

ITQ NO. 21-R076969SP
COMPOSITE MANHOLE
FRAMES AND COVER
ASSEMBLIES
JULY 21, 2021

Manatee County BCC
Procurement Division
1112 Manatee Avenue West, Suite 803
Bradenton, FL 34205
purchasing@mymanatee.org



**NOTICE TO BIDDERS, ITQ NO. 21-R076969SP
COMPOSITE MANHOLE FRAMES AND COVER ASSEMBLIES**

Manatee County, a political subdivision of the State of Florida (County), will receive Quotes from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida (Bidders), to provide composite manhole frames and cover assemblies, as specified in this Invitation to Quote (ITQ).

DATE, TIME AND PLACE DUE:

The Due Date and Time for submission of Quotes in response to this ITQ is **August 11, 2021 at 3:00 P.M. ET.** Quotes must be delivered to the following location: Manatee County Administration Building, Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205 or emailed to Designated Procurement Contact shown below.

SOLICITATION INFORMATION CONFERENCE:

There will not be an Information Conference conducted for this solicitation.

QUESTIONS AND CLARIFICATION REQUESTS:

Submit all questions, inquiries, or requests concerning interpretation, clarification or additional information pertaining to this ITQ to the Manatee County Procurement Division by August 1, 2021. Questions and inquiries should be submitted via email to the Designated Procurement Contact shown below.

Important: A prohibition of lobbying is in place. Review Section 8.13 carefully to avoid violation and possible sanctions.

DESIGNATED PROCUREMENT CONTACT:

Shawn Page, Procurement Agent
(941) 748-4501, Ext. 3074, Fax (941) 749-3034
Email: shawn.page@mymanatee.org
Manatee County Financial Management Department
Procurement Division

AUTHORIZED FOR RELEASE:

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1.0 Background and Contact Information

The County issues this ITQ for composite manhole frames and cover assemblies. Companies and/or individuals that are qualified to provide the required goods/services (Bidders) are invited to submit a response (Quote) to this ITQ.

1.01 Background

The County's Utilities Department is seeking composite manhole frames and cover assemblies for the replacement of existing metal manhole frames and cover assemblies at various locations on Anna Maria Island. The County prefers composite frames and covers because they can be sealed with locking screws and will not allow for infiltration during storms, rain events, and high tides on the island.

1.02 Contact Information

The County representative regarding this ITQ is:

- **Shawn Page, Procurement Agent**
- **shawn.page@mymanatee.org**
- **(941)748-4501, Ext. 3074**

2.0 Due Diligence

The County will conduct a due diligence review of all Quotes received to determine if the Bidder is responsible and responsive. To be responsive a Bidder must submit a Quote that conforms in all material respects to the requirements of this ITQ and contains all the information, fully completed attachments and forms, and other documentation required. Quotes that are deemed non-responsive will not be considered or evaluated.

To be responsible, a Bidder must meet the minimum qualification requirements as stated in Exhibit 2, Minimum Qualifications, and have the capability to perform the Scope of Work contained in this ITQ. Quotes submitted by Bidders that are deemed non-responsive will not be considered or evaluated. Bidder must submit the information and documentation requested in Exhibit 2, Minimum Qualifications, that confirms it meets the minimum qualification requirements as stated in Exhibit 2, Minimum Qualifications.

3.0 Scope

The successful Bidder shall furnish all equipment, labor, materials, supplies, licensing, transportation, and other components necessary to provide composite manhole frames and cover assemblies that meets the requirements of the County and as specified in Exhibit 1, Scope of Work.

4.0 ITQ Schedule

<u>Scheduled Item</u>	<u>Scheduled Date</u>
Solicitation Information Conference	N/A
Question and Clarification Deadline	August 1, 2021
Final Addendum Posted	August 4, 2021
Offer Response Due Date and Time	August 11, 2021 at 3:00 P.M.
Projected Award	August of 2021

5.0 Quote and Submission Process

5.01 Quote

Complete the Quote Form that details all costs associated with providing composite manhole frames and cover assemblies as specified herein.

5.02 Submission Process

Submit the Quote by the Quote Deadline stated above to the Procurement Division representative assigned to this solicitation via email at shawn.page@mymanatee.org or deliver to the Manatee County Administration Building, Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.

6.0 Term / Payment and Invoices

6.01 Term

The term of the Agreement shall be for a period of three (3) years with two (2) optional one-year renewal periods.

6.02 Terms and Conditions

Blanket Purchase Order Agreement will be issued to the Successful Bidder and will incorporate the Terms and Conditions of this ITQ, Successful Bidder's Quote and any subsequent information requested from the Successful Bidder by the County. Should a conflict exist between the terms and conditions of this ITQ and the Blanket Purchase Order Agreement terms and conditions, the terms and conditions in the Blanket Purchase Order Agreement shall prevail.

6.03 Payment and Invoices

Payment will be made in accordance with Florida State Statutes and with a payment schedule approved by the County and the Successful Bidder. Invoices required by this ITQ will be to the County in a manner accepted by the County and will include at a minimum the invoice date, invoice amount, date, goods provided/services performed, and purchase order number.

6.04 Taxes

All taxes of any kind and character payable for the work done and materials furnished under the Purchase Order will be paid by the Successful Bidder. The laws of the State of Florida provide that sales tax and use taxes are payable by the Successful Bidder upon the tangible personal property incorporated in the work and such taxes will be paid by the Successful Bidder. County is exempt from all State sales taxes.

7.0 Quote Requirements

7.01 ITQ Process

This ITQ will in no manner be construed as a commitment on the part of the County to award a Purchase Order. The County reserves the right to postpone or cancel this

ITQ process; to negotiate, select or procure parts of services; to change or modify the ITQ schedule at any time; to award a Purchase Order to another Bidder if the Successful Bidder does not agree to the terms and conditions of this Purchase Order or if the Successful Bidder's performance does not meet the requirements in this ITQ; and to award a Purchase Order based to the lowest responsible, responsive Bidder. The County reserves the right to recover damages from any Successful Bidder that does not perform after the award of such Purchase Order.

7.02 Rejection of Quotes

Quotes containing any omission, alterations of form, additions or conditions not requested, conditional or alternate Quotes, incomplete Quotes, will be considered irregular and may be rejected. The County reserves the right to waive any technicalities and formalities in this ITQ process or in the Quotes thereto and make the award in the best interest of the County. The County may, at its discretion, reject any or all Quotes.

7.03 Cost of Preparation

All costs associated with preparing and delivering the Quote will be borne entirely by the Bidder. The County will not compensate the Bidder for any expenses incurred by the Bidder as a result of this ITQ process.

7.04 Questions and Addenda

All questions concerning this ITQ must be submitted in writing to the Procurement Division prior to the Question Deadline as stated in the ITQ Schedule. It is the responsibility of the Bidder to verify the County received its question or inquiry concerning this ITQ. All questions and answers will be provided to each potential Bidder in the form of an addendum posted on the Procurement webpage of the County website.

7.05 Additional Information and Presentations

The County reserves the right to request additional information, if applicable, from select Bidders based on the needs of the County.

7.06 Government Entities

The County reserves the right to utilize applicable State of Florida contracts or other approved cooperative contracts for any items or services covered by this ITQ when it is in the best interest of the County.

Successful Bidder agrees to make available to all governmental agencies, authorities, departments, and municipalities the Quote prices submitted with the successful Quote should any governmental agency, authority, department, and municipality (collectively referred to as Public Entities) desire to buy under the Successful Quote.

The County will not be responsible for any transactions between the successful Bidder and Public Entities that may elect to utilize the successful Quote. All terms,

prices and conditions of the successful Quote will apply between the Successful Bidder and Public Entities utilizing the successful Quote. As a condition of using the successful Quote, the Public Entity and Successful Bidder shall hold the County harmless from any claims or lawsuits that may arise. NOTE: Any quantities estimated in this ITQ are for the County requirements only.

7.07 Basis of Award

Award(s) will be made to the responsive, responsible Bidder having the lowest Quote. The County, at its sole discretion, may make multiple awards based upon groups, price, or other such criteria. When there is a discrepancy between the unit prices and any extended prices submitted by Bidder, the unit prices will prevail.

7.08 Tie Bids

Whenever the lowest Quote is submitted by two or more responsive, responsible Bidders and are equal with respect to price, quality, and/or service award of the Agreement shall be determined as follows:

- A. The Quote received from a local business, as defined below, shall be awarded the Agreement.
- B. If none or all of the equal Bidders are a local business, the award shall be determined in accordance with Florida Statute 287.07, Preference to businesses with drug-free workplace programs.
- C. If none or all of the equal Bidders have a drug-free workplace program, the award shall be determined by a chance drawing to be conducted by the Procurement Official in a publicly noticed meeting.

Local business is defined as a business legally authorized to engage in the sale of goods and/or services which, for at least six months prior to the announcement of the solicitation for quotes, has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas, or Sarasota County, and which has had at least one full-time employee at that location during the qualifying period.

8.0 ITQ General Terms and Conditions

8.01 Binding Offer

A Bidder's Quote will remain valid for a period of 60 days following the Quote Deadline and will be considered a binding offer to perform the required services and/or provide the required goods. The submission of a Quote will be taken as prima facie evidence that the Bidder has familiarized itself with the contents of this ITQ.

8.02 Insurance Requirements

Successful Bidder must maintain the insurance limits and coverages, as identified in Section 9.0, uninterrupted or amended through the term of the

Agreement/Purchase Order. In the event the Successful Bidder becomes in default of the insurance requirements the County reserves the right to take whatever actions deemed necessary to protect its interests. Required liability policies other than Workers' Compensation/Employer's Liability and Professional Liability, will provide that the County, members of the County's governing body, and the County officers, volunteers and employees are included as additional insured.

8.03 Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a Quote on a contract to provide any goods or services to a public entity; may not submit a Quote on a contract with a public entity for the construction or repair of a public building or public work; may not submit a Quote on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

8.04 Drug-Free Workplace Program Certification

In accordance with Section 287.087, Florida Statutes, whenever two or more Quotes are equal, preference will be given to the Quote received from a business that certifies it has implemented a drug-free workplace program, as detailed in Section 7.08. Bidder must complete and return Attachment E, Drug-Free Workplace Certification, with its Quote.

8.05 Convicted Vendor List

A Bidder cannot be listed on the Florida Department of Management Services, Convicted Vendor List, as defined in Section 287.133(3) (d), Florida Statutes. (www.dms.myflorida.com)

8.06 Collusion

More than one Quote from the same Bidder under the same or different names will not be considered. Joint Quotes will not be accepted. Reasonable grounds for believing that a Bidder is submitting more than one Quote will cause the rejection of all Quotes in which the Bidder is involved. Quotes will be rejected if there is reason for believing that collusion exists among Bidders and no participant in such collusion will be considered in any future solicitations for a period of six months following the Quote Deadline for this ITQ.

8.07 Public Disclosure

All documents and other materials or documents submitted by a Bidder in response to this ITQ will become the property of the County. The County is subject to the open records requirements of Florida State Statute Chapter 119, and as such, all materials submitted by the Bidder to the County are subject to public disclosure.

The Bidder specifically waives any claims against the County related to the disclosure of any materials if made under a public records request.

8.08 Procurement Protest Policy

Failure to follow the procurement protest policy set out in the County policies constitutes a waiver of the Bidder's protest and resulting claims. A copy of the procurement protest policy may be obtained on the Procurement webpage of the County website www.mymanatee.org.

8.09 Disclosure

Upon receipt, all inquiries and responses to inquiries related to this ITQ become "Public Records" and shall be subject to public disclosure consistent with Florida Statute, Chapter 119.

Quotes become subject to disclosure thirty (30) days after the opening or if a notice of intent to award decision is made earlier than this time as provided by Florida Statutes § 119.071(1)(b). No announcement or review of the Quotes shall be conducted at the public opening.

If County rejects all Quotes and concurrently notices its intent to reissue the solicitation, the rejected Quotes are exempt from public disclosure until such time the County provides notice of an intended decision concerning the reissued solicitation or until County withdraws the reissued solicitation. A Quote is not exempt for longer than twelve (12) months after the initial notice of rejection of all Quotes.

Pursuant to Florida Statute 119.0701, to the extent Successful Bidder is performing services on behalf of County, Successful Bidder must:

- A. Keep and maintain public records required by public agency to perform the service. That information and data it manages as part of the services may be public record in accordance with Chapter 119, Florida Statutes and Manatee County public record policies. Bidder agrees, prior to providing goods/services, it will implement policies and procedures, which are subject to approval by County, to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies including but not limited to Section 119.0701, Florida Statutes.
- B. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Florida Statutes, Chapter 119, or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized

by law for the duration of the contract term and following completion of the contract if the Successful Bidder does not transfer the records to the public agency.

- D. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of contractor or keep and maintain public records required by the public agency to perform the service. If the Successful Bidder transfers all public records to County upon completion of the contract, the Successful Bidder shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Successful Bidder keeps and maintains public records upon completion of the contract, the Successful Bidder shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to County, upon request from County's custodian of public records, in a format that is compatible with the information technology systems of County.

IF THE SUCCESSFUL BIDDER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO ANY RESULTING CONTRACT, CONTACT COUNTY'S CUSTODIAN OF PUBLIC RECORDS AT: (941) 742-5845, DEBBIE.SCACCIANOCE@MYMANATEE.ORG, ATTN: RECORDS MANAGER, 1112 MANATEE AVENUE WEST, BRADENTON, FL 34205.

