FLORIDA SALES: 85-8013708974C-0 FEDERAL SALES/USE: 59-6000856 Board of County Commissioners PURCHASE ORDER

ALL PACKING SLIPS INVOICES AND CORRESPONDENCE MUST REFER TO THIS ORDER NUMBER

52964

ORDER NUMBER:

ORDER DATE	04/18/2023
REQUISITION	68600 - OR
REQUESTOR	Rivera, Yari
VENDOR#	401265
ANALYST	GREEN, MARIA

S H T I O P

R

ENVIRONMENTAL SERVICES/UTILITIES 500 W. LAKE MARY BLVD SANFORD FL 32773 SEMINOLE COUNTY
FLORENS NATURAL CHOICE

DANUS UTILITIES INC
2320 BEARDALL AVE
SANFORD FL 32771

EMERGENCY PURCHASE ORDER

MAILED

SUBMIT ALL INVOICES TO:
AP@seminoleclerk.org
Seminole County Clerk & Comptroller
POST OFFICE BOX 8080
SANFORD, FL 32772

Accts. Payable Inquiries - Phone (407) 665 7656

ORDER INQUIRIES Yari Rivera 407 665-2150	APR 2 1 2023	
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ITEM#	QTY	UNIT	ITEM DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.00		EA	MISCELLANEOUS REPAIRS-CIP-EPO PUMP STATION NE018 Please reference proposal dated 3/29/2023. MAG 02308029.530460	0.00	115,000.00

THIS ORDER IS SUBJECT TO THE TERMS & CONDITIONS ON THE REVERSE SIDE OF THIS ORDER.

TOTAL AMOUNT

115,000.00

PURCHASING AND CONTRACT DIVISION 1301 EAST SECOND STREET SANFORD FLORIDA 32771 PHONE (407) 665-7116 / FAX (407) 665-7956

AUTHORIZED SIGNATURE FOR THE SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

FLORIDA SALES: 85-8013708974C-0 FEDERAL SALES/USE: 59-6000856

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ENVIRONMENTAL SERVICES/UTILITIES

500 W. LAKE MARY BLVD SANFORD FL 32773

DANUS UTILITIES INC 3725 DELPHINI PARK LANE SANFORD FL 32771

Board of County Commissioners PURCHASE ORDER



EMAILED

APR 1 8 2023

ORDER NUMBER:

52964

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Accts. Payable Inquiries - Phone (407) 665 7656

INQUIRIES TAIT TOTAL TOT
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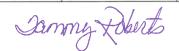
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TOTAL AMOUNT

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PURCHASING AND CONTRACT DIVISION 1301 EAST SECOND STREET SANFORD FLORIDA 32771 PHONE (407) 665-7116 / FAX (407) 665-7956



Terms and Conditions

- 1. Acceptance/Entire Agreement. This Purchase Order ("PO") is entered into between Seminole County, Florida ("County") and the Supplier referenced herein (individually, referred to as "Party," and collectively, "Parties"). By accepting this PO, Supplier accepts all Terms and Conditions contained herein. This PO, including specifications and drawings, if any, and referenced documents, such as solicitations and responses constitutes the entire agreement between the Parties. Whenever terms and conditions of Main Agreement, if any, conflict with any PO issued pursuant to Main Agreement, Main Agreement will control.
- 2. Inspection. Notwithstanding any prior payment or inspection, all goods/services are subject to inspection/rejection by County at any time, including during manufacture, construction or preparation. To the extent a PO requires a series of performances by Supplier, County reserves right cancel remainder of PO if goods/services provided during the term of PO are non-conforming or otherwise rejected. Without limiting any rights County may have, County, at its sole option, may require Supplier, at Supplier's expense to: (a) promptly repair or replace any or all rejected goods, or to cure or reperform any or all rejected services; or (b) refund price of any or all rejected goods or services. All rejected goods will be held for Supplier's prompt inspection at Supplier's risk. Nothing contained in PO will relieve Supplier's obligation of testing, inspection and quality control.
- 3. Packing & Shipping. Unless otherwise specified, all goods must be packed, packaged, marked and prepared for shipment in a manner that is: (a) in accordance with good commercial practice; (b) acceptable to common carriers for shipment at the lowest rate for the particular good; (c) in accordance with local, state, and federal regulations; and (d) protected against weather. Supplier must mark all containers with necessary lifting, handling, shipping information, PO number, date of shipment and the name of the consignee and consignor. An itemized packing sheet must accompany each shipment.
- 4. Delivery; Risk of Loss. All goods are FOB destination, and risk of loss will remain with Supplier until delivery by Supplier and acceptance by County. Goods delivered by Supplier that are damaged, defective, or otherwise fail to conform to PO may be rejected by County or held by County at Supplier's risk and expense. County may charge Supplier for cost(s) to inspect, unpack, repack, store and re-ship rejected goods.
- 5. Delivery of Excess Quantities. If Supplier delivers excess quantities of goods without prior written authorization from County, excess quantities of goods may be returned to Supplier at Supplier's expense.
- 6. Time is of the Essence. Time is of the essence for delivery of goods /services under PO. Failure to meet delivery schedules or deliver within a reasonable time, as determined by County, entitles County to seek all remedies available at law or in equity. County reserves right to cancel any PO and procure goods/services elsewhere if delivery is not timely. Supplier agrees to reimburse County for all costs incurred in enforcing its rights. Failure of County to cancel PO, acceptance, or payment will not be deemed a waiver of County's right to cancel remainder of PO. Delivery date or time in PO may be extended if Supplier provides a written request in advance of originally scheduled delivery date and time and County agrees to delayed delivery in writing prior to originally scheduled delivery date and time.
- 7. Warranties. Supplier warrants to County that all goods/services covered by PO conform strictly to specifications, drawings or samples specified or furnished by County, and are free from: (a) defects in title; and (b) latent or patent defects in material or workmanship. If no quality is specified by County, Supplier warrants to County that goods/services are of the best grade of their respective kinds, meet or exceed applicable standards for industry represented, are merchantable (as to goods) and are fit for County's particular purpose. Supplier warrants that at the time County accepts the goods/services, the goods/services will have been produced, sold, delivered and furnished in strict compliance with all applicable federal and state laws, regulations, ordinances, rules, labor agreements and working conditions to which goods/services are subject. Supplier warrants the title to goods furnished under PO is valid, transfer of such title to County is rightful and goods are free of any claims or liens of any nature whatsoever, whether rightful or otherwise, of any person, corporation, partnership or association. All applicable manufacturers' warranties must be furnished to County at time of delivery of goods or completion of service. All warranties are cumulative and are in addition to any other express or implied warranties provided by
- 8. Indemnification. To the fullest extent permitted by law, Supplier assumes any and all liability for damages, breach of PO, loss or injury of any kind or nature whatsoever to persons or property caused by, resulting from or related to the goods/services provided under PO. To the fullest extent permitted by law, Supplier shall indemnify and hold harmless County, its commissioners, officers, employees and agents from and against any and all claims, damages, demands, lawsuits, losses, costs and expenses, including attorneys' fees, patent, copyright or trademark infringement, judgments, decrees of whatsoever nature which County may incur as a result of claims, demands, lawsuits or causes of action of any kind or nature arising from, caused by or related to goods/services furnished by Supplier, Its officers, employees, agents, partners, principals or subcontractors. Remedies afforded to County by this section are cumulative with and in no way affect any other legal remedy County may have under PO or at law. Supplier's

- obligations under PO must not be limited by any insurance coverage or by any provision in or exclusion or omission from any policy of insurance.
- 9. Insurance. Supplier, at its sole expense, shall maintain insurance coverage acceptable to County. All policies must name County as an additional insured. All Insurance Certificates must be provided to the Purchasing and Contracts Division within ten (10) days of request. Supplier shall notify County, in writing, of any cancellation, material change, or alteration to Supplier's Certificate of Insurance.
- 10. Modifications. PO may be modified or rescinded in writing by County.
- 11. Material Safety Data Sheets. At time of delivery, Supplier agrees to provide County with a current Material Safety Data Sheet for any hazardous chemicals or toxic substances, as required by law.
- 12. Pricing. Supplier agrees that pricing included on PO shall remain firm through and until delivery of goods and/or completion of services, unless otherwise agreed to by the Parties in writing.
- 13. Invoicing & Payment. After delivery of goods/services by Supplier and acceptance by the County, the Supplier must electronically submit an original invoice via email to AP@seminoleclerk.org or may mail the invoice, if electronic invoice is not available, to: Seminole County Clerk of the Circuit Court and Comptroller, P.O. Box 8080, Sanford, Florida 32772. Invoices must be billed at pricing stipulated on PO and must include the County's Purchase Order Number. Thereafter, all payments and interest on any late payments will be paid in compliance with Florida Prompt Payment Act, §218. 70, Florida Statutes.
- 14. Taxes. County is exempt from Florida sales tax, federal taxes on transportation charges and any federal excise tax. County will not reimburse Supplier for taxes paid.
- 15. Termination. County may terminate PO, in whole or in part, at any time, either for County's convenience or because of Supplier's failure to fulfill its obligations under PO, by written notice to Supplier. Upon receipt of written notice, Supplier must discontinue all deliveries affected unless written notice directs otherwise. In the event of termination, County will be liable only for materials procured, work completed or services rendered or supplies partially fabricated, within the authorization of PO. In no event will County be liable for incidental or consequential damages by reason of such termination.
- 16. Equal Opportunity Employer. County is an Equal Employment Opportunity ("EEO") employer, and as such, requires all Suppliers to comply with EEO regulations with regards to race, color, religion, sex, national origin, age, disability or genetic information, as may be applicable to Supplier. Any subcontracts entered into, as authorized by County, must make reference to this clause with the same degree of application being encouraged.
- 17. Assignment. Supplier may not assign, transfer, or subcontract PO or any right or obligation under it without County's written consent. Any purported assignment, transfer, or subcontract will be null and void.
- 18. Venue & Applicable Law. The laws of the State of Florida govern validity, enforcement, and interpretation of PO. The sole jurisdiction and venue for any legal action in connection with PO will be in the courts of Seminole County, Florida.
- 19. Fiscal Non-Funding. In the event sufficient budgeted funds are not available for payment to Supplier for a new fiscal period, County shall notify Supplier of such occurrence and PO will terminate on the last day of the current fiscal period without penalty or expense to County.
- 20. Public Records. Supplier acknowledges that PO and any related financial records, audits, reports, plans, correspondence and other documents may be subject to disclosure to members of the public pursuant to Chapter 119, Florida Statutes. Supplier shall maintain all public records and, upon request, provide a copy of requested records or allow records to be inspected within a reasonable time. Supplier shall also ensure that any public records that are exempt or confidential from disclosure are not disclosed except as authorized by law. In event Supplier fails to abide by provisions of Chapter 119, Florida Statutes, County may, without prejudice to any other right or remedy and after giving Supplier seven (7) days written notice, during which period Supplier still fails to allow access to such documents, terminate PO. IF SUPPLIER HAS QUESTIONS REGARDING APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO SUPPLIER' S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO PO, CONTACT RECORDS **PUBLIC** 407-665-7116. CUSTODIAN OF AT: PURCH@SEMINOLECOUNTYFL.GOV, PURCHASING AND CONTRACTS **DIVISION, 1301 E. SECOND STREET, SANFORD, FL 32771.**
- 21. Right to Audit Records. County will be entitled to audit the books and records of Supplier to the extent that the books and records relate to this PO. Supplier must maintain books and records relating to this PO for a period of three (3) years from the date of final payment under the PO, unless the County authorizes otherwise in writing.
- 22. Severability. If any section, sentence, clause, phrase or portion of PO are, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion will be deemed separate, distinct, and independent and such holding will not affect validity of remaining portion of PO.
- 23. Headings & Captions. All headings and captions contained in PO are provided for convenience only, do not constitute a part of PO, and may not be used to define, describe, interpret or construe any provision of PO. Rev. 10/2021

