ADDENDUM NO. 4

TO:	**ALL BIDDERS**
PROJECT:	**ITB WS 20-19 Gravity Sewer Rehab (2019)**
BID TIME AND DATE:	**3:30 PM CST, February 20, 2019**
OWNER:	**OKALOOSA COUNTY WATER AND SEWER SYSTEM**

February 13, 2019

A Mandatory Pre-Bid Meeting was held on January 23, 2019. Pursuant to issues discussed and questions arising from that meeting as well as questions subsequent to that meeting, the following items are hereby incorporated into the project contract documents and specifications. **Note, any deletions from original documents will be ~~stricken through~~ and any additions or replacements of deletions shall be *italicized* in this addendum:**

ITEM NO. 1 - Page 00003, Bid Requirements

TERM OF CONTRACT shall be modified as follows, to allow for appropriate CPI increases at time of contract renewals and awarding of Contract to more than one Bidder.

> The contract will begin when fully executed by all parties and continue for three (3) years with the option of two (2) one (1) year renewals, *with appropriate CPI increases*, upon mutual agreement of both parties. *The County has the right to award the contract to more than one vendor.*

ITEM NO. 2 - SECTION 00020

Emphasized the following information:

- **NOTE THE CHANGE IN BID TIME IN ADDENDUM #3** - Bid time and date for receipt of bids is **3:30** PM local time on **February 20, 2019** at 101 James Lee Blvd, Room 282, Crestview, FL 32536

- Bids will be opened at that time.
- **Note - Not a Next Day Delivery Service**
- **Note – Security at Entry Point – allow time for security clearance if hand delivering**

ITEM NO. 3 - SECTION 00100

Emphasized the following information:

- Note on Page 00100-1 - A list of quantities of items, outlined after the Bid Schedule, shall be used to evaluate bidder's proposal based on the unit prices provided in the official Bid Schedule…. No guarantee of quantities of Work required during this Contract or Work allocated to individual Contractor(s) during the life of the Contract is provided.
- Number of Contractors – Intent is to award to more than one Contractor. This is clarified elsewhere in this Addendum.
- Term of Contract (00100-1) – Three years with 2 one-year renewals upon mutual agreement, with appropriate CPI increase, which is clarified elsewhere in this Addendum.
- Cooperative Pricing (00100-2) – all governmental agencies within Okaloosa County with same terms. Also Article 22 (00100-8) Authority to Piggyback to any governmental agencies (within State of FL)
- Pre-Bid Activity (00100-3) - Questions and answers must be in writing. No questions will be answered that are received after February 8, 2019. Final addendum (if needed) will be issued via email on Feb 15, 2019 as early as practicable.
- Preparation of Bid (00100-3) - Original + 2 copies of the bid form. All originals signed in blue ink.
- Article 4 (00100-4 and 5) - Submittal of Bid - Again, **not a next day delivery**
- Article 19 (00100-7) - Conflict of Interest – Certification Form is included with Bid Package
- Article 23 (00100-8) – CONE OF SILENCE - Certification Form is included with Bid Package
- Article 33 BID DOCUMENTS – Must submit all listed documents or may be deemed non-responsive.

ITEM NO. 4 - SECTION 00300

- 00300-Bid Schedule (beginning on 00300-1) Additions, particularly to separate pricing for stormwater and wastewater work, were made in Addendum #3 for your use during planning for your final bid. There were inadvertently some duplications in that schedule that will be corrected before final publication and some additions and deletions that have been made in the interim. The FINAL REVISED Section 00300 Bid Schedule included at the end of this Addendum. USE the FINAL REVISED Section 00300 to submit your bid!

- Proposal Evaluation – Re-iterated proposal evaluation covered on page 00100-1

ITEM NO. 5 - ~~SECTION 00430 Bid Bond~~ (DELETE)

This section shall be deleted in its entirety as there are no bonds required for this project.

ITEM NO. 6 - SECTION 00451 Qualifications Statement

- Schedules A and B (pages 00451-8 through 00451-10) may include only current and previous experience during last five years with maintenance and/or service contracts. You are **NOT** required to list all current projects or include all previous projects completed within the last five years, as noted on Schedule B.
- For "Cost of Work" (last column) on both schedules, please indicate total work completed to date for current projects (Schedule A) and the total final completed contract amount for previous work (Schedule B).

ITEM NO. 7 - SECTION 00520

- Article Numbering corrected in this Addendum below and CPI increases added for renewals.
- 4.01 Time – Three-year contract with option for 2 one-year additional renewals (00520-1), *with appropriate CPI increases at each renewal*.
- ~~4.02~~ *4.03* Contract Times: Days – Substantial and final completion dates for each Task Order
- ~~4.03~~ *4.04* Liquidated Damages - $500 per day, based on dates in each task order
- 6.02 – Retainage – will be per Task Order, not for entirety of contract.

ITEM NO. 8- SECTION 00800 Supplementary Conditions

Note SC-5.04 Insurance Requirements (00800-1 and 2). Particularly note State of FL Workmen's Comp requirements and assure that you will have appropriate FL WC during life of this contract.