8.10 Trade Secrets

Manatee County is subject to Chapter 119, Florida Statutes. Therefore, all documents, materials, and data submitted as part of a Quote in response to an ITQ are governed by the disclosure, exemption and confidentiality provisions relating to public records in Florida Statutes.

Except for materials that are 'trade secrets' as defined by Chapter 812, Florida Statutes, ownership of all documents, materials and data submitted as part of a Quote in response to the ITQ shall belong exclusively to County.

To the extent that Bidder desires to maintain the confidentiality of materials that constitute trade secrets pursuant to Florida law, trade secret material submitted must be segregated from the portions of the Quote that are not declared as trade secret. In addition, Bidder shall cite, for each trade secret claimed, the Florida Statute number which supports the designation. Further, Bidder shall offer a brief written explanation as to why the cited Statute is applicable to the information claimed as trade secret. Additionally, Bidder shall provide a hard copy of its Quote that redacts all information designated as trade secret.

In conjunction with trade secret designation, Bidder acknowledges and agrees that:

- A. Trade secret requests made after the opening will not be considered. However, County reserves the right to clarify the Bidders request for trade secret at any time; and
- B. County and its officials, employees, agents, and representatives are hereby granted full rights to access, view, consider, and discuss the information designated as trade secret throughout the evaluation process and until final execution of any awarded purchase order or contract; and
- C. That after notice from County that a public records request has been made pursuant to Bidder's Quote, the Bidder at its sole expense, shall be responsible for defending its determination that submitted material is a trade secret and is not subject to disclosure. Action by Bidder in response to notice from the County shall be taken immediately, but no later than 10 calendar days from the date of notification or Bidder will be deemed to have waived the trade secret designation of the materials.

Notwithstanding any other provision in this solicitation, designation of the entire Quote as 'trade secret', 'proprietary', or 'confidential' is not permitted and may result in a determination that the Quote is non-responsive.

8.11 Confidentiality of Security Related Records

- A. Pursuant to Florida Statutes § 119.071(3), the following records (hereinafter referred to collectively as "the Confidential Security Records") are confidential and exempt from the disclosure requirements of Florida Statutes § 119.07(1):
 - i. A Security System Plan or portion thereof for any property owned by or leased to County or any privately owned or leased property held by County.
 - ii. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of a building, arena, stadium, water treatment facility, or other structure owned or operated by County.
 - iii. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout or structural elements of an attractions and recreation facility, entertainment or resort complex, industrial complex, retail and service development, office development, or hotel or motel development in the possession of, submitted to County.
- B. Successful Bidder agrees that, as provided by Florida Statute, it shall not, as a result of a public records request, or for other reason disclose the contents of, or release or provide copies of the Confidential Security Records to any other party absent the express written authorization of County's Property

Management Director or to comply with a court order requiring such release or disclosure. To the extent Successful Bidder receives a request for such records, it shall immediately contact the County's designated Contract administrator who shall coordinate County's response to the request.

8.12 E-Verify

Prior to the employment of any person under this contract, the Successful Bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the Successful Bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the Successful Bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

Only those individuals determined eligible to work in the United States shall be employed under this contract.

By submission of a Quote in response to this ITQ, the successful Bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. For the life of the contract, all employees and new employees brought in after contract award shall be verified under the same requirement stated above.

8.13 Lobbying

After the issuance of any solicitation, no prospective Bidders, or their agents, representatives or persons acting at the request of such Bidders, shall contact, communicate with or discuss any matter relating in any way to the solicitation with any County officers, agents or employees, other than the Procurement Official or designee, unless otherwise directed by the Procurement Official or designee. This prohibition includes copying such persons on written communications (including email correspondence) but does not apply to presentations made to evaluation committees or at a County Commission meeting where the Commission is considering approval of a proposed contract/purchase order. This requirement ends upon final execution of the contract/purchase order or at the time the solicitation is cancelled. Violators of this prohibition will be subject to sanctions as provided in the Manatee County Code of Ordinances Section 2-26-31 and 2-26-32. Sanctions may include (a) written warning; (b) termination of contracts; and (c) debarment or suspension.

8.14 License and Permits

The successful Bidder shall be solely responsible for obtaining all necessary license and permit fees, including, but not limited to, all license fees, permit fees, impact

fees, or inspection fees, and responsible for the costs of such fees. Successful Bidder is solely responsible for ensuring all work complies with all Federal, State, local, and Manatee County ordinances, orders, codes, laws, rules, regulations, directives, and guidelines.

8.15 Health Insurance Portability and Accountability Act (HIPAA)

Any person or entity that performs or assists the County with a function or activity involving the use or disclosure of “individually identifiable health information (IIHI) and/or Protected Health Information (PHI) shall comply with the Health Insurance Portability and Accountability Act (HIPAA) of 1996. HIPAA mandates for privacy, security, and electronic transfer standards include, but are not limited to:

- A. Use of information only for performing services required by the contract or as required by law;
- B. Use of appropriate safeguards to prevent non-permitted disclosures;
- C. Reporting to the County any non-permitted use or disclosure;
- D. Assurances that any agents and subcontractors agree to the same restrictions and conditions that apply to the Bidder and reasonable assurances that IIHI/PHI will be held confidential;
- E. Making PHI available to the customer;
- F. Making PHI available to the customer for review and amendment, and incorporating any amendments requested by the customer;
- G. Making PHI available to the County for an accounting of disclosures; and
- H. Making internal practices, books, and records related to PHI available to the County for compliance audits.

PHI shall maintain its protected status regardless of the form and method of transmission (paper records and/or electronic transfer of data). The selected Bidder must give its customers written notice of its privacy information practices, including specifically, a description of the types of uses and disclosures that would be made with protected health information.

8.16 Minority and/or Disadvantaged Business Enterprise

The State of Florida Office of Supplier Diversity provides the certification process and maintains the database of certified MBE/DBE firms. Additional information may be obtained at <http://www.osd.dms.state.fl.us/iframe.htm> or by calling (850) 487-0915.

8.17 Quantities

The estimated quantities in this ITQ are provided for tabulation and evaluation purposes only. No guarantee is expressed or implied as to the quantities or dollars that will be used during the Agreement period.

8.18 ePayables

The County offers an ePayables program which allows payments to be made to suppliers via credit cards. If this payment option is selected by the successful Bidder, the Clerk will issue a unique credit card number to the successful Bidder. The card has a zero balance until payments have been authorized. After goods are delivered and/or services rendered, the successful Bidder must submit a proper invoice to the County. When the invoice payment is authorized, an email notification is sent to the successful Bidder notifying them of the amount that has been placed on the credit card for retrieval.

There is no cost by the County for participation in this program, however, there may be charges applied by the successful Bidder's credit card processing company. Bidders who are interested in this program may contact the County Clerk's Accounts Payable office.

9.0 Insurances

Work under the resulting Agreement cannot commence until all insurance coverages indicated herein have been obtained. The cost for insurance coverages is the sole responsibility of successful Bidder. The Successful Bidder shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, proof the following minimum amounts of insurance on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

REQUIRED INSURANCES

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests' provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests' provisions.

Employer's Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker's Compensation Insurance

US Longshoremen & Harbor Workers Act

Jones Act Coverage

Coverage limits of not less than:

- Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act

Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements. NOTE: Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

OTHER INSURANCES

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence or a 'smooth' limit
- \$ General Aggregate

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances

Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government. All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, SUPPLIER shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate

Hazardous Waste Transportation Insurance

SUPPLIER shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- 1,000,000 Each Occurrence and Aggregate

Garage Keeper’s Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract. Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage

Bailee’s Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization’s premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the County asset(s) in the

SUPPLIER'S care, custody and control

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

Other [Specify]

INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

- A. **"Manatee County, a Political Subdivision of the State of Florida," is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the SUPPLIER, his agents, representatives, and employees; products and completed operations of the SUPPLIER; or automobiles owned, leased, hired or borrowed by the SUPPLIER. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers. In addition to furnishing a Certificate of Insurance, the SUPPLIER shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists "Manatee County, a Political Subdivision of the State of Florida," as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.
- B. The SUPPLIER'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of SUPPLIER'S insurance and shall be non-contributory.
- C. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the SUPPLIER for the COUNTY.

General Insurance Provisions Applicable to All Policies

- A. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, SUPPLIER shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming "Manatee County, a Political Subdivision of the State of Florida" as an Additional Insured on the applicable coverage(s) set forth above.

- B. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance. In addition, when requested in writing from the COUNTY, SUPPLIER will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205

- C. The project's solicitation number and title shall be listed on each certificate.

- D. SUPPLIER shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.

- E. SUPPLIER agrees that should at any time SUPPLIER fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.

- F. The SUPPLIER waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.

- G. The SUPPLIER has sole responsibility for all insurance premiums and policy deductibles.

- H. It is the SUPPLIER'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. SUPPLIER shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or SUPPLIER shall furnish separate certificates and endorsements for each agent, representative, and subcontractor

working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.

- I. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the SUPPLIER'S deductible or self-insured retention and to require that it be reduced or eliminated.
- J. SUPPLIER understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of SUPPLIER'S obligation to provide and maintain the insurance coverage specified.
- K. SUPPLIER understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
- L. No award shall be made until the Procurement Division has received the Certificate of Insurance in accordance with this section.

[Remainder of page intentionally left blank]

ATTACHMENTS

Bidder must complete and return all Attachments with its Quote.

ATTACHMENT A, ACKNOWLEDGMENT OF ADDENDA

The undersigned acknowledges receipt of the following addenda:

Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:

Print or type Bidder’s information below:

_____	_____
Name of Bidder	Telephone Number
_____	_____
Street Address	City/State/Zip
_____	_____
Email Address	Website Address
_____	_____
Print Name & Title of Authorized Officer	Signature of Authorized Official & Date

ATTACHMENT B, BIDDER’S SIGNATURE FORM

The undersigned represents that:

- (1) By signing the bid, that he/she has the authority and approval of the legal entity purporting to submit the bid and any additional documentation which may be required such as the Joint Venture Agreement or Joint Venture Affidavit, if applicable;
- (2) All facts and responses set forth in the bid are true and correct;
- (3) By submitting a bid and signing below, the Bidder agrees to all terms and conditions in this ITQ, which incorporates all addenda, appendices, exhibits, and attachments, in its entirety, and is prepared to sign the Contract as written. The Respondent understands that if it submits exceptions to the Contract in its Response, the Respondent’s Response may be determined non-responsive; and
- (4) The Bidder, which includes all companies included in a partnership or joint venture, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Print or type Bidder’s information below:

Signature of Authorized Official / Date: _____

Printed Name of Authorized Signer: _____

Title of Authorized Signer: _____

Name of Bidder: _____

Street Address: _____

City, State, Zip: _____

Email Address: _____

Telephone: _____

Website URL: _____

**ATTACHMENT C, PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES
CERTIFICATION**

SWORN STATEMENT PURSUANT TO SECTION 2-26 ARTICLE V, MANATEE COUNTY
PROCUREMENT CODE

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY
PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to Manatee County by _____
[print individual's name and title]

For _____
[name of entity submitting sworn statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is _____.

If the entity has no FEIN, include the Social Security Number of the individual signing this sworn
statement:

I understand that no person or entity shall be awarded or receive a county contract for public
improvements, procurement of goods or services (including professional services) or a county
lease, franchise, concession or management agreement, or shall receive a grant of county
monies unless such person or entity has submitted a written certification to County that it has
not:

- (1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee
County, the State of Florida, or any other public entity, including, but not limited to the
Government of the United States, any state, or any local government authority in the United
States, in that officer's or employee's official capacity; or
- (2) been convicted of an agreement or collusion among Bidders or prospective Bidders in
restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or
- (3) been convicted of a violation of an environmental law that, in the sole opinion of the
County's Purchasing Director, reflects negatively upon the ability of the person or entity to
conduct business in a responsible manner; or
- (4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which
is a matter of record, but has not been prosecuted for such conduct, or has made an admission
of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An
admission of guilt shall be construed to include a plea of nolo contendere; or
- (5) where an officer, official, agent or employee of a business entity has been convicted of or
has admitted guilt to any of the crimes set forth above on behalf of such and entity and pursuant
to the direction or authorization of an official thereof (including the person committing the
offense, if he is an official of the business entity), the business shall be chargeable with the
conduct herein above set forth. A business entity shall be chargeable with the conduct of an
affiliated entity, whether wholly owned, partially owned, or one which has common ownership
or a common Board of Directors.

For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests amount family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction, shall prove the same with documentation satisfactory to Manatee County's Purchasing Official. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with Manatee County.

I UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE PROCUREMENT DIVISION OR THE COUNTY ADMINISTRATOR DETERMINES THAT SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.

[Signature of Bidder's Authorized Official]

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 20 ____

By _____ who is

Personally known OR Produced identification

Type of identification] _____

Notary Public Signature: _____

My commission expires: _____

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

ATTACHMENT D, INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the insurance requirements applicable to any contract resulting from this solicitation and shall provide the insurances required by this Attachment within ten (10) days from the date of Notice of Intent to Award.

Bidder Name: _____ Date: _____

Signature (Authorized Official):

Printed Name/Title:

Insurance Agency:

Agent Name: _____ Agent Phone: _____

ATTACHMENT E, DRUG-FREE WORKPLACE CERTIFICATION

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by

[print individual's name and title]

for _____

[print name of entity submitting sworn statement] whose business address is:

and (if applicable) its Federal Employer Identification Number (FEIN) is: _____.