Purchase Requisition

PURCHASING AND CONTRACTS DIVISION

SEMINOLE COUNTY GOVERNMENT

1301 EAST SECOND STREET

SANFORD, FL 32771-1468

OFFICE(407) 665-7116

FAX (407) 665-7956

4/18/2023

Page -

Order Number

68600 000 OR

Shipped From

DANUS UTILITIES INC

3725 DELPHINI PARK LANE

SANFORD FL 32771

Branch Plant 087802

VendorNo

401265

Ship To 211358

Delivery:		
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52964

Line Rev	Description	Ordered	UOM	Unit Price	Extended Price	Order No
1.000 0 MIS	SCELLANEOUSREPAIRS-CIP		EA	.0000	115,000.00	
EPO PUMP STA	TIONNE018				02308029.530460	
4609999905						
					115,000.00	*** Total Or

Purchasing Agent:



2320 Beardall Ave, Sanford, FL 32771
P.O. BOX 291671, Port Orange, FL 32129
(386) 894-0068

State License # CUC 1224744

3/29/23
Danus utilities

Seminole County
LS NE018

Pay Item	Description	Unit	Est. Qty	Unit Price	Extended Cost
No	General	For			31 1-12-21
FE II	Mobilization	Each	1	\$2,000.00	\$2,000.00
1	Management of the Control of the Con	Days	15	\$500.00	\$7,500.00
2	Bypass Pumping	1536	The St	All a little	
3	Removal of Existing Components Removal and return of existing submersible pumps. Removal and disposal of existing base elbow, and guide rails. Removal and disposal of existing discharge pipe, from base elbow up to check valves. Removal and disposals of existing check valves.	Each	1	\$15,000.00	\$15,000 00
100	Installation of New and Stored Existing Components		F-590-3	Team 1000 00	\$32,000 00
4	Reconstruct filets and leveling course. Preparation and application of new high build epoxy wet well coating, Raven AO5 or equivalent. Install new base elbows, base plates, guide rails. Install new 4"316SS SCH40 discharge piping, from base elbow up to in vault check valve, including SS bends. Install new 4" AWWA C508 swing check valves. Preparation and recoating of existing valve vault ductile iron pipes.	Each	1	\$32,000 00	332,000 00
	Restorations to existing or better condition.	Each	1	\$56,000.00	\$50,000.00
5	Install new submersible pumps	Each	1	\$2,500.00	\$2,500.00
6	Startup	-	-	Total	5115.000.00

Seminole County Public Works Department
Seminole County Environmental Services Department

SEMINOLE COUNTY - PURCHASING AND CONTRACTS DIVISION EMERGENCY PURCHASE DATA SHEET

Date Requested: 4/13/2023		Requisition	1 No.:		
Requestor: Matthew Clark, Senior Engineer		Tele	phone/E	Ext.: x211	8
Department/Division: Environmental Services	s/Utilities Engineering - On	Behalf of Public Works	/Facilities M	lanagement	
Describe the Emergency: The County own					
or corrective maintenance. In its current condition, the pur immediate consequences to critical county facilities, as it s					
	· · · · · · · · · · · · · · · · · · ·				
This pump station is a Facilities Maintenance asset, bu			ance toward	ds maintainir	ng operations, and
is assisting Facilities Management with project manager	ment of the proposed correc	tive maintenance.			
Does the emergency fit the definition a	as described in Se	ction 220.4?	Yes _	X	No
Describe the harm / impact of the emecause the immediate loss of wastewater service to a la	• •				
sewer overflows" at the Complex, either out of manhol	es, the lift station, or within	buildings. This could of	ause regula	atory orders	or fines, but more
importantly health and environmental damages.					
Companies contacted and their quote		D: 1 10 1 (0F0 0	00.0400	0 1 1	445 000 00
Company: Danus Utilities	Contact/Phone:	Richard Cook / 352-9	89-0100	Cost: \$	115,000.00
Company: Central Florida Lift Stations (CFL)	Contact/Phone:	Scott Gingerich / 407	-575-0893	Cost: \$	141,370.00
Company: L7 Construction, Inc	Contact/Phone:	Brian Bach / 321-972	-9325	Cost: \$	345,227.00
Approval from the Department Req	uesting Emergen	<u>cy:</u>			
Requesting Division Manager Signatu			7/2023		
Requesting Department Director Sign	ature:	4/	14/2023		
Purchasing and Contracts Division	Approval:				
Purchasing Review and Approval:			Date:	:	
Purchase Order No.:	Amount	of Purchase: \$			

ENVIRONMENTAL SERVICES DEPARTMENT



March 30th, 2023

To: Kim Ornberg, PE

Director, Seminole County Environmental Services Department (SCESD)

From: Matthew Clark, PE, Engineer, SCESD

CC: William "Johnny" Edwards, PE, Deputy Director, SCESD

William K. White, PE, Utility Engineering Division Manager, SCESD

Elisa Williams, Utility Operations Division Manager, SCESD

Paul Zimmerman, PE, Chief Engineer, SCESD

RE: NE018 Five Points Lift Station – Summary of Quotes and Recommendations

BACKGROUND

The Utility Engineering Division (UE), was tasked by Department leadership to evaluate the "NE018 Five Points" lift station for immediate, short term, renewal and replacement work. NE018 is a County-owned lift station for which Facilities Maintenance (FM) required assistance from Environmental Services (ES) to help manage immediate repairs. Due to the unique responsibility of this lift station, the facilities it serves, the immediate need for services, and UE's experience in such projects, this transmittal has been drafted to summarize the quotes received, and recommended paths forward.

QUOTES

Prior to reaching out to vendors, UE approached Purchasing and Contracts Division (PC) with the proposed route of utilizing one of four preselected South Seminole North Orange County Wastewater Transmission Authority (SSNOCWTA) contractors (RFQ-2020-001, previously transmitted), in a "piggyback" contract fashion. SSNOCWTA holds a unique relationship with the County, as a member of its Board, and since it is tasked under agreement with the maintenance of selected portions of the Authorities system. Therefor the County has great insight in the performance of the Authority's vendors, including those in the proposed piggy-back contract. PC requested that UE attempt to collect at Quotes from all identified contractors.

All four RFQ-2020-001 vendors were contacted for Quotes with a standardized list of needs early March 2023. The standardized list's purpose was to ensure accurate Quotes from all vendors, since a schedule of values is lacking in the current SSNOCWTA RFQ-2020-001 contract. Of the four vendors, three responded with Quotes, the fourth declining to submit a Quote due to current workload. The table below summarizes received Quotes:

Vendor	Quote Total Amount
Central Florida Lift Stations (CFL)	\$141,370.00
Danus Utilities	\$115,000.00
L7 Construction, Inc	\$345,227.00
Prime Construction Group	No Quote

ENVIRONMENTAL SERVICES DEPARTMENT



RECOMMENDATIONS

It is recommended that FM immediately contact Danus Utilities and work with PC to issue an emergency PO. FM should reserve funds in excess, or could reallocate funds, in the event unforeseen complications require changes to the work. A recommended level of funding should be in excess of 15% of the selected Quote.

UE is available to further assist procurement if needed, and to provide oversight of the services. UE also recommends:

- Addressing medium term renewals and replacements at NE018 to ensure the station continues reliable and safe operation until the planned Five Points complex improvements. UE is able to provide assistance towards this.
- Entering a continuing services contract for lift station inspection, maintenance, and repair services. Searches found a sufficient contract available for piggy-back but UE can also prepare a scope of services for FM to solicit if desired.

ATTACHMENTS

- Quotes, "no-quote" Responses
- Vendor Contacts and Communications



Quote – Danus Utilities Recommended Vendor



2320 Beardall Ave, Sanford, FL 32771
P.O. BOX 291671, Port Orange, FL 32129
(386) 894-0068

State License # CUC 1224744

3/29/23
Danus utilities

Seminole County
LS NE018

Pay Item No	Description	Unit	Est. Qty	Unit Price	Extended Cost
	General	Feeb	1 1		111.175.195.44 Fr. 200.00
1	Mobilization	Each	1	\$2,000.00	\$2,000.00
2	Bypass Pumping	Days	15	\$500.00	\$7,500.00
	Removal of Existing Components		2011	1	(H)
3	Removal and return of existing submersible pumps. Removal and disposal of existing base elbow, and guide rails. Removal and disposal of existing discharge pipe, from base elbow up to check valves. Removal and disposals of existing check valves.	Each	1	\$15,000.00	\$15,000.00
	Installation of New and Stored Existing Components	100			701
4	Reconstruct filets and leveling course. Preparation and application of new high build epoxy wet well coating, Raven 405 or equivalent. Install new base elbows, base plates, guide rails. Install new 4"316SS SCH40 discharge piping, from base elbow up to in vault check valve, including SS bends. Install new 4" AWWA C508 swing check valves. Preparation and recoating of existing valve vault ductile iron pipes.	Each	1	\$32,000.00	\$32,000.00
	Restorations to existing or better condition	Each	1	\$56,000.00	\$56,000.00
5	Install new submersible pumps	Each	1	\$2,500.00	\$2,500.00
6	Startup	100		Total	\$115,000.00



Quote – Central Florida Lift Stations (CFL)



CUC1225283 P.O. Box 740179 Orange City, FL 32774-0179 Phone: 407-575-0893

Fax: 386-774-0010

March 28, 2023

Matthew Clark P.E. Seminole County Environmental Services Department 500 W. Lake Mary Blvd. Sanford, FL 32773

Re: NEO 18, Seminole County

Dear Matthew Clark, P.E.,

We are pleased to provide this PROPOSAL for the Central Florida Liftstations, Inc. SCOPE OF WORK, for the project stated above. We propose to furnish and install all necessary materials, labor and equipment for the completion of the installation of lift station for this project. All labor and materials are guaranteed to be as specified and the work to be performed in accordance with the drawings and specifications submitted, and completed in a substantial workman-like manner. Proposal is based on providing merit shop craftsmen working a 40-hour work week, Monday through Friday between the hours of 8:00 AM to 4:00 PM.

SCOPE OF WORK

Central Florida Liftstations, Inc. proposes to complete the following scope of work:

- -Job bid per plans and specifications provided to us by your office and as they pertain to this scope of work.
- In the event of a conflict or ambiguity between the plans, specifications or other documents relating to Central Florida Liftstations' obligations under this proposal, this proposal shall take precedence and be controlling, as follows:
 - Remove existing components:
 - o Remove and return submersible pumps.
 - o Remove and dispose of base elbows and guide rails.
 - o Remove and dispose of discharge piping from base elbow to check valves.
 - o Remove and dispose of check valves.
 - To furnish and install:
 - o Fillet and leveling course as needed.
 - o Raven 405 coating on walls, floor and fillet.
 - o (2) new Flygt base elbows, base plates and SS guide rails.
 - o (2) new 316SS SCH40 risers from base elbow to check valve.