ITEM NO. 9 - SECTION 00950 Special Conditions

- ~~Article 1 (00950-1) Performance and Payment Bonds~~ – Is hereby deleted as there are no bonds required for this project.
- Article 23 (00950-7) Hydrant Meter - no charge for water but Contractor must acquire hydrant meter from OCWS, with refundable deposit.
- Addition - *Article 24 (00950-7) Storage of Contractor's Equipment – Storage of Contractor's equipment on OCWS property may be addressed on a case-by-case basis during the contract period for special circumstances, but there is no guarantee, implied or otherwise, that*

Okaloosa County will provide storage locations for any Contractor owned equipment or materials.

ITEM NO. 10 - SECTION 01010 Summary of Work

Summary - Review – Rehab of gravity sewer lines, including service connections via in-situ point repairs or in-situ relining, as well as stormwater piping. Also included will be the rehabilitation of sanitary sewer manholes, wetwells and other wastewater structures as needed.

ITEM NO. 11 - SECTION 01150 Measurement and Payment

All bid items should be covered specifically in this section

ITEM NO. 12 – SECTION 01740 Warranties and Bonds

As discussed in the Pre-bid, there are no bonds associated with this project. All warranties are provided by the successful Contractor.

Warranties for rehabilitation and/or repair activities (any installation of products including CIPP, manhole or other structure relining, lateral lining and all grouting) performed under this contract are to be for ten (10) years from the final completion of each Task Order. Any other references to other periods are formally removed via this Addendum.

Article 1.1B shall now read as follows:

Indemnify the Owner against any repairs which may become necessary to any part of the work performed and to items of equipment and systems procured for or furnished under this Contract, arising from defective workmanship or materials used therein, for a period of ten (10) years after acceptance from the final *completion* date of ~~final resolution of the Owner accepting Work~~ *each Task Order, for Work performed under said individual Task Order.*

ITEM NO. 13 – SECTION 02580 Rehab of Sewers by CIPP Methods

- 1.7-A – Manufacturer

  Pre-Approved Manufacturers:

  I. Applied Felts
  II. Liner Product, LLC
  III. *Pipenology, LLC*

ITEM NO. 14 – SECTION 02590 Manhole Rehabilitation

- 1.9 – Warranty – The supplied lining system shall include a 10-year limited warranty covering both materials AND installation beginning on the date of final

~~acceptance~~ *completion of each Task Order, for Work completed during said Task Order*.

- *1.10 – Miscellaneous Application Details*
  - *Existing steps to be removed from all manholes or other structures to be lined, prior to relining activities, unless directed otherwise by Engineer or Owner.*
  - *No relining of inverts to be required, material installation should stop at the bench/invert boundary.*
  - *No frame or cover work is included in this contract.*
- 2.1 – Manufacturers
  - Approved manufacturers Spectrashield with AnchorShield and Tnemec ***and Sprayroq*** (Epoxy Composite Lining System or Multi-Component Stress Panel Liner System)
  - Requests for substitution shall *meet* all requirements of Section 1.4 ~~1.03~~ Submittals, found in this Specification Section.
- 2.6 Installation of Epoxy Lining System
  1. Apply shotcrete *at a minimum of 1/16" (62.5 mils).* After shotcreting/applying cementitious surfacer, prepare surfaces as described in Paragraph *2.4* ~~1.12~~
  2. Following resurfacing, apply epoxy top coat to all surfaces scheduled to be coated in accordance with the following:

     Existing Concrete or Brick Structures *140 mils (not including shotcrete) or 207.5 mils (including shotcrete), with Epoxy Liner at a minimum of 125 mils and Glaze Coat at a minimum of 15 mils* ~~350 mils~~

ITEM NO. 15 – SECTION 02595 Rehab of Sewer Service Later Pipe

1.1 – Intent – A. The following sentence shall be added to the end of this paragraph. *The cured-in-place pipe shall create a leak-free seal between the existing lateral piping and the main sewer line.*

ITEM NO. 16 – QUESTIONS RECEIVED DURING OR SINCE THE MANDATORY PRE-BID MEETING:

BIDDERS MAY USE THE ANSWERS TO THESE QUESTIONS IN PREPARATION OF THEIR BIDS.

1. Are there any plans associated with this project?
   Answer - No, there will be no plans with this project.

2. Are these quantities for one year?
   Answer - No, they are estimated quantities for the first three areas to be addressed in this contract. There is no time limit associated with them.

3. Do you have to have any permits?

Answer - None that we are aware of for this scope of work.

4. Will the owner provide water?
   Answer - Yes, as covered in the mandatory pre-bid and Special Condition Article 23, page 00950-7 of the ITB.

5. Will the County provide a site for debris disposal?
   Answer - Yes, for disposal of sewer grit from cleaning of lines and other structures, including root cutting. Not for any debris from rehab activities (CIPP cuttings, lateral trimming, etc.)

6. Why is the set-up 0.5 for the bypass?
   Answer - That is the chosen quantity for weighting of some line items during proposal evaluation

7. Can we use trash pump and discharge hose for the bypass pumping?
   Answer - The type of equipment to be used for bypass pumping is at the discretion of the Contractor to meet the performance requirements in Section 02565, Bypass Pumping, of the Technical Specifications.

8. For the bypass pumping set-up, how much LF of discharge piping has to be assumed and what are the diameter of those?
   Answer - To be determined on a case by case basis, dependent on location of adjacent and/or upstream/downstream manholes. Contractors are expected to make their best professional judgement when determining their bid prices.

9. For the bypass pumping set-up, do we have to assume one main pump and one backup pump?
   Answer - The Emergency Plan for bypass pumping is to be determined by the Contractor and submitted within 14 days of any Notice to Proceed that is expected to include Bypass Pumping, as covered in Section 02565.

10. For the lateral connection grout, the bid schedule specifies the diameter of the mainline, can the owner please let us know the diameter of the laterals to be grouted?
    Answer - The Bid Schedule has been updated to reflect the lining of either 4” or 6” laterals in this Contract. It should be assumed that no laterals larger than 6” will be required to be grouted under this contract.

11. For the manhole rehabilitation work, the bid item calls out for ½” increments. Does that mean the contractor has to apply more than one layer of ½” cementitious lining? In that case, how many layers are generally expected?
    Answer - No, the Contractor may apply cementitious lining in more than ½” increments, as allowed by the Manufacturer of the product to be applied. There are no expectations of depth of cementitious lining as many manholes to be rehabbed in this contract have not been assessed for condition. Payment will be in ½” increments.

12. For the manhole rehabilitation work, the price per VF includes application of one layer of ½" liner. Is that correct?

    Answer - For items # 112-116, cementitious lining, yes, the price is per ½" per VF. For the remainder of the manhole/wet well rehab items, the minimum thickness is specified in each bid item, per VF.

13. The bid item 101 – 104 calls out for lateral lining. Are those T-Liners? How many LF should they extend on either side of the main? Are the laterals 4" or 6" in diameter?

    Answer - The referenced items have been updated to item #145-150 in the revised Bid Schedule. They shall be liners that meet the Technical Specifications Section 02595. Manufacturer's recommendations for distance of extension on each side of the main shall be acceptable, as long as a leak proof seal between the lateral and the main is established. There will be both 4" and 6" laterals in the system and the bid items have been revised to reflect different prices for each.

14. Are the quantities, mentioned in the bid form, the approximate quantities to be expected per year or is it for the entire 3-year period?

    Answer - The estimated quantities used to evaluate the bid proposals are derived generally from the first three areas that OCWS intends to address under this Contract (more specifics were given for the three areas in Addendum No. 3). There is no guarantee of the time length that will be required to complete the quantities in each Task Order under this contract. Time periods will be determined in each Task Order upon agreement of the Owner and Contractor, as discussed in the pre-bid.

15. Given the fact that Okaloosa County has in times past required that the Prime bidder self-perform 50%-75% or more of the contract, and you all have had issues in the past with Prime contractors not being able to adequately control schedule commitments and relying on subcontractors, could/would you consider also adding such a requirement to this contract?

    Answer- Section 00100, General Services Bid Conditions, shall be modified to include the following:

    Section 00100, *14-E Self-Performed Work*

    The Prime Bidder agrees that he shall perform a minimum of 51 percent of work by his own work forces unless specifically authorized by the Owner and Engineer and no Subcontractor shall be allowed to perform work on the project unless they are acceptable to the Owner and Engineer. The Prime Bidder shall be capable of performing a minimum of 51% of the work outlined (as defined by total value) in the quantities for proposal evaluation in Section 00300 with in-house personnel. Bid Schedule items shall be indicated as Bidder (B) or Sub-contractor (S) for use in calculation of the percentage during proposal evaluation. Those items indicated as to be self-performed will be required to be performed by in-house personnel during the life of the Contract, unless agreed upon otherwise by the Owner and Engineer during a Task Order preparation.

16. Will the Owner/Engineer please provide the budget for this project?
    Answer - As discussed in the mandatory pre-bid, OCWS has designated $500,000 per year for sewer rehab/maintenance in their CIP for the next five years. Additional funds may become available due to grant funding or other sources during the life of this contract, but none are guaranteed.

17. Will the Owner/Engineer please provide a copy of the current plan holders list?
    Answer - There is no current plan holders list as the documents are available to anyone on the County's selected bid site(s). However, the sign-in sheet for the mandatory pre-bid was distributed to all present at the meeting shortly after it. It is also included as an attachment to this addendum for convenience but will not be considered a part of the Contract Documents for this project.

18. Will the Owner/Engineer please provide the anticipated NTP date for this project?
    Answer - Bids will be taken on 2/20/19 and it is expected that awards of multiple contracts will be approved by the Board of County Commissioners by May of 2019. At that point, OCWS staff and their Engineer will evaluate the scope of intended work and begin preparation of a Notice to Proceed with at least one Contractor, but there is no guarantee of a start date for construction.

19. Will the Owner/Engineer please confirm if there are any prevailing wage requirements for this job?
    Answer - There are no prevailing wage requirements for this job.

20. Addendum No.1 issued a specification for the CIPP pipe lining work. Do you have a similar specification that can be issued covering the manhole/wet well rehabilitation work?
    Answer - This oversight was covered by the complete re-issuing of the ITB in Addendum #2.

21. Can you clarify whether this is to be a 1 year contract with 2 one year options (totaling 3 years) or a 3 year contract with 2 additional year options (totaling 5 years)?
    Answer - The latter, as covered on page 00003 of the ITB, under Term of Contract.

22. Will the owner/engineer please provide any previous itemized bid tabulations for projects of similar scope?
    Answer- C09-1772 is a similar contract and is available on the county's website.

23. With this being up to a 5-year contract, can an escalation be included after the initial 3 year contract is up for renewal?
    Answer - Appropriate CPI increases have been added earlier in this Addendum for the renewals of this contract.

24. Page 00100-5, Section 5 states manufacturer's warranty to be provided with the bid. SC0950-7, Section 22: States Project Warranty of 5 years, 02590-7, Section 1.9 states 10-year warranty for the specified manhole rehab. Other MH rehab materials are 5 years. Typical CIPP rehab warranty is one year, CIP lateral rehab one year, and the AV grout specified in these specifications disclaims all warranties. As the various products to be provided in this contract have varying, if any, warranties, we request that the manufacturer's warranty be acceptable.

    Answer - Warranty for the installed products in this contact shall be 10 years, as described in more detail in Item No. 12 of this Addendum.

25. Page 2567-1 section 2.1 A states that the camera will be enclosed in an explosion-proof case. Explosion-proof rated CCTV equipment is generally used in industrial facilities, are limited in availability, and more expensive than convention sewer CCTV camera systems. We request 'sealed waterproof case' be exchanged for 'explosion-proof case'

    Answer - Section 2.1-A shall be modified to read as follows – The camera shall be enclosed in *a sealed waterproof case* ~~an explosion-proof~~ case and….

26. Page 02570-5 Section 3.5 D-1 States all lateral connections not otherwise addressed are to be chemically grouted. However, the bid form shows only 10 for comparison purposes. Will all the services attempt to be grouted, even those with no problems, or will they be grouted on an as-needed basis?

    Answer - As there are no Drawings associated with this maintenance contract and there is no expectation of a high number of laterals requiring grouting, Section 02570, Article 3.5 D-1 shall be modified to read as follows ~~—All lateral connections that are not designated on the Drawings or directed by the Owner and/or Engineer to be replaced via excavation or CIPP lining~~ *Lateral connections shall be chemically grouted, if directed by the Owner/Engineer*, after the CIPP liner is installed …

27. Page 02580-3, Section 1.5-14 requires certified test results of the CIPP. A. We highly recommend the thickness of the samples also be included with the structural property testing to assure the County the pipe meets the design requirements, and B. Will post installation testing of installed materials conducted by the Manufacturer be acceptable?

    Answer –

    A. Section 02580, Article 1.5-14 shall be modified as follows: Certified test results of structural properties *and liner thicknesses* of *finished* CIPP samples (*no more frequently than every 2,000 LF of installed pipe or weekly, whichever is less stringent).*

    B. No, when required, post installation testing of installed materials shall be conducted by a third party, not by the Manufacturer.

28. Page 02580-2, Section 1.3C; 2580-6, section 2.1 B-13d, and the bid form state minimum CIPP liner thicknesses such as 6mm for 8" pipe. The 6mm nomenclature for CIPP refers to the nominal manufactured tube thickness. We would like clarification that thickness referred to are nominal.

Answer - No, the thicknesses referred to in the referenced section and the bid form are finished thicknesses. Section 02580, Article 1.3-C shall be modified as follows: Design liner to least possible *final* thickness, but in no instance less than *4.5mm* ~~4mm~~ for 6" pipe and no less than….

29. Page 02580-2, Section 1.3A, 2580-6 and section 2.1B-13 require thickness calculations be based on fully deteriorated ASTM design. However on the bid form pipe depth ranges are included in the CIPP descriptions up to 26' in depth. The CIPP thickness on the bid form cannot conform to FD design on the deeper depth ranges. Should site specific design require a 15" x 9mm, regardless of depth, then that would be the required installation. We recommend that the pipe depth ranges on the bid form be omitted to prevent contradiction or conflict.
    Answer - We concur and have removed the pipe depth ranges from the Revised Final Bid Schedule.

30. Page 2580-9, Section 3.7 C, Contractor to stop infiltration into pipe prior to installation. Will the grouting pay items be utilized for the contractor to accomplish this? CIPP Resins are capable of performing in the presence of small levels of infiltration. We'd recommend replacing 'to prevent' with 'that could potentially result in' as to not perform excessive or unnecessary grouting.
    Answer - Grouting may be used on a case by case basis when excessive infiltration is present. However, Section 02580, Article 3.7 C. shall now read as follows – Contractor shall stop infiltration or leakage into the existing pipeline ~~to prevent~~ t*hat could potentially result in* contamination of resin in liner.

31. Page 2580-9 Section 3.7, Hydrophilic end seals, such as Greenstreak is commonly required to be placed at the manhole ends of the existing pipe prior to CIPP installation and we recommend its addition. This seal will prevent potential leakage at the manhole between the existing pipe and the CIPP.
    Answer - We concur. The following addition shall be added to Section 02580, Article 3.7: *G. Hydrophilic end seals – A hydrophilic end seal, either Greenstreak or LMK EndSeal or approved equal, shall be installed at the manhole ends of existing pipe prior to CIPP installation.*

32. Page 2580-9, Section 3.7 F-1 and 3.8 C. Of, particular importance, this language leaves the determination of leakage of the CIPP being made visually and can be subjective. In the industry standard ASTM F-1216, referenced repeatedly in the specifications, the determination of leakage is via an internal pressure test utilizing air or water that has long been the industry standard. This determination is pass/fail without any potential ambiguity, subjectivity, or interpretive call made from a visual observation. We strongly request that all CIPP installations be submitted to leakage testing as per ASTM F1216 standards in lieu of section 3.8C. This internal pressure testing language would be consistent with the grouting testing language.
    Answer - No change will be made to the two referenced articles.

33. Page 2595-2, Section 1.4A states an excavation pit or cleanout be installed should a cleanout not exist. With the CIP lateral length requirement of 3', a cleanout or pit

should not be necessary. Should a cleanout be desired by the County, can they be installed by the owner or others?

Answer - Yes, if the addition of a cleanout is required for lateral lining installation, it will be installed by the Owner.

34. Traffic Control: We would like to request the addition of traffic control pay items for county, state, or other multi lane heavily travelled thoroughfares that are common in the County. Handling this component of the work separately rather than an incidental item to the rehab would be much more straightforward and cost effective for the County and contractor. Other municipalities have handled this with separate pay items for 3-lane, 4-lane, and 5+-lane and used in those situations only. The need for substantial traffic control is probable with heavy tourism traffic and the piggyback potential of other agencies within the county.

    Answer - Pay items for MOT (traffic control) on multi-lane roadways, if required, has been added at the end of the revised bid schedule.

35. Page 0300-6: Bypass pumping bid form. We would like to request the addition of a bid item per each for Traffic Ramp in the bypass section. With the complexities and locations of bypass unknown, renting, transporting and setup of traffic ramps to accommodate traffic would be likely, especially with piggyback potential of other agencies within the county.

    Answer - Pay item for traffic ramps for bypass pumping, if required, has been added in the MOT section at the end of the revised bid schedule.

RECEIPT OF THIS ADDENDUM SHALL BE ACKNOWLEDGED BY WRITING THIS ADDENDUM NO. AND DATE IN THE SPACE PROVIDED ON PAGE 00300-10 OF THE REVISED FINAL BID PROPOSAL.

Beth Brant, PE

Beth Brant, P.E. - POLY, Inc.

Section 00300 (Per Final Addendum)
FINAL BID SCHEDULE
THIS SCHEDULE MUST BE USED TO SUBMIT BID

BID #: ITB WS 20-19

BASE BID (Item 1-150) – GRAVITY SEWER REHAB PROJECT (2019)

Item #	Bidder (B) or Sub (S)		Unit	UNIT PRICE
		Mobilization Services - Pipe Lining/Grouting		
1	[redacted]	Up to $30,000 per Work Order	EA	
2		$30,001 to $60,000 per Work Order	EA	
3		$60,001 and Up per Work Order	EA	
		Mobilization Services – WW or SW Structure Lining/CCTV/Cleaning/Root Removal		
4	[redacted]	Up to $30,000 per Work Order	EA	
5		$30,001 to $60,000 per Work Order	EA	
6		$60,001 and Up per Work Order	EA	
7		Flagmen (All Services)	Per Hour	
		Cured in Place Pipe (Wastewater Piping) All thicknesses are final		
8		8" x 6mm	LF	
9		10" x 6mm	LF	
10		12" x 6 mm	LF	
11		12" x 7.5mm	LF	
12		15'' x 6mm	LF	
13		15" x 7.5mm	LF	
14		15" x 9mm	LF	
15		18" x 7.5mm	LF	
16		18" x 9mm	LF	
17		18" x 10.5mm	LF	
18		21" x 9mm	LF	
19		21" x 10.5mm	LF	
20		21" x 12mm	LF	
21		24" x 9mm	LF	

22		24" x 12mm	LF	
23		24" x 13.5mm	LF	
24		27" x 10.5mm	LF	
25		27" x 13.5mm	LF	
26		27" x 15mm	LF	
27		30" x 12mm	LF	
28		30" x 15mm	LF	
29		30" x 16.5mm	LF	
30		Remote Cutting of Branch Sewer Service Connection	EA	
31		Remote Removal of Protruding Service Lateral	EA	
		Cured in Place Pipe (Stormwater Piping) All thicknesses are final		
32		10" x 6mm	LF	
33		12" x 6 mm	LF	
34		12" x 7.5mm	LF	
35		15'' x 6mm	LF	
36		15" x 7.5mm	LF	
37		15" x 9mm	LF	
38		18" x 7.5mm	LF	
39		18" x 9mm	LF	
40		18" x 10.5mm	LF	
41		21" x 9mm	LF	
42		21" x 10.5mm	LF	
43		21" x 12mm	LF	
44		24" x 9mm	LF	
45		24" x 12mm	LF	
46		24" x 13.5mm	LF	
47		27" x 10.5mm	LF	
48		27" x 13.5mm	LF	
49		27" x 15mm	LF	
50		30" x 12mm	LF	
51		30" x 15mm	LF	
52		30" x 16.5mm	LF	
53		36" x 12mm	LF	
54		36" x 13.5mm	LF	
55		36" x 15mm	LF	
		CCTV and Cleaning		
56		Root Removal in 8" and 10" WW Piping	LF	
57		Root Removal in 12" and 15" WW Piping	LF	
58		Root Removal in 12" and 15" SW Piping	LF	

59		Root Removal in 18" and 21" WW Piping	LF	
60		Root Removal in 18" and 21" SW Piping	LF	
61		Root Removal in 24" WW Piping	LF	
62		Root Removal in 24" SW Piping	LF	
63		Root Removal in 27" WW Piping	LF	
64		Root Removal in 27" SW Piping	LF	
65		Root Removal in 30" WW Piping	LF	
66		Root Removal in 30" SW Piping	LF	
67		Root Removal in 36" WW Piping	LF	
68		Root Removal in 36" SW Piping	LF	
69		TV Inspection of 6"-12" WW Piping	LF	
70		TV Inspection of 6"-12" SW Piping	LF	
71		TV Inspection of 15"-21" WW Piping	LF	
72		TV Inspection of 15"-21" SW Piping	LF	
73		TV Inspection of 24"-36" WW Piping	LF	
74		TV Inspection of 24"-36" SW Piping	LF	
75		Additional Setup for TV Inspection	EA	
76		Normal Cleaning, 8" and 10" WW Piping	LF	
77		Heavy Cleaning, 8" and 10" WW Piping	LF	
78		Normal Cleaning, 8" and 10" SW Piping	LF	
79		Heavy Cleaning, 8" and 10" SW Piping	LF	
80		Normal Cleaning, 12" and 15" WW Piping	LF	
81		Heavy Cleaning, 12" and 15" WW Piping	LF	
82		Normal Cleaning, 12" and 15" SW Piping	LF	
83		Heavy Cleaning, 12" and 15" SW Piping	LF	
84		Normal Cleaning, 18" and 21" WW Piping	LF	
85		Heavy Cleaning, 18" and 21" WW Piping	LF	
86		Normal Cleaning, 18" and 21" SW Piping	LF	
87		Heavy Cleaning, 18" and 21" SW Piping	LF	
88		Normal Cleaning, 24" WW Piping	LF	
89		Heavy Cleaning, 24" WW Piping	LF	
90		Normal Cleaning, 24" SW Piping	LF	
91		Heavy Cleaning, 24" SW Piping	LF	
92		Normal Cleaning, 27" WW Piping	LF	
93		Heavy Cleaning, 27" WW Piping	LF	
94		Normal Cleaning, 27" SW Piping	LF	
95		Heavy Cleaning, 27" SW Piping	LF	
96		Normal Cleaning 30" WW Piping	LF	
97		Heavy Cleaning 30" WW Piping	LF	

98		Normal Cleaning 30" SW Piping	LF	
99		Heavy Cleaning 30" SW Piping	LF	
100		Normal Cleaning, 36" WW Piping	LF	
101		Heavy Cleaning, 36" WW Piping	LF	
102		Normal Cleaning, 36" SW Piping	LF	
103		Heavy Cleaning, 36" SW Piping	LF	
		Bypass Pumping		
104		Bypassing Setup for Each 3" Pump	EA	
105		Bypassing Setup for Each 4" Pump	EA	
106		Bypassing Setup for Each 6" Pump	EA	
107		Bypassing Setup for Each 8" Pump	EA	
108		Bypassing Setup for Each 3" Pump	Per Hour	
109		Bypassing Setup for Each 4" Pump	Per Hour	
110		Bypassing Setup for Each 6" Pump	Per Hour	
111		Bypassing Setup for Each 8" Pump	Per Hour	
		Manhole/Wet Well Rehabilitation		
112		Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs 6' or less deep	VF	
113		Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 6' up to 8' deep or less	VF	
114		Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 8' up to 10' deep or less	VF	
115		Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 10' up to 12' deep or less	VF	
116		Cementitious Underlayment (1/2" increments) for Structural Rehab of greater than 4' Diameter MHs and WWs	SF	
117		Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) 6' deep or less	VF	
118		Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) greater than 6' up to 8' deep or less	VF	
119		Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) greater than 8' up to 10' deep or less	VF	

120		Polymer/Epoxy System Lining of 4' Diameter MHs (200 mil minimum) greater than 10' up to 12' deep or less	VF	
121		Polymer/Epoxy System Lining of greater than 4' Diameter (200 mil minimum) MHs and WWs	SF	
122		Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) 6' deep or less	VF	
123		Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 6' up to 8' deep or less	VF	
124		Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 8' up to 10' deep or less	VF	
125		Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 10' up to 12' deep or less	VF	
126		Additional Cost for Polymer/Epoxy System Lining of greater than 4' diameter (Additional 100 mils) MHs and WWs	SF	
127		Concrete for rebuilding of Existing bench and invert of MHs	CY	
128		Removal of Existing HDPE Lining of MHs or WWs	SF	
129		Removal of Existing Polymer/Epoxy Lining of MHs or WWs	SF	
130		Bench and Invert Repair 48" MH	EA	
131		Bench and Invert Repair 60" MH	EA	
132		Bench and Invert Repair 72" MH	EA	
133		Soil Stabilization of Manhole Exterior – per gallon of Grout (prior to dilution)	GAL	
		Grouting		
134		8" Mainline Grout (up to 5 gal)	EA	
135		10" Mainline Grout (up to 5 gal)	EA	
136		12" Mainline Grout (up to 5 gal)	EA	
137		15" Mainline Grout (up to 5 gal)	EA	
138		18" Mainline Grout (up to 5 gal)	EA	
139		Lateral Connection Grout on 8" main (up to 5 gal, undiluted quantity)	EA	
140		Lateral Connection Grout on 10" main (up to 5 gal, undiluted quantity)	EA	

141		Lateral Connection Grout on 12" main (up to 5 gal, undiluted quantity)	EA	
142		Lateral Connection Grout on 15" main (up to 5 gal, undiluted quantity)	EA	
143		Lateral Connection Grout on 18" main (up to 5 gal, undiluted quantity)	EA	
144		Cost/Gallon of grout in excess of 5 gal (undiluted quantity	GAL	
		Lateral Lining		
145		4” Lateral Liner up to 3' long in 8" main	EA	
146		4” Lateral Liner up to 3' long in 10" main	EA	
147		4” Lateral Liner up to 3' long in 12" or larger main	EA	
148		6” Lateral Liner up to 3' long in 10" main	EA	
149		6” Lateral Liner up to 3' long in 12" or larger main	EA	
150		Cost/Additional Length of lateral liner (4 or 6" service)	LF	
		Maintenance of Traffic on Multi-Laned Roads		
151		Traffic control for three-lane roadway, if required	Per Day	
152		Traffic control for four-lane roadway, if required	Per Day	
153		Traffic control for five-lane roadway, if required	Per Day	
154		Traffic control for six-lane or greater roadway, if required	Per Day	
155		Traffic ramps for bypass pumping piping, if required	Per Day	

Proposal Evaluation - The following list of quantities of items shall be used to evaluate bidder's proposal based on the unit prices provided in the bid schedule above. All work allocated under this Contract shall be based on the unit prices established in the bid schedule and Contractor will be compensated for actual work performed only. No guarantee of quantities of Work required during this Contract or Work allocated to individual Contractor(s) during the life of the Contract is provided. NOTE: Not all bid items are included in the list of items to be used to evaluate bidder's proposal.

Item #	QUANTITIES FOR BID EVALUATION	Unit	QUANTITY
	Mobilization Services - Pipe Lining/Grouting		
1	Up to $30,000 per Work Order	EA	1
2	$30,001 to $60,000 per Work Order	EA	1
3	$60,001 and Up per Work Order	EA	3
	Mobilization Services – WW or SW Structure Lining/CCTV/Cleaning/Root Removal		
4	Up to $30,000 per Work Order	EA	1
5	$30,001 to $60,000 per Work Order	EA	1
6	$60,001 and Up per Work Order	EA	2
7	Flagmen	Per Hour	40
	Cured in Place Pipe (Wastewater Piping)		
8	8" x 6mm	LF	29000
9	10" x 6mm	LF	6100
10	12" x 6 mm	LF	600
11	12" x 7.5mm	LF	1
12	15'' x 6mm	LF	300
13	15" x 7.5mm	LF	1
14	15" x 9mm	LF	1
15	18" x 7.5mm	LF	300
16	18" x 9mm	LF	1
17	18" x 10.5mm	LF	1
18	21" x 9mm	LF	200
19	21" x 10.5mm	LF	1
20	21" x 12mm	LF	1
21	24" x 9mm	LF	200
22	24" x 12mm	LF	1
23	24" x 13.5mm	LF	1
24	27" x 10.5mm	LF	1
25	27" x 13.5mm	LF	1
26	27" x 15mm	LF	1
27	30" x 12mm	LF	1
28	30" x 15mm	LF	1
29	30" x 16.5mm	LF	1

30	36" x 12mm	LF	1
31	36" x 13.5mm	LF	1
32	36" x 15mm	LF	1
33	Remote Cutting of Branch Sewer Service Connection	EA	200
34	Remote Removal of Protruding Service Lateral	EA	20
	CCTV and Cleaning		
56	Root Removal in 8" and 10" WW Piping	LF	3000
57	Root Removal in 12" and 15" WW Piping	LF	300
59	Root Removal in 18" and 21" WW Piping	LF	1
61	Root Removal in 24" WW Piping	LF	1
39	Root Removal in 27" WW Piping	LF	1
66	Root Removal in 30" SW Piping	LF	1
68	Root Removal in 36" SW Piping	LF	1
69	TV Inspection of 6"-12" WW Piping	LF	35000
71	TV Inspection of 15"-21" WW Piping	LF	350
74	TV Inspection of 24"-36" SW Piping	LF	100
75	Additional Setup for TV Inspection	EA	3
76	Normal Cleaning, 8" and 10" WW Piping	LF	30000
77	Heavy Cleaning, 8" and 10" WW Piping	LF	5000
80	Normal Cleaning, 12" and 15" WW Piping	LF	350
81	Heavy Cleaning, 12" and 15" WW Piping	LF	1
84	Normal Cleaning, 18" and 21" WW Piping	LF	1
85	Heavy Cleaning, 18" and 21" WW Piping	LF	1
88	Normal Cleaning, 24" WW Piping	LF	1
89	Heavy Cleaning, 24" WW Piping	LF	1
94	Normal Cleaning, 27" SW Piping	LF	1
95	Heavy Cleaning, 27" SW Piping	LF	1
98	Normal Cleaning 30" SW Piping	LF	1
99	Heavy Cleaning 30" SW Piping	LF	1
100	Normal Cleaning, 36" SW Piping	LF	1
102	Heavy Cleaning, 36" SW Piping	LF	1
	Bypass Pumping		
104	Bypassing Setup for Each 3" Pump	EA	0.5
105	Bypassing Setup for Each 4" Pump	EA	1
106	Bypassing Setup for Each 6" Pump	EA	0.5
107	Bypassing Setup for Each 8" Pump	EA	0.5
108	Bypassing Setup for Each 3" Pump	Per Hour	1
109	Bypassing Setup for Each 4" Pump	Per Hour	10
110	Bypassing Setup for Each 6" Pump	Per Hour	1

111	Bypassing Setup for Each 8" Pump	Per Hour	1
	Manhole/Wet Well Rehabilitation		
112	Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs 6' or less deep	VF	12
113	Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 6' up to 8' deep or less	VF	8
114	Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 8' up to 10' deep or less	VF	10
115	Cementitious Underlayment (1/2" increments) for Structural Rehab of 4' diameter MHs greater than 10' up to 12' deep or less	VF	1
116	Cementitious Underlayment (1/2" increments) for Structural Rehab of greater than 4' Diameter MHs and WWs	SF	200
117	Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) 6' deep or less	VF	600
118	Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) greater than 6' up to 8' deep or less	VF	80
119	Polymer/Epoxy System Lining of 4' diameter MHs (200 mil minimum) greater than 8' up to 10' deep or less	VF	20
120	Polymer/Epoxy System Lining of 4' Diameter MHs (200 mil minimum) greater than 10' up to 12' deep or less	VF	24
121	Polymer/Epoxy System Lining of greater than 4' Diameter (200 mil minimum) MHs and WWs	SF	250
122	Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) 6' deep or less	VF	1
123	Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 6' up to 8' deep or less	VF	1
124	Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 8' up to 10' deep or less	VF	1
125	Additional Cost for Polymer/Epoxy System Lining of 4' Diameter MHs (Additional 100 mils) greater than 10' up to 12' deep or less	VF	1
126	Additional Cost for Polymer/Epoxy System Lining of greater than 4' diameter (Additional 100 mils) MHs and WWs	SF	1
127	Concrete for rebuilding of Existing bench and invert of MHs	CY	3
128	Removal of Existing HDPE Lining of MHs or WWs	SF	200
129	Removal of Existing Polymer/Epoxy Lining of MHs or WWs	SF	50
130	Bench and Invert Repair 48" MH	EA	3
131	Bench and Invert Repair 60" MH	EA	1

132	Bench and Invert Repair 72" MH	EA	1
133	Soil Stabilization of Manhole Exterior – per gallon of Grout (prior to dilution)	GAL	5
	Grouting		
134	8" Mainline Grout (up to 5 gal)	EA	3
135	10" Mainline Grout (up to 5 gal)	EA	2
136	12" Mainline Grout (up to 5 gal)	EA	1
137	15" Mainline Grout (up to 5 gal)	EA	1
138	18" Mainline Grout (up to 5 gal)	EA	1
139	Lateral Connection Grout on 8" main (up to 5 gal)	EA	5
140	Lateral Connection Grout on 10" main (up to 5 gal)	EA	2
141	Lateral Connection Grout on 12" main (up to 5 gal)	EA	1
142	Lateral Connection Grout on 15" main (up to 5 gal)	EA	1
143	Lateral Connection Grout on 18" main (up to 5 gal)	EA	1
144	Cost/Gallon of grout in excess of 5 gal	GAL	3
	Lateral Lining		
145	4” Lateral Liner up to 3' long in 8" main	EA	190
146	4” Lateral Liner up to 3' long in 10" main	EA	40
147	4” Lateral Liner up to 3' long in 12" main	EA	3
148	6” Lateral Liner up to 3' long in 10" main	EA	2
149	6” Lateral Liner up to 3' long in 12" main	EA	1
150	Cost/Additional Length of lateral liner (4 or 6" service)	LF	10

ADDENDUM ACKNOWLEDGEMENT

ITB WS 20-19

Acknowledgment is hereby made of the following addenda (identified by number) received since issuance of solicitation:

ADDENDUM NO. **DATE**

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NOTE: Prior to submitting the response to this solicitation, it is the responsibility of the respondent to confirm if any addenda have been issued. If such addenda have been issued, acknowledge receipt by noting number(s) and date(s) above.