If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it will provide a drug free work place by:

(1) providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined by § 893.02(4), Florida Statutes, as the same may be amended from time to time, in the person's or entity's work place is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:

- (i) the dangers of drug abuse in the work place;
- (ii) the person's or entity's policy of maintaining a drug free environment at all its work places, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;
- (iii) any available drug counseling, rehabilitation, and employee assistance programs; and
- (iv) the penalties that may be imposed upon employees for drug abuse violations.

(2) Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its work places a written statement of its policy containing the foregoing elements (i) through (iv).

(3) Notifying the employee in the statement required by subsection (1) that as a condition of employment the employee will:

- (i) abide by the terms of the statement; and
- (ii) notify the employer of any criminal drug statute conviction for a violation occurring in the work place no later than five (5) days after such a conviction.

(4) Notifying the County within ten (10) days after receiving notice under subsection (3) from an employee or otherwise receiving actual notice of such conviction.

(5) Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(6) Making a good faith effort to continue to maintain a drug free work place through implementation of sections (1) through (5) stated above.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT:

- (1) Such person or entity has made false certification.
- (2) Such person or entity violates such certification by failing to carry out the requirements of sections (1), (2), (3), (4), (5), or (6) or subsection 3-101(7)(B); or
- (3) Such a number of employees of such person or entity have been convicted of violations occurring in the work place as to indicate that such person or entity has failed to make a good faith effort to provide a drug free work place as required by subsection 3-101(7)(B).

[Signature]

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 20____ by
_____.

Personally known _____ OR Produced identification _____
[Type of identification]

My commission expires _____

Notary Public Signature

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

ATTACHMENT F, QUOTE FORM

Line Item No.	Description	Estimated Quantity	Unit of Measure	Unit Price	Extended Price (Unit Price X Estimated Quantity)
1	Composite Manhole Frames per Exhibit 1, Scope of Services (Delivery/Shipping Shall be Included with Unit Price)	200	Each	\$ _____	\$ _____
2	Composite Cover Assemblies per Exhibit 1, Scope of Services (Delivery/Shipping Shall be Included with Unit Price)	200	Each	\$ _____	\$ _____

Bidder's Company Name: _____

Authorized Signature: _____

Name and Title: _____

Date: _____

EXHIBITS

EXHIBIT 1, SCOPE OF SERVICES

1.01 BACKGROUND INFORMATION

The County's Utilities Department is seeking composite manhole frames and cover assemblies for the replacement of existing metal manhole frames and cover assemblies at various locations on Anna Maria Island. The County prefers composite frames and covers because they can be sealed with locking screws and will not allow for infiltration during storms, rain events, and high tides on the island.

The intent of this ITQ is for the County to establish an Agreement with a qualified Supplier for the provision of composite manhole frames and cover assemblies on an as-needed basis. The Agreement resulting from the County's acceptance of a Quote will be made by issuing a zero-dollar Blanket Purchase Order to the Supplier. The County will place orders with the Supplier, on an as-needed basis, via Release Orders issued against the Blanket Purchase Order. The County reserves the right to award multiple Bidders.

1.02 SCOPE

The Successful Bidder ("Supplier") shall furnish all equipment, labor, materials, supplies, licensing, transportation, and other components necessary to supply and deliver composite manhole frames and cover assemblies that will meet the requirements of the Agreement.

1.03 SUPPLIER'S REQUIREMENTS AND RESPONSIBILITIES

The Supplier shall:

- A. Supply and Deliver Composite Manhole Frames and Cover Assemblies ("Goods" and "Services") to the County, as requested by the County, on an as-needed basis per the following technical specifications:
 1. Required Manufacturer: Trumbull or Composite Access Products
 2. Size: 24" Frame and 24" Cover
 3. Material: Composite
 4. Estimated Quantity: 200 Frames and 200 Covers
 5. Custom Lettering on the Cover to Read: "Manatee County / Sanitary Sewer" and the "Year"
 6. Guarantee/Warranty: As Applicable
- B. Provide the Goods in accordance with Exhibit 3, Detail Drawings; Exhibit 4, Utilities Approved Product List, Page 24; and within the parameters of satisfactory as directed by the County Representative.
- C. Deliver all Goods to the following location or as otherwise directed by the County Representative:

Manatee County Utilities
4524 66th Street West
Bradenton, FL 34210

- D. Deliver all Goods between the hours of 7:00 A.M. through 3:30 P.M., Monday through Friday, excluding holidays.
- E. Collect from the County, upon County's request, any Goods that were damaged in shipment; or upon County approval, remedy any damaged Goods at the sole expense of the Supplier.
- F. Maintain all pertinent licenses, insurances, and certifications applicable to the Goods and Services described in this Scope.
- G. Provide a delivery ticket with each delivery that includes the following: date of delivery; description; quality; quantity; delivery location; County issued Blanket Purchase Order number and Release Order number; and authorized signature from the receiving County Representative.
 - 1. Upon delivery, the Supplier shall obtain an authorized signature, on the delivery ticket, from the receiving County Representative.
 - 2. Upon departure, the Supplier shall provide a signed hardcopy of the delivery ticket to the receiving County Representative.
- H. Provide a packing list with each delivery.
- I. Submit all invoices to the County Representative for review and processing upon completion of each order.
- J. Provide a guarantee/warranty, in writing, to the County for each Good ordered by the County.

1.04 COUNTY'S RESPONSIBILITIES

The County shall:

- A. Ensure the Supplier's Goods and Services are within the parameters of satisfactory performance.
- B. Obtain the Goods and Services from an alternate supplier if unsatisfactory Goods and Services are not corrected or the Supplier fails to remedy any problems that arise.

1.05 LINE ITEMS AND QUANTITIES

The County reserves the right to add, delete, and revise Line Items in Attachment F, Quote Form, as required to carry out the intent and purpose of the Agreement.

1.06 ADDITIONAL GOODS AND SERVICES

At the request of the County, additional goods and services shall be negotiated on a fixed fee per deliverable basis and shall be approved through a valid Release Order number provided by the County Representative.

EXHIBIT 2, MINIMUM QUALIFICATIONS

Bidders must submit the information and documentation requested that confirms Bidder meets the following minimum qualification requirements:

- 2.01** Bidder must be registered with the State of Florida, Division of Corporations to do business in Florida.

No documentation is required. The County will verify registration.

- 2.02** Bidder must have provided and delivered composite manhole frames and covers for at least three (3) commercial clients. The goods and services must have been provided within the last five (5) years of the Due Date for submission of Quotes in response to this ITQ.

Bidder must provide the following information for the three (3) qualifying client references: 1) name of client; 2) location (city/state); 3) client contact name; 4) contact phone; 5) contact email; and 6) service dates (start/end).

- 2.03** Bidder has not been convicted of a public entity crime per Section 287.133, Florida Statutes or environmental law in the past five (5) years.

Bidder must complete Attachment C and submit with its Quote attesting that it has not been convicted of a public entity crime or environmental law in the past five (5) years.

- 2.04** Bidder is not on the Florida Department of Management Services Suspended, Debarred, Convicted Vendor List.

No documentation is required. The County will verify.

- 2.05** If Bidder is submitting as a joint venture, Bidder must file the required documents with the Florida Department of Business and Professional Regulation as required by Florida Statute Section 489.119, prior to the Due Date and Time for submission of Quotes in response to this ITQ.

If Bidder is a joint venture, Bidder must provide a copy of its approved filing with the Florida Department of Business and Professional Regulation.

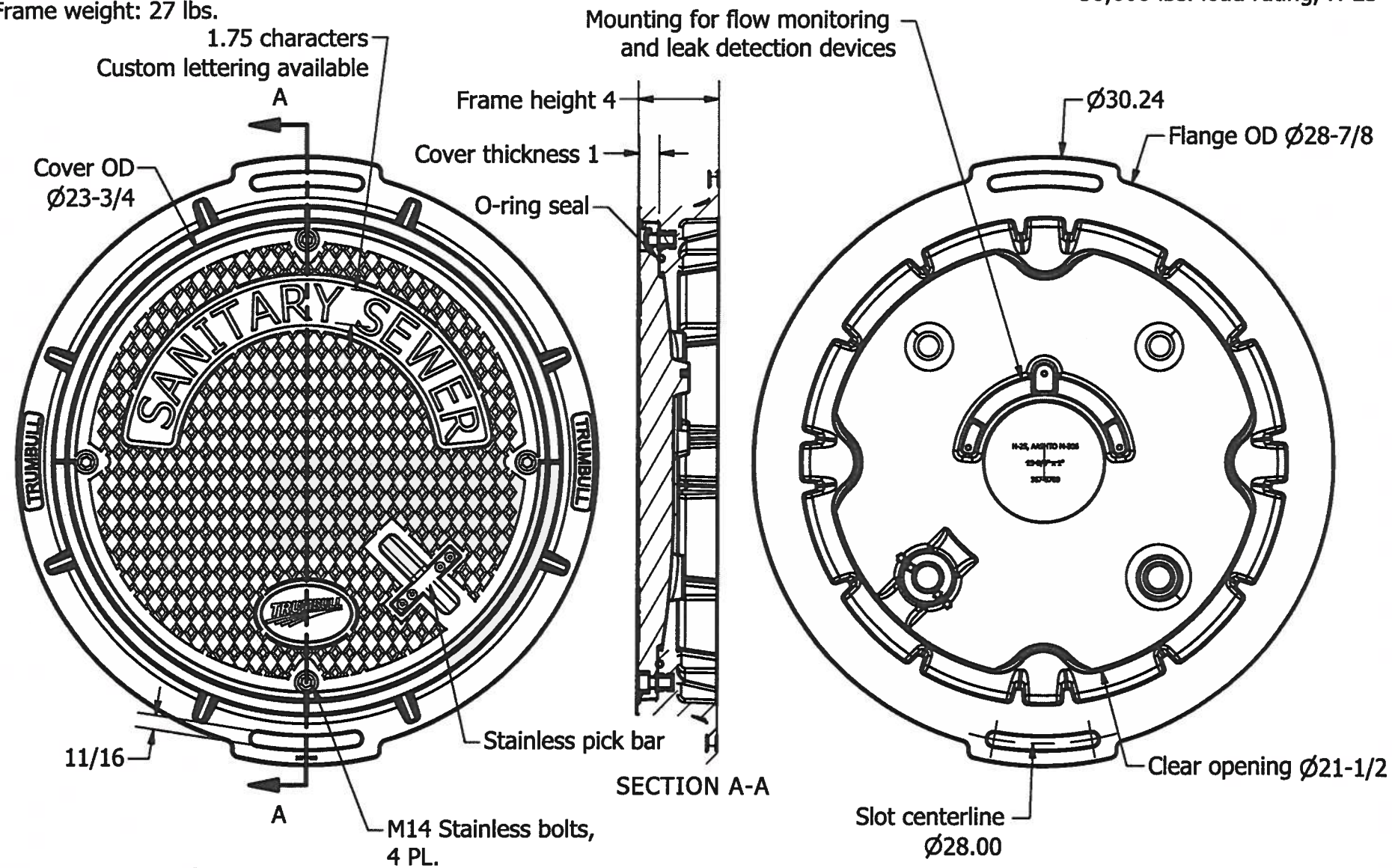
- 2.06** Bidder has no reported conflict of interests in relation to this ITQ.

If conflicts of interest are present, Bidder must disclose the name of any officer, director or agent who is also an employee of the County and the name of any County employee who owns, directly or indirectly, any interest in the Bidder's firm or any of its branches.

EXHIBIT 3, DETAIL DRAWINGS

Lid weight: 39 lbs.
 Frame weight: 27 lbs.