- o (2) new flanged check valves.
- o (2) new Flygt pumps.
- o Remove rust and paint remaining ductile iron piping in valve box.
- Provide top slab layout drawings for wet well.
- Core all holes for piping discharge and electrical conduit in field.

PRICE FOR THIS WORK PER SPECIFICATIONS

ITEM 1 (MOB): \$ 5,920.00

ITEM 2 (BYPASS): \$ 22,275.00 ITEM 3 (DEMO): \$ 13,000.00

ITEM 4 (INSTALLATION): \$ 47,175.00 ITEM 5 (PUMP PACKAGE): \$56,500.00

ITEM 6 (STARTUP): \$ 2,500.00

TOTAL: \$ 141,370.00

Estimated time of material, based on date of order and approved submittals:

Mechanical: 12-16 weeks

Pumps: TBD

Any changes may affect pricing. Additional work will be billed separately. Full payment will be due upon completion. One startup trip.

CLARIFICATIONS & EXCLUSIONS

Items that are not show on plans and are not included in this proposal

Generator, Emergency Bypass Pump, Odor Control unit

Items Excluded From This Proposal

- 1. Water, Water Meters, Water Fees, water service and connection to force main.
- 2. Pumps, panel, RTU, rock, fence & driveway.
- 3. Payment Bond & Material and Labor Performance Bond are not included.
- 4. No well pointing, sheet piling, dig boxes or dewatering.

We trust that you will find this proposal to be both attractive and responsive to your needs. If you should have any questions or comments please contact myself at (407) 575-0893 or email me at Scott@CFLiftstations.com.

Respectfully yours,

ACCEPTANCE

This Proposal is in effect for 90 days from the date noted above. We reserve the right to resubmit, amend and or withdraw this proposal based upon our review of the final working construction drawings.

To authorize the work, please sign below and return the signed copy to us. When authorized, we will begin work as soon as weather and previous commitments permit, and/or when a mutually acceptable time is established.

Acceptance of this proposal indicates the costs stated in this proposal, specifications, and conditions are satisfactory and are hereby accepted. Payment will be per terms listed above.

<u>Force Majeure</u>. Neither party shall be liable in damages nor have the right to terminate this Contract for any delay or default in performing hereunder if such delay or default is caused by conditions beyond their control including, but not limited to natural disasters, including but not limited to ground subsidence or upheaval, acts of God, Government restrictions (including the denial or cancellation of any permits, tax incentive, or other license or approvals), covid-19, labor shortage, material delays, wars, insurrections and/or any other cause beyond the reasonable control of the party whose performance is affected. Furthermore, neither party shall be liable for any failure or delay in performance under this Contract to the extent said failures or delays are proximately caused by those causes beyond that party's reasonable control and occurring without its fault or negligence, including, without limitation, failure of suppliers, subcontractors, and carriers, or any other party to substantially meet its performance obligations under this Contract. The party experiencing the difficulty shall give the other prompt written notice, with details following the occurrence of the cause relied upon. Dates by which performance obligations are scheduled to be met will be extended for a period equal to the time lost due to any delay so caused. Contractor's failure to perform any term or condition of this Contract because of conditions beyond its control mentioned herein or other conditions that cause delay, damage, or destruction of its work by others shall not be deemed a breach of this Contract.

<u>Material Escalation</u>. The Contract Price for this Project has been calculated based on the current prices for the component building materials. However, the market for these building materials is considered volatile and sudden price increases could occur. Contractor agrees to use its best efforts to obtain the lowest possible prices from available building material suppliers but should there be an increase in the prices of these materials that are purchased after execution of this Contract for use in this Project, then Owner or General Contractor agrees and shall pay the substantiated cost increase to Contractor. Any request or change order for payment of a cost increase shall state the increased cost, the building materials in question, and the source of supply, supported by invoices or bills of sale.

Authorized Signature:		Date:	
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Pay Item	Description	Unit	Est. Qty	Unit Price	Extended Cost
No	General				
1	Mobilization	To also	1		
2	Bypass Pumping	Each Days	1 15	5,920.00	5,920.00
	Removal of Existing Components	Days	15	1, 485.00	22,275.00
3	Removal and return of existing submersible pumps. Removal and disposal of existing base elbow, and guide rails. Removal and disposal of existing discharge pipe, from base elbow up to check valves. Removal and disposals of existing check valves.	Each	1	13.000.60	13,000.00
	Installation of New and Stored Existing Components				
4	Reconstruct filets and leveling course. Preparation and application of new high build epoxy wet well coating, Raven 405 or equivalent. Install new base elbows, base plates, guide rails. Install new 4"316SS SCH40 discharge piping, from base elbow up to in vault check valve, including SS bends. Install new 4" AWWA C508 swing check valves. Preparation and recoating of existing valve vault ductile iron pipes. Restorations to existing or better condition.	Each	1	41,17500	41,175.00
5	Install new submersible pumps	Each	1	56,500.00	56,500.00
6	Startup	Each	1	2,500.00	2,500.00
NAME OF THE OWNER, WHITE OF				Total	141, 370,00



Quote – L7 Construction, Inc

17 CONSTRUCTION, INC

Pay Item No	Description	Unit	Est. Qty	Unit Price	Extended Cost
	General				
1	Mobilization	Each	1	34,227	34,227
2	Bypass Pumping	Days	15	3,200	48,000
	Removal of Existing Components				
3	Removal and return of existing submersible pumps.	Each	1		
	Removal and disposal of existing base elbow, and guide rails.				
	Removal and disposal of existing discharge pipe, from base elbow up to check valves.				
	Removal and disposals of existing check valves.			18,000	18,000
	Installation of New and Stored Existing Components				
4	Reconstruct filets and leveling course. Preparation and application of new high build	Each	1		
	epoxy wet well coating, Raven 405 or equivalent.				
	Install new base elbows, base plates, guide rails.				
	Install new 4"316SS SCH40 discharge piping, from base elbow up to in vault check				
	valve, including SS bends.				
	Install new 4" AWWA C508 swing check valves.				
	Preparation and recoating of existing valve vault ductile iron pipes.				
	Restorations to existing or better condition.			1/7,000	117,000
5	Install new submersible pumps	Each	1	127,000	127,000
6	Startup	Each	1	1,000	1,000
				Total	345, 227

LEAD TIME to get MATERIALS - TBD



No Quote – Prime Construction Group

Clark, Matthew

From: Mark A. Allen <mallen@primeconstructiongroup.com>

Sent: Tuesday, March 21, 2023 13:42

To: Clark, Matthew Cc: Ramsudh, Rose

Subject: RE: Additional Photos: Repair needs - Piggyback of SSNOCWTA RFP-2020-001

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Matt I spoke with Chase, I will not be able to get you a price for this work.

I've been assigned to other things right now.

Thank you

From: Clark, Matthew <mclark02@seminolecountyfl.gov>

Sent: Tuesday, March 14, 2023 3:00 PM

Cc: Ramsudh, Rose <RRamsudh@seminolecountyfl.gov>

Subject: Additional Photos: Repair needs - Piggyback of SSNOCWTA RFP-2020-001

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please see additional photos attached to aid in your proposal.



Matthew Clark, P.E.

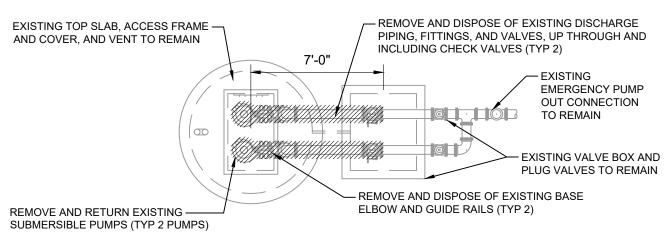
Engineer
Environmental Services Department | Utility Engineering

O: (407) 665-2118 | C: (407) 618-3158 500 W Lake Mary Blvd Sanford, FL 32773 mclark02@seminolecountyfl.gov www.seminolecountyfl.gov

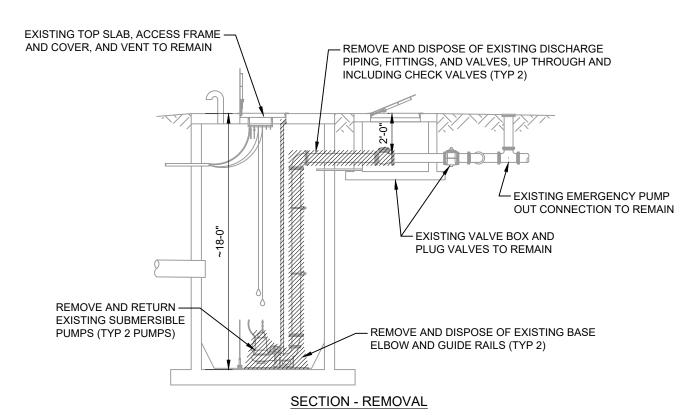
****Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Seminole County policy does not differentiate between personal and business emails. E-mail sent on the County system will be considered public and will only be withheld from disclosure if deemed confidential pursuant to State Law.****



Scope of Services

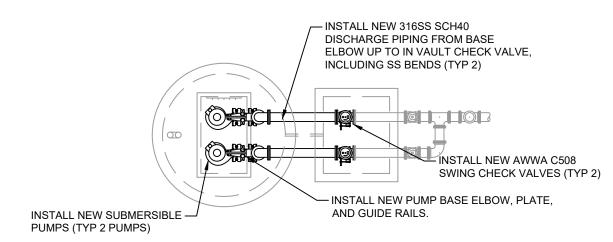


PLAN - REMOVAL

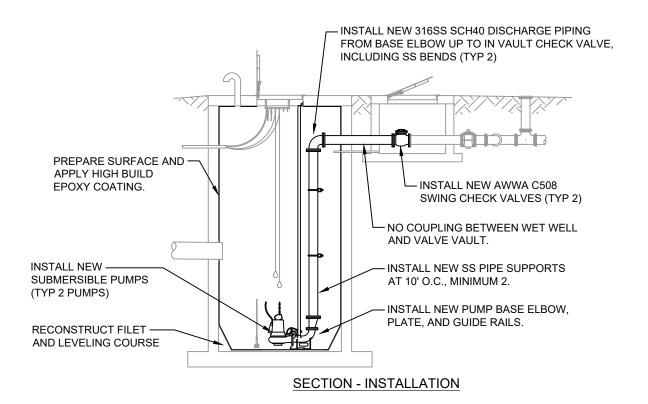


REMOVAL NOTE

- 1. PLAN VIEW AND SECTION CONFIGURATION MAY DIFFER AND ARE PROVIDED AS ILLUSTRATION OF WORK. CONTRACTOR TO VERIFY FIELD CONDITIONS.
- 2. VERIFY EXISTING ISOLATION VALVE OPERATION BEFORE STARTING WORK. PROVIDE TEMPORARY BYPASS PUMPING OF WASTEWATER FLOW. DUE TO THE NATURE OF THIS LIFT STATION, PROVIDE CONTINGENCY PLAN IN THE EVENT BYPASS PUMPING IS INTERRUPTED.
- 3. CAREFULLY REMOVED INDICATED ITEMS AND REPAIR/PATCH ANY DAMAGED CONCRETE.
- 4. RETURN ANY SALVAGED EQUIPMENT AT LOCATION DIRECTED BY COUNTY.



PLAN - INSTALLATION



INSTALLATION NOTES

- I. PLAN VIEW AND SECTION CONFIGURATION MAY DIFFER AND ARE PROVIDED AS ILLUSTRATION OF WORK. CONTRACTOR TO VERIFY FIELD CONDITIONS.
- 2. REINSTALL ALL INCIDENTALS NOT EXPLICITLY IDENTIFIED BUT WHICH WERE REQUIRED TO COMPLETE THE WORK.
- 3. REFERENCE ADDITIONAL SHEETS FOR DETAILS AND PHOTOS.



SEMINOLE COUNTY ENVIRONMENTAL SERVICES UTILITIES ENGINEERING DIVISION

500 West Lake Mary Blvd, Sanford, FL 32773-7441 T: (407) 665-2000 F: (407) 665-2019 www.seminolecountyfl.gov

	Designed By:	MRC
	Drawn By:	MRC
\dashv	Date:	3/10/23
	Project ID:	TBD
	Scale:	NTS

REMOVAL AND REPLACEMENT

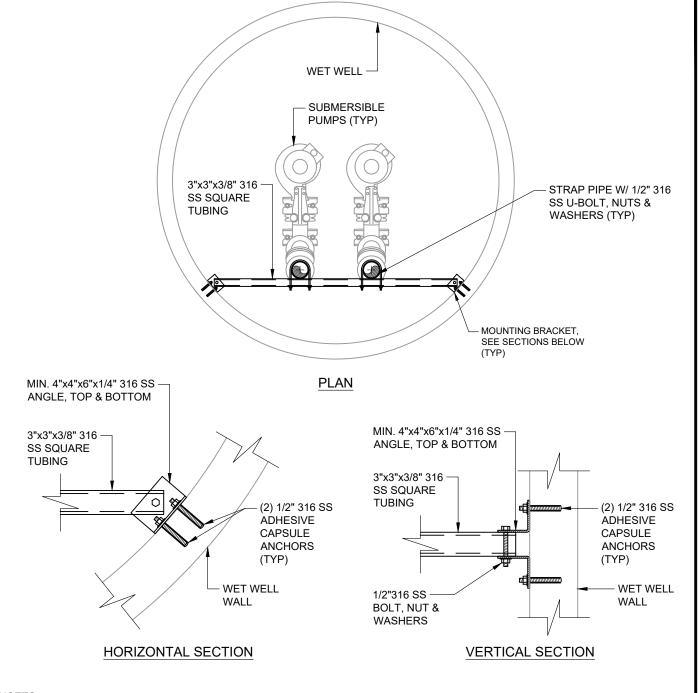
FIGURE NO.

U



- 1. PLATE ANCHORS TO BE 3/4" DIAMETER, CONSTRUCTED OF TYPE 316 SS (H.A.S. ROD) W/ "HVA" ADHESIVE CAPSULE PROVIDING AN EMBEDMENT DEPTH OF 6-5/8" MINIMUM, HILTI OR APPROVED EQUAL. NO EXPANSION ANCHORS ALLOWED
- 2. PLATE SIZE 6" LARGER THAN BASE ELBOW AND PUMP VOLUTE, TYPICAL ALL DIRECTIONS
- 3. BASE ELBOW BOLTS AND STUDS TO BE TYPE 316 SS
- 4. BASE ELBOW BOLT HEADS SHALL BE WELDED TO THE UNDERSIDE OF THE STEEL PLATE.

SUBMERSIBLE PUMP PLATE



NOTES

1. ALL PIPE WITHIN THE WET WELL SHALL BE SUPPORTED AT A MINIMUM OF 10' INTERVALS, AT LEAST ONE BRACE AT THE TOP OF THE WET WELL AND ONE DIRECTLY ABOVE THE HIGH WATER LEVEL, OR AS RECOMMENDED BY THE PIPE MANUFACTURER.

DISCHARGE PIPE MOUNTING



SEMINOLE COUNTY
ENVIRONMENTAL SERVICES
UTILITIES ENGINEERING DIVISION

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Drawn By: MRC

Date: 3/10/23

Project ID: TBD

Scale: NTS

DETAILS

NE018 FIVE POINTS LIFT STATION, SEMINOLE COUNTY

FIGURE NO.

<u>U'</u>2







WET WELL INTERIOR



VALVE VAULT INTERIOR



ADJACENT GRINDER PIT

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY
ENVIRONMENTAL SERVICES
UTILITIES ENGINEERING DIVISION

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Drawn By: MRC

Date: 3/10/23

Project ID: TBD

Scale: NTS

SITE PHOTOS

NE018 FIVE POINTS LIFT STATION, SEMINOLE COUNTY

FIGURE NO.

03

ţ	ál.	Desc	Manufacturer	Contractor's Material	Po	table	Rec	claim	Wast	tewater
				Identification	Model	Note	Model	Note	Model	Note
			Push on Joint C900 PVC Pipe - 4" to 24	l" Minimum DR18,	Minimum DR14 for Fire L	ines, Minimum DR21/DR2	25 for 30" and greater.			
			Diamond Plastics Corp		Diamond C900	Blue	Diamond C900	Purple	Diamond C900	Green
		e B	JM Eagle		Blue Brute C900	Blue	Blue Brute C900	Purple	Blue Brute C900	Green
		PVC Pipe	National Pipe & Plastics Inc		Dura-Blue C900	Blue	Dura-Blue C900	Purple	Dura-Blue C900	Green
		Š	North American Pipe Corp (NAPCO)		AWWA C900/IB	Blue	AWWA C900/IB	Purple	AWWA C900/IB	Green
			Restrained Joint Coupled C900 PVC Pi	pe - 4" to 24" Mini	mum DR18, Minimum DR	14 for Fire Lines, Minimur	m DR21/DR25 for 30" and	greater.		
			Certainteed		Certa-Lok C900/RJ	Blue, 4" to 12"	Certa-Lok C900/RJ	Purple, 4" to 12"		
		ā	Butt Fused C906 HDPE Pipe - DR11 IPS	, PE 3408/3608/47	10					
		HDPE Pipe	Endot		PE 4710 DIPS	Black w/ Blue Stripes	PE 4710 DIPS	Black w/ Purple Stripes	PE 4710 DIPS	Black w/ Green Stripes
		<u> </u>	JM Eagle		HDPE C906 DIPS	Black w/ Blue Stripes	HDPE C906 DIPS	Black w/ Purple Stripes	HDPE C906 DIPS	Black w/ Green Stripes
		I	Performance Pipe (Chevron)		DriscoPlex 4000	Black w/ Blue Stripes	DriscoPlex 4000	Black w/ Purple Stripes	DriscoPlex 4000	Black w/ Green Stripes
Push on Joint Pipe DIP, Unrestrained - 4" to 12" Class 350, 14" to 24" Class 250, 30" to 64" Class 200 American Fastite Joint Pipe Cement Lined Fastite Joint Pipe										
	Fastite Joint Pipe	Cement Lined	Fastite Joint Pipe	Protecto 401 Lined						
			McWane Ductile		Tyton Joint Pipe	Cement Lined	Tyton Joint Pipe	Cement Lined	Diamond C900 Green Blue Brute C900 Green Dura-Blue C900 Green AWWA C900/IB Green 4" to 12" // Purple Stripes PE 4710 DIPS Black w. // Purple Stripes DriscoPlex 4000 Black w. // Purple Stripes Protecte // Lined Fastite Joint Pipe Protecte // Lined Tyton Joint Pipe Protecte // Lined Flex-Ring Protecte // Lined Flex-Ring Protecte // Lined Sure Stop 350 Gasket Protecte // Lined Tra-Flex Protecte // Lined Super-Lock Protecte // Lined Field Lok 350 Gasket Protecte // Lined Tra-Flex Protecte // Lined Mechanical Joint Pipe Protecte // Lined Mechanical Joint Pipe Protecte // Lined Mechanical Joint Pipe Protecte // Lined Flanged Joint Pipe Protecte // Lined Fl	Protecto 401 Lined
als			US Pipe		Tyton Joint Pipe	Cement Lined	Tyton Joint Pipe	Cement Lined		Protecto 401 Lined
			Push on Joint Pipe DIP, Integrated Re	straint - 4" to 12" (lass 350, 14" to 24" Class	250, 30" to 64" Class 200		Black w/ Purple Stripes HDPE C906 DIPS Black w/ Green Stripes		
Pressure System Materials	Pipe		American		Fast-Grip Gasket	Cement Lined	Fast-Grip	Cement Lined	Fast-Grip	Protecto 401 Lined
/lat					Flex-Ring	Cement Lined	Flex-Ring	Cement Lined	Flex-Ring	Protecto 401 Lined
Ę					Lok-Rink	Cement Lined	Lok-Rink	Cement Lined	Lok-Rink	Protecto 401 Lined
ste			McWane Ductile		Sure Stop 350 Gasket	Cement Lined	Sure Stop 350 Gasket	Cement Lined	Sure Stop 350 Gasket	Protecto 401 Lined
Sy					Thrust-Lock	Cement Lined	Thrust-Lock	Cement Lined	Thrust-Lock	Protecto 401 Lined
<u>r</u> e					TR-Flex	Cement Lined	TR-Flex	Cement Lined	TR-Flex	Protecto 401 Lined
SSI		뤔			Super-Lock	Cement Lined	Super-Lock	Cement Lined	Super-Lock	Protecto 401 Lined
Pre			US Pipe		Field Lok 350 Gasket	Cement Lined	Field Lok 350 Gasket	Cement Lined	Field Lok 350 Gasket	Protecto 401 Lined
					TR-Flex	Cement Lined	TR-Flex	Cement Lined	TR-Flex	Protecto 401 Lined
					HP Lok	Cement Lined	HP Lok	Cement Lined	HP Lok	Protecto 401 Lined
			Mechanical Joint DIP - 4" to 12" Class	350, 14" to 24" Cla	ss 250, 30" to 64" Class 2	00				
			American		Mechanical Joint Pipe	Cement Lined	Mechanical Joint Pipe	Cement Lined	Mechanical Joint Pipe	Protecto 401 Lined
			McWane Ductile		Mechanical Joint Pipe	Cement Lined	Mechanical Joint Pipe	Cement Lined	Mechanical Joint Pipe	Protecto 401 Lined
			US Pipe		Mechanical Joint Pipe	Cement Lined	Mechanical Joint Pipe	Cement Lined	•	Protecto 401 Lined
			Flanged Joint DIP - 4" to 12" Class 350	, 14" to 24" Class 2	50, 30" to 64" Class 200, v	w/ Shop Exterior Primer (/	Asphaltic Shop Coatings Sh	nall be Removed Prior to F	ield Coating)	
			American		Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Protecto 401 Lined
			McWane Ductile		Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Protecto 401 Lined
			US Pipe		Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Cement Lined	Flanged Joint Pipe	Protecto 401 Lined
		_	Mechanical Joint Ductile Iron Fittings							
	gs	Ductile Iron Fittings	S.I.P.		MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Protecto 401 Lined
	Fittings	tie Eiŭ	Sigma		MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Cement/Epoxy Lined	•	Protecto 401 Lined
	证) Jac	Star		MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Protecto 401 Lined
		"	Tyler Union		MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Cement/Epoxy Lined	MJ Fitting	Protecto 401 Lined

ţ	cat.	Desc	Manufacturer	Contractor's Material	Po	table	Red	claim	Wa	stewater
,	٥			Identification	Model	Note	Model	Note	Model	Note
			Flanged Joint Ductile Iron Fittings,	w/ Shop Exterior Prin	ner or Fusion Bonded Epo	oxy (Asphaltic Shop Coatin	gs Shall be Removed Prior	to Field Coating)		
	Sc	Ductile Iron Fittings	S.I.P.		Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Protecto 401 Lined
	Fittings	ile I	Sigma		Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Protecto 401 Lined
	詿	E	Star		Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Protecto 401 Lined
			Tyler Union		Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Cement/Epoxy Lined	Flanged Fitting	Protecto 401 Lined
			4" to 14" C900 PVC Pipe Push on Jo	int Restraints						•
			EBAA Iron Inc.		1500	New or Existing Joint	1500	New or Existing Joint	1500	New or Existing Joint
			JCM		Sur-Grip 610	New Joint	Sur-Grip 610	New Joint	Sur-Grip 610	New Joint
			S.I.P.		EZPVCTP	New Joint	EZPVCTP	New Joint	EZPVCTP	New Joint
		ij			PTPVC	Existing Joint	PTPVC	Existing Joint	PTPVC	Existing Joint
		stra	Sigma		PV-LOK PWP	New & Existing Joint	PV-LOK PWP	New & Existing Joint	PV-LOK PWP	New & Existing Joint
		- Re	Smith Blair		Bell-Lock 165	New & Existing Joint	Bell-Lock 165	New & Existing Joint	Bell-Lock 165	New & Existing Joint
		oint	Star		1100C	New & Existing Joint	1100C	New & Existing Joint	1100C	New & Existing Joint
		l u	Tyler Union		TUFGrip 3000PP	New & Existing Joint	TUFGrip 3000PP	New & Existing Joint	TUFGrip 3000PP	New & Existing Joint
		sho	14" and Larger C900 PVC Pipe Push	on Joint Restraints				Droved Prior to Field Coating) g		
1100HV Existing Joint 1100HV Existing Joint JCM Sur-Grip Series 621 New & Existing Joint Sur-Grip Series 621 New & Exis	New Joint	2800	New Joint							
	· ·	1100HV	Existing Joint							
ate		ζ	JCM		Sur-Grip Series 621	New & Existing Joint	Sur-Grip Series 621	New & Existing Joint	Sur-Grip Series 621	New & Existing Joint
Σ			S.I.P.		EZPVCTP	New Joint	EZPVCTP	New Joint	EZPVCTP	New Joint
em		65			PTPVC	Existing Joint	PTPVC	Existing Joint	PTPVC	Existing Joint
yst	, a		Sigma		PV-LOK PWP	New & Existing Joint	PV-LOK PWP	3	PV-LOK PWP	New & Existing Joint
e S	in t		Smith Blair		Bell-Lock 165	New & Existing Joint	Bell-Lock 165	New & Existing Joint	Bell-Lock 165	New & Existing Joint
sur	tra		Star		1100C	New & Existing Joint	1100C	New & Existing Joint	1100C	New & Existing Joint
res	Restraints		Tyler Union		TUFGrip 3000PP	New & Existing Joint	TUFGrip 3000PP	New & Existing Joint	TUFGrip 3000PP	New & Existing Joint
Ъ	_		C900 PVC Pipe Mechanical Joint Re	straining Gland						_
		C900 PVC Pipe Mechanical Joint Restraint	EBAA Iron Inc.		2000PV MEGALUG		2000PV MEGALUG			
		PVC Pip Inical Jc straint	S.I.P.		EZPVCNG		EZPVCNG			
		PV(nnic	Sigma		ONE-LOK SLCE		ONE-LOK SLCE			
		Schie	Smith Blair		Cam-Lock 120		Cam-Lock 120			
		ک ≝	Star		PVC Stargrip 4000		PVC Stargrip 4000		0 1	
			Tyler Union		TUFGrip 2000 TLP		TUFGrip 2000 TLP		TUFGrip 2000 TLP	
			4" to 12" DIP Push on Joint Restrain	nts, (New 4" to 12" D					_	
		traii	EBAA Iron Inc.		1700	New Joint	1700	New Joint		
		Rest			1100HD	Existing Joint	1100HD			
		DIP Push on Joint Restraint	JCM		Sur-Grip 610	New Joint	Sur-Grip 610			
		ا ا	S.I.P.		PTPDI	New & Existing Joint	PTPDI			
			Smith Blair		Bell-Lock 165	New & Existing Joint	Bell-Lock 165			
		Pusl	Sigma		PV-LOK PWP	New & Existing Joint	PV-LOK PWP	New & Existing Joint	PV-LOK PWP	New & Existing Joint
			Star		Stargrip 3100P	New Joint	Stargrip 3100P	New Joint	Stargrip 3100P	New Joint
					Stargrip 3100S	Existing Joint	Stargrip 3100S	Existing Joint	Stargrip 3100S	Existing Joint

	cat.	Desc	Manufacturer	Contractor's Material	Pot	able	Rec	laim	Wast	tewater			
	ပ			Identification	Model	Note	Model	Note	Model	Note			
		+-	14" and Larger DIP Push on Joint Re	straints, (new 14" ar	nd Larger DIP shall use Int	egrated Push On Joint Re	straint Systems, see Pipe S	ection Above)					
		DIP Push on Joint Restraint	EBAA Iron Inc.		1100HD	Existing Joint	1100HD	Existing Joint	1100HD	Existing Joint			
		on	S.I.P.		PTPDI	Existing Joint	PTPDI	Existing Joint	PTPDI	Existing Joint			
		ush estr	Sigma		ONE-LOK SSLDH	Existing Joint	ONE-LOK SSLDH	Existing Joint	ONE-LOK SSLDH	Existing Joint			
		4 5	Smith Blair		Bell-Lock 165	Existing Joint	Bell-Lock 165	Existing Joint	Bell-Lock 165	Existing Joint			
	nts		Star		Stargrip 3100S	Existing Joint	Stargrip 3100S	Existing Joint	Stargrip 3100S	Existing Joint			
	Restraints	=	DIP Mechanical Joint Restraining Gl	and						•			
	est	DIP Mechanical Joint Restraint	EBAA Iron Inc.		1100 MEGALUG		1100 MEGALUG		1100 MEGALUG				
	~	Eg 📜	S.I.P.		EZDP		EZDP		EZDP				
		echanical Restraint	Sigma		ONE-LOK D-SLDE		ONE-LOK D-SLDE		ONE-LOK D-SLDE				
		Res	Smith Blair		Cam-Lock 111		Cam-Lock 111		Cam-Lock 111				
		_ ≥	Star		Stargrip 3000		Stargrip 3000		Stargrip 3000				
			Tyler Union		TUFGrip 1000 TLD		TUFGrip 1000 TLD		TUFGrip 1000 TLD				
		ling	DIP Flange Coupling Adaptor	<u> </u>		•	•		<u>.</u>				
	Restraints Restraints Restraints Restraints Restraints Grout: JCM Sigma Star Self Leveling, High Densit 3M Temco Detectable Marking Tape Pro-Line Safety Products	EBAA Iron Inc.		2100 MEGAFLANGE		2100 MEGAFLANGE		2100 MEGAFLANGE					
ia		S S	JCM		Model #301		Model #301		Model #301				
ter		nge	Smith Blair		Flange-Lock 911		Flange-Lock 911		Flange-Lock 911				
Ma		Fla	Sigma		SIGMAFLANGE		SIGMAFLANGE		SIGMAFLANGE				
Ε		뮵	Star		StarFlange 3200		StarFlange 3200		StarFlange 3200				
/ste			Self Leveling, High Density Polyethylene Shell, Color and Frequency Coded to Service (145.7 kHz for Water, 66.4 kHz for Reclaim, 121.6 kHz for Sewer)										
S		Locate Ball	3M		1403-XR	Blue	1408-XR	Purple	1404-XR	Green			
nıe			Temco		OmniMarker II OM-08	Blue	OmniMarker II OM-01	Purple	OmniMarker II OM-06	Green			
ess	_	e te	Detectable Marking Tape, Color Co	ded to Service, Width	•		-	<u> </u>					
Pr	ion	Locate Tape	Pro-Line Safety Products		103131253	4 to 12" Main	103135173	4 to 12" Main	103133083	4 to 12" Main			
	Material Location				103141253	14" and Larger Main	103145173	14" and Larger Main	103143083	14" and Larger Main			
	2	စု	Min. #10 AWG, Min 45 mil. HDPE Ja	cket Insulation, Colo		1		1	1				
	ria	Ĭ	Copperhead		SoloShot 1045B-EHS	Direct Bury & HDD		Direct Bury & HDD	SoloShot 1045G-EHS	Direct Bury & HDD			
	ate	Locate Wire	Performance Wire & Cable		Tracer Wire	Direct Bury		Direct Bury	Tracer Wire	Direct Bury			
	Ž	Po	Pro-Line Safety Products		HF-CSS 74443.02XX	Direct Bury	HF-CSS 74443.08XX	Direct Bury	HF-CSS 74443.05XX	Direct Bury			
				5111 1511 110	HDD-CSS 74643.02XX	Direct Bury & HDD	HDD-CSS 74643.08XX	Direct Bury & HDD	HDD-CSS 74643.05XX	Direct Bury & HDD			
		ate re inal	Waterproof, Corrosion Resistant, P	re-Filled Dielectric Sil		1	OLAID OA		OVAID OA	1			
		Locate Wire Termina	Copperhead		3WB-01		3WB-01		3WB-01				
		_ =	King Innovation 14-gauge Type 304 Stainless Band, (O OOO" thick DVC Line	DryConn DB Lug Aqua	Moight Dolumor Disstic w	DryConn DB Lug Aqua	Contored & Destrained	DryConn DB Lug Aqua				
	1 's	₩.	Advance Products & Systems	J. UTU THICK PVC LINE	SSI8, SSI12	vergint rotyttlet Plastic W	SSI8, SSI12	centered & Restrained	SSI8, SSI12				
	Casing Seals . Spacers	Casing Spacer	BWM Company		SS-8, SS-12		SS-8, SS-12		SS-8, SS-12				
	ing Seal Spacers	g St	Cascade Water Works		CCS, CCS-ER, CCS-JR		CCS, CCS-ER, CCS-JR		CCS, CCS-ER, CCS-JR				
	Sin S	isi			CSS8, CSS12		CSS8, CSS12		CSS8, CSS12				
	Ŝ	చొ	CCI Pipeline Systems Power Seal		4810		4810		4810				
			ruwei seai		4010		4010		4010				

cat.	Desc	Manufacturer	Contractor's Material	Po	table	Re	claim	Wast	ewater
	⅃ ﻟــــــ		Identification	Model	Note	Model	Note	Model	Note
<u>s</u> .	s	Chemical Resistant Rubber, Stainle	ess Steel Bands						
Casing Seals / Spacers	Casing Seals	Advance Products & Systems		AC		AC		AC	
) gc	g S	BWM Company		CCES		CCES		CCES	
asii /	asi	Cascade Water Works		PO		PO		PO	
3		CCI Pipeline Systems		ESC		ESC		ESC	
		Resilient Wedge AWWA C515 or C	509 Ductile Iron Body	(For Shallow Installation	s or Valves 24" and large	r, Horizontally Gate Valve	w/ Bevel Gear Actuator &	NPT Port to Permit Track F	Flushing)
		American Flow Control		2500 Series	MJ x MJ NRS	2500 Series	MJ x MJ NRS		
				2500 Series	FL x FL NRS	2500 Series	FL x FL NRS		
				2500 Series	FL x FL OS&Y				
	S	Clow		F-6100 Series	MJ x MJ NRS	F-6100 Series	MJ x MJ NRS		
	Gate Valves			F-6102 Series	FL x FL NRS	F-6102 Series	FL x FL NRS		
	\ A			F-6136 Series	FL x FL OS&Y				
	ate	Kennedy		7571 / 8571 Series	MJ x MJ NRS	7571 / 8571 Series	MJ x MJ NRS		
				7561 / 8561 Series	FL x FL NRS	7561 / 8561 Series	FL x FL NRS		
7068A / 8068A Series FL x FL OS&Y									
		Mueller		A-2361 / 2362 Series	MJ x MJ NRS	A-2361 / 2362 Series	MJ x MJ NRS FL x FL NRS		
				A-2361 / 2362 Series					
A-2361 / 2362 Series									
		· I							
S		American Flow Control		2100 Series	FL x FL	2100 Series	FL x FL		
lve	<u> </u>	Clow / Kennedy / M&H		Kenflex 506	FL x FL	Kenflex 506	FL x FL		
Va	Na Va	Crispin		RF Series	FL x FL	RF Series	FL x FL		
	ec y	DeZURICK / APCO		CFR100 Series	FL x FL	CFR100 Series	FL x FL		
	5	Pratt		RD Series	FL x FL	RD Series	FL x FL		
		Val-matic		Swing-Flex	FL x FL	Swing-Flex	FL x FL		
		Eccentric, Ballcentric or Full Port,						Min 80%, 24" and Greate	r Min 70%)
		Crispin						K-FLO 706/806 Series	MJ x MJ
		·						K-FLO 704/804 Series	FL x FL
		Clow						F-5413 Series	MJ x MJ
	ves							F-5412 Series	FL x FL
	(al	DeZURICK						PEC/PEF Series	MJ x MJ, FL x FL
	Plug Valves	M&H						1820 Series	MJ x MJ, FL x FL
	<u> </u>	Pratt / Milliken						Ballcentric 600/620 Ser.	MJ x MJ
								Ballcentric 601/611 Ser.	FL x FL
		Val-matic						Camcentric 5900 Series	MJ x MJ
								Camcentric 5800 Series	FL x FL
Δ	1	UL Classified \ FM Approved, w/ C	S & Y Valves & Freeze	Relief Valve	1	ı	ı		
BFP	DDCVA	Zurn		350DA / 350 ADA					
		5-1/4" Two Piece Standard Heavy	Duty Cast Iron w/ Serv		Duty H20 Traffic Rated P	aved Areas to Utilize Locki	na Lids		
es se	Box	Bingham & Taylor Foundry		4905 Series	Box	4905 Series	Вох	4905 Series	Вох
Valve Boxes	Valve Box	ongram wrayior roundry		4905-X	Extension	4905-X	Extension	4905-X	Extension
Va Bo	Val			4904-L	Locking Lid	4904-L	Locking Lid	4904-L	Locking Lid

Cat.	Des	c Manufacturer	Contractor's Material	P	otable	R	eclaim	Wa	stewater
	_		Identification	Model	Note	Model	Note	Model	Note
		Sigma		VB-26 Series	Вох	VB-26 Series	Вох	VB-26 Series	Вох
				VB-6302	Extension	VB-6302	Extension	VB-6302	Extension
				VB-4650W	Locking Lid		Locking Lid	VB-4650S	Locking Lid
	Š	Star		VB-0002 Series	Вох	VB-0002 Series	Вох	VB-0002 Series	Вох
	Valve Box			VBEX12~24S	Extension	VBEX12~24S	Extension	VBEX12~24S	Extension
	Val			VBLIDLOCK	Locking Lid		Locking Lid	VBLIDLOCKS	Locking Lid
xes		Tyler Union		6850 Series	Вох	6850 Series	Вох	6850 Series	Вох
Bo				58, 59, 60	Extension	58, 59, 60	Extension	58, 59, 60	Extension
Valve Boxes				Lock Lid	Locking Lid		Locking Lid		Locking Lid
Val	Centerin	20			_			_	
	nte Bir	EJ Prescott		45158		45158		45158	
	පු ද			367-485X Series		367-485X Series		367-485X Series	
		Insertable Valve Box Debris Shiel	ld, w/ Locking Device W	•					
	Debris	SW Services		DC 455	Debris Shield	DC 455	Debris Shield	DC 455	Debris Shield
	8 8	<u> </u>		LD-4	Locking Device	LD-4	Locking Device	LD-4	Locking Device
2		Trumbull Manufacturing		367-4915	Debris Shield	367-4915	Debris Shield	367-4915	Debris Shield
		AWWA C223, MSS SP-60 & SP-	-124, Type 304 SS Full	<u> </u>					.
Sleeves and Valves		Ford		FTSS	4" to 12" Outlet	FTSS	4" to 12" Outlet	FTSS	4" to 12" Outlet
es	s,			FTSS	14" & Larger Outlet	FTSS	14" & Larger Outlet	FTSS	14" & Larger Outlet
ak	Tapping Sleeve	JCM		432	4" to 12" Outlet	432	4" to 12" Outlet	432	4" to 12" Outlet
	ng.			452	14" & Larger Outlet	452	14" & Larger Outlet	452	14" & Larger Outlet
an	ll g	Romac		SST III	4" to 12" Outlet	SST III	4" to 12" Outlet	SST III	4" to 12" Outlet
es	1 2			SSt 420	14" & Larger Outlet	SSt 420	14" & Larger Outlet	SSt 420	14" & Larger Outlet
; §		Smith Blair		663	4" to 12" Outlet	663	4" to 12" Outlet	663	4" to 12" Outlet
apping Sleeves and Valves					14" & Larger Outlet		14" & Larger Outlet		14" & Larger Outlet
ing	/e	Resilient Wedge AWWA C515	or C509 Ductile Iron B	ody, MSS SP-60 (Bev	el Gear Actuator shall be	e used in shallow install	ations or for valves 24"	and larger)	
d	Valv	American Flow Control		2500 Series		2500 Series		2500 Series	
12	- Bu	Clow		F-6114 Series		F-6114 Series		F-6114 Series	
	Tapping Valve	Kennedy		7950 Series		7950 Series		7950 Series	
	1 2	Mueller		T-2361 / 2362 Series		T-2361 / 2362 Series		T-2361 / 2362 Series	
	.=	Combination Air Valves, Body	Shall be Full Type 316	Stainless Steel, Min.	2" Shall be NPT Connec	tion, Larger Than 2" Val	lves Shall be Flanged Co	nnection	
	Combo Air	A.R.I.		D-040 ST ST		D-040 ST ST		D-020 SST, D-026	Type 316 SS
	d de se	Crispin		UL Series		UL Series		UX Series	Type 316 SS
Si	క	Vent-O-Mat		RBX Series		RBX Series		RGX Series	Type 316 SS
Air Valves	→ &	Heavy Duty H20 Traffic Rated,	For Wastewater App	lications Frame and (Cover Shall be Non-Corro	sive Composite			
Š	an	GMI Composites		3800 Series	Composite	3800 Series	Composite	3800 Series	Composite
Ai	Vault Frame &	US Foundry		USF-766-HH-HJ	Iron	USF-766-HH-HJ	Iron		
		- Dolyothylono Enclosuro Vonto	ed, with Tamper Proof	Locking Device, Colo	red to Service			•	•
	Above Grade	HydroGuard		SGE142435CHABL	Blue	SGE142435CHAPR	Purple	SGE142435CHALG	Green
	₹ ō	Water Plus		107-B		107-P		107-G	Green

Cat.	Desc	Manufacturer	Contractor's Material	Pot	able	Red	laim	Wa	stewater
			Identification	Model	Note	Model	Note	Model	Note
	i	AWWA C502, UL Listed, FM App	roved Hydrant, Ope	en Left, 5-1/4" Valve Op	ening, 1.5" Pentagon O	p. Nut, NST Hose & Pun	nper Thread, Rotate 360) degrees, Drains Omi	tted or Plugged
	ll ŧ	American Flow Control		B-84-B-5					
	dra	Clow		Medallion F-2545					
nts	Fire Hydrant	Kennedy		K81-D					
dra	Fire	M&H		129					
Fire Hydrants		Mueller		Super Centurion A423					
<u>e</u>	- e	AWWA C508, 100% Unobstruct	ed Flow Area					I	l
ᇤ	Security Check Valve	American Flow Control		2100 Series					
	ecu Sck	Clow / Kennedy / M&H		Patriot Series					
	S & S	Mueller		SA Series					
		3"-10" Ultrasonic Meters, Direct	t Read Gallon Regist	er, NSF 61 Marked & Ce	rtified, UL Listed & FM /	Approved, Encoder Ada	ptable	l	l
	Ultrasonic (Preferred)	Badger		E-Series G2	prewire w/ Nicor conn.	E-Series G2	prewire w/ Nicor conn.		
	tras	Master Meter		Octave Series	prewire w/ Nicor conn.	Octave Series	prewire w/ Nicor conn.		
	ے ق	Neptune		C&I Mach 10 Series	Fact. potted 3 wire cable	C&I Mach 10 Series	Fact. potted 3 wire cable		
		3" - 10" Turbine Meter, Direct R	ead Gallon Register	, NSF 61 Marked & Certi			Strainer - See Register /	Encoder Below	<u> </u>
<u>s</u>	Turbine	Badger		Recordall Turbo Series		Recordall Turbo Series			
eria B	<u> </u>	Neptune		HP Turbine Series		HP Turbine Series			
ate		Sensus		OMNI+ Turbo Series		OMNI Turbo Series			
Pressure System Materials Master Meters	Þ	3" - 8" Compound Meter, Direct	Read Gallon Regist	ers, NSF 61 Marked & Co	ertified, Exact Encoder /	Adaptable, Complete wi	th Strainer - See Registe	er / Encoder Below	
rem rs	Compound	Badger		Recordall Comp. Series		Recordall Comp. Series			
ysi ete	ᇤ	Neptune		TRU/FLO Comp. Series		TRU/FLO Comp. Series			
e Me	ပ	Sensus		OMNI + Comp. Series		OMNI + Comp. Series			
Pressure Syste Master Meters	<u>د</u> و	4" - 10" Fire Service Meter Asse	mbly for Dual Fire &		Direct Read Gallon Regis	sters, NSF 61 Marked &	Certified, UL Listed & F	M Approved - See Reg	jister / Encoder Below
res	Dual Fire Domestic	Badger		Recordall Fire Series					
- ≥)ua	Neptune		HP Protectus III Series					
		Sensus		OMNI + Fireline					
		Register/Encoders for Non-Ultra	asonic Meters Must		•		•	or connector where p	ossible
	er/ der	Badger		Recordall	prewire w/ Nicor conn.	Recordall	prewire w/ Nicor conn.		
	Register / Encoder	Master Meter		Octave Encoder Module	prewire w/ Nicor conn.	Octave Encoder Module	prewire w/ Nicor conn.		
	S T	Neptune		E-CODER, ProCoder	Fact. potted 3 wire cable	E-CODER, ProCoder	Fact. potted 3 wire cable		
		Sensus		OMNI +	prewire w/ Nicor conn.	OMNI +	prewire w/ Nicor conn.		
	6	Magnetic Flow Meter, Wastewa	iter Force Main App	lications Only, Complete	e with Transmitter	1	•		I=
	Mag	Siemens						MAG 5100	Flow Meter
	II——	DVC/DI/AC pine Comitee Co. Liller	- Engry or mulan	atod body etaal ates:				MAG 5000	Transmitter
	es	PVC/DI/AC pipe Service Saddles	, Epoxy or nylon coa		1" CC 1 1/2" 0 2" IDT	F202	1" 00 1 1/2" 0 2" IDT		
es	Service Saddles	Ford		F202 402	1" CC, 1-1/2" & 2" IPT	F202	1" CC, 1-1/2" & 2" IPT		
Services	S Sa	JCM Mueller			1" CC, 1-1/2" & 2" IPT 1" CC, 1-1/2" & 2" IPT	402	1" CC, 1-1/2" & 2" IPT		
Ser	Ĭ Ķ	Mueller		DR 2 A		DR 2 A 202NU	1" CC, 1-1/2" & 2" IPT		
	Ser	Romac Smith Blair		202NU	1" CC, 1-1/2" & 2" IPT		1" CC, 1-1/2" & 2" IPT		
	Ser	Smith Blair		313	1" CC, 1-1/2" & 2" IPT	313	1" CC, 1-1/2" & 2" IPT		

ţ	cat.	Desc	Manufacturer	Contractor's Material	Pot	able	Rec	claim	Waste	ewater
)			Identification	Model	Note	Model	Note	Model	Note
			HDPE pipe Service Saddles, Epoxy	or nylon coated b	oody, double Type-304 s	tainless steel bands				
		Service Saddles	Ford	1	FCP202	1" CC, 1-1/2" & 2" IPT	FCP202	1" CC, 1-1/2" & 2" IPT		
		erv	Romac		202N-H	1" CC, 1-1/2" & 2" IPT	202N-H	1" CC, 1-1/2" & 2" IPT		
		SS	Smith Blair			1" CC, 1-1/2" & 2" IPT	317 w/ Spring Washers	1" CC, 1-1/2" & 2" IPT		
			1" AWWA taper CC threads x 1" P	acked Joint CTS B	all Type Corporation Sto	ps		•		
			Ford		FB1000-4-NL	1" CC x 1" CTS	FBRW1000-4	1" CC x 1" CTS		
			AY McDonald		74701B-22	1" CC x 1" CTS	74701B-22-RW	1" CC x 1" CTS		
		so	Mueller		P-25008N	1" CC x 1" CTS	P-25008N-20	1" CC x 1" CTS		
		Corporation Stops	1-1/2" MIPT x 1-1/2" Packed Join	t CTS Ball Type Co	rporation Stops					
		o	Ford		FB1100-6-NL		FBRW1100-6	1-1/2"MIPT x 1-1/2" CTS		
		rati	AY McDonald		74704B-22	1-1/2"MIPT x 1-1/2" CTS	747041B-22-RW	1-1/2"MIPT x 1-1/2" CTS		
		요	Mueller		P-25028N	1-1/2"MIPT x 1-1/2" CTS	P-25028N-20	1-1/2"MIPT x 1-1/2" CTS		
		క	2" MIPT x 2" Packed Joint CTS Bal	l Type Corporatio						
			Ford				FBRW1100-7	2" MIPT x 2" CTS		
AY McDonald 74704B-22 2" MIPT x 2" CTS 74704B-22-RW 2" MIPT x 2" C	2" MIPT x 2" CTS									
s	Ford FB1100-7-NL 2" MIPT x 2" CTS FBRW1100-7 2" MIPT x 2" CTS AY McDonald 74704B-22 2" MIPT x 2" CTS 74704B-22-RW 2" MIPT x 2" CTS									
Pressure System Materials		g		', 3", AWWA C901				_		
late		ig							Endot Green	Green
≥		Ä			1 1 1 1 1			Lavender	Pure-Core	Green
ten							Lavender Ice	Lavender	Green Ice	Green
) Syst	er			eter Swivel Nut Ba		•	T		_	
e S	<i>S</i> ,		Ford		B43-342W-NL	1" CST x 5/8X3/4" MSN	BRW43-342W	1" CST x 5/8X3/4" MSN		
l s			AY McDonald		76100MW-22-NL	1" CST x 5/8X3/4" MSN	76100MW-22-RWC	1" CST x 5/8X3/4" MSN		
res			Mueller		P-24350N-1	1" CST x 5/8X3/4" MSN	P-24350N-1-20	1" CST x 5/8X3/4" MSN		
<u> </u>			1" Packed Joint CTS x 1" Meter Sv	vivel Nut Ball Type		I411 007 411 1 1011	Innui a a a a a	Law oot and age	1	1
			Ford		B43-444W-NL	1" CST x 1" MSN	BRW43-444W	1" CST x 1" MSN		
			AY McDonald		76100MW-22-NL	1" CST x 1" MSN	76100MW-22-RWC	1" CST x 1" MSN		
		sdo	Mueller		P-24350N-1	1" CST x 1" MSN	P-24350N-1-20	1" CST x 1" MSN		
		Straight Curb Stops	1-1/2" Packed Joint CTS x 1-1/2" I	vieter Flange Ball			DEDIAMA (/ / / / /	4 4 /011 007 4 4 /011 8 4 5	T	
		Ğ	Ford		BF43-666W-NL	1-1/2" CST x 1-1/2" MF	BFRW43-666W	1-1/2" CST x 1-1/2" MF		
		Ĕ	AY McDonald		76100MW-22-NL	1-1/2" CST x 1-1/2" MF	76100MW-22-RWC	1-1/2" CST x 1-1/2" MF		
		raic	Mueller	nas Dall Tuna Chu	P-24335N	1-1/2" CST x 1-1/2" MF	P-24335N-20	1-1/2" CST x 1-1/2" MF		
		s	2" Packed Joint CTS x 2" Meter Fla	ange Ball Type Str		OH OCT OH MAE	DEDIA/40 777\A/	OIL CCT OIL MAE		1
			Ford AY McDonald			2" CST x 2" MF	BFRW43-777W 76100MW-22-RWC	2" CST x 2" MF 2" CST x 2" MF		
			Mueller		P-24335N	2" CST x 2" MF 2" CST x 2" MF	P-24335N-20	2" CST x 2" MF		
			3/4" FIPT x 5/8x3/4" Meter Swive	Mut Rall Type St		Z GOTX Z IVIF	r-24333N-2U	Z GOT X Z TVIF		
			Ford	i ivut bali Type St	B13-332W-NL	3/4" FIPT x 5/8X3/4" MSN	BD/V/13 333/V/	3/4" FIPT x 5/8X3/4" MSN	T	
			AY McDonald		76101MW	3/4" FIPT x 5/8X3/4" MSN		3/4" FIPT x 5/8X3/4" MSN		
			Mueller		B-24351N-1	3/4 FIPT x 5/8X3/4 MSN		3/4" FIPT x 5/8X3/4" MSN 3/4" FIPT x 5/8X3/4" MSN		
			iviueilei]	D-24331IN-1	3/4 FIFT X 3/8X3/4 IVISIN	D-24331IN-1-ZU	3/4 FIPT X 3/8X3/4 IVISIN		<u> </u>

ŧ	cal.	Desc	Manufacturer	Contractor's Material	F	otable		Reclaim	Waste	ewater
ر	,			Identification	Model	Note	Model	Note	Model	Note
		S	1" FIPT x 1" Meter Swivel Nut Bal	l Type Straight Cur	b Stops					
		Straight Curb Stops	Ford		B13-444W-NL	1" FIPT x 1" MSN	BRW13-444W	1" FIPT x 1" MSN		
		stra Irb (AY McDonald		76101MW	1" FIPT x 1" MSN	76101MW-RWC	1" FIPT x 1" MSN		
		ຶ່ວ	Mueller		B-24351N-1	1" FIPT x 1" MSN	B-24351N-1-20	1" FIPT x 1" MSN		
			1" Packed Joint CTS x 5/8x3/4" M	eter Swivel Nut Ba		•				
			Ford		BA43-342W-NL	1" CTS x 5/8X3/4" MSN	BARW43-342W	1" CTS x 5/8X3/4" MSN		
			AY McDonald		74602B-22	1" CTS x 5/8X3/4" MSN	74602B-22-RWC	1" CTS x 5/8X3/4" MSN		
			Mueller		P-24258N-1	1" CTS x 5/8X3/4" MSN	P-24258N-1-20	1" CTS x 5/8X3/4" MSN		
			1" Packed Joint CTS x 1" Meter Sv	vivel Nut Ball Type			_			
			Ford		BA43-444W-NL	1" CTS x 1" MSN	BARW43-444W	1" CTS x 1" MSN		
			AY McDonald		74602B-22	1" CTS x 1" MSN	74602B-22-RWC	1" CTS x 1" MSN		
ı			Mueller		P-24258N-1	1" CTS x 1" MSN	P-24258N-1-20	1" CTS x 1" MSN		
			1-1/2" Packed Joint CTS x 1-1/2"	Meter Flange Ball			_			
		sc	Ford		BFA43-666W-NL	1-1/2" CST x 1-1/2" MF	BFARW43-666W	1-1/2" CST x 1-1/2" MF		
		Stol	AY McDonald		74602B-22	1-1/2" CST x 1-1/2" MF	74602B-22-RWC	1-1/2" CST x 1-1/2" MF		
	Services	Angle Curb Stops	Mueller		P-24276N	1-1/2" CST x 1-1/2" MF	P-24276N-20	1-1/2" CST x 1-1/2" MF		
"			2" Packed Joint CTS x 2" Meter Fl	ange Ball Type Ano						
iak			Ford		BFA43-777W-NL	2" CST x 2" MF	BFARW43-777W	2" CST x 2" MF		
ter		₹	AY McDonald		74602B-22	2" CST x 2" MF	74602B-22-RWC	2" CST x 2" MF		
Ma			Mueller		P-24276N	2" CST x 2" MF	P-24276N-20	2" CST x 2" MF		
Ξ	er.		3/4" FIPT x 5/8x3/4" Meter Swive	el Nut Ball Type An	•					
ste	S		Ford		BA13-332W-NL	3/4" FIPT x 5/8X3/4" MSI		3/4" FIPT x 5/8X3/4" MSN		
Sy			AY McDonald		74604B	3/4" FIPT x 5/8X3/4" MSI		3/4" FIPT x 5/8X3/4" MSN		
Pressure System Materials			Mueller		B-24265N-1	3/4" FIPT x 5/8X3/4" MSI	NB-24265N-1-20	3/4" FIPT x 5/8X3/4" MSN		
ISS			1" FIPT x 1" Meter Swivel Nut Bal	I Type Angle Curb						
Pre			Ford		BA13-444W-NL	1" FIPT x 1" MSN	BARW13-444W	1" FIPT x 1" MSN		
i			AY McDonald		74604B	1" FIPT x 1" MSN	74604B-RWC	1" FIPT x 1" MSN		
i			Mueller		B-24265N-1	1" FIPT x 1" MSN	B-24265N-1-20	1" FIPT x 1" MSN		
			1-1/2" Packed Joint CTS x 3/4" M	IPT x 7-1/2" U-Bra						
			Ford		U48-63-75-NL	1-1/2" CTS x 3/4" MIPT	U48-63-75-NL	1-1/2" CTS x 3/4" MIPT		
		ج	AY McDonald		708U2M	1-1/2" CTS x 3/4" MIPT	708U2M	1-1/2" CTS x 3/4" MIPT		
		anc	Mueller		P-15363N	1-1/2" CTS x 3/4" MIPT	P-15363N	1-1/2" CTS x 3/4" MIPT		
		U-Branch	1-1/2" Packed Joint CTS x 1" MIP	T x 9" U-Branch						
			Ford		U48-64-9-NL	1-1/2" CTS x 1" MIPT	U48-64-9-NL	1-1/2" CTS x 1" MIPT		
			AY McDonald		708U2M	1-1/2" CTS x 1" MIPT	708U2M	1-1/2" CTS x 1" MIPT		
			Mueller		P-15363N	1-1/2" CTS x 1" MIPT	P-15363N	1-1/2" CTS x 1" MIPT		
		ج	1-1/2" Packed Joint CTS x 1" Pack	ed Joint CTS Y-Bra						
		Y-Branch	Ford		Y44-264-NL	1-1/2" CTS x 1" CTS	Y44-264-NL	1-1/2" CTS x 1" CTS		
		Ä	AY McDonald		708YS22	1-1/2" CTS x 1" CTS	708YS22	1-1/2" CTS x 1" CTS		
1 1			Mueller		P-15343N	1-1/2" CTS x 1" CTS	P-15343N	1-1/2" CTS x 1" CTS		
1 1	ole	Sampling Station	Polyethylene Enclosure, Smooth	Nose Stainless Ste						
	ati	mpl	Water Plus		301 W					
	Sa	Sal	Kupferle Foundry		Eclipse 88WC					

Cat.		Desc	Manufacturer	Contractor's Material	Po	otable	Reclaim		Wastewater			
				Identification	Model	Note	Model	Note	Model	Note		
		o +, 9	Automatic Flush Valve w/ Built-In Timer									
Pressure System Materials	₩	Auto Flush	Hydro-Guard		HG-1 Standard		HG-1 Standard					
			Manual Blow Off Valve, Fits in S	tandard 5-1/4" Val	ve Box	•	•	•	_	•		
	Blow Off	l ∾ c	Kupferle Foundry		TF550		TF550					
		Blow Off Valve	Water Plus		VB 2000B		VB 2000B					
	ပ		Top Coat, High Performance, Modified Urethane Alkyd Enamel									
	a∭	Over Shop Primer or Epoxy Coating	Sherwin Williams		PI Urethane Alkyd	SW 4081 Safety Red	PI Urethane Alkyd	SW 4080 Safety Purple	PI Urethane Alkyd	SW 4085 Safety Green		
	/let	er Shop Primer Epoxy Coating				SW 4083 Safety Orange						
	e l	9 S				SW 4084 Safety Yellow						
	rad	S S				SW 4085 Safety Green						
	ē	l ver				SW 4086 Safety Blue						
	0V6	Ō				SW 4071 Rain Forest						
	Ab sets	0	Primer, Rust Inhibitive, Corrosio	n Resistant, Single	Component Acrylic (Sho	op Asphaltic Exterior Coa	•	d Prior to Priming)				
ess	for Ass	Over Shop Asphaltic Coating (Remove Before	Sherwin Williams		Pro-Cryl	Red Oxide	Pro-Cryl	Red Oxide	Pro-Cryl	Red Oxide		
F F	gs 1	Shop Asphaltic (Remove Befo	Top Coat, High Performance, Mo	odified Urethane A	•							
	Exterior Coatings for Above Grade Metallic Assets	Asp	Sherwin Williams		PI Urethane Alkyd	SW 4081 Safety Red	PI Urethane Alkyd	SW 4080 Safety Purple	PI Urethane Alkyd	SW 4085 Safety Green		
		Shop Asp (Remove				SW 4083 Safety Orange						
		الا ق ق	5			SW 4084 Safety Yellow						
		Over S				SW 4085 Safety Green						
		် ဒိ			_	SW 4086 Safety Blue SW 4071 Rain Forest						
		-	4" to 15" PVC Gravity Sewer, Integr	OLDON ACTM D2024	Minimum CDD 24 /DC 11E							
			Diamond Plastics Corp	ai Bell, ASTIVI D3034	William SDR 20 (F3 115) 			Sani-21	SDR 26		
			JM Eagle						Gravity Sewer	SDR 26		
	o.		National Pipe & Plastics Inc						Sewer	SDR 26		
		<u>8</u>	North American Pipe Corp (NAPCO)						ASTM D3034/IB	SDR 26		
<u>~</u>	Pipe	PVC Pipe	18" to 27" PVC Gravity Sewer, Integ		Minimum PS 115				A31101 D303471D	JDIV 20		
ria	-	≥	Diamond Plastics Corp						Sani-21	PS 115		
ate			JM Eagle						Gravity Sewer	PS 115		
Š			National Pipe & Plastics Inc						Sewer	PS 115		
e I			North American Pipe Corp (NAPCO)						ASTM F679/IB	PS 115		
yst			PVC Fittings, Integral Gasket, ASTM F-1336 SDR 26									
Gravity System Materials	sc	PVC Fittings	GPK Products						PVC Gasketed Fitting	SDR 26		
		II ∄	Harrington / HARCO						PVC Gasketed Fitting	SDR 26		
		چ چ	Multi Fittings						Trench Tough Plus	SDR 26		
	ting		TIGRE USA						PVC Gasketed Fitting	SDR 26		
	Fittings	r pe	Flexible Pipe Connectors and Trans	Flexible Pipe Connectors and Transitions, Stainless Steel Bands and Rings								
		cto Pi	Fernco		_				1002, 1051, 1056	Strong Back		
		Flexible Pipe Connectors	Indiana Seal						102, 151, 156	Amazon Shear Ring		
		를 S	Mission Rubber						MR02, MR51, MR56	Flex Seal ARC		

Cat.		Desc	Manufacturer	Contractor's Material	Potable		Reclaim		Wastewater	
0				Identification	Model	Note	Model	Note	Model	Note
		Precast Concrete Manholes	Precast Manhole, ASTM C478. w/ red dyed crystalline hydrophilic admixture, Pro-Tech EW-1 Interior Coating. Manholes receiving force main flow, and next down stream, to be factory lined.							
			Allied Precast						N/A	
			Atlantic Concrete Products						N/A	
			Delzotto Products, Inc.						N/A	
			Rinker Materials						N/A	
			Mack Concrete						N/A	
ı			Oldcastle Precast						N/A	
			Standard Precast Inc.						N/A	
		Concrete Admix	Crystallined hydrophilic concrete a	dmixture batched at pl	ant / manufacture, w/	red dye, for all concrete st	ructures (precast & cast-	in-place)	I	Inc. / I.
			Kryton International						KIM K301R	2% w/ red dye
			Xypex Chemical Corp						Admix C-1000 Red	3.0-3.5% w/ red dye
			New Manholes receiving force mai	n flow, and next down	stream, intergrally cas	by precast manufacture	1	T	LIBBE C O : II	
			AGRU						HDPE Sure Grip Liner	
		Interior Liners	GU Liner						PP Liner	
			A-LOK Products	noin flow, and novt do	un stroom propored a	nd installed nor manufactu	role instruction. Fiberale	s liners only with prior on	Dura Plate 100	
			Existing Manholes receiving force r	nain now, and next do	wii stream, prepared a	ilu ilistalleu per manuractu	re s instruction, ribergia	ss liners only with prior app	Raven 405	w/ primor
S		Inte	Raven Lining Systems SprayRog Inc						SprayWall	w/ primer
rial	es		L & F Manufacturing						Fiberglass Insert	Only with Approval
ate			PREDL Systems						FRP Liner	Only with Approval
Ĕ			Heat Shrink Seal - Precast structure	s shall be primed with	manufacturer approve	d primer prior to application	n of heat shrink encansi	lation	THE EIRCI	Only With Approval
e e	Manholes	Heat Shrink Seal	Canusa-CPS	s shan be primed with	manadatar or approve	и ринног риог со арриоаск	I or nour similik ondaps	1	Wrapid Seal	w/ Canusa G Primer
yst	lan		Pipeline Seal & Insulator (PSI)						Riser Wrap	w/ Polyken 1027 / 1039
Gravity System Materials	2		Jointing Material, min. 2" width for	all products to ensure	squeeze out, w/ manu	facturer approved primer.				
Ĭ.		Jointing Material	Henry Company		· · · · · · · · · · · · · · · · · · ·	1			Ram-Nek	w/ primer
Gre			Martin Asphalt Company						Evergrip 990	w/ primer
			Trelleborg Pipe Seals						C-56	w/ primer
i		Gravity Pipe Seals	Resilent pipe to manhole connecto	r, w/ stainless steal ba	nds - permissible for co	nnections less than 15' bel	ow finish grade and pipe	s less than 12" in diameter		<u> </u>
1			Trelleborg Pipe Seals						Kor-N-Seal WS Series	
			Press-Seal						PSX Direct Drive	
			Cast-in-place pipe to manhole seals	s, required on all pipe 1	15' and deeper than fin	ished grade and all pipes 12	2" and larger in diameter			
			A-LOK Products						A-Lok Premium or X-CE	L
			Hail Mary Rubber						Star Seal	
		Force Main Pipe Seals	Modular pipe seals for all force ma	in pentrations, w/ EDP	E seals and Type 316 st	ainless steel hardware				
			CCI Pipeline Systems						Wrap-It Link WL-SS	
			Pipeline Seal & Insulator (PSI)						Link-Seal S-316	
		Frame &	Proco Products, Inc						PEN-SEAL ES	
			Grey Iron Casting Manhole Frame a	ing Cover, Heavy Duty	H2U Traffic Rated, Mar	kea "Sanii ary"	1	1	LICE OOF AC	HCANITADVIII II '
1			U.S. Foundry	- H D- 1 1100 T 1	20- D-1-1 / '				USF 225-AS	"SANITARY" lettering
		H Rings	HDPE or pre-cast top adjusting ring	s, Heavy Duty H20 Traf	TIC Rated, W/ rope seal	ant	1	1	124D 24C	
			Ladtech	ifting Llandla					24R, 24S	
			HDPE Manhole Insert, Vented, w/ I	nung Handle				-	LIDDE Deinstenner	
			Rainstopper						HDPE Rainstopper	



Vendor Contacts and Communications

ENVIRONMENTAL SERVICES DEPARTMENT



Vendor	Contact	Communications
Central Florida	Scott Gingerich	3/10/23 - Sent out Scope of Services,
Lift Stations	407-575-0893	attempted contact by phone.
(CFL)	scott@cfliftstations.com	3/14/23 – Provided additional information.
		3/17/23 – Followed up.
		3/27/23 – Received Quote.
Danus Utilities	Richard Cook	3/10/23 - Sent out Scope of Services,
	386-233-5588	attempted contact by phone.
	richard@danusutilities.com	3/14/23 – Provided additional information.
		3/15/23 – Met Richard onsite
		3/29/23 – Received Quote.
L7	Brian Brach	3/10/23 - Sent out Scope of Services,
Construction,	407-221-1891	attempted contact by phone.
Inc	bbrach@I7constructs.com	3/14/23 – Provided additional information.
		3/17/23 – Followed up.
		3/24/23 – Received Quote.
Prime	Mark Allen	3/10/23 - Sent out Scope of Services,
Construction	407-856-8180	attempted contact by phone.
Group	Mark A. Allen	3/14/23 – Provided additional information.
	mallen@primeconstructiongroup.com	3/17/23 – Followed up.
		3/21/23 – Provided "no- quote" response.