



## **CONTRACTUAL DOCUMENTS**

**GEORGETOWN COUNTY WATER & SEWER DISTRICT  
PAWLEYS ISLAND, SOUTH CAROLINA**

**SEWER MANHOLE AND WETWELL REHABILITATION PROJECT**

**MANDATORY PRE-BID CONFERENCE ON  
Tuesday, September 16th, 2025, at 9:00 AM**

**BIDS DUE: September 25, 2025, at 3:00 PM**

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# ADVERTISEMENT FOR BIDS

**PROJECT:** SEWER MANHOLE AND WETWELL REHABILITATION PROJECT

**OWNER:** Georgetown County Water and Sewer District  
456 Clearwater Drive  
PO Drawer 2730  
Pawleys Island, SC 29585

**RECEIPT OF BIDS:** Sealed bids for the rehabilitation of **up to Five (5) specified wet wells and Twenty-nine (29) specified manholes** located in Georgetown County, will be received by the Owner at their Pawleys Island Administration Building (address above) until **September 25, 2025 at 3:00 PM**, local time, and then at said office will be publicly opened and read aloud.

**MANDATORY PRE-BID CONFERENCE:** A **MANDATORY** pre-bid conference will be held on **September 16, 2025** at **9:00 AM**, at the Pawleys Island Administration Building (address above)

**OWNER'S RIGHTS:** The Owner reserves the right to waive any informality in bidding and to reject all bids if it is in the Owner's best interest to do so. Unless all bids are rejected, the award will be to the low, responsive, responsible bidder.

# INSTRUCTIONS TO BIDDERS

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## **Receipt and Opening of Bids:**

Bids will be received at the time and place as specified in the Advertisement for Bids, and then at said office, publicly opened and read aloud. **No oral, telegraph, or telephone bids or modifications will be accepted.** All bids submitted shall remain in full force and effect for a period of thirty (30) days and may be accepted or rejected by the Georgetown County Water and Sewer District (**Owner**) at any time prior to the expiration date.

## **Licenses:**

1. The attention of Bidders is directed to the provisions of the acts for licensing of General Contractors for the State of South Carolina, and all requirements of such acts that have bearing upon this work shall be deemed a part of the Specifications as if written therein in full. The showing by the Contractor of his license number shall be deemed as the Contractor's representation that he is legally qualified to enter the prescribed Contract for any/or all portions of the work included in his bid.
2. All Bidders submitting a bid shall have a currently valid Contractor's License. This license number shall be shown on the bid form immediately below the signature identification, and on the face of the sealed envelope containing the submitted bid.
3. Subcontractors who will be engaged by the General Contractor shall also hold the required licenses.
4. All bidders shall be certified by the manufacturer to apply coating specifies on bid form and include the certification with the bid. See section 1.4.5 Submittals.

## **Insurance:**

1. **Worker's Compensation Insurance:** Prior to beginning the work, the Contractor shall provide full worker's compensation insurance for all persons which may be employed directly or indirectly in the performance of this agreement. Coverage is to apply to all employees for statutory limits in compliance with the applicable state and federal laws and shall be maintained in full force and effect during the life of the contract.
2. **Liability Insurance:** The Contractor shall provide, for the life of the contract, and any subsequent extensions, hereto, public liability insurance for claims for bodily injury and property damage which may arise from the Contractor's performance of this Agreement. The policy shall provide limit liability of not less than \$2,000,000.
3. **Vehicle Insurance:** The Contractor shall provide, for the life of the contract, adequate automotive/truck, or other vehicle insurance with minimum coverage of \$1,000,000 each for both liability and under insured/uninsured motorist, as well as any other coverage required by the State of South Carolina.

**Execution of Contract:**

The Owner, within ten (10) calendar days of receipt of required certificates of insurance and Agreements signed by the party to whom the Agreement was awarded, shall sign the Agreement, and return to such party an executed duplicate of the Agreement. Should the Owner not execute the Agreement within such a period, the Bidder may, by written notice, withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

**Laws and Regulations:**

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over completion of the project shall apply to the Contract throughout, and they will be deemed to be included as though herein written out in full.

The Bidder shall have an established confined space policy, with all necessary equipment to, at a minimum, comply with all OSHA Confined Space requirements.

The Bidder shall have all equipment, personnel, and procedures necessary to ensure a safe work area, including traffic barriers and traffic handling procedures.

**Non-Resident Contractors:**

1. A Bidder, who is a non-resident contractor, shall be aware of Section 12-9-310, Article 3 of the South Carolina Income Tax Act of 1926, as amended. This Article requires the Owner entering into a contract with a non-resident taxpayer, where such contract exceeds ten thousand dollars (\$10,000), to withhold two percent (2%) of each payment made to the non-resident.
2. The funds deducted from the payment made to the non-resident contractor are funds deemed to be held in trust for the State of South Carolina and will be reported by the Owner to the South Carolina Tax Commission. This deduction is in addition to any retainage deductions specified in the General Conditions.
3. Modifications to the South Carolina Income Tax Act allow a non-resident contractor to be exempted from the two percent (2%) withholding rule. The non-resident contractor must complete a "Nonresident Taxpayer Registration Affidavit Income Tax Withholding (Form I-312). The completed Affidavit shall be submitted to the Georgetown County Water and Sewer District as part of the Contract package and not to the State of South Carolina. A copy of SC Form I-312 is included.
4. All contracts for ten thousand dollars (\$10,000) or more, where non-resident contractors DO NOT file Form #I-312 with the Owner, will have two percent (2%) withheld from each payment in keeping with the South Carolina Income Tax Act.

**Examination of Specifications:**

Each Bidder shall carefully examine Specifications and drawings and thoroughly familiarize himself with the detailed requirements thereof, prior to submitting a bid. If the Bidder is in doubt as to the true meaning of any part of the Specifications or other documents, or if any error, discrepancy,

conflict, or omission is noted, the Bidder should immediately contact Matt Alford, Maintenance Supervisor for Georgetown County Water and Sewer District by email at [matta@gcwsd.com](mailto:matta@gcwsd.com), or USPS at PO Box 2730, Pawleys Island, SC. The Maintenance Supervisor will clarify the intent of the said documents and/or correct such error, discrepancy, conflict, or omission, and will notify all known participating Bidders by written Addendum. No telephonic inquiries will be accepted.

### **Pre-Bid Meeting**

A **MANDATORY** pre-bid meeting will be held on **September 16, 2025, at 9:00 AM**, beginning at the Pawleys Island Administration building at 456 Clearwater Drive, Pawleys Island, to allow bidders to review each site and more thoroughly determine the extent of work needed to properly repair, rehabilitate, and coat the manholes and/or wet wells. **All Bidders must attend this meeting to be considered "responsive".**

### **Information Not Guaranteed**

1. All information given in the Specifications and drawings or in the Contract Documents, relating to existing conditions or other information on existing facilities, is from the best sources available to the Owner. All such information is furnished only for the information and convenience of the Bidders.
2. It is further agreed and understood that the Bidder will not use any of the information made available to him or obtained in any examination made by him, in any manner, as a basis or grounds for claim or demand of any nature, against the Owner, arising from, or by reason of any variance, which may exist between the information offered by the actual materials or structures encountered during the completion of the work, except as may be otherwise provided for in the Contract Documents.
3. If any work is performed by the Contractor, or any subcontractor, prior to adequate verification of applicable data, any resultant extra cost for adjustment of work necessary to conform to existing conditions, or damage to existing facilities, shall be assumed by the Contractor without reimbursement or compensation by the Owner.

### **Addenda and Interpretations**

1. No interpretation of the meaning of the Specifications or other Bid Documents will be made orally to any Bidder by the Owner prior to award of the Contract.
2. Every request for such information should be in writing to GCWSD, PO Drawer 2730, Pawleys Island, SC 29585, or by email to [matta@gcwsd.com](mailto:matta@gcwsd.com). To be given consideration, such a request must be received at least seven (7) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplemental instructions will be made in the form of written Addenda to the Specifications.
3. Addenda will be mailed or delivered to all who are known to have received a complete set of Contractual Documents.
4. Every attempt will be made to issue addenda no later than four (4) days prior to the date for receipt of Bids, except an Addendum withdrawing the Request for Bids or one which

includes postponement of the date for receipt of Bids. Should an Addendum be required closer to the Bid date than the specified four (4) days, Bidders shall be notified via fax or telephone that an Addendum is being released. Bidders shall be responsible for making necessary arrangements to obtain late-issue Addenda. No attempt shall be made to provide the changes verbally.

### **Ability and Experience of Bidder**

1. It is the purpose of the Owner not to award this Contract to any Bidder who does not furnish satisfactory evidence that he has the experience of successfully completing projects of this type and magnitude and that he has sufficient capital, equipment, and personnel to enable him to accomplish the work successfully and to complete in the time stipulated.
2. The Owner may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner, under oath if so required, all such information and data for this purpose as the Owner may request.
3. The successful Bidder will be required to construct the work with his own, directly employed personnel.

### **Bids and Qualifications:**

Before a Bid is considered for award, the Bidder may be requested by the Owner to submit a statement of facts, in detail, as to his previous experience in performing similar or comparable work, and of his business and technical organization and financial resources available to be used in performing the contemplated work.

### **Time for Completion:**

The Bidder must agree to commence work within ninety (90) days, or within such negotiated time period as provided for in the Agreement.

### **Liquidated Damages:**

The Bidder must agree to pay, as liquidated damages, the amount set forth in the Agreement for each consecutive calendar day that the work is incomplete after the date of completion.

### **Modification of Bids:**

Bids may be modified, in writing, executed (in the manner that a bid must be executed), and delivered to the place where bids are to be submitted, at any time prior to the opening of bids. Telegraphic modifications of the Bid will not be accepted.

### **Withdrawal of Bids:**

1. Any Bidder may withdraw his Bid, either personally, or by written request, at any time prior to the scheduled time for opening Bids or authorized postponement thereof.

2. No Bidder may withdraw his Bid for a period of thirty (30) calendar days after the date set for the opening, thereof, and all Bids shall be subject to acceptance by the Owner during this period.

**Irregular Bids:**

1. If the Bid is on a form other than that furnished by the Owner, or if the form is altered or, any part, detached.
2. If there are unauthorized additions, conditional, or alternate bids, or irregularities of any kind which may tend to make the Bid incomplete, indefinite, or ambiguous to its meaning.
3. If the Bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If there is a reason to believe that any Bidder is interested in more than one Bid on the same project, or that there has been collusion among the Bidders.

**Disqualification of Bidders:**

More than one Bid from an individual, a firm or partnership, a corporation or any association, under the same or different names, will not be considered. Reasonable grounds for believing that any Bidder is interested as a principal in more than one Bid for the work contemplated will cause the rejection of all Bids in which such Bidder is believed to be interested. Any or all Bids will be rejected if there is reason to believe that collusion exists among the Bidders. Contracts will be awarded only to the responsible Bidders capable of performing the class of work contemplated within the time specified and having sufficient resources and finances to carry out the work properly.

**Acceptance or Rejection of Bids:**

The Owner reserves the right to reject any and all Bids when such rejection is in the best interest of the Owner; to reject the Bid of a Bidder who has previously failed to perform properly or complete on time contracts of a similar nature; and to reject the Bid of a Bidder who is not, in the opinion of the Owner, in a position to perform the Contract. The Owner also reserves the right to waive any informalities and technicalities in bidding.

**Method of Award:**

Unless all Bids are rejected, the Contract will be awarded to the lowest responsive, responsible Bidder. A responsive Bidder is defined as one whose Bid is complete and submitted in accordance with the Contract Documents without exceptions, special conditions, or alternate bids. A responsible Bidder is defined as one who is legally licensed to bid and perform the work in the State of South Carolina, maintains a permanent place of business, has adequate equipment to complete the work properly and within the established time limit, has adequate financial status to meet his obligations contingent to the work, and is considered by the Owner to be capable of performing the work in accordance with the Contract Documents.



The technical specifications include **five (5) specified wet wells and twenty-nine (29) specified manholes** and their locations. The Bidder shall price each Bid Item separately. The final Contract Amount will reflect the sum total of the individually priced items chosen for rehabilitation by the Owner.

**Bid Data:**

1. All Bids must be submitted on the blank bid form provided and must state the total price for which the Bidder will complete the work in accordance with the terms of the Contract Documents. All blank spaces must be filled, and there shall be no alterations or erasures.
2. The Bid form must be signed manually by a principal or an officer duly authorized to make contracts. The Bidder's legal name must be fully stated, and the name and title of the person signing must be printed as indicated.
3. **The References form must be completed with no less than five (5) references.**

**Submitting Bids:**

1. Each Bid must be submitted on the prescribed bid form. All blank spaces for bid prices must be filled, in ink or typewritten, and the Bid must be fully completed and executed when submitted. Only one copy of the bid form is required.
2. Bidders are cautioned that it is the responsibility of each individual Bidder to ensure that his Bid is in the possession of the Owner prior to the stated time and stated place of the bid opening. The owner is not responsible for Bids delayed by mail and/or delivery services of any nature.
3. Each Bid must be submitted in an opaque sealed envelope, plainly marked on the outside, addressed and delivered as shown below. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed to the owner at:

Georgetown County Water and Sewer District  
Attn: Matt Alford  
456 Clearwater Drive  
PO Drawer 2730  
Pawleys Island, South Carolina 29585

**LOWER LEFT-HAND CORNER:**

**Bid for Manhole and Wet Well Rehabilitation Project  
September 25, 2025, 3:00 PM**

# TECHNICAL SPECIFICATIONS

*Georgetown County Water & Sewer District*

## FOREWORD

This specification covers work, materials, and equipment required for protecting and/or rehabilitating concrete and masonry manholes and other underground vaults by monolithic spray-application of a high-build, solvent-free epoxy coating to eliminate infiltration, provide corrosion protection, repair voids, and enhance structural integrity. Procedures for surface preparation, cleaning, application, and testing are described herein.

All repairs and rehabilitation Work shall be performed in the order indicated on the following table. The final contract price will reflect the sum of the specific Bid Items as priced by the successful bidder

## PART 1 - GENERAL

1.1 Requirements for surface preparation, repairs, and solvent-free epoxy coating application to specified surfaces.

### 1.2 REFERENCES

- A. ASTM D638 - Tensile Properties of Plastics
- B. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics
- C. ASTM D695 - Compressive Properties of Rigid Plastics
- D. ASTM D4541 - Pull-off Strength of Coatings Using a Portable Adhesion Tester
- E. ASTM D2584 - Volatile Matter Content
- F. ASTM D2240 - Durometer Hardness, Type D
- G. ASTM D543 - Resistance of Plastics to Chemical Reagents
- H. ASTM C109 - Compressive Strength Hydraulic Cement Mortars
- I. ACI 506.2-77 - Specifications for Materials, Proportioning, and Application of Shotcrete
- J. ASTM C579 - Compressive Strength of Chemically Setting Silicate and Silica Chemical Resistant Mortars.
- K. ASTM - The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- L. NACE - The published standards of National Association of Corrosion Engineers (NACE International), Houston, TX.
- M. SSPC - The published standards of the Society of Protective Coatings, Pittsburgh, PA.

#### 1.4 SUBMITTALS

**The following items shall be submitted:**

1. Technical data sheet on each product used, including ASTM test results indicating the product conforms to and is suitable for its intended use per these specifications.
2. **Submittals on products other than those specified must: (a) be received by the Owner no later than seven (7) days prior to the bid opening in order to be considered for possible “approved equal” status, and (b) Applicator Qualifications listed below in 5a-5d must be submitted with the proposed product(s) information no later than seven (7) days prior to the bid opening in order to be considered.**
3. Safety Data Sheets (SDS) for each product used.
4. Project-specific guidelines and recommendations.
5. Applicator Qualifications:
  - a. Manufacturer certification that the Applicator has been trained and approved in the handling, mixing, and application of the products to be used.
  - b. Certification that the equipment to be used for applying the products has been manufactured or approved by the protective coating manufacturer, and Applicator personnel have been trained and certified for proper use of the equipment.
  - c. Five (5) recent references of Applicator (projects similar size and scope) indicating successful application of a high-build solvent-free epoxy coating by plural component spray application.
  - d. Proof of any necessary federal, state or local permits or licenses necessary for the project.
6. Design details for any additional ancillary systems and equipment to be used in site and surface preparation, application, and testing.

#### 1.5 QUALITY ASSURANCE

- A. Applicator shall initiate and enforce quality control procedures consistent with applicable ASTM, NACE, and SSPC standards and the protective coating manufacturer's recommendations.
- B. **A NACE/SSPC Certified Coating Inspector shall be provided by the contractor.** The Inspector will provide the owner with a written report confirming adherence to these specifications, to include proper procedure and equipment usage for preparation, application, and material handling.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. All materials are to be kept dry, protected from the weather, and stored under cover.
- B. Protective coating materials are to be stored according to the manufacturer's recommendations. Do not store near flame, heat, or strong oxidants.
- C. Repair and protective coating materials are to be handled according to their material safety data sheets.

## 1.7 SITE CONDITIONS

- A. Applicator shall conform with all local, state, and federal regulations, including those set forth by OSHA, RCRA and the EPA, and any other applicable authorities.
- B. Method statements and design procedures are to be provided by Owner when confined space entry, flow diversion, or bypass is necessary in order for Applicator to perform the specified work.

## 1.8 WARRANTY

- A. **Applicator shall warrant all work against defects in materials and workmanship for a period of five (5) years**, unless otherwise noted, from the date of final acceptance of the project. Applicator shall, within a reasonable time after receipt of written notice thereof, repair defects in materials or workmanship which may develop during said five (5) year period, and any damage to other work caused by such defects or the repairing of same, at his own expense and without cost to the Owner.

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## PART 2 - PRODUCTS

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### 2.1 EXISTING STRUCTURE

- A. Standard Portland cement or new concrete (not quick-setting high-strength cement) must be well cured prior to application of the protective coating. Generally, 28 days is an adequate cure time for standard Portland. If an earlier application is desired, compressive or tensile strength of the concrete can be tested to determine if an acceptable cure has occurred. (Note: Bond strength of the coating to the concrete surface is generally limited to the tensile strength of the concrete itself. An engineer may require Elcometer pull tests to determine the suitability of concrete for coating.)
- B. Cementitious patching and repair materials should not be used unless their manufacturer provides information as to their suitability and procedures for top coating with an epoxy coating. Project-specific submittals should be provided, including application, cure time, and surface preparation procedures that permit optimum bond strength with the epoxy coating.

- C. Remove existing coatings prior to application of the new protective coating. Applicator is to maintain strict adherence to applicable NACE and SSPC recommendations with regard to proper surface preparation and compatibility with existing coatings.

## 2.2 MANUFACTURER

**Quadex, Inc. Sewer Rehabilitation Products,  
Little Rock, Arkansas  
888-831-1650 or  
501-945-3424 or  
FAX 501-945-3544.**

## 2.3 APPROVED REPAIR MATERIALS

- A. Repair materials shall be used to fill voids, structurally reinforce and/or rebuild substrate surfaces, etc., as determined necessary by the engineer and protective coating applicator. Factory blended, rapid-setting, high early strength, fiber reinforced, non-shrink repair mortar that can be troweled or pneumatically spray applied must be compatible with the specified epoxy coating and shall be applied in accordance with the manufacturer's recommendations.
- B. The following products are accepted and approved as compatible repair basecoat materials for epoxy top coating for use within the specifications:

- 1. Infiltration Control

All fast-setting materials furnished shall be designed to be applied in dry powder form, with no prior mixing of water, directly to active leaks under hydrostatic pressure in manholes or related structures. Materials shall consist of rapid-setting cements, siliceous aggregates, and various accelerating agents. Material shall not contain chlorides, gypsum, or metallic particles. Approved infiltration control material shall be Quadex Hydra-Plug as manufactured by Quadex, Inc., Little Rock, Arkansas.

- 2. Invert Repair and Patching

All material furnished shall be designed to fill large voids in manhole walls and to repair or reconstruct inverts where no hydrostatic pressure exists. Material shall consist of rapid-setting cements, NSG aggregates, and various accelerating agents. Material shall not contain chlorides, gypsum, or metallic particles. Approved invert repair and patching material shall be Quadex Hyperform as manufactured by Quadex, Inc., Little Rock, Arkansas.

- 3. Cementitious Coating (Build Back) Materials for Manhole Walls and Benches

All cementitious coating (build back) materials shall be specifically designed

for the rehabilitation of manholes and other related wastewater structures. Liner materials shall be manufactured from 100% pure calcium aluminate cement and enhanced with high-density, chemically stable aggregates. Materials shall contain poly fiber reinforcement and chemical admixtures. Liner materials shall be mixed with water per the manufacturer's written specifications and applied using equipment specifically designed for low-pressure spray application of cement mortars. **The cement liner material must be at a minimum thickness of 1/2" or as dictated to provide a uniform surface in monolithic application.** Approved material shall be the Quadex Alumina liner as manufactured by Quadex, Inc., Little Rock, Arkansas.

#### 2.4 PROTECTIVE COATING MATERIAL

- A. **Ultra-High Build Epoxy Coating System - 100% solids, solvent-free two-component epoxy resin system, thixotropic in nature and filled with select fillers to minimize permeability and provide sag resistance acceptable to these specifications.**

Product type	Amine-cured epoxy
Solids Content (vol %) 100 Mix Ratio	3:1 ratio;
Compressive Strength	18,000 psi
Tensile Strength, psi	7,600 psi
Tensile Elongation, %	1.53%
Flexural Strength, psi	13,000 psi
Hardness, Shore D	88
Bond Strength - Concrete	Tensile Strength of Concrete

#### 2.5 REPAIR MORTAR SPRAY APPLICATION EQUIPMENT (if spray applied)

- A. Spray-applied repair mortars shall be applied with manufacturer-approved equipment.

#### 2.6 PROTECTIVE COATING APPLICATION EQUIPMENT

- A. Manufacturer-approved heated plural component spray equipment shall be used in the application of the specified protective coating.

## **PART 3 - EXECUTION**

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### **3.1 ACCEPTABLE APPLICATORS**

- A. Repair mortar must be applied by manufacturer-trained and approved applicators. The cementitious mortar shall be applied according to the manufacturer's recommendations.
- B. Protective coating must be applied by a Certified Applicator of the protective coating manufacturer and according to manufacturer's specifications.

### **3.2 EXAMINATION**

- A. All structures to be coated shall be readily accessible to Applicator.
- B. Appropriate actions shall be taken to comply with local, state and federal regulatory and other applicable agencies with regard to the environment, health and safety.
- C. Any active flows shall be dammed, plugged or diverted as required to ensure that the liquid flow is maintained below the surfaces to be coated. Flows should be totally plugged and/or diverted when coating the invert. All extraneous flows into the manhole or vaults at or above the area coated shall be plugged and/or diverted until the epoxy has set hard to the touch. As an option, hot air may be added to the manhole to accelerate set time of the coating. Any plugging of the line will be limited to invert repair and coating. Any plugging will be coordinated with Owner and will be completed no later than 5 PM without exception.
- D. Pump station bypass pumping will be provided by Owner and must be coordinated with Owner's representative at least 24 hours in advance. Bypass pumping must be terminated at the end of the workday, with restoration of the pump station to normal operation.
- E. Installation of the protective coating shall not commence until the concrete substrate has properly cured in accordance with these specifications.
- F. The temperature of the surface to be coated should be maintained between 40 deg F and 120 deg F during application. Prior to and during application, care should be taken to avoid exposure of direct sunlight or other intense heat source to the structure being coated. Where varying surface temperatures do exist, care should be taken to apply the coating when the temperature is falling versus rising (i.e. late afternoon into evening vs. morning into afternoon).

### **3.3 SURFACE PREPARATION**

- A. The applicator shall inspect all surfaces specified to receive a protective coating prior to surface preparation. Applicator shall notify Owner of any noticeable disparity in the surfaces which may interfere with the proper preparation or application of the

repair mortar and protective coating.

- B. All contaminants including oils, grease, incompatible existing coatings, waxes, form release, curing compounds, efflorescence, sealers, salts, or other contaminants shall be removed.
- C. All concrete or mortar that is not sound or has been damaged by chemical exposure shall be removed to a sound concrete surface or replaced.
- D. Surface preparation method(s) should be based upon the conditions of the substrate, service environment and the requirements of the epoxy protective coating to be applied.
- E. Surfaces to receive protective coating shall be cleaned and abraded to produce a sound surface with adequate profile and porosity to provide a strong bond between the protective coating and the substrate. At a minimum, this will be achieved with high-pressure water cleaning equipment using a 0 degree rotating nozzle at 5,000 psi and 4 gpm. Other methods such as high- pressure water jetting (refer to NACE Standard No. 5/SSPC-SP12), abrasive blasting, shotblasting, grinding, scarifying and/or acid etching may also be used. In addition, detergent water cleaning and hot water blasting may be necessary to remove oils, grease, or other hydrocarbon residues from the concrete. The method(s) used shall be performed in a manner that provides a uniform, sound clean, neutralized surface that is not excessively damaged.
- F. Infiltration shall be stopped by using a material which is compatible with the specified repair mortar and is suitable for top coating with the specified epoxy protective coating.
- G. Test prepared surfaces after cleaning but prior to application of the epoxy coating to determine if a specific pH or moisture content of the concrete is required according to manufacturer's recommendations.

#### 3.4 APPLICATION OF REPAIR MATERIALS

- A. Areas where structural steel has been exposed or removed shall be repaired in accordance with the Owner's recommendations.
- B. Repair materials shall meet the specifications herein. The materials shall be trowel or spray applied utilizing proper equipment on to specified surfaces. The material thickness shall be decided by the Owner's requirements and manufacturer's recommendations.
- C. If using approved cementitious repair materials, such shall be troweled to provide a smooth surface with an average profile equivalent to coarse sandpaper to optimally receive the protective coating. No bug holes or honeycomb surfaces should remain after the final trowel procedure of the repair mortar.
- D. The repair materials shall be permitted to cure according to manufacturer



recommendations. Curing compounds should not be used unless approved for compatibility with the specified protective coating.

- E. Application of the repair materials, if not performed by the coating certified applicator, should be inspected by the protective coating certified applicator to ensure proper finishing for suitability to receive the specified coating.
- F. After abrasive blast and leak repair is performed, all surfaces shall be inspected for remaining laitance prior to protective coating application. Any evidence of remaining contamination or laitance shall be removed by additional abrasive blast, shotblast or other approved methods. If repair materials are used, refer to these specifications for surface preparation. Areas to be coated must also be prepared in accordance with these specifications after receiving a cementitious repair mortar and prior to application of the epoxy coating.

### 3.5 APPLICATION OF PROTECTIVE COATING

- A. Application procedures shall conform to the recommendations of the protective coating manufacturer, including material handling, mixing, environmental controls during application, safety, and spray equipment.
- B. The spray equipment shall be specifically designed to accurately ratio and apply the specified protective coating materials and shall be regularly maintained and in proper working order.
- C. The protective coating material must be spray applied by a Certified Applicator of the protective coating manufacturer.
- D. Specified surfaces shall be coated by spray application of a moisture tolerant, solvent-free, 100% solids, epoxy protective coating as specified by the LA County (Redner) test for sewer applications, or to the manufacturer's recommended application rate for product being applied to meet the standards above but not less than an average dry film thickness of 120 mils.
- E. Airless spray application equipment approved by the coating manufacturer shall be used to apply each coat of the protective coating as specified by LA County Sanitation District Redner Report.
- F. If necessary, subsequent top coating or additional coats of the protective coating should occur as soon as the basecoat becomes tack free, ideally within 12 hours but no later than the recoat window for the specified products. Additional surface preparation procedures will be required if this recoat window is exceeded.

### 3.6 TESTING AND INSPECTION

- A. During application a wet film thickness gage, such as those available through Paul N. Gardner Company, Inc. meeting ASTM D4414 - Standard Practice for Measurement of

Wet Film Thickness of Organic Coatings by Notched Gages, shall be used to ensure a monolithic coating and uniform thickness during application.

- B. After the protective coating has been set hard to the touch it shall be inspected with high-voltage holiday detection equipment. The spark tester shall be initially set at 100 volts per 1 mil (25 microns) of film thickness applied. All detected holidays shall be marked and repaired by abrading the coating surface with a minimum of 60 grit sandpaper or other hand tooling method. After abrading and cleaning, additional protective coating material can be hand applied to the repair area. All touch-up/repair procedures shall follow the protective coating manufacturer's recommendations.
- C. A final visual inspection shall be made by the Inspector and the manufacturer's representative. Any deficiencies in the finished coating shall be marked and repaired according to the procedures set forth herein by the Applicator.

# BID FORM

Georgetown County Water & Sewer District

BID TITLE: **MANHOLE AND WETWELL REHABILITATION PROJECT**

DATE BID OPENING: September 25, 2025

TIME: 3 : 0 0 P M

LOCATION: **GCWSD PAWLEYS ISLAND ADMINISTRATION BUILDING; 456 CLEARWATER DR.**

The Georgetown County Water and Sewer District (District) reserves the right to ***accept, reject, or award*** any or all bids or ***any portion*** thereof, to waive technicalities, and to award the contract as deemed to best serve the public interest. The bidder may bid on the Wet Well and/or Manhole project. The District will award to the low, responsive, responsible bidder for the Wet Well and/or Manhole project.