50,000 lbs. load rating, H-25



Frame part number:
 367-5468

Lid part number:
 367-5789 (Sanitary Sewer)
 367-5790 (Water Meter)

(Dimensions are in inches)

24" Manhole Lid & Frame (21-1/2" Frame Clear Opening, Bolt Down) Drawn to Scale	Drawn: BJE 09/15/17	Revision: BJE 05/13/19	Trumbull Manufacturing, Inc. Youngstown, Ohio www.trumbull-mfg.com
	Ⓐ		



EXHIBIT 4, UTILITIES APPROVED PRODUCT LIST



UTILITY APPROVED PRODUCT LIST

FEBRUARY 2020

Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Pressurized PVC AWWA C900-16	Standard Push-On Joint	4" and Larger	✓	✓	✓	JM Eagle	Blue Brute (C900)/ Big Blue (C905)	<p>Pipe size 14" shall only be used with prior written approval by Manatee County All PVC pipe shall be color-coded per service application</p> <p>Potable/Reclaimed Water: Pipe sizes 4" - 12": Pressure Class 235, DR 18, Ductile Iron Pipe Size (DIPS), AWWA C900-16 Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed or etched into the gasket Pipe and gaskets for potable water shall be NSF61 certified</p> <p>Wastewater: Pipe sizes 4" - 36": Pressure Class 235, DR 18, DIPS, AWWA C900-16</p> <p>Self-Restrained Push-On Joint: All self-restrained push-on joint pipe shall be field checked for proper engagement per manufacturer's recommendations Pipe shall have weather-resistant, min. 6 mil thick, 4" wide, solid red PVC marking tape around bell</p> <p>RieberLok: Gaskets shall only be used on manufacturer approved pipe Bulldog Restraint: Gaskets shall only be factory applied to Diamond Plastic "Lok 21" and JM Eagle "Eagle Loc 900" Pipe</p>	
				✓	✓	✓	Diamond Plastics Corp.	C900/Trans-21		
				✓	✓	✓	North American Pipe Corp.	C900/IB		
				✓	✓	✓	National Pipe & Plastics	Dura-Blue C900		
				✓	✓	✓	Sanderson Pipe	C900		
	Self-Restrained Push-On Joint	4" - 24"	✓	✓	✓	Bulldog Restraint	Bulldog Gasket			
		4" - 12"	✓	✓	✓	RieberLok	RieberLok Gasket			
	Gravity Sewer PVC	4" - 15"		✓	✓	✓	JM Eagle	Ring-Tite Gravity Sewer		<p>Pipe size 14" shall only be used with prior written approval by Manatee County</p> <p>Push-on joints shall use elastomeric gaskets in accordance with ASTM D3212 Pipe shall be color coded green for sewer applications</p> <p>Pipe sizes 4" - 15": Pipe Stiffness 115, SDR 26, ASTM D3034</p>
				✓	✓	✓	Diamond Plastics Corp.	Sani-21		
				✓	✓	✓	North American Pipe Corp.	ASTM D3034/IB		
✓				✓	✓	National Pipe & Plastics	Sewer ASTM D3034/F679			
✓				✓	✓	Sanderson Pipe	ASTM D3034/IB			
18" - 54"		✓	✓	✓	JM Eagle	Big Blue (C905)				
		✓	✓	✓	Diamond Plastics Corp.	C900/Trans-21				
		✓	✓	✓	North American Pipe Corp.	C900/IB				
		✓	✓	✓	National Pipe & Plastics	Dura-Blue C900				

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



UTILITY APPROVED PRODUCT LIST

FEBRUARY 2020

Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	HDPE	For Mains	4" and Larger	✓	✓	✓	JM Eagle	HDPE (DIPS) Pressure Pipe	Pressure Class 200, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906 Min. Cell Classification per ASTM D3350 shall be 445574 Pipe sizes 3" and 14" shall only be used with prior written approval by Manatee County All HDPE pipe must have color coded striping on 3-sides (120 degree apart) per service application <u>Potable/Reclaimed Water:</u> For pipe sizes 4" - 12" HDPE pipe shall not be installed in roadways, unless in a casing Pipe sizes 16" and larger shall only be used with prior written approval by Manatee County Pipe for potable water shall be NSF61 certified <u>Wastewater:</u> For pipe sizes 4" - 36"	
				✓	✓	✓	WL Plastics	PE 4710 (DIPS)		
				✓	✓	✓	GF Central Plastics	Design-Flow PE100/PE4710		
				✓	✓	✓	Performance Pipe	DriscoPlex 4000		
				✓	✓	✓	Endot	PE 4710 (DIPS)		
				✓	✓	✓	Charter Plastics	PE 4710 - Blue/Lavender/ Green Stripe		
	PE	For Services	2" and Smaller	✓	✓		Endot	Endopure	Pressure Class 250, PE4710, Copper Tube Size (CTS), SDR 9, AWWA C901 Min. Cell Classification per ASTM D3350 shall be 445574 Tubing shall be fully color coded blue for potable water or purple for reclaimed water services Tubing for potable water shall be NSF61 certified PE Tubing shall only be used if water main is not under pavement Butt-Fusion or CTS brass connections shall be used	
				✓	✓		ADS	Polyflex		
				✓			Charter Plastics	4710 - CTS Tubing		
	PEX			✓	✓		Rehau	Municipex	Pressure Class 200, PEXa 3306, Copper Tube Size (CTS), SDR 9, AWWA C904 Tubing shall be fully color coded blue for potable water or purple for reclaimed water services Tubing for potable water shall be NSF61 certified PEX Tubing shall only be used if water main is not under pavement Butt-Fusion or CTS brass connections shall be used	

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Ductile Iron AWWA C150/C151	Flanged Joint	4" and Larger	✓	✓	✓	✓	American Cast Iron Pipe Company	Flanged Joint	<p style="text-align: center;">Pipe Ratings: Aboveground Installation: Flanged Joint, 250 PSI, Special Class 53 Buried Installation: Mechanical Joint, 350 PSI for 4" - 16", 250 PSI for 18" and larger</p> <p>Buried pipe shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer</p> <p>Pipe size 14" shall only be used with prior written approval by Manatee County</p> <p style="text-align: center;">Potable/Reclaimed Water: For pipe sizes 4" and larger</p> <p style="text-align: center;">Interior Coating: Std. thickness cement lining per AWWA C104</p> <p style="text-align: center;">Exterior Coating: Buried pipe shall have a std. 1-mil asphaltic coating per AWWA C151; aboveground pipe shall have a factory-applied epoxy primer</p> <p>For uncontaminated soils: Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket</p> <p style="text-align: center;">For contaminated soils: Shall have NBR or FKM rubber gasket</p> <p>Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details Pipe and gaskets for potable water shall be NSF61 certified</p> <p style="text-align: center;">Wastewater: For force mains: Pipe sizes 36" and larger</p> <p style="text-align: center;">For lift station aboveground valve and metering assemblies: Pipe sizes 4" and larger</p> <p>Holiday-free factory certification per ASTM G62, Method B (High-Voltage) shall be provided for the interior coating at the point of delivery</p> <p style="text-align: center;">Interior Coating: Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permax CTF coating</p> <p style="text-align: center;">Exterior Coating: Buried pipe shall have a std. 1-mil asphaltic coating per AWWA C151; aboveground pipe shall have a factory-applied epoxy primer</p> <p style="text-align: center;">Self-Restrained Push-On Joint: All self-restrained push-on joint pipe shall have weather-resistant, min. 6 mil thick, 4" wide, solid red PVC marking tape around bell</p>
				✓	✓	✓	✓	McWane Ductile	Flanged Joint	
				✓	✓	✓	✓	U.S. Pipe	Flanged Joint	
		✓		✓	✓	✓	American Cast Iron Pipe Company	Fastite Joint		
		✓		✓	✓	✓	McWane Ductile	Tyton Joint		
		✓		✓	✓	✓	U.S. Pipe	Tyton Joint		
		✓		✓	✓	✓	American Cast Iron Pipe Company	Fastite Joint w/ Amarillo Fast-Grip Gasket (4" - 24")		
		✓		✓	✓	✓		Lok-Ring Joint (54" - 64")		
		✓		✓	✓	✓		Flex-Ring Joint (4" - 54")		
	✓	✓	✓	✓	McWane Ductile	Tyton Joint w/ Sure Stop 350 Gasket (4" - 24")				
	✓	✓	✓	✓		TR Flex Joint (4" - 36")				
	✓	✓	✓	✓	U.S. Pipe	Tyton Joint w/ Field Lok 350 Gasket (4" - 16")				
	✓	✓	✓	✓		HP Lok Joint (30" - 64")				
	✓	✓	✓	✓		TR Flex Joint (4" - 36")				

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Pressurized PVC ASTM D2241	3" and Smaller	✓	✓	✓	JM Eagle	Ring-Tite	<u>Shall only be used for potable/reclaimed water service casings under pavement</u> Pressure Class 200, SDR 21, Iron Pipe Size (IPS), ASTM D2241
			✓	✓	✓	Diamond Plastics Corp.	D2241	
			✓	✓	✓	North American Pipe Corp.	ASTM D2241/IB	
			✓	✓	✓	National Pipe & Plastics	Dura-Flow SDR Series	
	Pressurized Sch. 80 PVC ASTM D1785	2" and Smaller	✓	✓	✓	North American Pipe Corp. Products	-	<u>Shall only be used for grinder pump stations</u> Iron Pipe Size (IPS), ASTM D1785 Only for working pressures up to 125 psi
			✓	✓	✓	JM Eagle Products	-	
			✓	✓	✓	GF Central Plastics Products	-	
			✓	✓	✓	Charlotte Pipe Products	-	
			✓	✓	✓	Harrison Plastic Products	-	
	Fiberglass	Centrifugally Cast	✓	✓	✓	Hobas Products	-	<u>Shall only be used for slip lining existing gravity sewer main</u> Bell and Spigot shall meet requirements of ASTM D3262 O-ring or profile type elastomeric gasket shall meet requirements of ASTM F477
		Filament Wound	✓	✓	✓	Flowtite Products	-	



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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Fittings	Ductile Iron AWWA C110/C153	For Pressurized PVC C900-16 and DI Pipe	✓	✓	✓	✓	Sigma Corp. Products	-	<p><u>Mechanical Joint Fittings (Buried Installations Only):</u> 4" - 16": 350 psi pressure rating 18" and larger: 250 psi pressure rating</p> <p><u>Flanged Fittings (Aboveground Installations Only):</u> All sizes: 250 psi pressure rating</p> <p>Buried fittings shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer</p> <p><u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1 or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS</p> <p><u>Potable/Reclaimed Water:</u> <u>Interior Coating:</u> Double the std. thickness cement lining per AWWA C104 <u>Exterior Coating:</u> Buried fittings shall have a std. 1-mil asphaltic coating per AWWA C110/C153; aboveground fittings shall have a factory-applied epoxy primer <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed and/or etched into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details Fittings and gaskets for potable water shall be NSF61 certified</p> <p><u>Wastewater:</u> Holiday-free factory certification per ASTM G62, Method B (High-Voltage) shall be provided for the interior coating at the point of delivery <u>Interior Coating:</u> Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permox CTF coating <u>Exterior Coating:</u> Buried fittings shall have a std. 1-mil asphaltic coating per AWWA C110/C153; aboveground fittings shall have a factory-applied epoxy primer</p>
			✓	✓	✓	✓	Star Pipe Products	-	
			✓	✓	✓	✓	Infact Corp.	Flex T-2/T-3	
			✓	✓	✓	✓	SIP Industries Products	-	
			✓	✓	✓	✓	Tyler/Union Products	-	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Fittings	Molded and Fabricated HDPE	For HDPE AWWA C906 Pipe	✓	✓	✓	GF Central Plastics Products	-	<p><u>Shall only be used in lift stations</u></p> <p>Refer to Manatee County Public Works Utility Standards Detail US-19</p> <p>Pressure Class 200, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906</p> <p>Min. Cell Classification per ASTM D3350 shall be 445574</p> <p>Fittings shall be fused per manufacturer's recommendations</p>
			✓	✓	✓	Charter Plastics Products	-	
			✓	✓	✓	Performance Pipe Products	-	
			✓	✓	✓	Specified Fittings Products	-	
			✓	✓	✓	Integrity Fusion Products	-	
	Molded and Fabricated PVC	For Pressurized PVC AWWA C900-16 Pipe	✓	✓	✓	NACO	Pressure Gasketed Fittings	<p><u>Shall only be used for P-traps and drop manholes</u></p> <p>All fittings shall be connected via water-tight push-on joints using elastomeric gaskets per ASTM D3139 rated for pressurized PVC pipe</p> <p>Pressure Class 150, DR 18, AWWA C900-16/C907</p>
			✓	✓	✓	Harrington Corp	C900 Fittings	
			✓	✓	✓	Multi Fittings Corp.	C900/C905 Fittings	
			✓	✓	✓	Specified Fittings	C900 Fittings	
		For Gravity Sewer PVC AWWA C900-16 Pipe (18" and Larger)	✓	✓	✓	Harrington Corp	C900 Fittings	<p><u>Shall only be used for drop manholes</u></p> <p>All fittings shall be connected via water-tight push-on joints using elastomeric gaskets per ASTM D3212 rated for gravity sewer PVC pipe</p> <p>Pipe sizes 18" - 54": DR 25, AWWA C900-16/C907</p>
			✓	✓	✓	Multi-Fittings Corp.	C900/C907 Fittings	
			✓	✓	✓	North American Pipe Corp.	N-Series	
		For Gravity Sewer PVC ASTM D3034 Pipe	✓	✓	✓	Harrington Corp.	SDR 26 Fittings	<p><u>Shall only be used for sewer laterals and drop manholes</u></p> <p>All fittings shall be connected via water-tight push-on joints using elastomeric gaskets per ASTM D3212 rated for gravity sewer PVC pipe</p> <p>Pipe sizes 4" - 15": SDR 26, ASTM D3034</p>
			✓	✓	✓	Multi Fittings Corp.	Trench Tough Plus	
✓			✓	✓	Tigre-ADS USA	SDR 26 Gasketed		
✓			✓	✓	North American Pipe Corp.	G-Series		



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	PVC AWWA C900-16 (4" - 12")	<u>Pipe to Pipe connections</u>	Split-Casing Restraint	✓	✓	✓	✓	Ford Meter Box Co.	Series UFR1390-C (DI, PVC) (4" - 12")	<p style="text-align: center;"><u>All sizes:</u> 235 psi rating</p> <p>Buried thrust restraints shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242.</p> <p>Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nuts shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue).</p> <p style="text-align: center;">Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSAFE System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System SIP Industries: EZ Shield System</p> <p style="text-align: center;"><u>Potable/Reclaimed Water:</u></p> <p><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket</p> <p style="text-align: center;"><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket</p> <p>Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details</p>
				✓	✓	✓	✓	EBAA Iron	Series 1900 (4" - 12")	
				✓	✓	✓	✓	Star Pipe Products	PVC Series 1100G2C (4" - 12")	
				✓	✓	✓	✓	Sigma Corp.	PV-LOK Series D-PWP (DI, PVC) (4" - 12")	
		Wedge-Action Restraint	✓	✓	✓	✓	Star Pipe Products	PVC Stargrip Series 4100P (4" - 12")		
			✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series SLCEH (4" - 12")		
			Split-Casing Restraint	✓	✓	✓	✓	Star Pipe Products	PVC Series 1000G2 (DI, PVC) (4" - 12")	
				✓	✓	✓	✓	Sigma Corp.	PV-LOK Series PWM-C (4" - 12")	
	<u>Pipe to MJ Fittings connections</u>	Wedge-Action Restraint	✓	✓	✓	✓	EBAA Iron	Series 2000PV (4" - 12")		
			✓	✓	✓	✓	Star Pipe Products	PVC Stargrip Series 4000 (HDPE, PVC) (4" - 12")		
			✓	✓	✓	✓	SIP Industries	EZ Grip Series EZPVCP (4" - 12")		
		Split-Casing Restraint	✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series D-SLCE (4" - 12")		
			Split-Casing Restraint	✓	✓	✓	✓	EBAA Iron	Series 2600 (4" - 12")	
				✓	✓	✓	✓	Star Pipe Products	Series 1200G2C (4" - 12")	
	✓	✓	✓	✓	SIP Industries	Series PTPFC (4" - 12")				
	✓	✓	✓	✓	Sigma Corp.	PV-LOK Series PWPF (4" - 12")				

