

CLAYTON COUNTY WATER AUTHORITY

Request for Bid

SEWER SYSTEM EVALUATION SURVEYS

Bid Opening: Tuesday, October 4, 2016 at 10:00 a.m. EST

Non-Mandatory Pre-Bid Meeting: Tuesday, September 13, 2016 at 10:30 p.m. EST

ADDENDUM # 2

Dated: September 28, 2016

Acknowledgment of receipt of this addendum **MUST BE SIGNED AND INCLUDED IN YOUR RESPONSE TO THE RFB.**

REVISIONS:

1. Replace item **3.2 – Manhole Inspections**, under Division 4 - Specifications, on pages 4-3.3 through 4-3.6 of the RFB documents with revised item **3.2 – Manhole Inspections – REVISED** on pages 4-3.3R through 4-3.6R, provided with this Addendum.

QUESTIONS:

1. **Is there any other requires for Steel fabrication, your or just looking for man hole cover no structural steel requirements at this time for this project right?**

Answer: There are no requirements for Steel Fabrication.

2. **Is it possible to get the bid tab (cost) from the last proposal/current contract?**

Answer: See pages 5 through 7 of this Addendum.

3. **Do you know the engineer's estimate on this project?**

Answer: Under the current contract, we have authorized an average of \$1,170,000 over the last two years.

4. **The additional mobilization for Electroscan, bid item #37, how will that be applied?**

Answer: Project work orders with quantities for Electroscan Only will have a quantity of 1 for Bid Item #37 – Electroscan Mobilization. Project work orders with Electroscan quantities along with other bid items will have a quantity of 1 for Bid

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A D D E N D U M # 2

Item #37 – Electroscan Mobilization and Bid Item #1 – Mobilization for Project Work.

5. **Ten (10) separate mobilizations for Electroscan to cover 10,000 LF seems excessive, will the Authority consider making the full scope of evaluation available for a single mobilization?**

Answer: Quantities on bid items are to establish unit prices. Quantities are not guaranteed for any bid items and will be on an as-needed basis.

6. **Ten (10) separate Reports for Electroscan to cover 10,000LF seems excessive, will the Authority consider allowing for a single report for the Electroscan scope of work?**

Answer: Quantities on bid items are to establish unit prices. Quantities are not guaranteed for any bid items and will be on an as-needed basis.

7. **For Bid item #42, will the Authority provide and pay for the Flow monitoring device?**

Answer: No. The successful bidder will be responsible for providing the flow monitoring devices.

8. **Have the manholes to be monitored identified (bid items 42 & 43) and if so could the Authority provide a list?**

Answer: Manholes to be monitored have not been identified at this time.

9. **Can a company bidding as Prime also be part of another team as a sub-contractor?**

Answer: Yes.

10. **Will the Authority consider removing the Electroscan scope of work?**

Answer: No.

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11. **Does the CCWA want the contractor to provide Manhole Inspection reports that include a GIS screen shot of the location, the inspection data and digital photographs of location, manhole pipes and defects?**

Answer: The inspection reports are not required.

12. **The manhole specification in the RFB on page 4-3.3 reflects the minimal inspection utilized three years ago. The Geo-database manhole inspection template reflects the detailed manhole inspections we are performing today. Which one does CCWA plan to use on bid item 2?**

Answer: CCWA plans to use the manhole inspection template that reflects the current detailed manhole inspections. Replace Division 4, Section 3: General Requirements, 3.2 Manhole Inspections with the updated section included with this addendum.

13. **Are pole cameras used for Manhole Inspections required to have adjustable zoom capabilities, with auto focus for lamping pipes?**

Answer: Yes.

14. **How often do you want the manhole surcharge monitor to push data to the web-site?**

Answer: CCWA understands the monitors provide continuous real-time monitoring through cellular connection with a web-based interface for the user.

15. **Smoke testing: The diameter of a pipe affects the linear feet of pipe that can be tested per setup as well as the time required to perform each test. As with CCTV, cleaning, etc. smoke testing should have multiple line items by the size of the pipe. Request that CCWA consider smoke testing as follows:**

Smoke test – up to 12-inch diameter

Smoke test – larger than 12-inch to 18-inch diameter

Smoke test – larger than 18-inch to 24-inch diameter

Smoke test – larger than 24-inch to 36-inch diameter

Smoke test – larger than 36-inch to 48-inch diameter

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Answer: Provide unit costs for the bid items as shown on the Bid List.

16. **Would Bidders for this project be able to bid on only those Work Items they are prepared to offer? Or would the Bidder need to provide every Work Item required to be considered? For example, if our company provides only Manhole Inspection (item 2), Add manhole location (2a), and Trunk Line Manhole Inspection, would we be able to bid on only those items?**

Answer: To be considered responsive to this bid, bidders are required to bid on all work items listed on the Bid Form.

