

**Loxahatchee River District
Rolling Hills Subdivision Gravity Sewer, Lift Station,
& Force Main**

Addendum Number 3

November 16, 2021

The following clarifications and modifications are hereby made to the bidding documents for the above referenced project.

Acknowledge receipt of the addendum by inserting its number on Page 17 of the bid. Failure to do so may subject the bidder to disqualification.

General

Item 3-1 The following are questions asked after the pre-bid and the corresponding answers.

Questions

1. During the pre-bid meeting it was mentioned that the District will supply the pumps for the lift station. Is the District only supplying the pumps or the entire pump package (rails, base plates, elbows, etc.)? Could the District provide a detailed list or the quote for the material they plan to provide?

Please refer to the attached quote for the materials to be provided.

2. It was discussed in the pre-bid meeting that restoration items would be added to the schedule of values. Is this correct and when do you expect to have the revised bid form and schedule of values?

Please refer to the attached revised bid form and corresponding Measurement and Payment section. REPLACE the bid form and Specification Section 01200 with the attached revised bid form and measurement and payment section.

3. Since this a gated community will the restoration items be unit price because we cannot visit the site? If not, could the bid be postponed, and could the district arrange access to the community to determine restoration quantities?

Potential bidders can access the neighborhood using the code #3687. This code will work 8 am – 5 pm Monday through Friday.

4. The plans have callouts for abandonment of existing pipe but there is nothing else shown on the plans or the schedule of values. Is the contractor responsible for anything with respect to this abandonment?

The existing pipe noted to be abandoned in place are existing service laterals that were installed which will not be utilized. The Contractor will not have to perform any work with these laterals.

5. Paints & Coatings has rehabbed over 5,000 manholes and lift stations with 26 years of experience. If acceptable to the District, Paints & Coatings requests, (Page 282) IET Systems & IET-Crete respectfully request to be listed as an approved product.

The request to add IET Systems & IET-Crete as an approved product is approved.

END OF ADDENDUM 3



Xylem Water Solutions USA Inc.
Flygt Products
15132 Park of Commerce Blvd. Suite 102
Jupiter FL 33478
Phone: (561) 848-1200 • Fax: (561) 848-1299

TO: Lox Encon

November 5, 2021

SUBJECT: Rolling Hills

QUOTE#:2021-WEP-0951

We are pleased to offer the following equipment:

Equipment

Qty	Description
2	4"NP3102/455 FM rated Flygt pumps with 5HP 230V 3PH motors
2	4" Discharge Connections
60'	316SS Guide rail
2	316SS Upper guide bar brackets
2	Lifting chain 316SS
2	Cable holders 316SS
1	Start-up Service by Xylem Flygt Representative

Exclusions: WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity: THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes: State, local, and other applicable taxes are not included in this quotation.

Freight Terms: DAP; Jobsite - Full Freight Allowed (per Incoterms 2010)

Shortages: Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms: 100% NET 60 DAYS AFTER SHIPMENT DATE.
(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by FLYGT.

Schedule: Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of seller.



Xylem Water Solutions USA Inc. / Flygt Products
15132 Park of Commerce Blvd. Suite 102
Jupiter, Florida 33478
Phone: 561-848-1200 • Fax: 561-848-1299

Schedule: Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: *This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at <http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx> and incorporated herein by reference and made part of the agreement between the parties.*

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.

Company Name: _____

Address: _____

Accepted By: _____

Eric Johnson
Sales Representative
(561) 515-8710
eric.johnson@xyleminc.com

Print Name: _____

Date: _____

BID FORM — BASE BID
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
ROLLING HILLS SUBDIVISION
GRAVITY SEWER, LIFT STATION, & FORCE MAIN