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	PVC AWWA C900-16 (14" - 36")	Pipe to Pipe connections	Split-Casing Restraint	✓	✓	✓	Star Pipe Products	Series 1100C (14" - 36")
				✓	✓	✓	Sigma Corp.	PV-LOK Series D-PWP (DI, PVC) (14" - 36")
			Wedge-Action Restraint	✓	✓	✓	EBA Iron	Megalug Series 2800 (14" - 16")
				✓	✓	✓	Star Pipe Products	PVC Stargrip Series 4400 (14" - 20")
				✓	✓	✓		Series 1100C* (24" - 36")
				✓	✓	✓	Ford Meter Box Co.	Series UFR1390-C* (DI, PVC) (24" - 36")
	Pipe to MJ Fittings connections	Split-Casing Restraint	✓	✓	✓	Star Pipe Products	Series 1000C (14" - 36")	
			✓	✓	✓	Sigma Corp.	PV-LOK Series D-PWM (14" - 24")	
		Wedge-Action Restraint	✓	✓	✓	EBA Iron	Series 2000PV (HDPE, PVC) (14" - 16", 24")	
			✓	✓	✓	Star Pipe Products	PVC Stargrip Series 4000 (HDPE, PVC) (14" - 36")	
			✓	✓	✓	SIP Industries	EZ Grip Series EZPVCP (14" - 36")	
			✓	✓	✓	Sigma Corp.	ONE-LOK Series D-SLCE (HDPE, PVC) (24" - 36")	
		Pipe to PVC Fittings connections	Split-Casing Restraint	✓	✓	✓	Sigma Corp.	PV-LOK Series PWP (14" - 24")

All sizes: 235 psi rating

Buried thrust restraints shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer

For buried installations: T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242.

Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449
Side clamping nut shall be medium carbon steel per SAE J995 Grade 2/ASTM A449

Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue).
Alternatively, hardware shall be 316 SS.

For aboveground installations: T-bolts, tie rods, nuts, and washers shall be 316 SS
Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2
Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1

Restraint devices shall have the following factory applied high performance coatings:
 Star Pipe Products: Starbond System
 Sigma Corp.: CORRSafe System
 EBA Iron: MEGA-BOND System
 Ford Meter Box Co.: Armorguard E-Coat System
 SIP Industries: EZ Shield System

Potable/Reclaimed Water:

For uncontaminated soils: Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket
For contaminated soils: Shall have NBR or FKM rubber gasket

Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	HDPE AWWA C906	<u>Pipe to MJ Fittings connections</u>	Split-Casing Restraint	✓	✓	✓	EBAA Iron	Series 15PF00 (4" - 12")	<p><u>All sizes:</u> 160 psi rating</p> <p>Buried thrust restraints shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242.</p> <p>Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449</p> <p>Side clamping nut shall be medium carbon steel per SAE J995 Grade 2/ASTM A449</p> <p>Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue).</p> <p>Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS</p> <p>Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2</p> <p>Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p>All restrained joints shall be designed for HDPE Pipe conforming to AWWA C906 and Ductile Iron Pipe Size (DIPS) Dimensions</p> <p>Shall include 316 SS pipe stiffening insert</p> <p>ABS Spacers shall not be removed from actuating bolts on HDPE Pipe (DIPS)</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u></p> <p>Star Pipe Products: Starbond System</p> <p>Sigma Corp.: CORRSAFE System</p> <p>EBAA Iron: MEGA-BOND System</p> <p>Ford Meter Box Co.: Armorguard E-Coat System</p> <p>SIP Industries: EZ Shield System</p> <p><u>Potable/Reclaimed Water:</u></p> <p><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket</p> <p><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket</p> <p>Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details</p>	
				✓	✓	✓		Series 15MJ00 (4" - 12")		
				✓	✓	✓		Sigma Corp.		PV-LOK Series PVM-C (4" - 12")
				✓	✓	✓		EBAA Iron		Series 2000PV (HDPE, PVC) (4" - 12")
			✓	✓	✓	Star Pipe Products	PVC StarGrip Series 4000 (HDPE, PVC) (4" - 18")			
			✓	✓	✓	Sigma Corp.	ONE-LOK Series D-SLCE (HDPE, PVC) (4" - 12")			



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	Ductile Iron Pipe AWWA C150 & C151	Pipe to Pipe connections	Split-Casing Restraint	✓	✓	✓	✓	EBAA Iron	Series 1500TD (4" - 12")	<p><u>Pipe sizes 2" - 16"</u>: 350 psi rating <u>Pipe sizes 18" and larger</u>: 250 psi rating</p> <p>Buried thrust restraints shall be wrapped with an approved external polyethylene encasement color coded blue for potable water, purple for reclaimed water, and green for sewer</p> <p><u>For buried installations</u>: T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nuts shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations</u>: T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSAFE System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System SIP Industries: EZ Shield System</p> <p><u>Potable/Reclaimed Water:</u> <u>For uncontaminated soils</u>: Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket <u>For contaminated soils</u>: Shall have NBR or FKM rubber gasket Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details</p> <p><u>MJ Fitting to MJ Fitting Connections in Potable/Reclaimed Water:</u> <u>Interior Coating</u>: Std. thickness cement lining per AWWA C104 <u>Exterior Coating</u>: Std. 1-mil asphaltic coating per AWWA C110/C153</p> <p><u>MJ Fitting to MJ Fitting Connections in Wastewater:</u> Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery <u>Interior Coating</u>: Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permax CTF coating <u>Exterior Coating</u>: Std. 1-mil asphaltic coating per AWWA C151</p>
				✓	✓	✓	✓	Star Pipe Products	Stargrip Series 3100S (3" - 48")	
				✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series SSLDH (4" - 36")	
			Wedge-Action Restraint	✓	✓	✓	✓	EBAA Iron	Series 1700 (4" - 48")	
				✓	✓	✓	✓	Star Pipe Products	Stargrip Series 3100P (4" - 48")	
				✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series SLDEH (4" - 36")	
		Pipe to MJ Fittings connections	Split-Casing Restraint	✓	✓	✓	✓	EBAA Iron	Series 1100SD (4" - 48")	
				✓	✓	✓	✓	Star Pipe Products	Split Stargrip Series 3000S (4" - 48")	
				✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series SSLDH (4" - 36")	
			Wedge-Action Restraint	✓	✓	✓	✓	EBAA Iron	Series 1100 (4" - 48")	
				✓	✓	✓	✓	Star Pipe Products	Stargrip Series 3000 (4" - 48")	
				✓	✓	✓	✓	SIP Industries	EZ Grip Series EZDP (DI, PVC) (3" - 48")	
	✓	✓	✓	✓	Sigma Corp.	ONE-LOK Series D-SLDE (4" - 48")				
	MJ Fitting to MJ Fitting Connections	✓	✓	✓	✓	Star Pipe Products	Series 100 (3" - 36")			
		✓	✓	✓	✓	SIP Industries	MJ x MJ Adapter (3" - 12")			
		✓	✓	✓	✓	Infact Corp.	Foster Adapter (3" - 36")			

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Plain End Couplings	Gravity Sewer PVC ASTM D3034 Plain End to Plain End Couplings	4" - 12"			✓	Fernco Products	Series 5000 RC	Shall be reinforced with 316 SS clamp band, bolts, and nuts Shear band shall be min. 304 SS
	Dissimilar Pipe Materials Plain End to Plain End Couplings	2" - 12"	✓	✓		Romac	Macro	<p><u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS</p> <p><u>Couplings shall have the following factory applied high performance coatings:</u> Romac: Romacoat System Krausz: Factory std. min. 14 mil fusion bonded epoxy EBAA Iron: MEGA-BOND System Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery</p> <p><u>Potable/Reclaimed Water:</u> Couplings and gaskets for potable water shall be NSF61 certified</p> <p><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket</p> <p><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket</p> Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details
		2" - 12"	✓	✓		Krausz	Hymax 2 Coupling (Series 860)	
		4" - 48"	✓	✓		EBAA Iron	Mega-Coupling Series 3800	

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Flange Adapters	HDPE AWWA C906 Flange and MJ Adapters	✓	✓	✓	✓	Charter Plastics Products	-	Pressure Class 200, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906 Min. Cell Classification per ASTM D3350 shall be 445574 Fittings shall be fused per manufacturer's recommendations Shall have 316 SS back-up ring <u>Potable/Reclaimed Water:</u> For uncontaminated soils: Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket For contaminated soils: Shall have NBR or FKM rubber gasket Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details	
		✓	✓	✓	✓	Improved Piping Products	-		
		✓	✓	✓	✓	Integrity Fusion Products	-		
		✓	✓	✓	✓	Performance Pipe Products	-		
	Pressurized PVC AWWA C900-16 Flange Adapters	4" - 20"	✓	✓	✓	✓	EBA Iron	Megaflange Series 2100 (DI, PVC)	<u>PVC Flange Adapter:</u> Pipe sizes 4"-36": 235 psi rating <u>DIP Flange Adapter:</u> Pipe sizes 2"-16": 350 psi rating Pipe sizes 18" and larger: 250 psi rating For aboveground installations: T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS <u>Flange adapters shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSAFE System EBA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System <u>Potable/Reclaimed Water:</u> Flange adapters and gaskets for potable water shall be NSF61 certified Shall have EPDM rubber gaskets with the letters "EPDM" factory embossed and/or etched into gasket
		3" - 36"	✓	✓	✓	✓	Sigma Corp.	Sigmaflange SFA Series CP	
		4" - 20"	✓	✓	✓	✓	Star Pipe Products	Super Flange Series 7200 (DI, PVC)	
		3" - 36"	✓	✓	✓	✓		Starflange Series 4200	
	DIP AWWA C110 Flange Adapters	2" - 12"	✓	✓	✓	✓	Ford Meter Box Co.	Series 420	
		3" - 20"	✓	✓	✓	✓	EBA Iron	Megaflange Series 2100 (DI, PVC)	
			✓	✓	✓	✓	Star Pipe Products	Super Flange Series 7200 (DI, PVC)	
		All sizes except 18"	✓	✓	✓	✓		Starflange Series 3200	
All sizes except 18"		✓	✓	✓	✓	Sigma Corp.	Sigmaflange SFA Series DP		

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes			
Valves	Air Release Valves		✓	✓	✓	GA Industries	Fig-929	Min. inlet size shall be 2" Orifice, float, linkage, and hardware shall be 316 SS The seal shall be made of Buna N elastomer			
			✓	✓	✓	H-TEC	Model 986-SS	<u>For waterway and canal crossings only</u> Min. inlet size shall be 2" Body, bolts, nuts, and washers shall be 316 SS The seal shall be made of Buna N elastomer			
	Privately-Owned		✓			-	-	Any privately-owned backflow prevention assembly that is approved by the University of Southern California (USC), with the exception of Wilkins 375XL (3/4" and 1"), Watts LF009QT (3/4" and 1"), and Ames LF4000B (3/4" and 1"), will be accepted by Manatee County County-Owned approved models are also acceptable			
	Backflow Prevention Assembly		County-Owned		2-1/2" - 12"		Wilkins (Zurn)	350DA	Double Check Valve Assembly w/ Meter		
								375DA	Reduced Pressure Zone Assembly w/ Meter		
								375DA-OS&Y	Reduced Pressure Zone Assembly w/ Meter (OS&Y)		
							Ames	2000SS	Double Check Valve Assembly		
								3000SS	Double Check Valve Assembly w/ Meter		
								4000SS	Reduced Pressure Zone Assembly		
								5000SS	Reduced Pressure Zone Assembly w/ Meter		
							1/2" - 2"		Apollo Valves	RPLF-4A Series	Reduced Pressure Zone Assembly
									Wilkins (Zurn)	975XL2	Reduced Pressure Zone Assembly
									Watts	Model LF007 Series	Double Check Valve Assembly
	Model 909 Series	Reduced Pressure Zone Assembly									
	Pressure Relief Valves		✓			Apollo Valves	16LF-202	For use with backflow prevention assemblies			
	Ball Valves		✓	✓	✓	FNW	Fig. 200A	<u>For use with ARV</u> Body, cap, stem, and ball shall be 316 SS/CF8M Min. Cold-Working Pressure shall be 1000 PSI			
			✓	✓	✓	Apollo Valves	Model 76F				
	Automatic Flushing Systems		On Ground Discharge		✓	Mueller	Hydro-Guard HG-1	Design considerations shall minimally include site drainage patterns, cross connection prevention, grounding, dichlorination requirements, and discharge permits			
✓					Hydro-Guard HG-2						