SIGNATURE

COMPANY NAME

DATE

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Clayton County Water Authority
Annual Contract for Sewer System Evaluation Surveys

June 2013

Division 2

Bid Requirements

Section 6: Bid Form

PAY ITEM SCHEDULE

NO	WORK ITEM	UNIT	UNIT COST
1	Mobilization for Project Work	EA	\$ 450.00
2	Manhole Inspection	EA	\$ 70.00
2a	- Add manhole location to inspection	EA	\$ 10.00
3	Smoke Testing	LF	\$ 0.41
4	CCTV - up to 12-inch diameter	LF	\$ 1.73
5	CCTV - larger than 12-inch to 18-inch diameter	LF	\$ 1.90
6	CCTV - larger than 18-inch to 24-inch diameter	LF	\$ 2.37
7	CCTV - larger than 24-inch to 36-inch diameter	LF	\$ 2.37
8	CCTV - larger than 36-inch to 48-inch diameter	LF	\$ 2.37
9	Flow Bypassing - up to 12-inch diameter	Day	\$ 1,704.00
10	Flow Bypassing - larger than 12-inch to 18-inch diameter	Day	\$ 1,930.40
11	Flow Bypassing - larger than 18-inch to 24-inch diameter	Day	\$ 3,500.00
12	Flow Bypassing - larger than 24-inch to 36-inch diameter	Day	\$ 4,000.00
13	Flow Bypassing - larger than 36-inch to 48-inch diameter	Day	\$ 4,800.00
14	Heavy Cleaning - up to 12-inch diameter	LF	\$ 1.10
15	Heavy Cleaning - larger than 12-inch to 18-inch diameter	LF	\$ 4.13
16	Heavy Cleaning - larger than 18-inch to 24-inch diameter	LF	\$ 4.95
17	Heavy Cleaning - larger than 24-inch to 36-inch diameter	LF	\$ 10.73
18	Heavy Cleaning - larger than 36-inch to 48-inch diameter	LF	\$ 12.65
19	Grease / Root Removal - up to 12-inch diameter	LF	\$ 1.65
20	Grease / Root Removal - larger than 12-inch to 18-inch diameter	LF	\$ 2.20
21	Grease / Root Removal - larger than 18-inch to 24-inch diameter	LF	\$ 3.30
22	Grease / Root Removal - larger than 24-inch to 36-inch diameter	LF	\$ 4.40

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Division 2

Bid Requirements

Section 6: Bid Form

PAY ITEM SCHEDULE

NO	WORK ITEM	UNIT	UNIT COST
23	Grease / Root Removal - larger than 36-inch to 48-inch diameter	LF	\$ 5.50
24	Project Reporting (see Submittals section)	WK	\$ 431.00
25	Dye Flood Testing	EA	\$ 1,100.00
26	Flow Meter Inspection and Installation/Removal	EA	\$ 852.20
27	Flow Meter Monthly Maintenance	EA	\$ 825.00
28	Rain Gauge Inspection and Installation/Removal	EA	\$ 280.00
29	Rain Gauge Monthly Maintenance	EA	\$ 280.00
30	Flow Monitoring Report	EA	\$ 4,500.00
31	Line Plugging instead of By-Passing for CCTV (each location)	EA	\$ 180.00
32	Electroscan Mobilization	LS	\$ 2,000.00
33	Electroscan Inspection	LF	\$ 3.25
34	Electroscan Report	EA	\$ 6,625.50
35	SL Rat Administration (Monthly)	EA	\$ 2,500.00
36	SL Rat Field Inspection (Each Setup)	EA	\$ 26.50

SUPPLEMENTAL SERVICES

AMTEC – SONAR/CCTV (Tiscit)			
37	CCTV Only, no cleaning 6-18"	LF	\$ 1.45
38	CCTV Only, no cleaning 21" to 36"	LF	\$ 1.75
39	CCTV Only, no cleaning 42" to 48"	LF	\$ 2.40
40	Sonar only, no CCTV sizes less than 18"	LF	\$ 3.85
41	Sonar / CCTV 18" to 48"	LF	\$ 4.50
FORCE MAIN INSPECTION PHASES			
42	Initial data collection/Record Drawing review/ Field walk thru inspection	LF	\$ 1.25
43	Asset Management/GIS Coordination	LF	\$ 0.25
44	Identification of Potential Failure Points	LF	\$ 0.25
45	Inspection of Accessible FM Components (including aerial crossings, ARV's and valve's	EA	\$ 300.00
46	Segmental Pipe Location and Profiling	LF	\$ 0.60

