shall be Gradation CA-2 and the upper 2" layer shall be Gradation CA-6. Where a 10" compacted depth is specified, the bottom 6" layer shall be Gradation CA-2 and the upper 4" layer shall be Gradation CA-6. Subbase Granular Material used to replace any unsuitable excavation encountered shall be Gradation CA-2. Course Aggregates shall be in accordance with Article 1004.04 of the *IDOT Standard Specifications*.

5.3 Required Submittals

1. Material Gradation Reports for all aggregates and sources.

5.4 Measurement and Payment

This work will be paid for at the contract unit price per Ton for **Subbase Granular Material, Type C, Variable Depth**.

6 Pavement Removal, Variable Depth

6.1 General

This work shall be done in accordance with Section 440 of the *IDOT Standard Specifications* and shall involve the complete removal and disposal of the existing pavement sections where indicated on the plans, including variable depths and pavement types. *Section III – Pavement Core Report* of this Contract contains the results of coring investigations of the pavements to be removed through this project, and are included for the Contractor's reference. Maximum pay limits for the removal are shown on the plans; the Contractor shall not remove any pavement outside of these limits without receiving written approval by the District. If the Contractor damages any of these adjacent pavements during the course of construction without prior District approval, it shall be replaced to the full existing depths at no additional cost to the District.

The pavement limits shall be sawcut full depth prior to removal. The remaining pavement, including pavement edges shall be protected from all damage. All costs associated with sawcutting and pavement protection shall be included in this pay item.

All pavements shall be removed from the site in accordance with all applicable State or Federal laws and regulations. Clean Construction or Demolition Debris regulations shall be adhered to by the Contractor in disposal of all pavements removed from the site.

6.2 Materials – Not used.

6.3 Required Submittals – Not used.

6.4 Payment

Payment shall be made at the contract unit price per Square Yard of **Pavement Removal, Variable Depth.**

7 Hot-Mix Asphalt Surface Removal – Butt Joint

7.1 General

This work shall be done in accordance with Section 440 of the *IDOT Standard Specifications* and shall involve the milling of surface pavement where indicated on the plans to facilitate hot-mix asphalt butt joints. The methods outlined in Article 440.04 of the *IDOT Standard Specifications* shall be adhered to.

A clean edge shall be established at the milling limits prior to the work commencing. Upon the completion of milling, the remaining pavement, including pavement edges, shall be protected from all damage.

Milled pavement shall be resurfaced within five (5) calendar days.

7.2 Materials – Not used.

7.3 Required Submittals – Not used.

7.4 Payment

Payment shall be made at the contract unit price per Square Yard of **Hot-Mix Asphalt Surface Removal – Butt Joint.**

8 Portland Cement Concrete Slab Removal, 6”

8.1 General

This work shall be done in accordance with Section 440 of the *IDOT Standard Specifications* and shall involve the complete removal and disposal of the existing Portland Cement Concrete slabs where indicated on the plans, to a depth of 6”, more or less. Maximum pay limits for the removal are shown on the plans; the Contractor shall not remove any slabs beyond these limits without prior written District approval. The Contractor shall replace any adjacent appurtenances

damaged during the course of construction at no additional cost, unless approved in advance by the District.

The removal limits shall be sawcut full depth prior to removal work beginning. Special care shall be taken when sawcutting and removing slabs adjacent to electric ducts, wastewater treatment valves, pipes, and all other process equipment. All costs associated with sawcutting and equipment protection shall be considered included in this pay item.

All concrete slabs shall be removed from the site in accordance with all applicable State or Federal laws and regulations. Clean Construction or Demolition Debris regulations shall be adhered to by the Contractor in disposal of all concrete slabs removed from the site.

8.2 Materials – Not used.

8.3 Required Submittals – Not used.

8.4 Payment

Payment shall be made at the contract unit price per Square Yard of **Portland Cement Concrete Slab Removal, 6"**.

9 Remove Bollard

9.1 General

This work shall conform to Section 501 of the *IDOT Standard Specifications* and shall include the full removal and disposal of existing bollards (steel pipes filled with concrete) where indicated on the plans. This work shall consist of the excavation and disposal of the bollards and well as any foundation that may be present.

Disposal of the materials shall be done in accordance with Article 202.03 of the *IDOT Standard Specifications*.

All bollards and corresponding materials shall be removed from the site in accordance with all applicable State or Federal laws and regulations. Clean Construction or Demolition Debris regulations shall be adhered to by the Contractor in disposal of all bollards and components.

9.2 Materials – Not used.

9.3 Required Submittals – Not used.

9.4 Payment

Payment shall be made at the contract unit price per Each of **Remove Bollard**.

10 Hot-Mix Asphalt Binder Course, IL-19.0, N50

10.1 General

This work shall be in accordance with T.S. 4:3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*, and with Section 406 of the *IDOT Standard Specifications*. The work shall be performed to the satisfaction of the District.

Prime coat shall be MC-30 or PEP bituminous materials; all costs associated with placement of the prime coat shall be included in this pay item and will not be paid for separately.

Prior to placement of the HMA binder course the Contractor shall verify that the proposed Curb and Gutter has reached a minimum of 3500 PSI in compressive strength.

An HMA Quality Control Plan, prepared by the Contractor, shall be submitted to the District for review and approval prior to placement of HMA pavement.

10.2 Materials

HMA Binder Course shall be mixture IL-19.0, N50 in accordance with Section 1030 of the *IDOT Standard Specifications*.

Prime coat shall be MC-30 or PEP in accordance with Section 1032 of the *IDOT Standard Specifications*.

10.3 Required Submittals

1. HMA Quality Control Plan.
2. HMA Mix Designs.
3. Prime Coat material certifications.

10.4 Payment

This work will be paid for at the contract unit price per Ton for **Hot-Mix Asphalt Binder Course, IL-19.0, N50**.

11 Hot-Mix Asphalt Surface Course, IL-9.5, Mix “C”, N50

11.1 General

This work shall be in accordance with T.S. 4:3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*, and with Section 406 of the *IDOT Standard Specifications*. The work shall be performed to the satisfaction of the District.

Tack coat shall be SS-1 bituminous materials; all costs associated with placement of the tack coat shall be considered included in this pay item and will not be paid for separately.

An HMA Quality Control Plan, prepared by the Contractor, shall be submitted to the District for review and approval prior to placement of HMA pavement.

11.2 Materials

HMA Surface Course shall be IL-9.5, Mix “C”, N50 in accordance with Section 1030 of the *IDOT Standard Specifications*.

Prime coat shall be SS-1 in accordance with Section 1032 of the *IDOT Standard Specifications*.

11.3 Required Submittals

1. HMA Quality Control Plan.
2. HMA Mix Designs.
3. Tack Coat material certifications.

11.4 Payment

This work will be paid for at the contract unit price per Ton for **Hot-Mix Asphalt Surface Course, IL-9.5, Mix “C”, N50**. Surface course mixture in excess of 103% of the adjusted plan quantity will not be measured for payment. The adjusted plan quantity for surface course mixtures shall be calculated in accordance with Article 406.13(b) of the *IDOT Standard Specifications*.

12 Portland Cement Concrete Pavement, 10” (Jointed)

12.1 General

This work shall be in accordance with T.S. 4-3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*, and with Section 420 of the *IDOT Standard Specifications*. PCC Pavement may be placed via form or slip form method.

Pavement joints shall be according to IDOT Highway Standards 420001-09 *Pavement Joints* and 420101-06 *24’ Jointed PCC Pavement*. Irregular pavement panels that are within intersections and/or curves shall also contain welded wire reinforcement in accordance with IDOT Highway Standard 420701-03: *Pavement Welded Wire Reinforcement* (Type A). All manholes and other structures that are adjusted within the pavement limits shall have roundouts in accordance with IDOT Highway Standard 420111-04: *PCC Pavement Roundouts*.

Final finish shall be Type B according to Article 420.09(e)(2) of the *IDOT Standard Specifications*.

Concrete curing shall be in accordance with Section 1022 of the *IDOT Standard Specifications*.

Upon completion pavement joints shall be sealed with hot-poured joint sealer in accordance with Article 420.12 of the *IDOT Standard Specifications*.

A PCC Quality Control Plan, prepared by the Contractor, shall be submitted to the District for review and approval prior to any PCC pavement work beginning. All Quality Control and Quality Assurance testing shall follow the requirements of IDOT Check Sheet #25 *Recurring Special Provision for Quality Control /Quality Assurance of Concrete Mixtures*. All material

testing and costs associated with conformance with this Check Sheet shall be included in this pay item and will not be paid for separately.

12.2 Materials

All references that follow are contained within the *IDOT Standard Specifications*.

1. Portland Cement Concrete shall be Class PV in accordance with Section 1020.
2. Welded wire reinforcement and tie bars shall be in accordance with Article 1006.10.
3. Dowel bars and dowel bar assemblies shall be in accordance with Article 1006.11.
4. Poured joint sealer shall be in accordance with Article 1050.02.
5. Preformed expansion joint fillers shall be in accordance with Article 1051.09.
6. Membrane curing compounds shall be in accordance with Section 1022.

12.3 Required Submittals

1. PCC Mix Designs.
2. Reinforcement material certifications.
3. Poured Joint Sealer material certifications.
4. Expansion Joint Fillers material certification.
5. Membrane curing compound material certification.
6. PCC Quality Control Plan.

12.4 Measurement and Payment

This work will be paid for at the contract unit price per Square Yard for **Portland Cement Concrete Pavement, 10" (Jointed)**.

13 Portland Cement Concrete Sleeper Slab

13.1 General

This work shall consist of constructing an 8" load bearing slab with welded wire reinforcement as shown on the jointing plan details. The slab shall be constructed on compacted subbase granular material. Welded wire reinforcement shall be Type A and shall be free of heavy rust and scale; where staging is required, the reinforcement shall be overlapped twenty-four (24) inches and tied before pouring the next stage. A bond breaker consisting of a single layer of felt roofing paper or two layers of polyethylene sheeting 6 mils or greater in thickness shall be placed between the sleeper slab and the PCC pavement. Care shall be taken to strike off the sleeper slab to the grade and slope of the bottom of the PCC pavement. A smooth finish will be given to the sleeper slab.

When the PCC pavement is placed, a 1" preformed fiber expansion joint shall be constructed along the center of the sleeper slab. The top 1" of this joint shall be filled with hot poured joint sealer. Sleeper slabs shall be constructed of Class PV concrete and payment shall include welded wire reinforcement, bond breaker, placing and finishing, and joint sealing. All labor, equipment, and materials to construct the sleeper slab to these specifications shall be included in this bid item.

13.2 Materials

All references that follow are contained within the *IDOT Standard Specifications*.

1. Portland Cement Concrete shall be Class PV in accordance with Section 1020.
2. Welded wire reinforcement (Type A) shall be in accordance with Article 1006.10.
4. Poured joint sealer shall be in accordance with Article 1050.02.
5. Preformed expansion joint fillers shall be in accordance with Article 1051.09.
6. Membrane curing compounds shall be in accordance with Section 1022.

13.3 Required Submittals

1. PCC Mix Designs.
2. Welded Wire Reinforcement material certifications.
3. Poured Joint Sealer material certifications.
4. Expansion Joint Fillers material certification.
5. Membrane curing compound material certification.

13.4 Basis of Payment

This work shall be paid for at the contract unit price per Square Yard for **Portland Cement Concrete Sleeper Slab**.

14 Portland Cement Concrete Sidewalk, 4”

14.1 General

This work shall conform to Section 424 of the *IDOT Standard Specifications*. The subgrade shall be prepared with 2” of compacted CA-6 aggregate; said aggregate shall be paid for separately under the **Subbase Granular Material, Type C, Variable Depth** pay item.

Expansion joints shall be installed per Article 424.07 of the *IDOT Standard Specifications*.

14.2 Materials

Portland Cement Concrete shall be Class SI mix per Article 1020.04 of the *IDOT Standard Specifications*.

Expansion Joint Fillers shall be in accordance with Section 1051 of the *IDOT Standard Specifications*.

14.3 Required Submittals

1. PCC Mix Designs.
2. Expansion Joint Fillers material certification.

14.4 Payment

Payment for this item shall be made at the contract unit price per Square Foot of **Portland Cement Concrete Sidewalk, 4”**.

15 Storm Sewers, RCCP, Class A, Type 1 – 12”

15.1 General

This work shall conform to Section 550 of the *IDOT Standard Specifications* and shall include the installation of storm sewers to the line and grade as shown on the plans. All joints shall be sealed with rubber gaskets.

All storm sewer to be installed under or within 2’ of pavements, curbs, and/or sidewalks shall be backfilled with District-approved trench backfill material. Trench backfill shall be compacted to 95% of the standard laboratory density in accordance with Method 1 in Article 550.07(a) of the *IDOT Standard Specifications*. No additional compensation will be made for trench backfill and the costs shall be included with this pay item.

15.2 Materials

Reinforced concrete pipe shall be in accordance with Section 1042 of the *IDOT Standard Specifications*. Rubber gaskets for concrete pipe shall be in accordance with Section 1056 of the *IDOT Standard Specifications*. Trench Backfill shall be in accordance with Article 1003.04 of the *IDOT Standard Specifications*.

15.3 Required Submittals

1. Material certification for the reinforced concrete pipe.
2. Material certification for rubber gaskets.
3. Gradation report for the trench backfill material.

15.4 Payment

Payment shall be made at the contract unit price per Linear Foot of **Storm Sewer, RCCP, Class A, Type 1 – 12”**.

16 Inlet Special (Type A Gutter) with Type 9 Frame and Grate

16.1 General

This work shall be done in accordance with Section 602 of the *IDOT Standard Specifications* and shall consist of furnishing and installing all labor, equipment, materials, transportation, excavation, accessories, and trench backfill required to construct the inlet special at the location indicated in the plans.

16.2 Materials

Inlets shall be constructed according to IDOT Region 2/District 2 Standard 11.2: *Inlets, Special (Type A Gutter)*. Type 9 Frame and Grate shall be according to IDOT Highway Standard 604041-03: *Frame and Grate Type 9* and be ductile iron in accordance with Article 1006.15 of the *IDOT Standard Specifications*.

16.3 Required Submittals

1. Material certification and shop drawings for the inlets.
2. Material certification for the frame and grate.

3. Gradation report for the trench backfill material.

16.4 Measurement and Payment

This work will be paid for at the contract unit price per Each for **Inlet Special (Type A Gutter) with Type 9 Frame and Grate** installed, complete in place.

17 Precast Reinforced Concrete Flared End Section, 12”

17.1 General

This work shall be done in accordance with Section 542 of the *IDOT Standard Specifications* and shall consist of furnishing and installing all labor, equipment, materials, transportation, excavation, accessories, and trench backfill required to construct the precast reinforced concrete flared end section at the location indicated in the plans.

17.2 Materials

Precast reinforced concrete flared end sections shall be constructed according to *IDOT Standard 542301-03: Inlets, Special (Type A Gutter)*.

17.3 Required Submittals

1. Material certification and shop drawings for the precast reinforced concrete end section.

17.4 Measurement and Payment

This work will be paid for at the contract unit price per Each for **Precast Reinforced Concrete Flared End Section, 12”** installed, complete in place.

18 Class SI Concrete (Outlet)

18.1 General

This work shall conform to Section 606 of the *IDOT Standard Specifications* and consist of installation of concrete curb and gutter outlets where shown on the plans. This work shall also conform to *IDOT Region 2/ District 2 Standard 18.4: Curb and Gutter Outlet, Special*. Curb and gutter outlets shall be tied to pavement slab with two (2)-#6 tie bars, 30” long at 30” centers. Gutter outlet and paved ditch shall be reinforced with welded wire reinforcement having a weight of at least 58 lbs./100 square feet with 6x6 mesh and #4 wire.

18.2 Materials

Portland Cement Concrete shall be Class SI mix per Article 1020.04 of the *IDOT Standard Specifications*. Welded wire reinforcement shall be 58 lbs./100 square feet, 6x6 mesh, #4 wire.

18.3 Required Submittals

1. PCC mix designs.
2. Welded wire reinforcement data sheet.

18.4 Payment

Payment shall be made at the contract unit price per Cubic Yard of **Class SI Concrete (Outlet)** installed, complete in place.

19 Combination Portland Cement Concrete Curb and Gutter, Type M6.18 (Mod.)

19.1 General

This work shall conform to Section 606 of the *IDOT Standard Specifications* and consist of installation of concrete curb and gutter where shown on the plans. Curb and gutter shall be constructed as “spill-out” curb in the locations indicated on the plans; additionally, curb and gutter shall be depressed through driveways and where indicated on the plans. For payment purposes, all concrete curb and gutter sections will be regarded as the same type – no separate pay distinction will be made for standard, spill-out, or depressed curb and gutter types. Where proposed curb is to be joined to existing curb two (2) one-inch (1") diameter smooth dowels 18" long shall be drilled and epoxy grouted into the existing curb and gutter at mid-depth.

19.2 Materials

Portland Cement Concrete shall be Class SI mix per Article 1020.04 of the *IDOT Standard Specifications*.

19.3 Required Submittals

1. PCC mix designs.

19.4 Payment

Payment shall be made at the contract unit price per Linear Foot of **Concrete Curb and Gutter, Type B6.18 (Modified)** installed, complete in place. Depressed and “spill-out” curb and gutter sections shall be paid for at the same unit price.

20 Manhole to Be Abandoned, Special

20.1 General

This work shall consist of abandoning existing manhole structures that are no longer necessary. Manhole abandonment shall be in accordance with section 605.04 and 605.05 of the *IDOT Standard Specifications*, RRWRD requirements, and shall include the following work by the contractor:

1. Remove and dispose of the manhole frame and lid.
2. Remove and dispose of the manhole components as specifically outlined on Plan Sheet 5.
3. Fill manhole and void with pea gravel or approved trench backfill material.

20.2 Materials – Not Used.

20.3 Required Submittals

1. Gradation report for the backfill material.

20.4 Basis of Payment

This work shall be paid for at the contract unit price per Each for **Manhole to Be Abandoned, Special.**

21 Manhole to Be Adjusted with New Type 1 Frame, Closed Lid

21.1 General

This work shall conform to Rock River Water Reclamation District requirements, and Sections 603 and 604 of the *IDOT Standard Specifications*. This work shall follow the details provided on Plan Sheet 5, which consists of removing existing manhole frames and lids, removing all of the brick/ precast adjusting rings, and all other materials, furnishing and installation of new adjusting rings as required, frames and lids, and exterior manhole adjustment seals. The new frame and lid shall be set to finish grade.

The joint between the manhole casting and adjusting rings on top of manhole shall be watertight by means of a Butyl material (E-Z Stik, Kent Seal or equal).

Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness shall be two inches (2"). ASTM requirements for adjusting rings: conform to ASTM C478 and ASTM C139, latest revision.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). A maximum of one (1) 2" adjusting ring will be allowed. Joint between adjusting rings and casting shall be water-tight by means of a butyl material seal (E-Z Stik, Kent-Seal, or equal).

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

21.2 Materials

New manhole frame & lids shall be either Neenah R1670 or East Jordan E117 frame with non-rocking self-sealing lid. The lid shall have two-inch (2") high "SANITARY" lettering and a concealed pick hole.

21.3 Required Submittals – Not used.

21.4 Basis of Payment

This work shall be paid for at the contract unit price per Each for **Manhole to Be Adjusted With New Type 1 Frame, Closed Lid.**

22 Manhole to Be Reconstructed with New Type 1 Frame, Closed Lid, Special

22.1 General

This work shall conform to Rock River Water Reclamation District requirements, and Sections 603 and 604 of the *IDOT Standard Specifications*. This work shall follow the details provided on Plan Sheet 5, which includes installation of a new precast cone or barrel sections, furnishing and installation of new adjusting rings as required, frames and lids, and exterior manhole adjustment seals, and adjustment of sanitary manholes. All manholes in this project are precast concrete.

Manhole reconstruction shall include the removal and disposal, and replacement, of the existing frame & lid, adjusting rings, precast cone sections, and precast barrel sections to obtain the proposed rim elevations shown on the plans. This work shall include adjusting manhole frames to finish grade.

Minimum ring thickness shall be two inches (2"). ASTM requirements for adjusting rings: conform to ASTM C478 and ASTM C139, latest revision.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). A maximum of one (1) 2" adjusting ring will be allowed. Joint between adjusting rings and casting shall be water-tight by means of a butyl material seal (E-Z Stik, Kent-Seal, or equal).

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

22.2 Materials

New manhole frame & lids shall be either Neenah R1670 or East Jordan E117 frame with non-rocking self-sealing lid. The lid shall have two-inch (2") high "SANITARY" lettering and a concealed pick hole.

22.3 Required Submittals – Not used.

22.4 Basis of Payment

This work shall be paid for at the contract unit price per Each for **Manhole to Be Reconstructed with New Type 1 Frame, Closed Lid, Special**.

23 Valve Box to Be Adjusted

23.1 General

This work shall conform to Section 602 of the *IDOT Standard Specifications* and consist of the adjustment of existing cast iron valve riser boxes to proposed grade.

23.2 Materials

Adjustments shall be made using Class 35 cast iron valve box appurtenances conforming to ASTM A48.

23.3 Required Submittals

1. Valve box component data sheets.

23.4 Payment

Payment shall be made at the contract unit price per Each for **Valve Box to Be Adjusted** installed, complete in place.

24 Cut and Cap Existing Pipe

24.1 General

This work shall consist of cutting and capping existing ductile iron and cast iron pipes at the locations specified on the plans. Cuts shall be made perpendicular to the axis of the pipe centerline and shall be free of jagged edges. Caps shall be rubber slip-on type tightened with steel bands.

24.2 Materials – Not used.

24.3 Required Submittals – Not used.

24.4 Basis of Payment

This work shall be paid for at the contract unit price per Each for **Cut and Cap Existing Pipe**.

25 Bollards

25.1 General

This work shall consist of furnishing and installing removable steel bollards at the locations shown on the plans. Bollards shall be 6" in diameter and powder coated yellow carbon steel. The bollards shall extend at least 36" above the proposed finished grade. There shall be an embedment sleeve with a locking lid that extends at least 12" into the subgrade; lid shall be installed flush with the proposed sidewalk surface. A concrete foundation shall be poured around the embedment sleeve to a depth of at least 24". Shop drawings for the bollards shall be submitted and approved by the District prior to incorporation within this contract. This work shall include the excavation for the foundation and disposal of all excess materials.

25.2 Materials

Bollards shall be steel, 6" diameter and removable. Portland Cement Concrete shall be Class SI mix per Article 1020.04 of the *IDOT Standard Specifications*.

25.3 Required Submittals

1. Pipe Bollard Shop Drawings.

25.4 Payment

This work shall be paid for at the contract unit price per Each for **Bollards**, which shall include all work involved with furnishing and installing the bollards.

26 Inlet and Pipe Protection

26.1 General

This work shall be in accordance with Section 280 of the *IDOT Standard Specifications* and consist of furnishing, installing, maintaining, and final removal of drainage inlet protection devices.

Inlet protections shall consist of filters that are installed under the grate of the drainage structures.

All inlet protection shall be installed prior to any excavation (exploratory or otherwise) beginning. All measures shall be removed upon final turf restoration.

26.2 Materials

All inlet protection filters shall be in accordance with Article 1081.15(h) of the *IDOT Standard Specifications*.

26.3 Required Submittals

1. Material certifications for the inlet protection filters.

26.4 Payment

Payment shall be made at the contract unit price per Each of **Inlet and Pipe Protection**, complete in place.

27 Erosion Control Blanket

27.1 General

This work shall be in accordance with Article 251.04 of the *IDOT Standard Specifications*. Erosion control blanket shall be installed on seeded areas within twenty-four (24) hours of seed placement.

Erosion control blanket shall be used on all turf restoration areas as shown on the plans. All seeded areas completed under "Turf Restoration" shall have erosion control blanket installed.

27.2 Materials

All erosion control blanket shall be in accordance with Article 1081.10(a) and/or Article 1081.10(c) of the *IDOT Standard Specifications*.

27.3 Required Submittals

1. Material certifications for the erosion control blanket.

27.4 Payment

Payment shall be made at the Contract unit price per Square Yard of **Erosion Control Blanket**, complete, in place.

28 Turf Restoration, Complete

28.1 General

This work shall include preparing areas to be seeded, furnishing and placing topsoil to a minimum depth of 6" as required, removal and disposal of unsuitable materials, shaping and grading, seeding, fertilizing, and maintenance until final acceptance.

This work shall also include grading areas to properly drain to the pavements and/or existing and proposed drainage structures.

All restoration shall be completed to the District's satisfaction to pre-construction conditions. All restoration including, but not limited to, fences, sidewalks, driveways, all other slab work, (concrete and asphalt), drainage channels, riprap, fences, turf areas and dry wells, etc., disturbed or damaged as a result of construction shall be promptly performed to equal or better than pre-construction conditions, as directed by the District. All restoration shall be guaranteed by the Contractor for a period of one (1) year following satisfactory completion and final acceptance of the work. Topsoil shall be as specified in T.S. 4:2c of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

All drainage devices shall be cleaned of debris and replaced at original elevations. Pipes, which in the estimation of the District, have been significantly damaged by the Contractor, shall be replaced with new pipe or structures of the same diameter, length and/or type, at no added expense to the owner.

NOTE: All work shall be guaranteed against trench settlement for a period of one (1) year.

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

Topsoil – Furnishing and Placing

This work shall be in accordance with Section 211 of the *IDOT Standard Specifications*. All disturbed areas have a six inch (6") minimum depth of topsoil. Final shaping, trimming, and

finishing of the furnished topsoil shall be in accordance with Section 212 of the *IDOT Standard Specifications*.

Seeding

This work shall be in accordance with Section 250 of the *IDOT Standard Specifications*.

Seedbed preparation shall be done according to Article 250.05 of the *IDOT Standard Specifications*.

The seeding mixture used shall be IDOT Class I seeding mixture.

Reference is made to the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*, T.S. 4:2, for specifications on seeding and sodding and fertilizer, and to Sections 250 and 251 of the *IDOT Standard Specifications*.

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

Suppliers shall be prepared to certify that laboratory and field testing of their product has been performed.

Seeding methods shall be in accordance with Article 250.06 of the *IDOT Standard Specifications*. Mowing to discourage weed growth must be performed by the Contractor until the project is accepted by the District.

Fertilizing

Fertilizer work shall be done in accordance with Article 250.04 of the *IDOT Standard Specifications* and be applied at the rate of 400 lbs./acre.

28.2 Materials

Topsoil shall be in accordance with Article 1081.05(a) of the *IDOT Standard Specifications*.

Seed mixtures shall be IDOT Class I seed mixtures in accordance with Article 1081.04 of the *IDOT Standard Specifications*.

Fertilizer shall have 270 lbs. of nutrients per acre with an analysis of 10-10-10 and be in accordance with Article 1081.08 of the *IDOT Standard Specifications*.

28.3 Required Submittals

1. Topsoil certifications.
2. Seed mixtures.
3. Fertilizer specifications and certifications.
4. Mulch specifications and certifications.

28.4 Payment

This work will be paid for at the contract Lump Sum unit price for **Turf Restoration, Complete** which cost shall include furnishing and placing topsoil, grading and shaping, seedbed preparation, seeding, and fertilizer application, as required.

29 Traffic Control and Protection, Complete

29.1 General

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

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

All work zone traffic control and protection shall be in compliance with the *Manual on Uniform Traffic Control Devices*, current edition.

All road closures shall be indicated by Type III barricades placed at the beginning and end of the closure, in addition to at all side intersections. Construction areas shall be further protected by barrels or Type I barricades so that plant personnel have proper visual warning. Flashers shall be in good working order so that barricades are also visible at nighttime.

29.2 Required Submittals

1. Copies of approved traffic control plans.

29.3 Payment

This work will be paid for at the contract Lump Sum price for **Traffic Control and Protection, Complete**.

30 Construction Layout

30.1 General

This work shall be in accordance with IDOT *Recurring Special Provision #10: Construction Layout Stakes* as included in this Contract, and shall consist of the Contractor providing all layout for the construction of this project to the lines and grades contained within the plans.

The District shall perform layout checks periodically, and specifically before any PCC pavement, curb and gutter, and HMA paving is performed.

30.2 Materials – Not used.

30.3 Required Submittals – Not used.

30.4 Payment

Payment shall be made at the contract unit price per Lump Sum for **Construction Layout**.

31 Cleanup

31.1 General

At the completion of work, the Contractor shall clean up and remove all construction debris, materials, equipment, machines, temporary concrete washouts etc., from the entire project area. All excavations shall be backfilled neatly to original grade, and any excess materials shall be hauled away to a site acceptable to the District. All roadway surfaces shall be kept free and clear of all mud and construction debris.

31.2 Payment

No separate payment will be made for Cleanup, complete. All costs associated with this work shall be included in construction.

32 Pavement Cores

32.1 General

The pavement cores included in Section III are for informational purposes only. The Contractor can verify the actual pavement strata and subsurface soils prior to submitting a bid. No additional compensation will be allowed for existing conditions at variance with the cores taken.

Be advised that Pavement Cores C-1, C-2, and C-3 were obtained for a future project.

Not to be used for bidding purposes

Section II
Contract Forms

Proposal

Project: Plant Roadway Replacement 2019, Capital Project No. 2006

Location: 3333 Kishwaukee Street, Rockford, Illinois

Completion Date: September 6, 2019

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

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

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

(Address of Individual, Partnership or Corporation)

Gentlemen:

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

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

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

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

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

The certified payroll records must include the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending time of work each day, for every worker employed on the project. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B Misdemeanor. Certified payroll reports shall be submitted on industry standard forms such as IDOT Statement of Compliance (SBE 348) or other approved equal.

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

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

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

Not to be used for bidding purposes

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	142.0	CY	Earth Excavation			
2	20.0	CY	Removal and Disposal of Unsuitable Material			
3	3,200.0	Ton	Subbase Granular Material, Type C, Variable Depth			
4	2,168.0	SY	Pavement Removal, Variable Depth			
5	48.0	SY	Hot-Mix Asphalt Surface Removal - Butt Joint			
6	8.0	SY	Portland Cement Concrete Slab Removal, 6"			
7	3.0	EA	Remove Bollard			
8	44.0	Ton	Hot-Mix Asphalt Binder Course, IL-19.0, N50			
9	37.0	Ton	Hot-Mix Asphalt Surface Course, IL-9.5, Mix 'C', N50			
10	1,934.0	SY	Portland Cement Concrete Pavement (Jointed), 10"			
11	31.0	SY	Portland Cement Concrete Sleeper Slab			
12	2,534.0	SF	Portland Cement Concrete Sidewalk, 4"			
13	71.0	LF	Storm Sewers, Class 1, Type 1, 12", RCCP			
14	1.0	EA	Inlet Special (Type A Gutter) with Type 9 Frame and Grate			
15	1.0	EA	Precast Reinforced Concrete Flared End Section, 12"			
16	2.0	CY	Class SI Concrete (Outlet)			
17	954.0	LF	Combination Portland Cement Concrete Curb and Gutter, Type B6.18 (Mod.)			
18	3.0	EA	Manhole to Be Abandoned, Special			
19	1.0	EA	Manhole to Be Adjusted with New Type 1 Frame, Closed Lid			
20	3.0	EA	Manhole to Be Reconstructed with New Type 1 Frame, Closed Lid, Special			
21	4.0	EA	Valve Box to Be Adjusted			
22	3.0	EA	Cut and Cap Existing Pipe			
23	7.0	EA	Bollards			

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
24	1.0	EA	Inlet and Pipe Protection			
25	360.0	SY	Erosion Control Blanket			
26	1.0	LS	Turf Restoration, Complete			
27	1.0	LS	Traffic Control & Protection, Complete			
28	1.0	LS	Construction Layout			
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: Plant Roadway Replacement 2019, Capital Project No. 2006

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: _____

Not to be used for bidding purposes

Agreement

1. General

THIS AGREEMENT, made and concluded this ____ day of _____, 2019, between the Rock River Water Reclamation District, Rockford, Illinois (District), acting by and through the Board of Trustees, and _____, his/their executors, administrators, successors or assigns:

2. Scope of Work

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

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

3. Contract Price

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

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

4. Bond

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

5. Maintenance and Guarantee

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

period, indemnify and save harmless the District, its officers and agents from any injury done to property or persons as a direct or alleged result of imperfections in the Contractors' work, and shall immediately assume and take charge of the defense of such action or suits in like manner and to all intents and purposes as if said actions and suits had been brought directly against the Contractor.

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

6. Contract Execution

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

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

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

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

7. Payments to Contractor

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

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

8. Subcontracts

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

9. Contractor's Responsibility

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

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

The Contractor shall pay not less than the prevailing wage rate as determined by the Department of Labor, to all laborers, workmen and mechanics performing work under this Contract. Contractor shall comply with current revisions of the wage standards; as required by law. The Contractor shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. Certified payroll reports shall be submitted on industry standard forms such as IDOT Statement of Compliance (Form SBE 348).

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

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

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

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

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

- (a) the illegality of sexual harassment
- (b) the definition of sexual harassment under Illinois State law;
- (c) a description of sexual harassment, utilizing examples;
- (d) my (our) organization's internal complaint process including penalties;
- (e) through the Illinois Department of Human Rights and the Illinois Human Rights Commission;

- (f) directions on how to contact the Department and the Commission; and
- (g) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.

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

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

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

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

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

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

10. Time

Work under this Agreement shall be commenced upon issuance of written Notice to Proceed. The completion date for this project shall be September 6, 2019.

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: _____

Not to be used for bidding purposes

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

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

Signed and Sealed this _____ day of _____, 2019.

CONTRACTOR SURETY
Contractor Firm Name

By: _____
Signature

By: _____
Attorney-in-Fact

Title Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Performance Bond

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

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

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

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

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

CONTRACTOR

SURETY

Contractor Firm Name:

By: _____

By: _____ Signature

Attorney-in-Fact

Title

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Not to be used for bidding purposes

Section III

Pavement Cores

Not to be used for bidding purposes

March 27, 2019

Rock River Water Reclamation District
3501 Kishwaukee Street
Rockford, IL 61126

Attention: Mr. Tyler V. Nelson – Project Engineer

Re: Summary Letter
RRWRD Plant Roadway Replacement 2019
Capital Project #2006
3333 Kishwaukee Street
Rockford, Illinois
Terracon Project No.: 19195001

Dear Mr. Nelson:

Terracon Consultants, Inc. (Terracon) has completed the requested coring services for the above referenced project. These services were performed in general accordance with our proposal numbered P19185000 and dated January 21, 2019.

1.0 PROJECT INFORMATION

The site consisted of existing roadways at the Rock River Water Reclamation District (RRWRD) plant located at 3333 Kishwaukee Street in Rockford, Illinois. Cores of the asphalt pavements were obtained to determine their thicknesses, the thickness of subbase material, and the subgrade soil materials and consistency.

Six (6) locations requested and marked in the field by the client were cored with an electric coring machine equipped with a diamond-tipped core barrel. See attached corehole sample location diagram provided by the client for approximate sample locations.

The asphalt core samples obtained were labeled and transported to our laboratory for thickness measurement (to the nearest 0.1 inch) and visual description. The crushed stone subbase at the sample locations were hand augered to measure the depth of the stone subbase (to the nearest 1 inch). Based upon visual methods, the stone subbase was observed to generally be consistent with a crushed stone CA-06 aggregate. Due to frozen subbase, sample locations 1 through 3 encountered hand auger refusal at a depth of about 14 inches and could not be extended into the subgrade soils. The subgrade soils below the stone subbase in sample locations 3 through 6 were sampled and transported to our laboratory for visual/tactile classification and moisture content testing, which ranged from about 6.8 to 7.2%.



Terracon Consultants, Inc. 4836 Colt Road Rockford, Illinois 61109
P [815] 873 0990 F [815] 873 0991 terracon.com

Coring Services Summary Letter

RRWRD Plant Roadway Replacement 2019 ■ Rockford, Illinois

March 27, 2019 ■ Terracon Project No. 19195000



2.0 COREHOLE SUMMARY

Core #	Asphalt Thickness (inches)	Asphalt Surface (inches)	Asphalt Binder (inches)	Stone Subbase Thickness (inches)	Subgrade Soil Description
1	4	1.8	2.2	14 ¹	N/A ²
2	3.2	N/A ³	N/A ³	14 ¹	N/A ²
3	3.6	1.8	1.8	14 ¹	N/A ²
4	3.5	1.5	2.0	10	Dark brown sand, trace gravel
5	3.7	1.6	2.1	15	Dark brown sand, trace gravel
6	3.1	1.1	2.0	15	Dark brown sand, trace gravel

1. 14" stone subbase minimum – subbase frozen and could not be augered below 14"

2. Subgrade not encountered due to frozen subbase

3.0 CLOSING

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this letter, or if we may be of further service to you, please contact us.

Sincerely,

TERRACON CONSULTANTS, INC.

Brian Place, P.E.
Project Engineer

Doug Waldeier, P.E.
Project Manager

Attachments: Corehole Sample Location Diagram

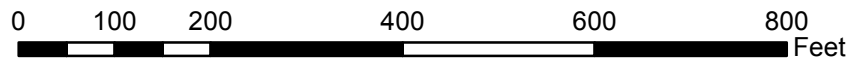
Not to be used for bidding purposes



Not to be used for bidding purposes



RRWRD Plant Roadway Replacement 2019 Updated Location of Pavement Cores



1 inch = 200 feet

Not to be used for bidding purposes

Section IV

IDOT Check Sheets



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	64
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	67
3	<input type="checkbox"/> EEO	68
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	78
5	<input type="checkbox"/> Required Provisions - State Contracts	83
6	<input checked="" type="checkbox"/> Asbestos Bearing Pad Removal	89
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	90
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	91
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	92
10	<input checked="" type="checkbox"/> Construction Layout Stakes	95
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	98
12	<input type="checkbox"/> Subsealing of Concrete Pavements	100
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	104
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	106
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	107
16	<input type="checkbox"/> Polymer Concrete	109
17	<input type="checkbox"/> PVC Pipeliner	111
18	<input type="checkbox"/> Bicycle Racks	112
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	114
20	<input type="checkbox"/> Work Zone Public Information Signs	116
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	117
22	<input type="checkbox"/> English Substitution of Metric Bolts	118
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	119
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	120
25	<input checked="" type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	128
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	144
27	<input type="checkbox"/> Reserved	146
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment	147
29	<input type="checkbox"/> Reserved	153
30	<input type="checkbox"/> Reserved	154
31	<input type="checkbox"/> Reserved	155
32	<input type="checkbox"/> Temporary Raised Pavement Markers	156
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	157
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	160
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	164

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
LRS 1	Reserved	168
LRS 2	<input type="checkbox"/> Furnished Excavation	169
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	170
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	171
LRS 5	<input type="checkbox"/> Contract Claims	172
LRS 6	<input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	173
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	179
LRS 8	Reserved	185
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	186
LRS 10	Reserved	187
LRS 11	<input type="checkbox"/> Employment Practices	188
LRS 12	<input type="checkbox"/> Wages of Employees on Public Works	190
LRS 13	<input type="checkbox"/> Selection of Labor	192
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	193
LRS 15	<input type="checkbox"/> Partial Payments	196
LRS 16	<input type="checkbox"/> Protests on Local Lettings	197
LRS 17	<input type="checkbox"/> Substance Abuse Prevention Program	198
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	199

CHECK SHEET #10

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
CONSTRUCTION LAYOUT STAKES

Effective: May 1, 1993
Revised: January 1, 2007

Description. The Contractor shall furnish and place construction layout stakes for this project. The Department will provide adequate reference points to the centerline of survey and bench marks as shown in the plans and listed herein. Any additional control points set by the Department will be identified in the field to the Contractor and all field notes will be kept in the office of the Resident Engineer.

The Contractor shall provide field forces, equipment, and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary bench marks, necessary to secure a correct layout of the work. Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 50 ft (15 m)) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations, and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Department Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and bench marks and shall have them reset when any are damaged, lost, displaced, removed, or otherwise obliterated.

Responsibility of the Department.

- (a) The Department will locate and reference the centerline of all roads and streets, except interchange ramps. The centerline of private entrances and short street intersection returns may not be located or referenced by the Department.

Locating and referencing the centerline of survey will consist of establishing and referencing the control points of the centerline of surveys such as PC's, PT's and as many POT's as are necessary to provide a line of sight.

- (b) Bench marks will be established along the project outside of construction lines not exceeding 1000 ft (300 m) intervals horizontally and 20 ft (6 m) vertically.

CHECK SHEET #10

- (c) Stakes set for (a) and (b) above will be identified in the field to the Contractor.
- (d) The Department will make random checks of the Contractor's staking to determine if the work is in conformance with the plans. Where the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.
- (e) The Department will set all stakes for utility adjustments and for building fences along the right-of-way line by parties other than the Contractor.
- (f) The Department will make all measurements and take all cross sections from which the various pay items will be measured.
- (g) Where the Contractor, in setting construction stakes, discovers discrepancies, the Department will check to determine their nature and make whatever revisions are necessary in the plans, including the recross sectioning of the area involved. Any additional restaking required by the Engineer will be the responsibility of the Contractor. The additional restaking done by the Contractor will be paid for according to Article 109.04 of the Standard Specifications.
- (h) The Department will accept responsibility for the accuracy of the initial control points as provided herein.
- (i) It is not the responsibility of the Department, except as provided herein, to check the correctness of the Contractor's stakes; any errors apparent will be immediately called to the Contractor's attention and s(he) shall make the necessary correction before the stakes are used for construction purposes.
- (j) Where the plan quantities for excavation are to be used as the final pay quantities, the Department will make sufficient checks to determine if the work has been completed in conformance with the plan cross sections.

Responsibility of the Contractor.

- (a) The Contractor shall establish from the given survey points and bench marks all the control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control in close proximity to each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work. It is the Contractor's responsibility to tie in centerline control points in order to preserve them during construction operations.
- (b) At the completion of the grading operations, the Contractor shall set stakes at 100 ft (25 m) Station intervals along each profile grade line. These stakes will be used for final cross sectioning by the Department.

CHECK SHEET #10

- (c) The Contractor shall locate the right-of-way points for the installation of right-of-way markers. The Contractor shall set all line stakes for the construction of fences by the Contractor.
- (d) All work shall be according to normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Department at the completion of the project. All notes shall be neat, orderly and in accepted form.
- (e) For highway structure staking, the Contractor shall use diligent care and appropriate accuracy. Points shall be positioned to allow reuse throughout the construction process. Prior to the beginning of construction activities, all structure centerlines and pier lines are to be established by the Contractor and checked by the Engineer. The Contractor shall provide a detailed structure layout drawing showing span dimensions, staking lines and offset distances.

Measurement and Payment. This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT.

Not to be used for bidding purposes

CHECK SHEET #25

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
QUALITY CONTROL/QUALITY ASSURANCE OF CONCRETE MIXTURES

Effective: April 1, 1992
Revised: January 1, 2015

Add the following to Section 1020 of the Standard Specifications:

1020.16 Quality Control/Quality Assurance of Concrete Mixtures. This Article specifies the quality control responsibilities of the Contractor for concrete mixtures (except Class PC and PS concrete), cement aggregate mixture II, and controlled low-strength material incorporated in the project, and defines the quality assurance and acceptance responsibilities of the Engineer.

A list of quality control/quality assurance (QC/QA) documents is provided in Article 1020.16(g), Schedule D.

A Level I Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete testing.

A Level II Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete proportioning.

A Level III Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete mix design.

A Concrete Tester shall be defined as an individual who has successfully completed the Department's training to assist with concrete testing and is monitored on a daily basis.

Aggregate Technician shall be defined as an individual who has successfully completed the Department's training for gradation testing involving aggregate production and mixtures.

Mixture Aggregate Technician shall be defined as an individual who has successfully completed the Department's training for gradation testing involving mixtures.

Gradation Technician shall be defined as an individual who has successfully completed the Department's training to assist with gradation testing and is monitored on a daily basis.

- (a) Equipment/Laboratory. The Contractor shall provide a laboratory and test equipment to perform their quality control testing.

CHECK SHEET #25

The laboratory shall be of sufficient size and be furnished with the necessary equipment, supplies, and current published test methods for adequately and safely performing all required tests. The laboratory will be approved by the Engineer according to the current Bureau of Materials and Physical Research Policy Memorandum "Minimum Private Laboratory Requirements for Construction Materials Testing or Mix Design". Production of a mixture shall not begin until the Engineer provides written approval of the laboratory. The Contractor shall refer to the Department's "Required Sampling and Testing Equipment for Concrete" for equipment requirements.

Test equipment shall be maintained and calibrated as required by the appropriate test method, and when required by the Engineer. This information shall be documented on the Department's "Calibration of Concrete Testing Equipment" forms BMPR PCCQ01 through BMPR PCCQ09.

Test equipment used to determine compressive or flexural strength shall be calibrated each 12 month period by an independent agency, using calibration equipment traceable to the National Institute of Standards and Technology (NIST). The Contractor shall have the calibration documentation available at the test equipment location.

The Engineer will have unrestricted access to the plant and laboratory at any time to inspect measuring and testing equipment, and will notify the Contractor of any deficiencies. Defective equipment shall be immediately repaired or replaced by the Contractor.

- (b) Quality Control Plan. The Contractor shall submit, in writing, a proposed Quality Control (QC) Plan to the Engineer. The QC Plan shall be submitted a minimum of 45 calendar days prior to the production of a mixture. The QC Plan shall address the quality control of the concrete, cement aggregate mixture II, and controlled low-strength material incorporated in the project. The Contractor shall refer to the Department's "Model Quality Control Plan for Concrete Production" to prepare a QC Plan. The Engineer will respond in writing to the Contractor's proposed QC Plan within 15 calendar days of receipt.

Production of a mixture shall not begin until the Engineer provides written approval of the QC Plan. The approved QC Plan shall become a part of the contract between the Department and the Contractor, but shall not be construed as acceptance of any mixture produced.

The QC Plan may be amended during the progress of the work, by either party, subject to mutual agreement. The Engineer will respond in writing to a Contractor's proposed QC Plan amendment within 15 calendar days of receipt. The response will indicate the approval or denial of the Contractor's proposed QC Plan amendment.

- (c) Quality Control by Contractor. The Contractor shall perform quality control inspection, sampling, testing, and documentation to meet contract requirements. Quality control includes the recognition of obvious defects

CHECK SHEET #25

and their immediate correction. Quality control also includes appropriate action when passing test results are near specification limits, or to resolve test result differences with the Engineer. Quality control may require increased testing, communication of test results to the plant or the jobsite, modification of operations, suspension of mixture production, rejection of material, or other actions as appropriate. The Engineer shall be immediately notified of any failing tests and subsequent remedial action. Passing tests shall be reported no later than the start of the next work day.

When a mixture does not comply with specifications, the Contractor shall reject the material, unless the Engineer accepts the material for incorporation in the work, according to Article 105.03.

- (1) Personnel Requirements. The Contractor shall provide a Quality Control (QC) Manager who will have overall responsibility and authority for quality control. The jobsite and plant personnel shall be able to contact the QC Manager by cellular phone, two-way radio, or other methods approved by the Engineer.

The QC Manager shall visit the jobsite a minimum of once a week. A visit shall be performed the day of a bridge deck pour, the day a non-routine mixture is placed as determined by the Engineer, or the day a plant is anticipated to produce more than 1000 cu yd (765 cu m). Any of the three required visits may be used to meet the once per week minimum requirement.

The Contractor shall provide personnel to perform the required inspections, sampling, testing, and documentation in a timely manner. The Contractor shall refer to the Department's "Qualifications and Duties of Concrete Quality Control Personnel" document.

A Level I PCC Technician shall be provided at the jobsite during mixture production and placement, and may supervise concurrent pours on the project. For concurrent pours, a minimum of one Concrete Tester shall be required at each pour location. If the Level I PCC Technician is at one of the pour locations, a Concrete Tester is still required at the same location. Each Concrete Tester shall be able to contact the Level I PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer. A single Level I PCC Technician shall not supervise concurrent pours for multiple contracts.

A Level II PCC Technician shall be provided at the plant, or shall be available, during mixture production and placement. A Level II PCC Technician may supervise a maximum of three plants. Whenever the Level II PCC Technician is not at the plant during mixture production and placement, a Concrete Tester or Level I PCC Technician shall be present at the plant to perform any necessary concrete tests. The Concrete Tester, Level I PCC Technician, or other individual shall also be trained to perform any necessary aggregate moisture tests, if the Level II PCC Technician is not at the plant during mixture production and placement. The Concrete Tester, Level I PCC Technician, plant personnel, and jobsite personnel shall have the ability to contact the

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Level II PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer.

For a mixture which is produced and placed with a mobile portland cement concrete plant as defined in Article 1103.04, a Level II PCC Technician shall be provided. The Level II PCC Technician shall be present at all times during mixture production and placement. However, the Level II PCC Technician may request to be available if operations are satisfactory. Approval shall be obtained from the Engineer, and jobsite personnel shall have the ability to contact the Level II PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer.

A Concrete Tester, Mixture Aggregate Technician, and Aggregate Technician may provide assistance with sampling and testing. A Gradation Technician may provide assistance with testing. A Concrete Tester shall be supervised by a Level I or Level II PCC Technician. A Gradation Technician shall be supervised by a Level II PCC Technician, Mixture Aggregate Technician, or Aggregate Technician.

- (2) Required Plant Tests. Sampling and testing shall be performed at the plant, or at a location approved by the Engineer, to control the production of a mixture. The required minimum Contractor plant sampling and testing is indicated in Article 1020.16(g) Schedule A.
- (3) Required Field Tests. Sampling and testing shall be performed at the jobsite to control the production of a mixture, and to comply with specifications for placement. For standard curing, after initial curing, and for strength testing, the location shall be approved by the Engineer. The required minimum Contractor jobsite sampling and testing is indicated in Article 1020.16(g), Schedule B.
- (d) Quality Assurance by Engineer. The Engineer will perform quality assurance tests on independent samples and split samples. An independent sample is a field sample obtained and tested by only one party. A split sample is one of two equal portions of a field sample, where two parties each receive one portion for testing. The Engineer may request the Contractor to obtain a split sample. Aggregate split samples and any failing strength specimen shall be retained until permission is given by the Engineer for disposal. The results of all quality assurance tests by the Engineer will be made available to the Contractor. However, Contractor split sample test results shall be provided to the Engineer before Department test results are revealed. The Engineer's quality assurance independent sample and split sample testing are indicated in Article 1020.16(g), Schedule C.
- (1) Strength Testing. For strength testing, Article 1020.09 shall apply, except the Contractor and Engineer strength specimens may be placed in the same field curing box for initial curing and may be cured in the same water storage tank for final curing.

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- (2) Comparing Test Results. Differences between the Engineer's and the Contractor's split sample test results will be considered reasonable if within the following limits:

Test Parameter	Acceptable Limits of Precision
Slump	0.75 in. (20 mm)
Air Content	0.9%
Compressive Strength	900 psi (6200 kPa)
Flexural Strength	90 psi (620 kPa)
Slump Flow (Self-Consolidating Concrete (SCC))	1.5 in. (40 mm)
Visual Stability Index (SCC)	Not Applicable
J-Ring (SCC)	1.5 in. (40 mm)
L-Box (SCC)	10 %
Hardened Visual Stability Index (SCC)	Not Applicable
Dynamic Segregation Index (SCC)	1.0 %
Flow (Controlled Low-Strength Material (CLSM))	1.5 in. (40 mm)
Strength (CLSM)	40 psi (275 kPa)
Aggregate Gradation	See "Guideline for Sample Comparison" in Appendix "A" of the Manual of Test Procedures for Materials.

When acceptable limits of precision have been met, but only one party is within specification limits, the failing test shall be resolved before the material may be considered for acceptance.

- (3) Test Results and Specification Limits.

- a. Split Sample Testing. If either the Engineer's or the Contractor's split sample test result is not within specification limits and the other party is within specification limits, immediate retests on a split sample shall be performed for slump, air content, slump flow, visual stability index, J-Ring, L-Box, dynamic segregation index, flow (CLSM), or aggregate gradation. A passing retest result by each party will require no further action. If either the Engineer's or Contractor's slump, air content, slump flow, visual stability index, J-Ring, L-Box, dynamic segregation index, flow (CLSM), or aggregate gradation split sample retest result is a failure; or if either the Engineer's or Contractor's strength or hardened visual stability index test result is a failure and the other party is within specification limits; the following actions shall be initiated to investigate the test failure:
1. The Engineer and the Contractor shall investigate the sampling method, test procedure, equipment condition, equipment calibration, and other factors.

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2. The Engineer or the Contractor shall replace test equipment, as determined by the Engineer.
3. The Engineer and the Contractor shall perform additional testing on split samples, as determined by the Engineer.

For aggregate gradation, jobsite slump, jobsite air content, jobsite slump flow, jobsite visual stability index, jobsite J-Ring, jobsite L-Box, jobsite dynamic segregation index, and jobsite flow (CLSM), if the failing split sample test result is not resolved according to 1., 2., or 3., and the mixture has not been placed, the Contractor shall reject the material; unless the Engineer accepts the material for incorporation in the work, according to Article 105.03. If the mixture has already been placed, or if a failing strength or hardened visual stability index test result is not resolved according to 1., 2., or 3., the material will be considered unacceptable.

If a continued trend of difference exists between the Engineer's and the Contractor's split sample test results, or if split sample test results exceed the acceptable limits of precision, the Engineer and the Contractor shall investigate according to items 1., 2., and 3.

- b. Independent Sample Testing. For aggregate gradation, jobsite slump, jobsite air content, jobsite slump flow, jobsite visual stability index, jobsite J-Ring, jobsite L-Box, jobsite dynamic segregation index, jobsite flow (CLSM), if the result of a quality assurance test on a sample independently obtained by the Engineer is not within specification limits, and the mixture has not been placed, the Contractor shall reject the material; unless the Engineer accepts the material for incorporation in the work, according to Article 105.03. If the mixture has already been placed or the Engineer obtains a failing strength or hardened visual stability index test result, the material will be considered unacceptable.
- (e) Acceptance by the Engineer. Final acceptance will be based on the Standard Specifications and the following:
- (1) The Contractor's compliance with all contract documents for quality control.
 - (2) Validation of Contractor quality control test results by comparison with the Engineer's quality assurance test results using split samples. Any quality control or quality assurance test determined to be flawed may be declared invalid only when reviewed and approved by the Engineer. The Engineer will declare a test result invalid only if it is proven that improper sampling or testing occurred. The test result is to be recorded and the reason for declaring the test invalid will be provided by the Engineer.

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- (3) Comparison of the Engineer's quality assurance test results with specification limits using samples independently obtained by the Engineer.

The Engineer may suspend mixture production, reject materials, or take other appropriate action if the Contractor does not control the quality of concrete, cement aggregate mixture II, or controlled low-strength material for acceptance. The decision will be determined according to (1), (2), or (3).

(f) Documentation.

- (1) Records. The Contractor shall be responsible for documenting all observations, inspections, adjustments to the mix design, test results, retest results, and corrective actions in a bound hardback field book, bound hardback diary, or appropriate Department form, which shall become the property of the Department. The documentation shall include a method to compare the Engineer's test results with the Contractor's results. The Contractor shall be responsible for the maintenance of all permanent records whether obtained by the Contractor, the consultants, the subcontractors, or the producer of the mixture. The Contractor shall provide the Engineer full access to all documentation throughout the progress of the work.

The Department's form BMPR MI504, form BMPR MI654, and form BMPR MI655 shall be completed by the Contractor, and shall be submitted to the Engineer weekly or as required by the Engineer. A correctly completed form BMPR MI504, form BMPR MI654, and form BMPR MI655 are required to authorize payment by the Engineer for applicable pay items.

- (2) Delivery Truck Ticket. The following information shall be recorded on each delivery ticket or in a bound hardback field book: initial revolution counter reading (final reading optional) at the jobsite, if the mixture is truck-mixed; time discharged at the jobsite; total amount of each admixture added at the jobsite; and total amount of water added at the jobsite.
- (g) Basis of Payment and Schedules. Quality Control/Quality Assurance of portland cement concrete mixtures will not be paid for separately, but shall be considered as included in the cost of the various concrete contract items.

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SCHEDULE A

CONTRACTOR PLANT SAMPLING AND TESTING			
Item	Test	Frequency	IL Modified AASHTO, IL Modified ASTM, or Illinois Test Procedure ^{1/}
Aggregates (Arriving at Plant)	Gradation ^{2/}	As needed to check source for each gradation number	ITP 2, ITP 11, ITP 27, and ITP 248
Aggregates (Stored at Plant in Stockpiles or Bins)	Gradation ^{2/}	2500 cu yd (1900 cu m) for each gradation number ^{3/}	ITP 2, ITP 11, ITP 27, and ITP 248
Aggregates (Stored at Plant in Stockpiles or Bins)	Moisture ^{4/} : Fine Aggregate	Once per week for moisture sensor, otherwise daily for each gradation number	Flask, Dunagan, Pychnometer Jar, or ITP 255
	Moisture ^{4/} : Coarse Aggregate	As needed to control production for each gradation number	Dunagan, Pychnometer Jar, or ITP 255
Mixture ^{5/}	Slump Air Content Unit Weight / Yield Slump Flow (SCC) Visual Stability Index (SCC) J-Ring (SCC) ^{6/} L-Box (SCC) ^{6/} Temperature	As needed to control production	R 60 and T 119 R 60 and T 152 or T 196 R 60 and T 121 ITP SCC-1 and ITP SCC-2 ITP SCC-1 and ITP SCC-2 ITP SCC-1 and ITP SCC-3 ITP SCC-1 and ITP SCC-4 R 60 and ASTM C 1064
Mixture (CLSM) ^{7/}	Flow Air Content Temperature	As needed to control production	ITP 307

- 1/ Refer to the Department's "Manual of Test Procedures for Materials".
- 2/ All gradation tests shall be washed. Testing shall be completed no later than 24 hours after the aggregate has been sampled.
- 3/ One per week (Sunday through Saturday) minimum, unless the stockpile has not received additional aggregate material since the previous test.

One per day minimum for a bridge deck pour, unless the stockpile has not received additional aggregate material since the previous test. The sample shall be taken and testing completed prior to the pour. The bridge deck aggregate sample may be taken the day before the pour or as approved by the Engineer.
- 4/ If the moisture test and moisture sensor disagree by more than 0.5 percent, retest. If the difference remains, adjust the moisture sensor to an average of two or more moisture tests. The Department's "Water/Cement Ratio Worksheet" form (BMPR PCCW01) shall be completed, when applicable.

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- 5/ The Contractor may also perform strength testing according to Illinois Modified AASHTO R 60, T 23, and T 22 or T 177; or water content testing according to Illinois Modified AASHTO T 318.

The Contractor may also perform other available self-consolidating concrete (SCC) tests at the plant to control mixture production.

- 6/ The Contractor shall select the J-Ring or L-Box test for plant sampling and testing.

- 7/ The Contractor may also perform strength testing according to ITP 307.

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SCHEDULE B

CONTRACTOR JOBSITE SAMPLING & TESTING ^{1/}			
Item	Measured Property	Random Sample Testing Frequency per Mix Design and per Plant ^{2/}	IL Modified AASHTO, IL Modified ASTM, or Illinois Test Procedure
Pavement, Shoulder, Base Course, Base Course Widening, Driveway Pavement, Railroad Crossing, Cement Aggregate Mixture II	Slump ^{3/4/}	1 per 500 cu yd (400 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/5/6/}	1 per 100 cu yd (80 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/8/} or Flexural Strength ^{7/8/}	1 per 1250 cu yd (1000 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Bridge Approach Slab ^{9/} , Bridge Deck ^{9/} , Bridge Deck Overlay ^{9/} , Superstructure ^{9/} , Substructure, Culvert, Miscellaneous Drainage Structures, Retaining Wall, Building Wall, Drilled Shaft Pile & Encasement Footing, Foundation, Pavement Patching, Structural Repairs	Slump ^{3/4/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/5/6/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/8/} or Flexural Strength ^{7/8/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Seal Coat	Slump ^{3/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/5/6/}	1 per 250 cu yd (200 cu m) or minimum 1/day when air is entrained	R 60 and T 152 or T 196
	Compressive Strength ^{7/8/} or Flexural Strength ^{7/8/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23

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CONTRACTOR JOBSITE SAMPLING & TESTING ^{1/}			
Curb, Gutter, Median, Barrier, Sidewalk, Slope Wall, Paved Ditch, Fabric Formed Concrete Revetment Mat ^{10/} , Miscellaneous Items, Incidental Items	Slump ^{3/ 4/}	1 per 100 cu yd (80 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/ 5/ 6/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	1 per 400 cu yd (300 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Items Using Self- Consolidating Concrete	Slump Flow ^{3/} VSI ^{3/} J-Ring ^{3/ 11/} L-Box ^{3/ 11/} HVS ^{12/}	Perform at same frequency that is specified for the Item's slump	ITP SCC-1 & ITP SCC-2 ITP SCC-1 & ITP SCC-2 ITP SCC-1 & ITP SCC-3 ITP SCC-1 & ITP SCC-4
	HVS ^{12/}	Minimum 1/day at start of production for that day	ITP SCC-1 and ITP SCC-6
	Dynamic Segregation Index (DSI)	Minimum 1/week at start of production for that week	ITP SCC-1 and ITP SCC-8 (Option C)
	Air Content ^{3/ 5/ 6/}	Perform at same frequency that is specified for the Item's air content	ITP SCC-1 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	Perform at same frequency that is specified for the Item's strength	ITP SCC-1, T 22 and T 23 or ITP SCC-1, T 177 and T 23
	Temperature ^{3/}	As needed to control production	R 60 and ASTM C 1064
Controlled Low- Strength Material (CLSM)	Flow, Air Content, Compressive Strength (28-day) ^{13/} , and Temperature	First truck load delivered and as needed to control production thereafter	ITP 307

1/ Sampling and testing of small quantities of curb, gutter, median, barrier, sidewalk, slope wall, paved ditch, miscellaneous items, and incidental items may be waived by the Engineer, if requested by the Contractor. However, quality control personnel are still required according to Article 1020.16(c)(1). The Contractor shall also provide recent evidence that similar material has been found to be satisfactory under normal sampling and testing

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procedures. The total quantity that may be waived for testing shall not exceed 100 cu yd (76 cu m) per contract.

If the Contractor's or Engineer's test result for any jobsite mixture test is not within the specification limits, all subsequent truck loads delivered shall be tested by the Contractor until the problem is corrected.

- 2/ If one mix design is being used for several construction items during a day's production, one testing frequency may be selected to include all items. The construction items shall have the same slump, air content, and water/cement ratio specifications. For self-consolidating concrete, the construction items shall have the same slump flow, visual stability index, J-Ring, L-Box, air content, and water/cement ratio specifications. The frequency selected shall equal or exceed the testing required for the construction item.

One sufficiently sized sample shall be taken to perform the required test(s). Random numbers shall be determined according to the Department's "Method for Obtaining Random Samples for Concrete". The Engineer will provide random sample locations.

- 3/ The temperature, slump, and air content tests shall be performed on the first truck load delivered, for each pour. For self-consolidating concrete, the temperature, slump flow, visual stability index, J-Ring or L-Box, and air content tests shall be performed on the first truck load delivered, for each pour. Unless a random sample is required for the first truck load, testing the first truck load does not satisfy random sampling requirements.
- 4/ The slump random sample testing frequency shall be a minimum 1/day for a construction item which is slipformed.
- 5/ If a pump or conveyor is used for placement, a correction factor shall be established to allow for a loss of air content during transport. The first three truck loads delivered shall be tested, before and after transport by the pump or conveyor, to establish the correction factor. Once the correction is determined, it shall be re-checked after an additional 50 cu yd (38 cu m) is pumped, or an additional 100 cu yd (76 cu m) is transported by conveyor. This shall continue throughout the pour. If the re-check indicates the correction factor has changed, a minimum of two truckloads is required to re-establish the correction factor. The correction factor shall also be re-established when significant changes in temperature, distance, pump or conveyor arrangement, and other factors have occurred. If the correction factor is greater than 3.0 percent, the Contractor shall take corrective action to reduce the loss of air content during transport by the pump or conveyor. The Contractor shall record all air content test results, correction factors, and corrected air contents. The corrected air content shall be reported on form BMPR MI654.
- 6/ If the Contractor's or Engineer's air content test result is within the specification limits, and 0.2 percent or closer to either limit, the next truck load delivered shall be tested by the Contractor. For example, if the specified air content range is 5.0 to 8.0 percent and the test result is 5.0, 5.1, 5.2, 7.8, 7.9, or 8.0 percent, the next truck shall be tested by the Contractor.

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- 7/ The test of record for strength shall be the day indicated in Article 1020.04. For cement aggregate mixture II, a strength requirement is not specified and testing is not required. Additional strength testing to determine early falsework and form removal, early pavement or bridge opening to traffic, or to monitor strengths is at the discretion of the Contractor. Strength shall be defined as the average of two 6 x 12 in. (150 x 300 mm) cylinder breaks, three 4 x 8 in. (100 x 200 mm) cylinder breaks, or two beam breaks for field tests. Per Illinois Modified AASHTO T 23, cylinders shall be 6 x 12 in. (150 x 300 mm) when the nominal maximum size of the coarse aggregate exceeds 1 in. (25 mm). Nominal maximum size is defined as the largest sieve which retains any of the aggregate sample particles.
- 8/ In addition to the strength test, a slump test, air content test, and temperature test shall be performed on the same sample. For self-consolidating concrete, a slump flow test, visual stability index test, J-Ring or L-Box test, air content test, and temperature test shall be performed on the same sample as the strength test. For mixtures pumped or conveyored, the Contractor shall sample according to Illinois Modified AASHTO R 60.
- 9/ The air content test will be required for each delivered truck load.
- 10/ For fabric formed concrete revetment mat, the slump test is not required and the flexural strength test is not applicable.
- 11/ The Contractor shall select the J-Ring or L-Box test for jobsite sampling and testing.
- 12/ In addition to the hardened visual stability index (HVSI) test, a slump flow test, visual stability index (VSI) test, J-Ring or L-Box test, air content test, and temperature test shall be performed on the same sample. The Contractor shall retain all hardened visual stability index cut cylinder specimens until the Engineer notifies the Contractor that the specimens may be discarded.
- 13/ The test of record for strength shall be the day indicated in Article 1019.04. In addition to the strength test, a flow test, air content test, and temperature test shall be performed on the same sample. The strength test may be waived by the Engineer if future removal of the material is not a concern.

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SCHEDULE C

ENGINEER QUALITY ASSURANCE INDEPENDENT SAMPLE TESTING		
Location	Measured Property	Testing Frequency ^{1/}
Plant	Gradation of aggregates stored in stockpiles or bins, Slump and Air Content	As determined by the Engineer.
Jobsite	Slump, Air Content, Slump Flow, Visual Stability Index, J-Ring, L-Box, Hardened Visual Stability Index, Dynamic Segregation Index, and Strength	As determined by the Engineer.
	Flow, Air Content, Strength (28-day), and Dynamic Cone Penetration for Controlled Low-Strength Material (CLSM)	As determined by the Engineer

ENGINEER QUALITY ASSURANCE SPLIT SAMPLE TESTING ^{2/}		
Location	Measured Property	Testing Frequency ^{1/}
Plant	Gradation of aggregates stored in stockpiles or bins	At the beginning of the project, the first test performed by the Contractor. Thereafter, a minimum of 10% of total tests required of the Contractor will be performed per aggregate gradation number and per plant.
	Slump, Air Content, Slump Flow (SCC), Visual Stability Index (SCC), J-Ring (SCC), and L-Box (SCC)	As determined by the Engineer.
Jobsite	Slump, Air Content ^{3/} , Slump Flow, Visual Stability Index, J-Ring and L-Box	At the beginning of the project, the first three tests performed by the Contractor. Thereafter, a minimum of 20% of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design.
	Hardened Visual Stability Index	As determined by the Engineer.
	Dynamic Segregation Index	As determined by the Engineer.
	Strength	At the beginning of the project, the first test performed by the Contractor. Thereafter, a minimum of 20% of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design.
	Flow, Air Content, and Strength (28-day) for Controlled Low-Strength Material (CLSM)	As determined by the Engineer.

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- 1/ The Engineer will perform the testing throughout the period of quality control testing by the Contractor.
- 2/ The Engineer will witness and take immediate possession of or otherwise secure the Department's split sample obtained by the Contractor.
- 3/ Before transport by pump or conveyor, a minimum of 20 percent of total tests required of the Contractor will be performed per mix design and per plant. After transport by pump or conveyor, a minimum of 20 percent of total tests required of the Contractor will be performed per mix design and per plant.

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SCHEDULE D

CONCRETE QUALITY CONTROL AND QUALITY ASSURANCE DOCUMENTS

- (a) Model Quality Control Plan for Concrete Production (*)
- (b) Qualifications and Duties of Concrete Quality Control Personnel (*)
- (c) Development of Gradation Bands on Incoming Aggregate at Mix Plants (*)
- (d) Required Sampling and Testing Equipment for Concrete (*)
- (e) Method for Obtaining Random Samples for Concrete (*)
- (f) Calibration of Concrete Testing Equipment (BMPR PCCQ01 through BMPR PCCQ09) (*)
- (g) Water/Cement Ratio Worksheet (BMPR PCCW01) (*)
- (h) Field/Lab Gradations (BMPR MI504) (*)
- (i) Concrete Air, Slump and Quantity (BMPR MI654) (*)
- (j) P.C. Concrete Strengths (BMPR MI655) (*)
- (k) Aggregate Technician Course or Mixture Aggregate Technician Course (*)
- (l) Portland Cement Concrete Tester Course (*)
- (m) Portland Cement Concrete Level I Technician Course - Manual of Instructions for Concrete Testing (*)
- (n) Portland Cement Concrete Level II Technician Course - Manual of Instructions for Concrete Proportioning (*)
- (o) Portland Cement Concrete Level III Technician Course - Manual of Instructions for Design of Concrete Mixtures (*)
- (p) Manual of Test Procedures for Materials

* Refer to Appendix C of the Department's "Manual of Test Procedures for Materials" for more information.

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Section V

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)