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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Valves	Corporation Stops	For Copper Pipe and HDPE Tubing	All joints made to CTS size HDPE tubing shall use SS insert stiffeners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	FB1000-x-NL	Pack Joint x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1000-x-G-NL	Grip Joint Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1000-x-Q-NL	Quick Joint Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1100-x-NL	Pack Joint x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1100-x-G-NL	Grip Joint Compression x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	74704B-22	Pack Joint x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		74701B-22	Pack Joint x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		74701BQ	Quick Joint Compression x AWWA Taper Thread (3/4" - 2")	
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	74704BQ		Quick Joint Compression x MIP Thread (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	74701BG		Grip Joint Compression x AWWA Taper Thread (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	74704BG	Grip Joint Compression x MIP Thread (3/4" - 2")		
		For Copper Pipe Only		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	FB600-x-NL	Flare x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	FB700-x-NL	Flare x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	74704B	Flare x MIP Thread (3/4" - 2")	
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	74701B		Flare x AWWA Taper Thread (3/4" - 2")		
		For Stainless Steel Pipe Only		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	FB1600-x-NL	FIP Thread x AWWA Taper Thread (3/4" - 2")	
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FB1700-x-NL	FIP Thread x MIP Thread (3/4" - 2")				
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	73149B	FIP Thread x MIP Thread (3/4" - 2")			
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		73148B	FIP Thread x AWWA Taper Thread (3/4" - 2")			
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mueller	P25170N	Pack Joint x FIP Thread (3/4" - 2")		
	For Copper Pipe and HDPE Tubing		All joints made to CTS size HDPE tubing shall use SS insert stiffeners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	G25170N	Grip Joint Compression x FIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Ford Meter Box Co.	B41-xxxW-NL	Pack Joint x FIP Thread (3/4" - 2")
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	B41-xxxW-G-NL		Grip Joint Compression x FIP Thread (3/4" - 2")	
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	76100W-22	Compression x Compression (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76100WT	Pack Joint x Pack Joint (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76102WG	Compression x FIP Thread (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76107T	Compression x MIP Thread (3/4" - 2")		
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76107-22	Pack Joint x MIP Thread (3/4" - 2")		
		For Stainless Steel Pipe Only			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mueller	P25170N	Pack Joint x FIP Thread (1/2" - 2")
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		B20200N	FIP Thread x FIP Thread (1/2" - 2")
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	B20242N	MIP Thread x FIP Thread (1/2" - 2")			
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	B51-xxxW-NL	Pack Joint x FIP Thread (1/2" - 2")		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	B11-xxxW-NL		FIP Thread x FIP Thread (1/2" - 2")			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	B81-xxxW-NL		MIP Thread x FIP Thread (1/2" - 2")			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	A.Y. McDonald	76107	FIP Thread x MIP Thread (3/4" - 2")			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		76107WP	MIP Thread x MIP Thread (3/4" - 2")			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		76102W-44	PVC (DIOD) Compression x FIP Thread (3/4" - 2")			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		76101W	FIP Thread x FIP Thread (3/4" - 2")			

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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Gate Valves	Flange x Flange (NRS)	3" - 54"	✓	✓	✓	American Flow Control	Series 2500 FL x FL	<p style="text-align: center;"><u>All sizes:</u> min. 250 psi rating</p> <p style="text-align: center;"><u>Gate Valves larger than 2":</u> Shall be resilient seated valves conforming to AWWA C515</p> <p style="text-align: center;"><u>2" Gate Valves:</u> Shall be resilient seated valves conforming to applicable requirements of AWWA C509 or C515</p> <p style="text-align: center;">Body and bonnet shall be ductile iron</p> <p style="text-align: center;">Buried valves shall have external nuts, bolts, and washers be min. 304 SS</p> <p style="text-align: center;">Buried valves shall have min. 304 SS stems</p> <p style="text-align: center;">Aboveground valves shall have external nuts, bolts and washers be 316 SS</p> <p style="text-align: center;">Aboveground valves shall have 316 SS stems</p> <p style="text-align: center;">Stem nut shall be bronze/copper</p> <p style="text-align: center;">Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" factory embossed and/or etched into the wedge</p> <p style="text-align: center;">Valves shall have factory applied, min. 8 mils DFT fusion bonded epoxy coating on the interior and exterior</p> <p style="text-align: center;">Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery</p> <p style="text-align: center;">Valves 16" and larger shall be equipped with manufacturer-standard heavy duty gear type actuators with 2" square AWWA operating nut or handwheel</p> <p style="text-align: center;">Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards</p> <p style="text-align: center;">Vertical installation shall use spur-type gear</p> <p style="text-align: center;">Horizontal installation shall use bevel-type gear</p> <p style="text-align: center;">All horizontally-installed gate valves shall require flush line</p> <p style="text-align: center;"><u>Potable/Reclaimed Water:</u></p> <p style="text-align: center;">Aboveground gate valves shall be Outside Stem & Yoke (OS&Y) type</p> <p style="text-align: center;"><u>Wastewater:</u></p> <p style="text-align: center;">Valves shall only be installed vertically</p> <p style="text-align: center;"><u>For Force Mains:</u> Gate valves only allowed for sizes 24" and larger</p> <p style="text-align: center;">Refer to Plug Valve Section for Force Mains sizes 20" and smaller</p> <p style="text-align: center;"><u>For Lift Stations:</u> Gate valves allowed for sizes 3" and larger</p> <p style="text-align: center;">Aboveground valve assembly gate valves shall be Non-Rising Stem (NRS) type</p> <p style="text-align: center;"><u>Valves 16" and larger shall come with torque-limiting device with torque trip limits preset at factory:</u></p> <p style="text-align: center;"><u>Kennedy Valves:</u></p> <p style="text-align: center;">16": 250 lb-ft, 18" - 54": 450 lb-ft</p> <p style="text-align: center;"><u>American Flow Control Valves:</u></p> <p style="text-align: center;">16" - 20": 250 lb-ft, 24": 300 lb-ft, 30" - 54": 500 lb-ft</p> <p style="text-align: center;"><u>Clow Valves:</u></p> <p style="text-align: center;">16": 250 lb-ft, 18" - 54": 450 lb-ft</p> <p style="text-align: center;"><u>Mueller Valves:</u></p> <p style="text-align: center;">16" - 24": 100 lb-ft, 30" - 36": 200 lb-ft, 42" - 54": 350 lb-ft</p>
			4" - 54"	✓	✓	✓	Kennedy	Model KS-RW/2638 FL x FL	
			4" - 54"	✓	✓	✓	Mueller	Model A-2361 FL x FL	
			4" - 48"	✓	✓	✓	Clow	Model 2638 FL x FL	
		Flange x Flange (OS & Y)	3" - 54"	✓	✓	✓	American Flow Control	Series 2500 FL x FL (OS & Y)	
			4" - 54"	✓	✓	✓	Kennedy	Model KS-RW/2638 FL x FL (OS & Y)	
			4" - 54"	✓	✓	✓	Mueller	Model A-2361 FL x FL (OS & Y)	
			4" - 24"	✓	✓	✓	Clow	Model 2638 FL x FL (OS & Y)	
		Mechanical Joint x Mechanical Joint	4" - 48"	✓	✓	✓	American Flow Control	Series 2500 MJ x MJ	
				✓	✓	✓	Mueller	Model A-2361 MJ x MJ	
				✓	✓	✓	Kennedy	Model KS-RW/2638 MJ x MJ	
				✓	✓	✓	Clow	Model 2638 MJ x MJ	
		Threaded x Threaded	2"	✓	✓	✓	American Flow Control	Series 2500 FIP x FIP	
				✓	✓	✓	Clow	Model 2639	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Valves	Hydrants		✓	✓		AVK	Series 2780	<p>Shall be nostalgic-style, dry barrel conforming to AWWA C502 and be UL/FM certified Main valve shall be faced or covered with EPDM elastomer with the letters "EPDM" factory embossed and/or etched into the rubber</p> <p>Shall have one 5-inch Storz connection and two 2-1/2 inch hose nozzles All external nuts, bolts, and washers shall be min. 304 SS Upper and lower stem rod shall be min. 304 SS</p> <p><u>Hydrant Elbow:</u> Shall have a fusion bonded epoxy coating on the interior and exterior <u>Stand Pipe:</u> Shall have std. thickness cement lining on the interior and 1 mil asphaltic coating on the exterior; Alternatively it shall have a fusion bonded epoxy coating on the interior and exterior</p> <p><u>Aboveground parts shall have an external UV-resistant top coat of min. 4 mils DFT as follows:</u> Kennedy: Ken-Guard TGIC Polyester Mueller: Amercoat 370 AVK: Sherwin Williams Acrolon 218 HS Polyurethane Clow: TGIC Polyester Super Coat American Flow Control: Axalta Imron 3.5 HG+ Polyurethane</p>	
			✓	✓		Mueller	Super Centurion 250		
			✓	✓		Kennedy	K81D Guardian		
			✓	✓		Clow	Medallion		
			✓	✓		American Flow Control	Darling B-84-B-5		
	Insertion Valves	4" - 12"		✓	✓		TEAM	InsertValve	<p>Shall be resilient seated valves conforming to AWWA C515 All nuts, bolts, washers, and non-rising stem shall be min. 304 SS</p> <p>Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" factory embossed and/or etched into the wedge</p> <p>Valves shall have factory applied, min. 8 mils DFT fusion bonded epoxy coating on the interior and exterior</p>
	Check Valves	Flapper Disk	2" - 48"	✓	✓		Valmatic	Series 500ABF	<p><u>All sizes:</u> min. 250 psi rating</p> <p>Check valve shall be lead free, ductile iron construction conforming to NSF 61 Shall be equipped with min. 17-4 SS seat position indicator and min. 304 SS backflow actuator</p> <p>Disk shall be fully encapsulated in EPDM rubber with the letters "EPDM" factory embossed and/or etched into the disk All external bolts, nuts, and washers shall be min. 304 SS</p> <p>Valve shall have factory-applied, min. 8 mils DFT fusion bonded epoxy coating on the interior and exterior Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery</p>
			2" - 24"	✓	✓		Pratt	RD Series	
			3" - 16"	✓	✓		American Cast Iron Pipe Company	Series 2100	
		Lever & Weight				✓		AVK	
					✓		American Flow Control	Series 52	
					✓		Kennedy	106 LW	
			✓			Mueller	Series 8001		
			✓				No. A-2600-6-01		
								<p><u>2" - 12":</u> min. 175 psi rating <u>14" - 30":</u> min. 150 psi rating</p> <p>Check valve shall be flanged with ductile iron/cast iron body and bronze mounted single disk conforming to AWWA C508 Shall have bronze seat and body rings Hinge pins shall be extended bronze or 316 SS All external bolts, nuts, and washers shall be 316 SS</p> <p>Valves shall have factory applied, min. 12 mils DFT fusion bonded epoxy coating on the interior and exterior Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery</p>	

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Combination Pressure Reducing and Pressure Sustaining		✓	✓	✓	Cla-Val Company	8" Model 52-01	Pressure sustaining and check valve shall be pilot operated diaphragm actuated valve with cast iron body, bronze trim, and 125-lb flanges Pilot system shall consist of two direct acting, adjustable, spring loaded diaphragm valves Pilot control valves shall be cast brass with min. 304 SS trim
			✓	✓	✓	Singer	8" Model A106-RPS	
			✓	✓	✓	Watts	8" Model LFF116-52	
	Plug Valves	2"	✓	✓	✓	Pratt	Series 611A/613A	<p>Plug valves shall be 100% circular port, non-lubricated, eccentric type</p> <p>Shall be installed with the shaft laying horizontally so that the seat rests on the top portion of body when open</p> <p>Shall shut off bubble tight bidirectionally when pressure tested at 175 PSI for 3"-12" and 150 PSI for 14" and larger</p> <p>Valve body, bonnet, and gland shall be ASTM A126 cast iron or ASTM A526 Grade 65-45-12 ductile iron per AWWA C517</p> <p>Plug shall be ASTM A-526 Grade 65-45-12 ductile iron per AWWA C517</p> <p>Plug shall be fully vulcanized with nitrile (Buna N) rubber with a min. peel strength of 75 PSI per ASTM D429, method B</p> <p>Top and bottom bearings shall be 316 SS</p> <p>All external nuts, bolts, and washers shall be min. 304 SS</p> <p>Valve shall be equipped with manufacturer-standard worm gear type actuators with 2" square AWWA operating nut</p> <p>Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards</p> <p>Gearbox bearings shall be oil impregnated bronze or hardened steel</p> <p>Gearbox worm gear shall be hardened steel or ductile iron ASTM A536 Class 65-45-12</p> <p>Gearbox shaft shall be hardened steel</p> <p><u>2":</u> Valve seat shall have an overlay of min. 16 mils DFT high solids epoxy</p> <p>Shall only be allowed at grinder pump stations</p> <p><u>3" and larger:</u> Valve seat shall have a welded-in overlay of at least 95% pure nickel</p> <p style="text-align: center;"><u>Refer to Gate Valve Section for applications larger than 20"</u></p> <p><u>Valves shall come with torque-limiting device with torque trip limits preset at factory:</u></p> <p style="text-align: center;">3" - 6": 150 ft-lb</p> <p style="text-align: center;">8" - 20": 180 ft-lb</p> <p>All valves shall have internal and external min. 16 mils DFT high solids epoxy coating</p> <p>Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery</p>
		3" - 12"	✓	✓	✓		Series 600FP/601FP	
		2"	✓	✓	✓	Milliken	Series 611A/613A	
		3" - 12"	✓	✓	✓		Series 600F/601F	
		ye	✓	✓	✓	GA Industries	Figure 517-T	
		3" - 20"	✓	✓	✓		Figure 517 Eco-Centric	
	Torque Limiting Device	Trip Torque Limit: 25-250 lb-ft	✓	✓	✓	Aunspach Controls	Model D86-250	<p>Torque limits shall be preset at factory (See gate/plug valve section for torque limits)</p> <p>Permanently mount overtorque protector on the valve operating nut</p> <p>All hardware shall be min. 304 SSS</p> <p>Shall have min. 8 mils DFT fusion bonded epoxy on the interior and exterior</p> <p>Torque set point shall be engraved on the torque limiting device</p>
Trip Torque Limit: 251-500 lb-ft		✓	✓	✓	Model D86-500			
Valve Extension Stem		✓	✓	✓	Mueller Co.	-	Extension stems and hardware shall be min. 304 SS	
		✓	✓	✓	CS3 Waterworks	-		
		✓	✓	✓	GPM Fab	-		

Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Tapping Valves	✓	✓	✓	American Flow Control	Series 2500 FL x MJ	<p>Shall be resilient seated valves conforming to AWWA C515 Shall be furnished with an alignment lip All external nuts, bolts, washers, and non-rising stem shall be min. 304 SS Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" factory embossed and/or etched into the wedge Valves shall have factory applied min. 8 mils DFT fusion bonded epoxy coating on the interior and exterior Holiday-free factory certification per ASTM G62, Method A (Low-Voltage) shall be provided for the interior coating at the point of delivery Valve 16" and larger shall be equipped with manufacturer-standard heavy duty gear type actuators with 2" square AWWA operating nut Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards Vertical installation shall use spur-type gear Horizontal installation shall use bevel-type gear</p> <p>Wastewater: Valves shall only be installed vertically</p> <p><u>Tapping valves 16" and larger shall come with torque-limiting device with torque trip limits preset at factory:</u> Refer to Gate Valve section for trip limits</p>	
		✓	✓	✓	Kennedy	Model KS-RW/2638 FL x MJ		
		✓	✓	✓	Mueller	Model T-2361 FL X MJ		
		✓	✓	✓	Clow	Series 2638 FL x MJ		
Tapping Sleeves	HDPE	4" - 30"	✓	✓	JCM Industries	Model 6452/6459 (HDPE)	<p>Sleeve and straps shall be 316 SS T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS Shall have 3/4" 316 SS test plug</p> <p>Potable/Reclaimed Water: Must hold 180 PSI for one hour Tapping sleeve and gaskets for potable water shall be NSF61 certified For uncontaminated soils: Shall have min. 1/8" thick EPDM full face gasket Shall have EPDM rubber wrap around gasket The letters "EPDM" and company logo shall be factory stamped with white ink on full face gasket The letters "EPDM" and company logo shall be factory stamped with white ink on the wrap around gasket Alternatively, the letters "EPDM" shall be factory embossed and/or etched on the exterior shell of the tapping sleeve if wrap around gasket does not have the EPDM designation For contaminated soils: Shall have NBR or FKM rubber gasket Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details</p> <p>Wastewater: Must hold 150 PSI for one hour Shall have min. 1/8" thick full face gasket</p>	
		4" - 24"		✓	Ford Meter Box Co.	FTSSP-xxx-x-MAN		
		4" - 12"		✓		STS423-H		
	PVC, Ductile Iron, Steel, AC	6" - 48"		✓	Romac	STS420 (316 SS)		
		6" - 12"	✓	✓		STS420 (316 SS)		
		4" - 24"		✓	Ford Meter Box Co.	FTSS-xxx-x-MAN		
				✓	Cascade Waterworks	Series CST-EX (316 SS)		
				✓	PowerSeal	Series 3490 (316 SS)		
4" - 30"	✓	✓	JCM Industries	Model 6452/6459				



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Service Saddles	HDPE	4" - 12"	✓	✓	✓	Romac	STS423T-H	<p>Potable/Reclaimed Water: Must hold 180 PSI for one hour Saddle body shall be made of red brass, alloy 85-5-5-5 or min. 304 SS Saddle strap shall be made of silicon bronze or min. 304 SS T-bolts, bolts, tie rods, nuts, and washers shall be red brass, alloy 85-5-5-5 or min. 304 SS Service saddle and gasket shall be NSF61 certified for potable water</p> <p>For uncontaminated soils: Shall have EPDM rubber gasket The letters "EPDM" and company logo shall be factory stamped with white ink on gasket Alternatively, the letters "EPDM" shall be factory embossed and/or etched on the exterior saddle body</p> <p>For contaminated soils: Shall have NBR or FKM rubber gasket Refer to Manatee County Public Works Utility Standards Section 1.4.2.F for gasket material details</p> <p>Wastewater: Must hold 150 PSI for one hour Saddle body and extra wide strap shall be 316 SS T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS</p>	
		2" - 12"	✓	✓	✓	Ford Meter Box Co.	FSP313-xxx-TAP-EPDM		
		10" - 18"	✓	✓	✓		FSP323-xxx-TAP-EPDM		
		20" - 34"	✓	✓	✓		FSP333-xxx-TAP-EPDM		
		2" - 3"	✓	✓	✓		FS313W-xxx-TAP-EPDM		
	PVC, Ductile Iron, Steel, AC	4" - 16"	4" - 16"	✓	✓	✓	Romac		202BS (Double Bolt)
			6" - 12"	✓	✓	✓			Model STS420T
			6" - 42"	✓	✓	✓	Model STS420T (316 SS)		
		3" - 54"	3" - 54"	✓	✓	✓	JCM Industries		Model 6438
			3" - 54"	✓	✓	✓			Model 438
			2" - 12"	✓	✓	✓			Model 502
		4" - 12"	4" - 12"	✓	✓	✓	Ford Meter Box Co.		202B (DI and AC only)
			4" - 12"	✓	✓	✓			202BS
			4" - 30"	✓	✓	✓			202BSD
			2" - 12"	✓	✓	✓			FS313-xxx-TAP-MAN
			4" - 18"	✓	✓	✓			FS323-xxx-TAP-MAN
			20" - 30"	✓	✓	✓			FS333-xxx-TAP-MAN
			2" - 12"	✓	✓	✓			FS313-xxx-TAP-EPDM
			4" - 18"	✓	✓	✓			FS323-xxx-TAP-EPDM
			20" - 30"	✓	✓	✓			FS333-xxx-TAP-EPDM

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes		
Jack and Bore Devices	Casing Spacers	Metallic	✓	✓	✓	BWM Company	Model BWM-SS-8	<p>Metallic Casing Spacers: Bolts, nuts, and washers shall be 316 SS Shell/band shall be min. 14 gauge 304 SS Risers shall be min. 10 gauge 304 SS Each shell section shall have a hardness of Durometer "A" 85-90 and be lined with a min. thickness of 0.090" of ribbed PVC extrusion, EPDM, glass reinforced polymer, or ultra high molecular weight polyethylene.</p>		
			✓	✓	✓		Model BWM-SS-12			
			✓	✓	✓	Advanced Products & Systems, Inc.	Model SS18			
			✓	✓	✓		Model SS12			
			✓	✓	✓	CCI Pipeline Systems	Model CSS-8			
			✓	✓	✓		Model CSS-12			
			✓	✓	✓	Cascade Waterworks	Series CCS 8"			
			✓	✓	✓		Series CCS 12"			
			Non-Metallic	✓	✓	✓	RACI Products		-	<p>Non-Metallic Casing Spacers: Shall be constructed of non-metallic virgin polypropylene or HDPE Shall be sized/spaced per manufacturer's recommendations</p>
				✓	✓	✓	GPT Industries		Ranger II	
	End Seals			✓	✓	✓	BWM Company	Model BWM-PO	<p>Shell/band shall be min. 14 gauge 304 SS</p> <p><u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242.</p> <p>Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p>	
				✓	✓	✓		Model BWM-WR		
				✓	✓	✓	Advanced Products & Systems, Inc.	Model AC		
				✓	✓	✓		Model AM		
				✓	✓	✓		Model AZ		
				✓	✓	✓		Model AW		
				✓	✓	✓	CCI Pipeline Systems	Model ESC		
				✓	✓	✓		Model ESW		
✓				✓	✓	Cascade Waterworks	Model CCES			
✓				✓	✓	GPT Industries Products	-			



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Asset Protection/Locators	Tracer Wire	✓	✓	✓		Proline Safety	Pro-Trace HF-CSS	To be used for <u>open cut installations</u> Solid #10 gauge, high strength, copper clad steel wire (Min. 448 PSI break load) Min. 30-mils polyethylene insulation Color coded blue for water, purple for reclaimed water, or green for sanitary sewer	
		✓	✓	✓		Copperhead Industries	1030-HS		
		✓	✓	✓		Proline Safety	Pro-Trace HDD-CSS		
		✓	✓	✓		Copperhead Industries	1045-EHS		
	Tracer Wire Connection	✓	✓	✓		Dryconn	King 6 Blue	-	
		✓	✓	✓			Direct Bury Lug Aqua		
	Tracer Wire Boxes	Non-traffic rated	✓	✓	✓	Copperhead Industries	Model LD14*TP	Shaft size shall be min. 2-1/2" I.D. and 15" length Rim shall be ABS plastic with cast iron lid	
			✓	✓	✓	Bingham & Taylor	Model P202CNG		
		Traffic-rated	✓	✓	✓	Copperhead Industries	Model RB14*TP		Tracer wire box shall be encased in a 6" concrete square, 6" in depth Shaft size shall be min. 2-1/2" I.D. and 14-1/2" length Rim and lid shall be cast iron
			✓	✓	✓	Bingham & Taylor	Model P2B202CNGHVY15SPB		
	Path Marking Tape	Electronic	✓	✓	✓	3M	Series 7600XR	All underground pipe shall have electronically detectable path marking tape made of polyethylene, minimum 6" wide and 6 mm thick The tape shall have embedded detectable markers spaced every 8 feet along the warning tape The tape shall be color coded blue for potable water, purple for reclaimed water, or green for sanitary sewer Shall be marked "CAUTION _____ LINE BURIED BELOW"	
	Polyethylene Encasement Tubing	✓	✓	✓		T. Christy's Enterprises	-	Shall be min. 8 mil thick, low density polyethylene tubing conforming to AWWA C105 Shall be color coded blue for potable water, purple for reclaimed water, and green for sanitary sewer	
✓		✓	✓		AA Thread	-			
✓		✓	✓		Trumbull	-			

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Category		Submittal	Portable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
		✓	✓	✓	✓			
Valve Boxes	Valve Boxes and Lid Assembly	✓	✓	✓	✓	Pro Select	Series PSVB 461 - 664	<p style="text-align: center;">Assembly shall be cast iron, screw type boxes & lids Alternatively, HDPE boxes shall be two-piece adjustable, min. 1/4-inch thick wall, w/ cast iron lid Bottom Barrel shall be 5-1/4 inches inside diameter, with a flanged bottom Lids shall have color coded tops with the lettering "WATER" or "SEWER"</p> <p style="text-align: center;">Roadway Applications: Shall use heavy duty, min. 24 lbs cast iron drop-type lid</p> <p style="text-align: center;">Reclaimed Water: Shall have square 9" x 9" lid labeled "Reclaimed Water" Shall be colored purple</p>
		✓	✓	✓	✓	Tyler Union	Series 6500/6850/6860	
		✓	✓	✓	✓	East Jordan Company Products	Series 8550	
		✓	✓	✓	✓		6800045 (Roadway)	
		✓	✓	✓	✓		6800073 (Roadway)	
		✓	✓	✓	✓	Sigma Corp./Russell Pipe Company Products	Series VB261 - VB268	
		✓	✓	✓	✓		Series VB630	
		✓	✓	✓	✓	Star Pipe Products	Series VB-0001/VB-0002	
		✓	✓	✓	✓		Series VB-0005/VB-0006	
		✓	✓	✓	✓		Series VB-0023	
	✓	✓	✓	✓	American Flow Control	Trench Adapter		
Box Alignment Rings		✓	✓	✓	✓	Boxlok Products	Model 3 & 4	Contractor is responsible for verifying alignment ring model number will properly fit valve model
Air Release Valve Enclosure		✓	✓	✓	✓	Allied Molded Products	ARVC-2439	All enclosures shall comply with Manatee County standard detail for shape and size 24" square by 39" tall fiberglass enclosure with a hasp for a padlock Shall have polyester infused aggregate protective coating color coded per application
Service Lateral Clean Out Lid		✓	✓	✓	✓	US Foundry	USF 7621	Clean out lid shall have the letter "S" engraved and pick holes
Meter Boxes		✓	✓	✓	✓	SIP Industries	6423-WNL	Non-locking, colored blue for potable water
		✓	✓	✓	✓		6423-WL	Locking, colored blue for potable water
		✓	✓	✓	✓		6423-RWNL	Non-locking, colored purple for reclaimed water
		✓	✓	✓	✓		6423-RWL	Locking, colored purple for reclaimed water
Meter Resetters		✓	✓	✓	✓	Ford Meter Box Co.	VB 42-7W (5/8" X 3/4")	<p style="text-align: center;">Shall conform to AWWA C800 Meter resetters shall have padlock wing on angle ball valve Riser Height shall be 7 inch</p>
		✓	✓	✓	✓		VB 43-7W (3/4")	
		✓	✓	✓	✓		VB 44-7W (1")	
		✓	✓	✓	✓	A.Y. McDonald	718-207WX (5/8" X 3/4")	
		✓	✓	✓	✓	Mueller Co.	B-24118	
Water Sample Stations		✓	✓	✓	✓	Safety Guard	Model B.O.S.S.	Bacteriological sample station with built in flush system Shall be installed with UV-protected enclosure

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Manholes	Precast Polymer Concrete Manholes				✓	US Composite Pipe	-	<p style="text-align: center;"><u>Manholes shall be made of precast polymer concrete in the following applications:</u></p> <ul style="list-style-type: none"> • Manholes receiving force main flow and the next two (2) downstream manholes • Manholes upstream of a lift station (Refer to Manatee County Public Works Utility Standards detail US-17A) • Manholes that have turbulent opposing flows (Refer to Manatee County Public Works Utility Standards detail US-3) <ul style="list-style-type: none"> • Manholes with 12-inch and greater gravity sewer pipes • Outside drop manholes <p style="text-align: center;">Refer to Manatee County Public Works Utility Standards Section 1.13 for details</p> <p style="text-align: center;">Manholes shall be furnished with an approved heavy duty composite frame & lid Frame & lid shall have min. three (3) 316 SS locking bolts Refer to Frame & Lids section of this Approved Product List for approved manufacturers</p>	
					✓	Armorock	-		
	Precast Concrete Manholes				✓	-	-	<p>Precast concrete manholes shall be installed for all applications <u>except</u> where a polymer concrete manhole is required as identified in the Precast Polymer Concrete Manholes section</p> <p style="text-align: center;">Refer to Manatee County Public Works Utility Standards Section 1.12 for details</p> <p style="text-align: center;">Only premade O-ring gaskets shall be allowed for joint connection Ramnek or similar products shall not be an acceptable method of joint connection</p>	
	Flexible Pipe Connectors		Cast-In Boot (New Construction Only)			✓	A-Lok Products	Z-Lok	Must meet ASTM C923
						✓	Trelleborg	Series 706	<p style="text-align: center;"><u>Contractor shall grout the annular space between the pipe and wall penetration per manufacturer's recommendations with the following:</u></p> <p style="text-align: center;"><u>Polymer Concrete Manholes:</u> Sauereisen 165/Sikadur 42 Epoxy/ArmorRock Grout <u>Precast Concrete Manholes:</u> Avanti Multi-Grout AV-202/AV-118</p> <p style="text-align: center;"><u>Cast-In Boot:</u> Shall have external take down clamp and hardware made of 316 SS</p> <p style="text-align: center;"><u>Jack-In Boot:</u> Shall have external take down clamp and hardware made of 316 SS Shall have internal expansion band and hardware made of min. 304 SS</p>
					✓	Press-Seal Corp.	Cast-A-Seal Series		
			Jack-In Boot (Existing Construction Only)			✓	Trelleborg	Kor-N-Seal Series 106/206/406	
						✓	Press-Seal Corp.	PSX Direct Drive	
						✓	Hamilton Kent	Tylox MIB Series	
	Rainwater Inserts		Stainless Steel			✓	SSI Sealing Systems	304 SS	
					✓	Rowland	InflowShield		
Plastic					✓	USSI	TPO Inflow Defender Max		

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Manholes	Frame & Lids	Standard			✓	U.S. Foundry	USF 170-CE-1	Shall be used for <u>precast concrete manholes</u> Lids be marked with the letters: "MANATEE COUNTY", "SANITARY SEWER", AND "YEAR"	
		Rim Elevation below Floodplain			✓	U.S. Foundry	USF 170-CE-BWT	Shall be used for <u>precast concrete manholes with lids that are located at less than the flood plain elevations</u> as specified in the Manatee County Public Works Utility Standards Section 1.12.12 Shall have gasketed seals Shall have min. three (3) 316 SS locking bolts	
		ARV Manholes with < 44" From Top of Pipe to Cover	✓	✓	✓	Pamrex	Pamtight		
			✓	✓	✓	Pamrex	Pamrex 32"	Shall be used for <u>ARV hinged manholes with less than 44" from top of pipe to cover</u> In roadways, the lid shall open in the direction opposite of incoming traffic	
		Heavy Duty Composite	✓	✓	✓	U.S. Foundry	USF 324-UT-LOC		
					Composite Access Products	CAP ONE	Shall be used with all <u>precast polymer concrete manholes</u> Must have "MANATEE COUNTY", "SANITARY SEWER", AND "YEAR" formed/molded Shall have min. three (3) 316 SS locking bolts		
					Trumbull	Model 367			
				Aquatechnology Group	ATG-2400				
	Grade Adjustment Ring Adhesives					✓	Henry	Ram-Nek RN101	Butyl rubber sealant strips shall be used to seal grade adjustment rings to manhole cone Min. 3" wide x 1/2" thick
						✓	Martin Asphalt	Evergrip 990	
	External Joint Wrap	Heat Shrink-Wrap				✓	GPT Industries	Riser-Wrap	To be used on Bell and Spigot or Tongue and Groove Smooth Wall Manhole Joints: A min. of eighteen (18) inches wide heat shrinkable joint wrap shall be centered over all new manhole joints including chimney to manhole frame section
						✓	CCI Pipeline Systems	WrapidSeal	
		Non-Shrink Wrap				✓	GPT Industries	Boa-Tape	To be used on all Tongue and Groove Smooth Wall Manhole Joints: A min. of twelve (12) inches wide elastomeric plastic joint wrap shall be centered over all new and existing manhole joints including chimney to manhole frame section
					✓	Henry	Rubr-Nek RU116		
	Polymer Grout					✓	Armorock	ArmorRock Grout	Non-shrink, polymer grout shall be used for grouting applications in precast polymer concrete manholes including wall penetrations and adjusting benches
					✓	Sauereisen	No. 165		
					✓	Sikadur	No. 42		
Grout					✓	Avanti	Multi-Grout AV-202/AV-118	Shall be used for grouting applications in precast concrete manholes including wall penetrations and adjusting benches	
Internal Joint Sealants	Bell and Spigot Manhole Joints				✓	Henry	Ram-Nek RN101	Butyl rubber sealant strips shall be applied to the interior of bell and spigot manhole joints per manufacturer's recommendations Min. 3" wide x 1/2" thick	
					✓	Martin Asphalt	Evergrip 990		
					✓	ConSeal	CS102		
	Tongue and Groove Smooth Wall Manhole Joints				✓	Chemlink	M-1	A bead of sealant shall be applied to the interior of tongue and groove smooth wall manhole joints per manufacturer's recommendations Min. 3/4" wide x 1/2" thick	
				✓	Adeka	UltraSeal P-201			
Protective Liners (Rehabilitation)					✓	Raven Lining Systems	Raven 405	Liners shall only be used with written approval from Manatee County to rehabilitate existing manhole concrete surfaces Liners shall be installed per manufacturer's recommendations	
					✓	GML Coatings	Green Monster		

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes		
Electrical	Site Lighting				✓	Regent	Model EQ300M1	Min. 6000 lumens LED		
	Level Switches and Sensors				✓	MDI Products	-	Float switch		
					✓	Connery Manufacturing	-	Float switch		
					✓	Dylix	Model GXS3-PP300-A49-B49-50-C01-D49	Pressure transmitter mounted inside a stilling well acting as the primary level sensor For pump stations that re-pump sewage flows from other pump stations		
Flow Meters				✓	McCrometer	Ultra Mag Model UM06	Shall be used for lift stations that re-pump sewage flows (directly or indirectly) from other lift stations			
Lift Stations	Submersible Pumps	Satellite			✓	ABS	-	Refer to Manatee County Public Works Utility Standards Section 1.14 for details Pumps shall have oil-filled cooling system		
					✓	Barnes	-			
					✓	Crane	Sithe Series			
					✓	Hydromatic	-			
		Master			✓	Hydromatic				
					✓	Flygt	-			
	Mechanical	Pumps			✓	Godwin Pumps	-		Refer to Manatee County Public Works Utility Standards Section 1.14.14 for details	
			Cooling System Fluid			✓	Prestone Products		-	
					✓	Zerex Products	-			
		Diesel Backup Pumps			✓	Carboline	Bitumastic 300M		Pump/Engine enclosures shall have a coal tar epoxy coating, min. 16 mils DFT, for all metal surfaces coming in contact with concrete or grout	
			Protective Coating			✓	Tnemec		46H-413	Alternatively, a 1/32-inch neoprene gasket between any metal surface and the concrete or masonry shall be used. Gasket shall be installed along the entire perimeter of the metallic surface, not just the fastening hardware.
						✓	Sherwin Williams		SherGlass FF	Fuel tank/skid base shall have haze grey, two coats of min. 12-15 mils DFT on top of a stripe coat over all welds, crevices, edges and sharp angles



UTILITY APPROVED PRODUCT LIST

FEBRUARY 2020

Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Lift Stations	Structural	Lift Station Wetwell			✓	US Composite Pipe	-	All lift station wetwells shall be made of precast polymer concrete Refer to Manatee County Public Works Utility Standards Section 1.13 for details
					✓	Armorock	-	
		Drop Bowl			✓	Reliner/Duran Products	-	If required, shall be installed per Manatee County Standard Details
		Wall Penetration Seals			✓	GPT Industries	Link-Seal Model S-316	All hardware shall be 316 SS
					✓	CCI Pipeline Systems	Wrap-IT Link WL-SS Series	
					✓	Proco Products	PenSeal ES Series (Standard)	
		Horizontal Support Channels (For Control Panels Only)			✓	Unistrut Products	-	Min. 1-5/8", 12 gauge solid min. 304 SS channels, attached with 3/8" min. 304 SS all thread rod with min. 304 SS flat washers and nuts Refer to Manatee County Public Works Utility Standards details
					✓	BLine Products	-	
		U-Bolt Clamps			✓	ZSI Inc.	Alpha Series	Riser pipes shall be attached to riser pipe brackets by cushioned 316 stainless steel U-bolt clamps and nylon insert locknuts Thermoplastic cushion shall be resistant to Hydrogen Sulfide gas
		Pump Mounting Systems			✓	Barney's Pumps	-	All systems shall be of the front loading slide rail type BPIU All rail and mounting hardware shall be 316 SS
Lift Station Towers			✓	Rohn	Series RG-45	For heights above 20 feet		
Aluminum Access Covers			✓	U.S. Foundry Products	-	Shall be aluminum have min. load rating of 300 PSF All hardware, hinges, and locking hasp shall be 316 SS Covers shall be equipped with a locking staple or bar for use with a padlock Shall have 2 coats of bitumastic epoxy, 16 mils DFT For Duplex Stations: 4" Base Elbow Wetwell: hatch shall be minimum 36" x 48" 6" Base Elbow Wetwell (8' Dia. Wetwell): hatch shall be minimum 42" x 60"		
			✓	Bilco Products	-			
			✓	Halliday Products	-			

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.

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Lift Stations	Surface Protection	Protective Insert Liners			✓	GU Florida	FRP GU Liner	<p style="text-align: center;">Liners shall only be used with written approval from Manatee County Liners shall be installed per manufacturer's recommendations</p> <p style="text-align: center;">Sealant, adhesive, and bonding agent products shall be compatible with liner material</p>
					✓	AGRU	HDPE Sure Grip Liner	
		Protective Liners (Rehabilitation)			✓	Raven Lining Systems	Raven 405	<p style="text-align: center;">Liners shall only be used with prior written approval from Manatee County to rehabilitate existing lift station concrete surfaces Liners shall be installed per manufacturer's recommendations</p>
					✓	GML Coatings	Green Monster	
					✓	CCI Spectrum	SpectraShield	
					✓	Sauereisen Products	210T & 210GL (MC Light Brown Formula)	
		Polymer Grout			✓	Armorock	ArmorRock Grout	<p style="text-align: center;">Non-shrink, polymer grout shall be used for grouting applications in polymer concrete lift stations including wall penetrations</p>
					✓	Sauereisen	No. 165	
					✓	Sikadur	No. 42	
	Grout Applications				✓	Avanti	Multi-Grout AV-202/AV-118	<p style="text-align: center;">Shall be used for grouting applications in precast concrete lift stations including wall penetrations</p>
	Coating	Valve Vault Interior			✓	Tnemec	Series 69 Hi-Build Epoxy Coating	<p style="text-align: center;">Interior surfaces of existing vaults shall have two (2) coats of min. 8 mils DFT each</p>
		Exposed Concrete			✓	FLR Paints, Inc.	H&C Silicone Acrylic Concrete Stain, Patio Green	<p style="text-align: center;">Exterior surfaces of valve vaults, wetwells, and valve assembly pads exposed above grade shall have at least two (2) coats of min. 8 mils DFT each</p>
		Exposed Valve Assembly			✓	Rustoleum	Series 7538	<p style="text-align: center;">Aboveground valve assembly & piping shall be painted Hunter Green per manufacturer's recommendations</p>
	Internal Joint Sealants	Bell and Spigot Wetwell Joints			✓	Henry	Ram-Nek RN101	<p style="text-align: center;">Butyl rubber sealant strips shall be applied to the interior of bell and spigot wetwell joints per manufacturer's recommendations Min. 3" wide x 1/2" thick</p>
					✓	Martin Asphalt	Evergrip 990	
				✓	ConSeal	CS102		
Tongue and Groove Smooth Wall Wetwell Joints				✓	Chemlink	M-1	<p style="text-align: center;">A bead of sealant shall be applied to the interior of tongue and groove smooth wall wetwell joints per manufacturer's recommendations Min. 3/4" wide x 1/2" thick</p>	
				✓	Adeka	UltraSeal P-201		