Include All State and Federal Taxes as Applicable.

Pursuant to and in accordance with the Invitation to Bid, General Information for Bidders, and specifications relating thereto, the undersigned hereby offers to furnish all materials, labor, equipment, tools supplies and other facilities and means necessary or proper for the rehabilitation of masonry manholes, as described in the specifications, and in the repair sequence as referenced in the specifications and indicated below, for the price entered below:

ITEM	APPROXIMATE LOCATION	DEPTH	PRICE
<b>WET WELLS</b>			
PS 314	HUNTINGTON STATE PARK	16'	
PS 285	JASON DR 8' DIAMETER	22'	
PS 211	FINWICK & BAREFOOT LOOP 6' DIAMETER	20'	
PS 241	11039 OCEAN HWY 6' DIAMETER	19' 6"	
PS 270	Tradition and Kings River. 11'x11'	28'	

Item:	Description:	Total Lump Sum:
1.	Repairs and Rehab of Wet Wells per bid specifications:	

<b>MANHOLES</b>			
3916	DUNBAR RD. & JOBIE CLASSROOM DR.	10'	
3984	2385 DUNBAR RD (ACROSS STREET)	4'	
3986	DUNBAR RD. CLOSE TO 2391	4.5'	
3993	179 DUNBAR RD (ACROSS STREET)	4'	
4017	JULIAN CT	4'8"	
4024	2478 DUNBAR RD	12'	
4025	2503 DUNBAR RD (ACROSS STREET)	11'9"	

4026	DUNBAR RD AND HANDY HILL	11'9"	
4027	DUNBAR RD (ACROSS FROM SILAS RD)	13'	
4028	DUNBAR RD.	11'7	
4029	DUNBAR RD (ACROSS FROM GILES RD)	9'	
4031	2674 DUNBAR RD	10'2"	
4032	DUNBAR RD (ACROSS FROM ZEB FORD)	11'	
4034	DUNBAR RD	9'9"	
4035	2903 DUNBAR RD	10'	
4036	3004 DUNBAR RD	6'	
4057	ZEB FORD DR (BESIDE 2701 DUNBAR)	11'	
4058	57 ZEB FORD DR	11'	
4059	87 ZEB FORD DR	7'	
4063	ZEB FORD DR	5'4"	
4064	END OF ZEB FORD DR	6'	
4076	BELTON LP & DUNBAR	4'	
4077	DUNBAR RD ( END OF BELTON LP)	1'10"	
4290	270 N BOYLE DR ( ACROSS STREET)	6'	
4291	N BOYLE DR. & STARBORD	8'	
4292	198 BOYLE DR (ACROSS STREET)	8'	
5896	3195 DUNBAR RD	3'	
3987	DUNBAR RD & KISHA	4'	
4018	JULIAN CT (PS 179 CONTROL MH)	12'	

Item:	Description:	Total Lump Sum:
2.	Repairs and Rehab of Manholes per bid specifications:	

Company:\_\_\_\_\_

Phone:\_\_\_\_\_

Address:\_\_\_\_\_

Fax:\_\_\_\_\_

\_\_\_\_\_

Email:\_\_\_\_\_

Submitted By (signature):\_\_\_\_\_

Signed By (print/type):\_\_\_\_\_

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

Dated:\_\_\_\_\_

# REFERENCES

## *Georgetown County Water & Sewer District*

List below at least five (5) references for similar projects, including all information requested. THIS PAGE MUST BE COMPLETED. If Bidders wish to keep their references confidential, this page may be removed from the bid package and submitted with the bid in a separate sealed envelope marked "REFERENCES – CONFIDENTIAL". The District is not responsible for maintaining the confidentiality of the references unless this procedure is followed.

1) Client

Project Address

Approximate \$ Value \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_

2) Client

Project Address

Approximate \$ Value \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_

3) Client

Project Address

Approximate \$ Value \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_

4) Client

Project Address

Approximate \$ Value \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_

5) Client

Project Address

Approximate \$ Value \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_

\_\_\_\_\_  
Company

\_\_\_\_\_  
Bid Title