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Section 6: Bid Form – Additional Page

Woolpert, Inc.
Bidding Corporation



Dudley C. Smith, III, PE

SUPPLEMENTAL SERVICES (continued)

4. FORCE MAIN INSPECTION PHASES			
47	Force Main Ultrasonic Pipe Wall Thickness Testing		
a	Excavation to expose pipe (0-4 feet deep)	EA	\$ 850.00
b	Excavation to expose pipe (4-6 feet deep)	EA	\$ 1,100.00
c	Ultrasonic pipe wall thickness test (5 radial	EA	\$ 450.00
d	Digital report in Asset Mgmt/GIS system	EA	\$ 120.00
48	Criticality Analysis (per PS Basin)	EA	\$ 1,120.00
49	Force Main Condition Assessment Report	LF	\$ 0.30
50	Project Management/Meetings/Progress	LF	\$ 0.45
51	Traffic Control (above and beyond normal flagging) with approval	DAY	\$ 800.00
5. SSES SUPPLEMENTAL SERVICES			
52	Woolpert's Infrastructure Optimization (I/O) Software rehabilitation tool	EA	\$ 12,000.00
53	Annual software service, support and updates for I/O tool	Annual	\$ 2,500.00
54	Groundwater Gauge Site Investigation, Installation and Removal	EA	\$ 750.00
55	Groundwater Gauge Monthly Maintenance Operation	EA	\$ 440.00
56	Dye Tracing, building drains etc	EA	\$ 225.00
57	Night Flow Isolation	EA	\$ 200.00
58	Night flow isolation with plugging	EA	\$ 350.00
59	Electroscan of larger than 24" pipes (If and when large pipe sonde is available)	LF	\$ 4.00
60	Manhole Inspection with MACP compliant inspection	EA	\$ 110.00

Bid Item # 33 Electroscan Inspection, minimum quantity of 50,000 LF for first work order, no minimum on subsequent work orders.

Bid Item # 33 Electroscan, the Electroscan ES620 Main line Sonde is rated for 6" to 21" diameter pipe and "may be able to test a 24" line". Therefore Woolpert can only test up to 24" lines under this bid item.

Bid Item # 36 SL Rat Field inspection, minimum assignment of 2,000 line segments for first work order, no minimum on subsequent work orders.

Supplemental Bid item # 59 Electroscan larger than 24" pipes is subject to the development and availability of a new Sonde from Electroscan Inc.

Division 4

Specifications

Section 3: General Requirements

3.2 Manhole Inspections - REVISED

Scope

- A. Manhole inspections will be performed to gather information that can be used to evaluate the sewer system with respect to potential infiltration/inflow (I/I) sources and to catalog the physical condition and defects of the manhole. Manhole inspections shall include inspection and documentation of the manhole including but not limited to (Refer to Geodatabase for complete data collection fields):
1. CCWA MH Facility ID Number (CCWA shall provide numbers for new manholes).
 2. Date of inspection.
 3. CCWA Work Order ID Number (CCWA shall provide work order numbers).
 4. Material of Manhole.
 5. Jurisdiction.
 6. X, Y Coordinates for manhole mapping corrections as needed.
 7. Accessibility of the manhole: found, buried, not found, inaccessible.
 8. Ground Surface Conditions/defects.
 9. Structural Needs.
 10. Depth of manhole from incoming pipe(s) invert to rim in feet/tenths.
 11. Depth of manhole from outgoing pipe invert to rim in feet/tenths.
 12. Whether or not the manhole is subject to ponding: yes, no.
 13. Evidence of leaks and locations, along with measured or estimated sources of extraneous flows, i.e., identification and quantification of visible inflow and infiltration source.
 14. Evidence of Blockages/Debris/Roots: yes, no.
 15. Special problems and conditions, such as overflows, bypasses: text comments.
 16. Evidence of surcharge: depth from invert (feet).
 17. Work needing attention.
 18. New manhole, existing manhole, or location correction.
- B. Where manholes authorized to be inspected cannot be located because they are buried, not visible/accessible at the ground surface or where missing/broken covers or other maintenance items are observed, the

Division 4

Specifications

Section 3: General Requirements

Contractor shall notify CCWA on a daily basis for follow up action. CCWA will require a minimum of three business days from date of notification for follow up action. After the structures have been made accessible the Contractor shall complete the inspection as authorized by CCWA. Payment for manhole inspections will be made based on completed and approved inspections.