UNIT PRICES

No.	Description	Unit	Qty	Unit Cost	Total
General Conditions and Restoration					
1	Mobilization/Demobilization, Bonds and Insurance	1	LS		
2	Maintenance Of Traffic	1	LS		
3	As- Built Record Drawings	1	LS		
4	Audio Video Documentation	1	LS		
5	NPDES Permit/Erosion Measures	1	LS		
6	Dewatering	1	LS		
7	Sodding Restoration	1	LS		
8	Tree and Shrubbery Restoration	1	LS		
9	Asphalt Pavement Restoration	1	LS		
10	Curb, Gutter, & Miscellaneous Restoration	1	LS		
Manhole Rehabilitation					
11	Pressure Clean Manhole	17	EA		
12	Miscellaneous Manhole Repairs (Including Mortar, Pipe Connections, Reinforcement Steel, Holes, Cracks, Joints, and Leaks)	17	EA		
13	Pressure/Xypex Grouting	5	EA		
14	Reform Bench and Channel	17	EA		
15	Chimney Adjustment	4	EA		
16	Install New Manhole Cover	7	EA		
17	Install New Adjustment Ring	13	EA		
18	Install New Frame	5	EA		
Gravity Sewer Pipe Rehabilitation					
19	Cured in Place Pipe Lining, 8” Pipe	3,000	LF		
20	8” PVC SDR 26 PVC Replacement (0-6’ Depth)	40	LF		
21	8” PVC SDR 26 PVC Replacement (6-8’ Depth)	20	LF		
22	8” PVC SDR 26 PVC Replacement 8-10’ Depth)	20	LF		
23	8” PVC SDR 26 PVC Replacement (10-12’ Depth)	40	LF		

Sewer Service Laterals					
24	Install New 4" PVC Lateral – Single Service with Cleanout on Existing Gravity Main or into Existing Manhole	32	EA		
25	Install New 6" PVC Lateral – Double Service with Cleanouts on Existing Gravity Main or into Existing Manhole	1	EA		
26	Clean and Televiser Existing 4" Lateral, Make Point Repairs, Install Cured In Place Pipe Lining, and Install New Cleanout & Associated Piping required for 4" Single Service	4	EA		
27	Clean and Televiser Existing 6" Lateral, Make Point Repairs, Install Cured In Place Pipe Lining, and Install New Cleanout, and Associated Piping required for 6" Single Service	6	EA		
28	Clean and Televiser Existing 6" Lateral, Make Point Repairs, Install Cured In Place Pipe Lining, and Install New Cleanouts, and Associated Piping required for 6" Double Service	3	EA		
Lift Station and Force Main					
29	Proposed Lift Station, Including all Mechanical, Structural, Site, Electrical, and Instrumentation Work (Owner furnished pumps, to be installed by Contractor)	1	LS		
30	4" C900 PVC Force Main installed via Open-Cut	100	LF		
31	4" HDPE DIPS SDR-11 installed via Horizontal Directional Drill	750	LF		
32	4" Plug Valve	2	EA		
33	4" DI MJ 90 Degree Bend	1	EA		
34	4" DI MJ 45 Degree Bend	2			
35	4" DI MJ 11.25 Degree Bend	4	EA		
36	4" HDPE x MJ Adapter	4	EA		
37	Air Release Valve	2	EA		
38	Connect to Existing Force Main	1	EA		

TOTAL BASE BID ITEMS 1-38 (in words)

_____ Dollars

_____ Cents

THE CONTRACT AWARD SHALL BE EVALUATED BASED ON THE TOTAL BASE BID PRICE FOR ITEMS 1 THROUGH 38 AS SUBMITTED BY THE LOWEST, QUALIFIED, RESPONSIBLE, RESPONSIVE BIDDER.

(Name of Bidder)

Bidders Name: _____

By: _____
Signature of Authorized Officer, Partner, Member, Manager

Print Name of Person signing: _____

Title: _____

Business Address: _____

Incorporated or formed under the laws of the State of _____.

SECTION 01200

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Unit prices stated in the Contract shall be considered payment in full for the completion of all work. Payment shall be made under each item only for work as it is not specifically included under other items.
- B. Furnishing all labor, materials, equipment and all incidentals and appurtenances necessary for wastewater collection improvements in the Rolling Hills Subdivision including the rehabilitation of seventeen manholes, the cured in place pipe (CIPP) lining of approximately 3,000 linear feet of existing 8” gravity sewer, the replacement of approximately 120 linear feet of existing 8” gravity sewer, 33 new service laterals with cleanouts, the rehabilitation and lining of 13 existing services, one new lift station utilizing an existing wet well, including all site work, mechanical work, dewatering, electrical work, instrumentation work, and related piping, valves, fittings, and appurtenances, approximately 850 linear feet of 4” force main to be installed via both open-cut and horizontal directional methods, force main valves and fittings, and restoration of all areas affected by construction to existing conditions or better.

1.02 PERFORMANCE

- A. Section generally defines unless otherwise indicated, the following:
 - 1. Payment item descriptions.
 - 2. Payment application descriptions.
- B. The cost of temporary facilities, bonds, insurance, attending project meetings, administration, record drawings, policing, and other general duties shall be considered incidental to all items.
- C. The OWNER may direct the CONTRACTOR to install certain portions of the work in advance of other portions without extra payment to the CONTRACTOR.

1.03 RELATED SECTIONS

- A. Notice to Contractors

- B. Article 1 - Instructions to Bidders.
- C. Article 2 - Bid Form.
- D. Article 4 – Contract.
- E. Article 10 - General Conditions.

1.04 LUMP SUM ITEMS

- A. The lump sum price shall be full compensation for all labor, materials and equipment to satisfactorily complete the installation of the items as shown on the plans and indicated in the details for lump sum bid items.

1.05 UNIT PRICE ITEMS

- A. The ENGINEER or his representative shall determine the number of units of each work item installed.

1.06 SATISFACTORY COMPLETION

- A. Satisfactory completion shall include dewatering, if any, and repair or replacement of damaged landscaping, irrigation systems, pavement or other existing improvements.

1.07 PAYMENT ITEMS

- A. Unit Price Bid
 - 1. Payment shall constitute summation of measured quantities multiplied by the respective unit price for items constructed as specified herein and shown on the engineering drawings; including installation and removal of all temporary facilities, piping; and supply of all incidental materials, equipment and labor necessary to complete the contemplated Work whether specifically identified herein or not.
 - 2. Partial progress payments will be made at monthly intervals and will be based upon the value of the Work completed on the date that a partial payment application is submitted less deductions for retainage as defined elsewhere. Signed and Sealed Record Drawings shall be submitted and approved with each partial and final pay request.

1.08 PAYMENT APPLICATION DESCRIPTION

- A. Preparation of Applications:
 - 1. Present required information in type written form, or equivalent.

2. Execute certification by signature of authorized officer.
3. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed.
4. List each authorized Change Order as an extension on the Application for Payment, listing Change Order number and dollar amount as for an original item of Work.

B. Submittal Procedures

1. Submit three (3) copies of each Application for Payment.

Payment Period: Submit monthly as directed by the OWNER.

Submit signed and sealed record drawings covering work for which payment is being requested.

Submit revised progress schedule accurately reflecting the work completed and the schedule of future work items.

C. Substantiating Data

1. When OWNER requires substantiating information, submit data justifying dollar amounts in question.
2. Provide one (1) copy of data with cover letter of each copy of application. Show Application number and date, and line item by number and description on each piece of data.

PART 2 – PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 BID ITEM DESCRIPTIONS

A. PAY ITEM NO. 1 – MOBILIZATION/DEMobilIZATION, BONDS AND INSURANCE

The Contract Lump Sum for this item shall constitute full compensation for mobilization, demobilization, general conditions, insurances, monthly photos, shop

drawings, permits, temporary facilities, and bonding in accordance with the contract documents. The first payment shall not include mobilization / demobilization if the CONTRACTOR has not started work at the project site. Payment for this item shall be by Lump Sum (LS). Total cost of this item shall not exceed 10% of the total contract value.

B. PAY ITEM NO. 2 – MAINTENANCE OF TRAFFIC

The Contract Lump Sum for this item shall constitute full compensation for providing all necessary permits and traffic devices to maintain traffic during construction and restoration. Traffic devices may be in the form of barricades, personnel, lights, signs, temporary rock roadways, etc. All work shall be in accordance with all applicable Florida Department of Transportation specifications, and in accordance with the governing municipalities and other governing agencies. Payment for this item shall be by Lump Sum (LS).

C. PAY ITEM NO. 3 – AS- BUILT RECORD DRAWINGS

The Contract Lump Sum for this item shall constitute full compensation for providing a Professional Surveyor licensed in the State of Florida to perform as-built surveying including: signed and sealed record drawings; AUTOCAD record drawings and other items described in Section 01720, Record Documents. Payment for record drawing information will be made upon completion of all required items in accordance with the requirements of the Contract Documents. Payment for record drawings will be processed after drawings are approved. No partial payments shall be made for record drawings. Payment for this item shall be by Lump Sum (LS).

D. PAY ITEM NO. 4 – AUDIO VIDEO DOCUMENTATION

The Contract Unit Price for this item shall constitute full compensation for providing, prior to start of construction, a video of the project by a professional video-taping service acceptable to the OWNER. The video may include all driveways, landscaping area, etc. for each side of the streets. The video should extend from right-of-way to right-of-way and 10' beyond. A copy of the video shall be turned over to the OWNER and ENGINEER for their use. Payment for this item shall be by Lump Sum (LS).

E. PAY ITEM NO. 5 – NPDES PERMIT/EROSION MEASURES

The Contract Lump Sum for this item shall constitute full compensation for establishing, constructing and maintaining erosion and sediment control measures. The erosion control programs shall be maintained during the entire period of construction, including any extensions in Contract time. Temporary erosion and pollution control shall include construction work off-site where such work is necessary as a result of borrow pit operations, haul roads or equipment storage sites, etc. This work shall also include the preparation of any required Stormwater

Pollution Prevention Plan (SWPPP), including modifications and updates. The CONTRACTOR shall obtain and comply with all provisions of the State of Florida Department of Environmental Protection Permit for Stormwater Discharge from Large and Small Construction Activities (NPDES Construction Site Permit Program). Payment for this item shall be by Lump Sum (LS).

F. PAY ITEM NO. 6 – DEWATERING

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, material, and equipment and cleanup necessary for providing dewatering and disposal operation for the installation of the gravity sewer system. This item includes, well points, stilling basin, piping, pumps, pump noise mitigation and all other required dewatering appurtenances. Dewatering pumps shall have mitigation measures to reduce the noise level to less than 60 dBA measured at the base of residential structures. Discharge water exiting the CONTRACTOR's dewatering system shall not exceed background turbidity of the receiving water body as referenced by the background sampling location as determined by the ENGINEER. Discharge shall comply with SFWMD permit conditions and FDEP requirements for a Generic Permit for the discharge of Produced Groundwater from a non-contaminated site activity (62-621.300(2) FAC) and any other applicable regulations governing discharge of dewatering water. Water discharge activities shall be adjusted accordingly and corrective actions taken if the water exiting the dewatering system exceeds these requirements to be complaint with all applicable regulations. CONTRACTOR shall implement best management practices (BMPs) and install pollution control devices including but not limited to settling tanks, silt barriers, and hay bales as needed to comply with discharge water quality requirements. The CONTRACTOR will be required to apply for and follow all permit constraints and the dewatering plan. All dewatering work associated with the SFWMD Dewatering Permit shall be included in this bid item. If the CONTRACTOR uses the existing drainage system for dewatering activities then the CONTRACTOR will be required to desilt the existing drainage system. Payment of this item shall be Lump Sum (LS).

G. PAY ITEM NO. 7 – SODDING RESTORATION

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, materials, equipment, and incidentals necessary to restore all sod, as specified herein and as directed by the ENGINEER including those areas disturbed by the Contractor for pipe installations, equipment and material laydown, storage, access areas and areas disturbed outside the limits of the work. This item shall include but not be limited to: furnishing and installing sod, fertilizer, topsoil, water, grading, cutting, and preparation of subgrade, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the sod. The Contractor shall be responsible for the proper protection and maintenance of the sodded areas until a

satisfactory uniform stand of grass has been established (minimum of two cuttings). Where sod fails to grow properly, the Contractor shall re-sod at his/her own expense, until satisfactory to the Engineer. No additional payment for sod will be made for this project. Payment of this item shall be by Lump Sum (LS).

H. PAY ITEM NO. 8 – TREE AND SHRUBBERY RESTORATION

Under this Item, the Contractor shall provide all labor, materials, equipment and incidentals necessary to restore and replace shrubbery and trees that are disturbed by the construction, as specified herein and as directed by the Engineer, including but not limited to: furnishing and installing, replacing or relocating shrubbery and trees, fertilizer, topsoil, water, grading, cutting, mulching and preparation of subgrade, cleaning the site of the work location and protection of utilities, structures, and lawns, and all other work required for the complete restoration of the existing shrubbery and trees. All trees and shrubbery damaged beyond the limits of the work (20' each way from the center of the proposed pipe or outside of the right-of-way) as a result of the contractor's operations shall be removed and replaced at Contractor's expense in accordance with the specifications and to the approval of the Owner. Payment of this item shall be by Lump Sum (LS).

I. PAY ITEM NO. 9 – ASPHALT PAVEMENT RESTORATION

Under this Item, Contractor shall provide all labor, material, and equipment required for the replacement, in kind and to the same thickness, but not less than one and a half inches (1 ½") of asphalt pavement that are damaged by construction activities as shown by hatching on the drawings. The bid price shall include but not be limited to installation, compaction, preparation and fine grading of subgrade and base, tack coat, erosion control, placement of the temporary asphalt patch, and final asphalt pavement, finishing, maintenance of traffic, and pavement markings. The cost shall include the replacement of any damaged asphalt pavement as a result of the construction activities in accordance with the specifications and to the approval of the Owner. Any roadway restoration outside of the areas depicted on the drawings will be paid for by the Contractor at no additional cost to the owner. Payment for this item shall be Lump Sum (LS).

J. PAY ITEM NO. 10 – CURB, GUTTER, & MISCELLANEOUS RESTORATION

The Contract Unit Price for this item shall constitute full compensation for the unit price shall include, but is not limited to, furnishing and installing any necessary utility repairs, curb replacement, gutter replacement, landscaping replacement, concrete sidewalk repairs, and any other restoration required to bring the project site to existing condition or better. Measurement and Payment shall be a lump sum (LS) for miscellaneous restoration required, not covered in other bid items.

K. PAY ITEM NO. 11 – PRESSURE CLEAN MANHOLE

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to pressure clean 4' manholes as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: supplying water for pressure cleaning, excavation for the manhole, disposal of all excess materials, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete cleaning of the manhole. Payment for this item shall be the actual number of Each (EA) manholes pressure cleaned.

L. PAY ITEM NO. 12 - MISCELLANEOUS MANHOLE REPAIRS (INCLUDING MORTAR, PIPE CONNECTIONS, REINFORCEMENT STEEL, HOLES, CRACKS, JOINTS, AND LEAKS)

This item of work will be measured and paid for at the unit price per each manhole, regardless of depth or size (or number and flow rate of visible leaks encountered, pipe connections, manhole type or condition). Payment shall be made per unit price per each manhole for repairing mortar, pipe connections, reinforcing steel, holes, cracks, joints, or other repairs as necessary. Payment for this item shall be per each (EA) manhole.

M. PAY ITEM NO. 13 – PRESSURE/XYPEX GROUTING

This item of work will be measured and paid for at the unit price per each manhole, regardless of depth or size (or number and flow rate of visible leaks encountered, pipe connections, manhole type or condition). Payment shall be made per unit price per each manhole for sealing or patching all visible leaks by injecting chemical grout; to relieve hydrostatic pressure outside the manhole. Payment for this item shall be per each (EA) manhole.

N. PAY TEM NO. 14 – REFORM BENCH AND CHANNEL

This item of work will be measured and paid at the unit price of each manhole repaired. Payment of the unit price will provide compensation for cleaning and patching and reforming the manhole bench and flow channels;; testing labor, tools, and equipment; maintenance of traffic; and all incidentals and materials needed to reform the manhole bench and invert. Payment for this item shall be per each (EA) manhole.

O. PAY ITEM NO. 15 – CHIMNEY ADJUSTMENT

This item of work will be measured and paid at the unit price of each manhole

repaired. Payment of the unit price will provide compensation for furnishing and installing all materials, labor, equipment and tools necessary to adjust the manhole chimney as shown on the contract drawings, as specified herein and as directed by the ENGINEER. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be per each (EA) manhole.

P. PAY ITEM NO. 16 – NEW MANHOLE COVER

This item of work will be measured and paid for at the unit price per each, regardless of size. Payment of the unit price for each will provide compensation for furnishing and installing the new cover; salvaging and transporting to the location designated by the OWNER of all replaced cast iron materials; cleanup; labor, tools, and equipment; maintenance of traffic; and all incidentals necessary to obtain a new watertight cover, complete in place. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be per each (EA) manhole.

Q. PAY ITEM NO. 17- NEW ADJUSTMENT RING

This item of work will be measured and paid for at the unit price per each, regardless of size. Payment of the unit price for each will provide compensation for furnishing and installing the new adjustment ring; salvaging and transporting to the location designated by the OWNER of all replaced cast iron materials; cleanup; labor, tools, and equipment; maintenance of traffic; and all incidentals necessary to obtain a new adjustment ring, complete in place. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be per each (EA) manhole.

R. PAY ITEM NO. 18 – NEW FRAME

This item of work will be measured and paid for at the unit price per each, regardless of size. Payment of the unit price for each will provide compensation for furnishing and installing the new frame; salvaging and transporting to the location designated by the OWNER of all replaced cast iron materials; cleanup; labor, tools, and equipment; maintenance of traffic; and all incidentals necessary to obtain a new watertight frame, complete in place. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be per each (EA) manhole.

S. PAY ITEM NO. 19 – CURED IN PLACE PIPE LINING – 8”

This work will be measured and paid at the unit price per linear foot (LF) of liner as delineated by the pipe size. Measurement shall be made based on the horizontal projection of the centerline of the permanently installed liner between manholes, measured to the nearest foot from the inside wall of manhole to inside wall of manhole for each section lined. Each unit price bid shall include, but not be limited to, all necessary or required resident notification, sewer pipe cleaning, including mechanical root removal for the areas as noted as having root intrusion, and preparation of the existing sewer, maintenance of traffic, including blocking or plugging incoming lines; post-lining television surveys; chemical joint sealing if necessary; pipe lining; the cost of obtaining a water meter, cleaning; sample collection; by pass pumping; grouting to prevent infiltration at service connections and liner ends; cleanup; documentation and reporting; and all labor, materials and equipment required to provide a complete and acceptable liner installation.

T. PAY ITEMS 20 – 23 – 8” PVC SDR 26 PVC REPLACEMENT

This work, of whatever nature, will be measured and paid for at the unit price per foot (LF) as delineated by pipe size and depth brackets as named in the Bid Proposal. Payment of the unit price shall provide full compensation for all necessary and required work including, but not limited to post-construction television inspection; maintenance of traffic; excavation; removal, transportation and disposal of existing pipe regardless of type; removal, transportation and disposal of material generated by cleaning and preparation; transportation and handling costs; furnishing and installing all materials including pipe, pipe joint material including lubricant, pipe bedding, flexible banded couplings and adapters, rigid sleeves with compression joints, embedment materials; flow isolation by pass pumping; backfill; compaction; complying with the State of Florida Trench Safety Act; supporting and protecting existing utilities as required; dewatering; sheeting and shoring, if necessary; cutting pipe; making all connections within the lines to existing sewers; testing; cleanup; final cleanup; all labor, materials and equipment required to provide a complete and acceptable pipe installation, including all appurtenances, in accordance with the Contract Documents, the manufacturer’s specifications and compliance with all applicable regulatory requirement; and all incidentals related to achieve a repaired segment of sewer gravity main complete in place, tested, and ready for use. Costs associated with providing suitable bedding and backfill materials, as well as removing and disposing of unsuitable materials, connecting to any existing manholes, are included under these pay items and will not be separately compensated. Cleaning and television inspection (post construction) of the entire segment of main (manhole to manhole) is included in this bid item, regardless of the length of pipe constructed. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required

U. PAY ITEM NO. 24 – 4” PVC LATERAL – SINGLE SERVICE W/ CLEANOUT ON EXISTING GRAVITY MAIN OR INTO EXISTING

MANHOLE

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping, fittings, adapters, EMS markers, cleanouts, and any other appurtenances necessary to connect the single short service to the sanitary sewer shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing and sheeting, the furnishing and compaction, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of sewer service lines, cleanout, and appurtenances. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) single short service installed.

V. **PAY ITEM NO. 25 – 6” PVC LATERAL –DOUBLE SERVICE W/ CLEANOUTS ON EXISTING GRAVITY MAIN OR INTO EXISTING MANHOLE**

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping, fittings, adapters, EMS markers, cleanouts, and any other appurtenances necessary to connect the double service to the sanitary sewer shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing and sheeting, the furnishing and compaction, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of sewer service lines, cleanout, and appurtenances. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) single service installed.

W. **PAY ITEMS NO. 26-28 – CLEAN AND TELEWISE EXISTING LATERAL, MAKE POINT REPAIRS, INSTALL CURED IN PLACE PIPE LINING, AND INSTALL NEW CLEANOUTS, AND ASSOCIATED PIPING REQUIRED**

This work will be measured and paid at the unit price per each (EA) as delineated in the Bid Forms. The unit price bid shall include, but not be limited to, all necessary or

required resident notification, sewer pipe cleaning and preparation of the existing sewer, including blocking or plugging incoming lines, maintenance of traffic, removal; transportation and disposal of material generated by cleaning and preparation; pre and post-lining television surveys; chemical joint sealing if necessary; pipe lining; the cost of obtaining a water meter, cleaning; sample collection; by pass pumping; grouting to prevent infiltration at liner ends; cleanup; documentation and reporting; and all labor, materials and equipment required to provide a complete and acceptable liner installation. This item includes furnishing and installing all cleanouts, piping, fittings, and appurtenances required to meet the service lateral standard details as shown in the Contract Drawings. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be per each service (EA).

X. PAY ITEM NO. 29 – PROPOSED LIFT STATION, INCLUDING ALL MECHANICAL, STRUCTURAL, SITE, ELECTRICAL, AND INSTRUMENTATION WORK (OWNER FURNISHED PUMPS, TO BE INSTALLED BY CONTRACTOR)

Under this Item, Contractor shall provide all labor, material, and equipment required to satisfactorily furnish and install a new lift station as shown on the drawings. The work shall include the installation of the pumps to be furnished by the Owner, furnishing and installing the extension of the wet well, ,rails, floats, hatches, safety devices, valve vault, discharge piping, coatings, piping, valves, appurtenances, testing, control panels, site work, concrete work, structural work, electrical work and instrumentation work for a fully functioning system as depicted on the Drawings and as specified in the Contract Documents. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment of this item shall be by Lump Sum (LS).

Y. PAY ITEM NO. 30 – 4” 900 PVC FORCE MAIN INSTALLED OPEN-CUT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to furnish and install the 4-inch C-900 PVC force main as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the pipe trench, together with the disposal of all excess materials, bracing, sheeting, and dewatering, the installation of the PVC pipe, pipe restraints, and trace wire, the backfilling and compaction of the pipe trenches, density testing, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the water main. This work also

includes repairs to irrigation systems damaged or removed during the construction activities and shall include piping, valves, heads, controls, conduit, boxes, wires, panels, etc. All irrigation systems shall be restored to the pre-existing condition or better. This item shall also include removal and proper restoration of miscellaneous items such as mailboxes, decorative landscaping, driveway and drainage culverts, irrigation piping, etc. All mailboxes and irrigation piping removed during the course of construction are to be properly restored to the pre-existing condition or better, as directed by the ENGINEER. Where so directed by the OWNER, decorative landscaping shall be replaced. Restoration of all landscaped areas shall be equal or better than the original condition. If the CONTRACTOR elects to remove landscape material and reinstall the material at a later date, they shall be responsible for properly maintaining and watering the material while it is under their care for thirty (30) days. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment of this item shall be per Linear Foot (LF) installed.

Z. PAY ITEM NO. 31 – 4” HDPE DIPS SDR-11 INSTALLED VIA HDD

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of a 4-inch HDPE force main via horizontal directional drill methods as shown on the construction drawings, specified herein and as directed by the ENGINEER. This item includes, but is not limited to, surveying, erosion control, excavation, backfill, and compaction for entry and exit pits, maintenance of traffic, supporting and protecting existing utilities, dewatering, all pipe, fusing, drilling, reaming, slurry, pulling of pipe through the borehole, disposal of excess materials, frac-out control, pipe marking tape, tracer wire, tracer wire termination boxes, adapters, temporary restoration of irrigation systems (irrigation piping, sprinkler heads, etc.), providing temporary sidewalks and walkways interrupted during construction activities, temporary restoration of mailboxes, temporary restoration of fences, temporary restoration of driveways, temporary restoration of roads, temporary restoration of structures, etc., and removal and disposal of sidewalks, driveways, asphaltic concrete, rock base and subgrade (including necessary sawcutting). Payment for this item is per Linear Foot (LF) of horizontal distance transversed of the 4-inch HDPE pipe as measured along the ground surface and not actual quantity of piping installed. Payment for this item will be from the end of the 4-inch pipe with the pulling head connected to it to the end of the last section of 4-inch pipe pulled as part of the HDD. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required.

AA. PAY ITEM NO. 32 – 4” PLUG VALVE WITH VALVE BOX

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of 4-INCH plug

valves as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the butterfly valves, restrained flanged coupling adapters, valve boxes, valve key extensions, bolts, nuts, gaskets, restraints, backfilling, compaction, concrete thrust blocks, mechanical joint restraints, concrete collars, Operation and Maintenance Manuals, and concrete supports, and protection of utilities, structures, trees, and shrubs. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) valve installed.

BB. PAY ITEMS NO. 33 - 35 – 4” DI MJ FITTINGS

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of Protecto 401 Ceramic Epoxy lined compact ductile iron fittings, including plugs, as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the ductile iron fittings, bolts, nuts, gaskets, flanges, restraints, glands, markers, backfilling, compaction, concrete thrust blocks, location and protection of utilities. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be each (EA) fitting installed.

CC. PAY ITEM NO. 36 – 4” HDPE X MJ ADAPTER

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of a HDPE/PVC Transition Adapter as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the blow-off assembly, bolts, nuts, gaskets, restraints, glands, backfilling, compaction, concrete thrust blocks concrete collars, Operation and Maintenance Manuals, and concrete supports, and protection of utilities, structures, trees, and shrubs. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) HDPE/PVC Transition Adapter.

DD. PAY ITEM NO. 37 – AIR RELEASE VALVE

The Contract Unit Price for this item shall constitute full compensation for furnishing

all materials, labor, equipment and tools necessary to install air release valves as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the manhole, disposal of all excess materials, bracing, sheeting and dewatering, the installation of the air release valve, coated manhole with frame and cover or box as required on the drawings, rock base, corporation stop, check valve, fittings, bolts, nuts, gaskets, flanges, restraints, backfill and compaction, testing, supports, concrete slab, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the air release valves. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) air release valve installed.

EE. PAY ITEM NO. 38 – CONNECT TO EXISTING FORCE MAIN

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to connect the proposed 4-inch force main to the existing force main where shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: removing existing pipe and fittings, excavation and backfill thereof, sheeting and bracing, dewatering, protection and support of existing utilities, proper handling and disposal of pipe at an approved facility, installing adapters for new the new pipe and fittings, providing access to roadway, driveways, and sidewalks at all times, backfilling and compaction, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs, and lawns, and all other work required for connecting to the existing force main. This item also includes any required restoration of areas affected by construction to equal or better condition, including roadway replacement, sodding, curb and gutter, landscaping, and any other miscellaneous restoration required. Payment for this item shall be the actual number of Each (EA) connection installed.

END OF SECTION