- C. Where supplemental manhole location work is authorized the horizontal location shall be surveyed, including x, y coordinates to meet the minimum precision standards for mapping grade Global Positioning Systems (GPS) and as defined by the following:

Horizontal Data:

1. Procedures used to collect the data will be utilized so that the precision of the measurements will meet the minimum tolerance specification of +/- one (1) meter.
2. Georgia State Plane Coordinate System, West Zone, Units Feet, North American Datum of 1983.
3. Each data point must be tracked using a minimum of four (4) satellites, a PDOP of six (6) or less and collection a minimum of twenty (20) positions for each structure.

CCWA currently operates and maintains a Virtual Reference Station (VRS) that can be made available to the Contractor as a part of this work.

- D. Pipe inspections required when performing trunk line manhole inspections will be performed to gather information that can be used to evaluate the sewer system with respect to potential infiltration/inflow (I/I) sources and to catalog the physical condition and defects of the pipes entering/exiting the manholes. Pipe inspections shall include inspection and documentation of the trunk line pipes entering/exiting the manhole (excluding service taps) including but not limited to (Refer to Geodatabase for complete data collection fields):
1. CCWA Pipeline Facility ID Number (CCWA shall provide numbers for new pipes).
 2. Date of inspection.
 3. CCWA Work Order ID Number (CCWA shall provide work order numbers).
 4. Material of Pipe
 5. Diameter of Pipe.
 6. Upstream End Inspection Performed.

Division 4

Specifications

Section 3: General Requirements

7. Downstream End Inspection Performed.
8. Accessibility of the pipes.
9. Pipe Exposed: yes, no
10. Ground surface conditions/defects.
11. Blockage Types.
12. Maintenance condition/severity.
13. Observed defects.
14. Structural conditions.
15. Work needing attention/priority.

Deliverables

- Manhole Inspection
 1. Manhole inspection data collected shall be submitted in the CCWA geodatabase format and referenced by the MH ID.
 2. Digital pictures of the inspection collected to document defects observed and shall be provided in electronic (jpeg) format using a “MH ID_sequential number.jpeg” file naming convention. Pictures shall be submitted in a folder named “manhole inspections”. Pictures may be taken using pole mounted cameras or manned entry methods with zoom capabilities and auto focus. Pictures shall include:
 - a) MH cover with MH ID as added by the Contractor with a legible permanent marker.
 - b) Above ground showing a general view of where the manhole is in relationship to the surroundings.
 - c) Looking down into the manhole with the outgoing pipe in the 6 o'clock position.
 - d) One picture of each pipe starting with the outgoing and moving to each subsequent pipe clockwise in the manhole.
 - e) One picture of each connecting pipe in zoom mode to characterize entry pipe conditions.
 - f) Additional pictures of any notable defects or leaks.
 - g) Pictures submitted that are not clear or focused shall be rejected.
- Trunk Line Manhole Inspection (Polecamera Inspection)
 1. Trunk Line Manhole inspection data collected shall be in accordance with the Manhole Inspection Section 3.2 requirements stated above.

Division 4

Specifications

Section 3: General Requirements

2. In addition to the requirements above, a separate pipe inspection shall be completed on the upstream and downstream ends of the pipe segments into the manholes. This does not include service taps into the manhole. This separate pipe inspection is not a full length inspection of the pipe segment from manhole to manhole.
 - a) Pipe inspection data collected shall be submitted in the CCWA geodatabase format and referenced by the Pipe Segment Facility ID. (Refer to Geodatabase for complete data collection fields):
 - b) One complete inspection will contain the manhole inspection and a separate inspection of the incoming pipe(s) and outgoing pipe of the manhole.

3.3 Smoke Testing

Scope

- A. Smoke testing is intended to identify and locate indirect inflow sources (such as broken sewer pipe directly under drainage paths or ponding areas, or faulty service connections) and direct inflow leaks (such as storm sewer cross-connections; roof leaders; cellar, yard, and area drains; fountain drains; and abandoned building sewers). Smoke shall be nontoxic, odorless, and non-staining.
- B. Smoke testing will be performed using a minimum 3,000 cfm blower and liquid smoke or mineral oil to generate a constant stream of smoke for at least 10 minutes. Up to three reaches but no more than 900 feet of sewer pipeline may be tested at one time.
- C. Smoke testing shall not be allowed on rainy days, on cloudy days following rain, or when saturated soil conditions exist. Testing shall be closely monitored on windy days. If smoke coming out of the ground is blown away so quickly as to escape accurate detection and/or photo documentation, testing shall cease until such time that conditions permit.
- D. The perimeter of each residence or commercial building shall be completely inspected, front and back, for sources of smoke. The roofs of all buildings shall be visually inspected for evidence of roof drains connected to sanitary drains.
- E. Smoke testing may affect residences and/or businesses in the area of the test. Therefore, an integral part of this work is public and emergency response agency notification. At a minimum, the following steps shall be taken: