

CLAYTON COUNTY WATER AUTHORITY
Regular Board Meeting
1600 Battle Creek Road
Morrow, GA 30260

Present at the meeting were: Chairman John Chafin, Vice Chairman Marie Barber, Secretary/Treasurer Rodney Givens, Board Member John Westervelt, Board Member Dr. Cephus Jackson, Board Member Robin Malone, Board Member Vivian Baldwin, General Manager Bernard Franks Assistant General Manager Teresa Worley, Assistant General Manager Keisha Thorpe, Legal Counsel Steve Fincher, Executive Coordinator Amanda La Pierre, other CCWA staff and visitors.

Invocation

Marie Barber introduced Chief Maintenance Technician Rob Rhew to perform the invocation.

Adoption of Agenda

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber, to adopt an amended agenda to include the deletion of New Business Item F Additional Huie Board Member - Robin Malone., it was unanimously

RESOLVED to adopt an amended agenda to include the deletion of New Business Item F Additional Huie Board Member - Robin Malone.,

Approval of Minutes

Chairman John Chafin called for any omissions or additions to the Minutes of the Regular Board Meeting held on May 2, 2019.

UPON MOTION by Marie Barber and second by John Westervelt, it was unanimously

RESOLVED to approve the Minutes of the Regular Board Meeting held on May 2, 2019.

Financial and Statistical Reports

Finance Director Allison Halron reviewed the financial information distributed to the Board for the period ending April 30, 2019. Information only, no action taken.

New Business

Annual Cured-In-Place Pipe Rehabilitation RFB: Stormwater Director Kevin Osbey presented a recommendation on the Annual Cured-In-Place Pipe Rehabilitation RFB.

As part of the sanitary sewer and stormwater capital improvement program, CCWA requested the services of an experienced Contractor to renew assets using the cured-in-place pipe (CIPP) lining method along with other material installations associated with sanitary sewer and stormwater infrastructure.

CONTRACTOR	Total Bid Amount	SLBE Utilization Percentage
Granite Inliner, LLC Tucker, GA	\$283,670.00	6.1%
The Renee Group, Inc. Atlanta, GA	\$294,850.00	0.0%
IPR Southeast, Inc. Stone Mountain, GA	\$326,667.50	7.5%

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
1	Mobilization	N/A	2%	N/A	N/A	N/A
2	Emergency Mobilization	N/A	EA	10,000.00	10,600.00	8,000.00
3	Performance and Payment Bonds	N/A	EA	2,000.00	2,500.00	5,000.00
4	PE Stamped Design Calculations	N/A	EA	500.00	3,400.00	1,800.00
5	Pumping 4-inch Pump	Single Pump System Up to 8 Hours	EA	1,700.00	1,829.25	3,500.00
6		Redundant Pump System Up to 8 Hours	EA	1,700.00	2,439.00	3,500.00
7		Single Pump System Greater than 8 to 24 Hours	EA	2,500.00	3,658.50	7,500.00
8		Redundant Pump System Greater than 8 to 24 Hours	EA	2,500.00	3,658.50	5,000.00
9	Pumping 6-inch Pump	Single Pump System Up to 8 Hours	EA	1,919.00	3,658.50	7,500.00
10		Redundant Pump System Up to 8 Hours	EA	1,919.00	3,658.50	4,000.00
11		Single Pump System Greater than 8 to 24 Hours	EA	2,727.00	3,658.50	10,000.00
12		Redundant Pump System Greater than 8 to 24 Hours	EA	2,727.00	3,658.50	5,000.00
13	Pumping 8-inch Pump	Single Pump System Up to 8 Hours	EA	5,555.00	6,097.50	8,500.00
14		Redundant Pump System Up to 8 Hours	EA	5,555.00	6,097.50	4,500.00
15		Single Pump System Greater than 8 to 24 Hours	EA	7,575.00	9,146.25	10,000.00
16		Redundant Pump System Greater than 8 to 24 Hours	EA	7,575.00	9,146.25	6,000.00
17	Pumping 10-inch Pump	Single Pump System Up to 8 Hours	EA	5,555.00	10,365.75	10,000.00
18		Redundant Pump System Up to 8 Hours	EA	5,555.00	10,365.75	85,000.00
19		Single Pump System Greater than 8 to 24 Hours	EA	7,575.00	10,365.75	14,500.00
20		Redundant Pump System Greater than 8 to 24 Hours	EA	7,575.00	10,365.75	10,500.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
-----	-----------	--------	------	-----------	-----------	-----------

21	Pumping 12-inch Pump	Single Pump System Up to 8 Hours	EA	7,575.00	11,585.25	17,500.00
22		Redundant Pump System Up to 8 Hours	EA	7,575.00	11,585.25	8,500.00
23		Single Pump System Greater than 8 to 24 Hours	EA	9,595.00	11,585.25	19,500.00
24		Redundant Pump System Greater than 8 to 24 Hours	EA	9,595.00	11,585.25	9,500.00
25	CCTV (Sanitary Sewer Pipe)	With PACP Assessment	LF	6.00	4.70	5.00
26		Without PACP Assessment	LF	6.00	3.95	5.00
27	CCTV (Stormwater Pipe)	With PACP Assessment	LF	9.50	5.00	10.00
28		Without PACP Assessment	LF	9.50	4.25	10.00
29	CCTV (Standby)	N/A	HR	550.00	426.75	350.00
30	Heavy Cleaning (Sanitary Sewer Pipe) Up to 12-in Diameter	N/A	LF	5.00	3.25	9.00
31	Heavy Cleaning (Sanitary Sewer Pipe) Larger than 12-in to 18-in Diameter	N/A	LF	6.00	4.50	12.00
32	Heavy Cleaning (Sanitary Sewer Pipe) Larger than 18-in to 24-in Diameter	N/A	LF	9.00	5.75	14.00
33	Heavy Cleaning (Sanitary Sewer Pipe) Larger than 24-in to 36-in Diameter	N/A	LF	20.00	7.00	18.00
34	Heavy Cleaning (Sanitary Sewer Pipe) Larger than 36-in to 48-in Diameter	N/A	LF	30.00	8.25	25.00
35	Heavy Cleaning (Sanitary Sewer Pipe) Larger than 48-in to 60-in Diameter	N/A	LF	40.00	9.50	32.50
36	Cleaning (Stormwater Pipe) Up to 12-in Diameter	Up to 25% of Diameter	LF	3.00	4.00	15.00
37		More than 25% to 50% of Diameter	LF	8.00	5.00	20.00
38		More than 50% of Diameter	LF	8.00	8.50	28.00
39	Cleaning (Stormwater Pipe) Larger than 12-in to 18-in Diameter	Up to 25% of Diameter	LF	4.00	4.70	18.00
40		More than 25% to 50% of Diameter	LF	10.00	8.04	23.75
41		More than 50% of Diameter	LF	10.00	15.84	26.00
42	Cleaning (Stormwater Pipe) Larger than 18-in to 24-in Diameter	Up to 25% of Diameter	LF	5.00	5.44	20.00
43		More than 25% to 50% of Diameter	LF	12.00	9.75	28.75
44		More than 50% of Diameter	LF	19.00	19.50	32.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
45	Cleaning (Stormwater Pipe) Larger than 24-in to 36-in Diameter	Up to 25% of Diameter	LF	5.00	9.00	25.00
46		More than 25% to 50% of Diameter	LF	14.00	15.25	30.00
47		More than 50% of Diameter	LF	22.00	24.50	38.00
48	Cleaning (Stormwater Pipe) Larger than 36-in to 48-in Diameter	Up to 25% of Diameter	LF	6.00	10.25	35.00
49		More than 25% to 50% of Diameter	LF	14.00	19.00	40.00
50		More than 50% of Diameter	LF	30.00	29.25	47.50
51	Cleaning (Stormwater Pipe) Larger than 48-in Diameter	N/A	HR	600.00	1,463.50	475.00
52	Cleaning Structure	Up to 10 Foot Depth to Invert	CF	125.00	146.25	48.00

53		Greater than 10 Foot Depth to Invert	CF	250.00	183.00	56.00
54	Pre-Liner Up to 12-in Diameter	N/A	LF	2.50	2.80	5.50
55	Pre-Liner Greater than 12-in to 18-in Diameter	N/A	LF	3.50	3.50	11.50
56	Pre-Liner Greater than 18-in to 24-in Diameter	N/A	LF	5.00	4.75	17.50
57	Pre-Liner Greater than 24-in to 36-in Diameter	N/A	LF	6.00	6.00	24.50
58	Pre-Liner Greater than 36-in to 48-in Diameter	N/A	LF	7.00	7.50	32.50
59	Pre-Liner Greater than 48-in to 60-in Diameter	N/A	LF	7.50	9.00	39.00
60	Pre-Liner 66-in Diameter	N/A	LF	8.00	10.75	52.00
61	Pre-Liner 72-in Diameter	N/A	LF	8.50	11.00	59.00
62	Pre-Liner 78-in Diameter	N/A	LF	9.00	13.25	68.00
63	Pre-Liner 84-in Diameter	N/A	LF	9.50	13.25	77.00
64	Pre-Liner 90-in Diameter	N/A	LF	10.00	14.50	86.00
65	Pre-Liner 96-in Diameter	N/A	LF	11.00	15.00	95.00
66	Pre-Liner 102-in Diameter	N/A	LF	31.00	15.75	104.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
67	Pre-Liner 108-in Diameter	N/A	LF	35.00	16.25	113.00
68	Reinstatement of Existing Services	N/A	EA	200.00	95.00	175.00
69	CIPP Service Lateral 4-in Diameter	connection at main and first 6 LF	EA	5,227.00	6,700.00	4,500.00
70		in addition to the first 6 LF	LF	61.50	64.00	40.00
71	CIPP Service Lateral 6-in Diameter	connection at main and first 6 LF	EA	5,227.00	7,900.00	4,000.00
72		in addition to the first 6 LF	LF	61.50	67.00	42.00
73	CIPP 8-in Diameter	6.0 mm base thickness	LF	30.00	38.75	34.00
74		Cost change for each 1.5mm from base thickness	LF	1.00	2.25	2.50
75	CIPP 10-in Diameter	6.0 mm base thickness	LF	35.00	41.94	38.00
76		Cost change for each 1.5mm from base thickness	LF	1.00	2.25	3.00
77	CIPP 12-in Diameter	7.5 mm base thickness	LF	40.00	68.00	45.00
78		Cost change for each 1.5mm from base thickness	LF	1.00	2.50	4.00
79	CIPP 15-in Diameter	9.0 mm base thickness	LF	75.00	76.71	55.00
80		Cost change for each 1.5mm from base thickness	LF	2.00	2.75	5.00
81	CIPP 16-in Diameter	9.0 mm base thickness	LF	75.00	80.00	57.00

82		Cost change for each 1.5mm from base thickness	LF	2.00	3.00	5.00
83	CIPP 18-in Diameter	9.0 mm base thickness	LF	95.00	87.50	65.00
84		Cost change for each 1.5mm from base thickness	LF	3.00	3.25	6.50
85	CIPP 21-in Diameter	10.5 mm base thickness	LF	110.00	98.00	71.00
86		Cost change for each 1.5mm from base thickness	LF	3.00	4.75	7.00
87	CIPP 24-in Diameter	12.0 mm base thickness	LF	115.00	131.00	80.00
88		Cost change for each 1.5mm from base thickness	LF	4.00	5.25	7.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
89	CIPP 27-in Diameter	12.0 mm base thickness	LF	130.00	153.00	84.00
90		Cost change for each 1.5mm from base thickness	LF	4.00	5.50	7.00
91	CIPP 30-in Diameter	15.0 mm base thickness	LF	150.00	175.59	90.00
92		Cost change for each 1.5mm from base thickness	LF	4.00	6.75	7.00
93	CIPP 36-in Diameter	15.0 mm base thickness	LF	195.00	215.00	99.00
94		Cost change for each 1.5mm from base thickness	LF	7.00	7.25	7.50
95	CIPP 42-in Diameter	18.0 mm base thickness	LF	225.00	275.00	105.00
96		Cost change for each 1.5mm from base thickness	LF	7.00	8.50	7.50
97	CIPP 48-in Diameter	21.0 mm base thickness	LF	265.00	330.00	120.00
98		Cost change for each 1.5mm from base thickness	LF	7.00	17.00	8.00
99	CIPP 54-in Diameter	24.0 mm base thickness	LF	375.00	475.00	157.00
100		Cost change for each 1.5mm from base thickness	LF	8.00	11.75	9.00
101	CIPP 60-in Diameter	28.0 mm base thickness	LF	470.00	575.00	185.00
102		Cost change for each 1.5mm from base thickness	LF	8.00	13.75	9.00
103	CIPP 66-in Diameter	30.0 mm base thickness	LF	525.00	730.00	210.00
104		Cost change for each 1.5mm from base thickness	LF	8.00	13.75	9.00
105	CIPP 72-in Diameter	32.5 mm base thickness	LF	650.00	980.00	290.00
106		Cost change for each 1.5mm from base thickness	LF	10.00	15.00	10.00
107	CIPP 78-in Diameter	33.0 mm base thickness	LF	825.00	1,100.00	330.00
108		Cost change for each 1.5mm from base thickness	LF	15.00	16.00	10.50
109	CIPP 84-in Diameter	33.5 mm base thickness	LF	925.00	1,375.00	400.00
110		Cost change for each 1.5mm from base thickness	LF	15.00	17.25	11.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
111	CIPP 90-in Diameter	38.0 mm base thickness	LF	925.00	1,400.00	650.00
112		Cost change for each 1.5mm from base thickness	LF	24.00	21.25	13.00

113	CIPP 96-in Diameter	40.5 mm base thickness	LF	1,000.00	1,450.00	176.00
114		Cost change for each 1.5mm from base thickness	LF	24.00	19.00	18.00
115	CIPP 102-in Diameter	43.0 mm base thickness	LF	1,500.00	1,550.00	905.00
116		Cost change for each 1.5mm from base thickness	LF	24.00	22.50	25.00
117	CIPP 108-in Diameter	46.0 mm base thickness	LF	1,500.00	1,776.00	1,200.00
118		Cost change for each 1.5mm from base thickness	LF	40.00	19.00	45.00
119	Sampling and Testing	Up to 15-in diameter	EA	326.00	425.00	1,100.00
120		Greater than 15-in diameter	EA	326.00	425.00	2,000.00
121		Core Sampling	EA	326.00	600.00	1,800.00
122	Brush Removal	N/A	SF	2.00	5.80	2.50
123	Tree Removal	4 inch to 6 inch diameter	EA	369.00	670.75	950.00
124		Greater than 6 inch to 12 inch diameter	EA	1,599.00	1,085.25	2,000.00
125		Greater than 12 inch to 24 inch diameter	EA	2,583.00	1,829.25	3,200.00
126		Greater than 24 inch to 36 inch diameter	EA	4,551.00	3,475.50	6,500.00
127	Fence Work	Chain-Link / Wire Removal	LF	25.00	24.50	45.00
128		Chain-Link / Wire Reinstall	LF	25.00	24.50	135.00
129		Wood Removal	LF	35.00	30.50	45.00
130		Wood Reinstall	LF	35.00	30.50	110.00
131	General Excavation	Up to 6 feet deep	CF	20.00	9.50	85.00
132		Greater than 6 feet to 10 feet deep	CF	20.00	14.75	135.00
133		Greater than 10 feet to 14 feet deep	CF	20.00	18.25	185.00
134		Greater than 14 feet to 18 feet deep	CF	20.00	30.50	225.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
135	General Fill / Backfill	Fill Dirt	CF	5.00	10.00	28.00
136		Sand	CF	6.00	10.00	35.00
137		#3, #4, #34, #5, #57 and #89 Stone	CF	5.00	11.00	35.00
138		Surge Stone	CF	6.00	15.25	35.00
139		Type 3 Rip Rap	CF	6.00	18.25	60.00
140	Stone Placement Crushed Stone/Graded Aggregate Base	4 inch thick layer	SF	5.00	9.75	15.00
141		2 inch thick layer increment	SF	4.00	9.75	12.00
142	Stone Placement #3, #4, #34, #5, #57 and #89	4 inch thick layer	SF	6.00	9.75	20.00
143		2 inch thick layer increment	SF	5.00	9.75	15.00
144	Stone Placement Surge Stone	6 inch thick layer	SF	8.00	15.25	25.45
145		6 inch thick layer increment	SF	7.00	15.25	20.75
146	Stone Placement Type 3 Rip Rap	12 inch thick layer	SF	9.00	18.25	31.00
147		12 inch thick layer increment	SF	8.00	18.25	25.15
148	Stone Placement Type 1 Rip Rap	Single Layer	SF	8.00	21.25	35.00
149	Geotextile Fabric Installation	N/A	SF	2.50	3.25	3.50

150	Sediment Barrier	Silt Fence Type NS	LF	3.70	3.65	9.50
151		Silt Fence Type S	LF	6.15	3.65	12.00
152		Hay Bale	LF	5.00	18.25	10.00
153	Sediment Barrier Removal	N/A	LF	1.25	4.85	6.75
154	Soil Stabilization	Straw Mulching	SF	1.25	1.25	8.50
155		Seed and Straw	SF	2.00	2.45	5.00
156		Seed and matt Blanket	SF	3.00	2.45	10.00
157		Sod, < 500 SF	SF	5.00	2.50	12.00
158		Sod, 500 SF and greater	SF	3.00	2.50	13.50

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
159	Remove Asphalt Pavement	Up to 4 inch thick layer	SF	5.00	6.00	8.50
160		Greater than 4 inch to 6 inch thick layer	SF	5.50	6.00	10.85
161		Greater than 6 inch to 8 inch thick layer	SF	6.00	6.75	20.00
162		Greater than 8 inch to 10 inch thick layer	SF	7.00	8.50	25.00
163		Greater than 10 inch to 12 inch thick layer	SF	7.50	12.25	28.36
164	Remove Concrete Flat Work	Up to 4 inch thick layer	SF	5.00	6.00	10.00
165		Greater than 4 inch to 6 inch thick layer	SF	6.00	6.00	16.40
166		Greater than 6 inch to 8 inch thick layer	SF	6.50	6.75	20.20
167		Greater than 8 inch to 10 inch thick layer	SF	7.50	8.50	20.50
168		Greater than 10 inch to 12 inch thick layer	SF	8.50	12.25	26.35
169		Curb and Gutter	LF	5.00	20.75	25.00
170	Pavement Striping	Line Stripe Up to 6 inch wide	LF	3.00	3.75	8.75
171	Pavement Marking	Handicap Symbol	EA	984.00	609.75	45.00
172	Pressure Washing	N/A	SF	2.00	2.45	10.00
173	Remove Concrete Structure	Wall Construction	SF	8.00	24.50	43.00
174		Box / Manhole Construction	CF	15.00	24.50	55.00
175	Remove Brick Structure	Wall Construction	SF	8.00	24.50	45.00
176		Box / Manhole Construction	CF	17.00	24.50	55.00
177	Asphalt Patching	3 inch thick layer	SF	11.00	12.25	45.00
178		1 inch thick layer increment	SF	4.00	6.00	35.00
179	Asphalt Paving	3 inch thick layer	SF	11.00	12.25	48.00
180		1 inch thick layer increment	SF	4.00	6.00	25.00
181	Concrete Curb and Gutter	Up to 24 inch width, square back	LF	40.00	36.50	28.00
182		Up to 24 inch width, roll back	LF	40.00	36.50	36.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
183	Concrete Slab-On-Grade	Up to 4 inch thick layer	SF	10.00	6.15	16.00
184		Greater than 4 inch to 6 inch thick layer	SF	13.00	12.25	25.00
185		Greater than 6 inch to 8 inch thick layer	SF	14.00	12.25	27.00
186		Greater than 8 inch to 10 inch thick layer	SF	15.00	15.25	35.00
187		Greater than 10 inch to 12 inch thick layer	SF	19.00	15.25	40.00
188		Wire Mesh	SF	2.00	2.42	1.50
189		Steel Reinforcement - No. 4 Steel Reinforcement	SF	4.00	4.00	35.00
190		Steel Reinforcement - No. 5 Steel Reinforcement	SF	5.00	4.00	35.00
191	Pipe Installation - Open Cut PVC, HDPE, CM Up to 8-in Diameter	Point Repair, up to 6 feet deep	EA	6,396.00	7,012.25	7,500.00
192		Point Repair, greater than 6 feet to 10 feet deep	EA	6,888.00	7,926.75	8,900.00
193		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,145.25	15,000.00
194		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	30,000.00
195		Additional Footage, up to 6 feet deep	LF	28.50	61.00	135.00
196		Additional Footage, greater than 6 feet to 10 feet deep	LF	41.00	61.00	150.00
197		Additional Footage, greater than 10 feet to 14 feet deep	LF	95.00	91.50	200.00
198		Additional Footage, greater than 14 feet to 18 feet deep	LF	148.00	152.50	325.00
199	Pipe Installation - Open Cut PVC, HDPE, CM Greater than 8-in to 16-in Diameter	Point Repair, up to 6 feet deep	EA	6,642.00	7,012.25	8,900.00
200		Point Repair, greater than 6 feet to 10 feet deep	EA	6,888.00	7,926.75	12,000.00
201		Point Repair, greater than 10 feet to 14 feet deep	EA	8,241.00	9,146.25	18,000.00
202		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	12,195.00	38,000.00
203		Additional Footage, up to 6 feet deep	LF	33.00	61.00	175.00
204		Additional Footage, greater than 6 feet to 10 feet deep	LF	45.00	61.00	195.00
205		Additional Footage, greater than 10 feet to 14 feet deep	LF	98.00	91.50	250.00
206		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	152.50	375.00
207		Point Repair, up to 6 feet deep	EA	6,765.00	7,926.75	12,500.00
208		Point Repair, greater than 6 feet to 10 feet deep	EA	7,072.00	8,536.50	15,750.00
209		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,146.25	20,000.00
210		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	28,000.00
211	Pipe Installation - Open Cut PVC, HDPE, CM	Additional Footage, up to 6 feet deep	LF	37.00	61.00	225.00
212	Greater than 16-in to 24-in Diameter	Additional Footage, greater than 6 feet to 10 feet deep	LF	49.00	61.00	275.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
213		Additional Footage, greater than 10 feet to 14 feet deep	LF	110.00	91.50	325.00
214		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	152.50	375.00
215	Pipe Installation - Open Cut PVC, HDPE, CM Greater than 24-in to 36-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	7,926.75	35,000.00
216		Point Repair, greater than 6 feet to 10 feet deep	EA	7,072.00	8,536.50	38,000.00
217		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,146.25	40,000.00
218		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	40,000.00
219		Additional Footage, up to 6 feet deep	LF	37.00	61.00	300.00
220		Additional Footage, greater than 6 feet to 10 feet deep	LF	49.00	61.00	350.00
221		Additional Footage, greater than 10 feet to 14 feet deep	LF	110.00	91.50	380.00
222		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	152.50	425.00
223	Pipe Installation - Open Cut PVC, HDPE, CM Greater than 36-in to 48-in Diameter	Point Repair, up to 6 feet deep	EA	7,011.00	9,146.25	40,000.00
224		Point Repair, greater than 6 feet to 10 feet deep	EA	7,872.00	9,146.25	43,000.00
225		Point Repair, greater than 10 feet to 14 feet deep	EA	8,856.00	10,365.75	45,000.00
226		Point Repair, greater than 14 feet to 18 feet deep	EA	11,437.00	12,195.00	48,000.00
227		Additional Footage, up to 6 feet deep	LF	49.00	91.50	350.00
228		Additional Footage, greater than 6 feet to 10 feet deep	LF	74.00	91.50	385.00
229		Additional Footage, greater than 10 feet to 14 feet deep	LF	110.00	122.00	435.00
230		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	158.50	450.00
231	Pipe Installation - Open Cut PVC, HDPE, CM Greater than 48-in to 60-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	9,451.25	45,000.00
232		Point Repair, greater than 6 feet to 10 feet deep	EA	8,733.00	9,451.25	48,000.00
233		Point Repair, greater than 10 feet to 14 feet deep	EA	9,471.00	10,670.75	52,000.00
234		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	12,500.00	60,000.00
235		Additional Footage, up to 6 feet deep	LF	68.00	103.75	435.00
236		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	103.75	475.00
237		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	134.25	500.00
238		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	183.00	575.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
239	Pipe Installation - Open Cut CM 66-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	9,756.00	50,000.00
240		Point Repair, greater than 6 feet to 10 feet deep	EA	8,733.00	9,756.00	60,000.00

241		Point Repair, greater than 10 feet to 14 feet deep	EA	9,471.00	10,975.50	70,000.00
242		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	13,414.75	80,000.00
243		Additional Footage, up to 6 feet deep	LF	68.00	115.75	475.00
244		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	134.25	500.00
245		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	213.50	585.00
246		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	213.50	600.00
247	Pipe Installation - Open Cut CM 72-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	60,000.00
248		Point Repair, greater than 6 feet to 10 feet deep	EA	10,086.00	15,224.00	70,000.00
249		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,224.00	80,000.00
250		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	90,000.00
251		Additional Footage, up to 6 feet deep	LF	68.00	244.00	525.00
252		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	585.00
253		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	635.00
254		Additional Footage, greater than 14 feet to 18 feet deep	LF	172.00	305.00	680.00
255	Pipe Installation - Open Cut CM 78-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	68,000.00
256		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	75,000.00
257		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	85,000.00
258		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	95,000.00
259		Additional Footage, up to 6 feet deep	LF	67.00	244.00	300.00
260		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	675.00
261		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	750.00
262		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	800.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
263	Pipe Installation - Open Cut CM 84-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	80,000.00
264		Point Repair, greater than 6 feet to 10 feet deep	EA	12,300.00	15,244.00	95,000.00
265		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	100,000.00
266		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	120,000.00
267		Additional Footage, up to 6 feet deep	LF	68.00	244.00	725.00

268		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	775.00
269		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	305.00	850.00
270		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	900.00
271	Pipe Installation - Open Cut CM 90-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	90,000.00
272		Point Repair, greater than 6 feet to 10 feet deep	EA	8,733.00	15,244.00	120,000.00
273		Point Repair, greater than 10 feet to 14 feet deep	EA	9,471.00	15,244.00	130,000.00
274		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	18,292.75	150,000.00
275		Additional Footage, up to 6 feet deep	LF	68.00	244.00	835.00
276		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	875.00
277		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	305.00	935.00
278		Additional Footage, greater than 14 feet to 18 feet deep	LF	1,335.00	305.00	1,100.00
279	Pipe Installation - Open Cut CM 96-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	100,000.00
280		Point Repair, greater than 6 feet to 10 feet deep	EA	11,808.00	15,244.00	135,000.00
281		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	146,780.00
282		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	155,000.00
283		Additional Footage, up to 6 feet deep	LF	68.00	244.00	910.50
284		Additional Footage, greater than 6 feet to 10 feet deep	LF	135.00	244.00	1,000.00
285		Additional Footage, greater than 10 feet to 14 feet deep	LF	190.00	305.00	1,280.00
286		Additional Footage, greater than 14 feet to 18 feet deep	LF	202.00	305.00	14,500.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
287	Pipe Installation - Open Cut CM 102-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	125,000.00
288		Point Repair, greater than 6 feet to 10 feet deep	EA	11,808.00	15,244.00	135,000.00
289		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	150,000.00
290		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	175,000.00
291		Additional Footage, up to 6 feet deep	LF	68.00	244.00	1,200.00
292		Additional Footage, greater than 6 feet to 10 feet deep	LF	135.00	244.00	1,500.00
293		Additional Footage, greater than 10 feet to 14 feet deep	LF	191.00	305.00	1,600.00
294		Additional Footage, greater than 14 feet to 18 feet deep	LF	202.00	305.00	1,750.00
295	Pipe Installation - Open Cut CM	Point Repair, up to 6 feet deep	EA	6,765.00	12,195.00	145,000.00

296	108-in Diameter	Point Repair, greater than 6 feet to 10 feet deep	EA	11,808.00	15,244.00	165,000.00
297		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	185,000.00
298		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	200,000.00
299		Additional Footage, up to 6 feet deep	LF	67.00	244.00	1,575.00
300		Additional Footage, greater than 6 feet to 10 feet deep	LF	135.00	244.00	1,750.00
301		Additional Footage, greater than 10 feet to 14 feet deep	LF	190.00	305.00	2,000.00
302		Additional Footage, greater than 14 feet to 18 feet deep	LF	203.00	305.00	2,500.00
303		Point Repair, up to 6 feet deep	EA	5,658.00	7,012.25	7,500.00
304	Pipe Installation - Open Cut DI, RC, VC Up to 8-in Diameter	Point Repair, greater than 6 feet to 10 feet deep	EA	6,273.00	7,926.75	9,500.00
305		Point Repair, greater than 10 feet to 14 feet deep	EA	7,626.00	9,146.25	15,000.00
306		Point Repair, greater than 14 feet to 18 feet deep	EA	10,086.00	12,195.00	20,000.00
307		Additional Footage, up to 6 feet deep	LF	28.00	61.00	150.00
308		Additional Footage, greater than 6 feet to 10 feet deep	LF	41.00	61.00	175.00
309		Additional Footage, greater than 10 feet to 14 feet deep	LF	95.00	91.50	185.00
310		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	152.60	200.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
311	Pipe Installation - Open Cut DI, RC, VC Greater than 8-in to 16-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	7,012.25	10,000.00
312		Point Repair, greater than 6 feet to 10 feet deep	EA	7,011.00	7,926.75	15,000.00
313		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,146.25	25,000.00
314		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	35,000.00
315		Additional Footage, up to 6 feet deep	LF	33.00	61.00	150.00
316		Additional Footage, greater than 6 feet to 10 feet deep	LF	45.00	61.00	175.00
317		Additional Footage, greater than 10 feet to 14 feet deep	LF	98.00	91.50	185.00
318		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	152.50	200.00
319	Pipe Installation - Open Cut DI, RC, VC Greater than 16-in to 24-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	7,926.75	15,000.00
320		Point Repair, greater than 6 feet to 10 feet deep	EA	7,011.00	8,536.50	20,000.00
321		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,146.25	27,500.00
322		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	32,000.00
323		Additional Footage, up to 6 feet deep	LF	33.00	61.00	175.00

324		Additional Footage, greater than 6 feet to 10 feet deep	LF	45.00	61.00	200.00
325		Additional Footage, greater than 10 feet to 14 feet deep	LF	98.00	91.50	275.00
326		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	152.50	300.00
327	Pipe Installation - Open Cut DI, RC, VC Greater than 24-in to 36-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	7,926.75	35,000.00
328		Point Repair, greater than 6 feet to 10 feet deep	EA	7,011.00	8,536.50	40,000.00
329		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	9,146.25	45,000.00
330		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	50,000.00
331		Additional Footage, up to 6 feet deep	LF	33.00	61.00	300.00
332		Additional Footage, greater than 6 feet to 10 feet deep	LF	45.00	61.00	350.00
333		Additional Footage, greater than 10 feet to 14 feet deep	LF	98.00	91.50	380.00
334		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	152.50	425.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
335	Pipe Installation - Open Cut DI, RC, VC Greater than 36-in to 48-in Diameter	Point Repair, up to 6 feet deep	EA	6,765.00	9,146.25	40,000.00
336		Point Repair, greater than 6 feet to 10 feet deep	EA	7,011.00	9,146.25	45,000.00
337		Point Repair, greater than 10 feet to 14 feet deep	EA	8,364.00	10,365.75	50,000.00
338		Point Repair, greater than 14 feet to 18 feet deep	EA	11,070.00	12,195.00	55,000.00
339		Additional Footage, up to 6 feet deep	LF	33.00	91.50	350.00
340		Additional Footage, greater than 6 feet to 10 feet deep	LF	45.00	91.50	385.00
341		Additional Footage, greater than 10 feet to 14 feet deep	LF	98.00	122.00	435.00
342		Additional Footage, greater than 14 feet to 18 feet deep	LF	123.00	158.50	450.00
343	Pipe Installation - Open Cut DI, RC Greater than 48-in to 60-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	9,451.25	45,000.00
344		Point Repair, greater than 6 feet to 10 feet deep	EA	8,856.00	9,451.25	50,000.00
345		Point Repair, greater than 10 feet to 14 feet deep	EA	9,471.00	10,670.75	58,000.00
346		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	12,500.00	63,000.00
347		Additional Footage, up to 6 feet deep	LF	68.00	103.75	435.00
348		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	103.75	475.00
349		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	134.25	500.00
350		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	183.00	575.00
351	Pipe Installation - Open Cut	Point Repair, up to 6 feet deep	EA	8,118.00	9,756.00	50,000.00

352	RC 66-in Diameter	Point Repair, greater than 6 feet to 10 feet deep	EA	8,856.00	9,756.00	60,000.00
353		Point Repair, greater than 10 feet to 14 feet deep	EA	9,471.00	10,975.50	72,000.00
354		Point Repair, greater than 14 feet to 18 feet deep	EA	10,824.00	13,414.75	80,000.00
355		Additional Footage, up to 6 feet deep	LF	98.00	115.75	500.00
356		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	134.25	545.00
357		Additional Footage, greater than 10 feet to 14 feet deep	LF	115.00	213.50	585.00
358		Additional Footage, greater than 14 feet to 18 feet deep	LF	135.00	213.50	620.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
359	Pipe Installation - Open Cut RC 72-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	60,000.00
360		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	70,000.00
361		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	80,000.00
362		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	90,000.00
363		Additional Footage, up to 6 feet deep	LF	68.00	244.00	525.00
364		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	585.00
365		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	635.00
366		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	680.00
367	Pipe Installation - Open Cut RC 78-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	68,000.00
368		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	75,000.00
369		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	85,000.00
370		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	95,000.00
371		Additional Footage, up to 6 feet deep	LF	68.00	244.00	600.00
372		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	675.00
373		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	750.00
374		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	800.00
375	Pipe Installation - Open Cut RC 84-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	80,000.00
376		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	95,000.00
377		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	110,000.00
378		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	120,000.00
379		Additional Footage, up to 6 feet deep	LF	68.00	244.00	725.00
380		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	775.00
381		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	850.00

382	Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	900.00
-----	--	----	--------	--------	--------

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
383	Pipe Installation - Open Cut RC 90-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	90,000.00
384		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	125,000.00
385		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	130,000.00
386		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	150,000.00
387		Additional Footage, up to 6 feet deep	LF	68.00	244.00	835.00
388		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	875.00
389		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	935.00
390		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	1,100.00
391	Pipe Installation - Open Cut RC 96-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	100,000.00
392		Point Repair, greater than 6 feet to 10 feet deep	EA	10,332.00	15,244.00	135,000.00
393		Point Repair, greater than 10 feet to 14 feet deep	EA	11,808.00	15,244.00	150,000.00
394		Point Repair, greater than 14 feet to 18 feet deep	EA	13,530.00	18,292.75	160,000.00
395		Additional Footage, up to 6 feet deep	LF	68.00	244.00	915.00
396		Additional Footage, greater than 6 feet to 10 feet deep	LF	101.00	244.00	1,000.00
397		Additional Footage, greater than 10 feet to 14 feet deep	LF	135.00	305.00	1,500.00
398		Additional Footage, greater than 14 feet to 18 feet deep	LF	166.00	305.00	2,000.00
399	Pipe Installation - Open Cut RC 102-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	125,000.00
400		Point Repair, greater than 6 feet to 10 feet deep	EA	11,808.00	15,244.00	135,000.00
401		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	150,000.00
402		Point Repair, greater than 14 feet to 18 feet deep	EA	16,236.00	18,292.75	175,000.00
403		Additional Footage, up to 6 feet deep	LF	68.00	244.00	1,200.00
404		Additional Footage, greater than 6 feet to 10 feet deep	LF	135.00	244.00	1,500.00
405		Additional Footage, greater than 10 feet to 14 feet deep	LF	190.00	305.00	1,600.00
406		Additional Footage, greater than 14 feet to 18 feet deep	LF	258.00	305.00	1,850.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
407	Pipe Installation - Open Cut RC 108-in Diameter	Point Repair, up to 6 feet deep	EA	8,118.00	12,195.00	150,000.00
408		Point Repair, greater than 6 feet to 10 feet deep	EA	11,808.00	15,244.00	175,000.00
409		Point Repair, greater than 10 feet to 14 feet deep	EA	13,530.00	15,244.00	200,000.00

410		Point Repair, greater than 14 feet to 18 feet deep	EA	16,236.00	18,292.75	245,000.00
411		Additional Footage, up to 6 feet deep	LF	68.00	244.00	1,575.00
412		Additional Footage, greater than 6 feet to 10 feet deep	LF	135.00	244.00	1,750.00
413		Additional Footage, greater than 10 feet to 14 feet deep	LF	190.00	305.00	2,200.00
414		Additional Footage, greater than 14 feet to 18 feet deep	LF	25.00	305.00	2,750.00
415	Internal Point Repair	Longitudinal	EA	3,635.00	4,268.25	9,500.00
416		Protruding Pipe	EA	5,380.00	6,405.00	4,500.00
417	Flared End Section Installation	For Pipe up to 16-inch	EA	676.00	792.75	7,500.00
418		For Pipe greater than 16-inch to 24-inch	EA	676.00	853.75	10,000.00
419		For Pipe greater than 24-inch to 36-inch	EA	676.00	1,006.00	15,000.00
420		For Pipe greater than 36-inch to 48-inch	EA	676.00	2,744.00	29,500.00
421	Precast Headwall Installation	For Pipe up to 16 Inch	EA	1,353.00	914.75	1,735.00
422		For Pipe greater than 16 Inch to 24 Inch	EA	1,353.00	914.75	2,000.00
423		For Pipe greater than 24 Inch to 36 Inch	EA	1,353.00	1,158.50	2,500.00
424		For Pipe greater than 36 Inch to 48 Inch	EA	2,214.00	1,829.25	3,800.00
425		For Pipe greater than 48 Inch to 60 Inch	EA	2,214.00	2,561.00	5,500.00
426		For Pipe 66 Inch	EA	4,305.00	2,805.00	5,500.00
427		For Pipe 72 Inch	EA	5,535.00	4,878.00	6,800.00
428		For Pipe 78 Inch	EA	5,535.00	4,878.00	7,500.00
429		For Pipe 84 inch	EA	6,765.00	4,878.00	8,000.00
430		For Pipe 90 inch	EA	6,765.00	4,878.00	10,000.00
431		For Pipe 96 inch	EA	7,995.00	4,878.00	15,000.00
432		For Pipe 102 inch	EA	10,455.00	6,707.25	25,000.00
433		For Pipe 108 Inch	EA	11,685.00	9,146.25	30,000.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
434	Precast Manhole Installation 4-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	2,337.00	2,561.00	4,500.00
435		Doghouse, Up to 6-foot Constructed Height	EA	2,460.00	2,896.25	6,500.00
436		Additional Height	VF	184.50	256.00	200.00
437	Precast Manhole Installation 5-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	2,337.00	2,561.00	5,000.00
438		Doghouse, Up to 6-foot Constructed Height	EA	2,460.00	2,926.75	7,200.00
439		Additional Height	VF	185.00	256.00	250.00
440		Typical, Up to 6-foot Constructed Height	EA	2,460.00	2,926.75	6,800.00

441	Precast Manhole Installation 6-Foot Diameter	Doghouse, Up to 6-foot Constructed Height	EA	2,706.00	3,231.75	8,000.00
442		Additional Height	VF	185.00	305.00	250.00
443	Precast Manhole Installation 7-Foot Diameter	Typical, Up to 8-foot Constructed Height	EA	2,952.00	3,268.25	7,200.00
444		Doghouse, Up to 8-foot Constructed Height	EA	3,321.00	3,902.50	8,500.00
445		Additional Height	VF	185.00	378.00	300.00
446	Precast Manhole Installation 8-Foot Diameter	Typical, Up to 10-foot Constructed Height	EA	3,690.00	3,658.50	10,000.00
447		Doghouse, Up to 10-foot Constructed Height	EA	4,182.00	3,963.50	9,500.00
448		Additional Height	VF	369.00	426.75	350.00
449	Concrete Catch Basin Single Wing (GA DOT)	Top Slab	EA	3,000.00	2,317.00	7,200.00
450		Spillway	EA	1,500.00	1,463.50	9,500.00
451	Concrete Catch Basin Double Wing (GA DOT)	Top Slab	EA	3,200.00	2,317.00	8,500.00
452		Spillway	EA	1,700.00	1,463.50	9,500.00
453	Concrete Catch Basin Varying Sizes	Top Slab	SF	250.00	2,561.00	65.00
454		Spillway	SF	150.00	2,561.00	65.00
455	Catch Basin Spillway Throat	Up to 24 inch width	LF	2,000.00	2,439.00	20.00
456	Concrete Structure Top / Lid	6 inch thick	SF	40.00	30.50	2,500.00
457		8 inch thick	SF	50.00	39.00	3,500.00
458		10 inch thick	SF	60.00	42.75	4,500.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
459	Concrete Core	Up to 4-inch diameter core	EA	450.00	420.75	850.00
460		Greater than 4-inch to 12-inch diameter core	EA	575.00	426.75	1,200.00
461		Greater than 12-inch to 18-inch diameter core	EA	775.00	548.75	1,500.00
462		Greater than 18-inch to 24-inch diameter core	EA	1,000.00	701.25	2,000.00
463	Brick Work Wall Construction	1 Brick Thick	SF	32.00	39.00	25.00
464		2 Brick Thick	SF	62.00	42.75	45.00
465		3 Brick Thick	SF	92.00	48.75	45.00
466		4 Brick Thick	SF	120.00	48.75	55.00
467	Ring and Cover Installation	Installation	EA	400.00	426.75	1,500.00
468		Additional Height, Per Brick Layer	EA	600.00	311.00	650.00
469		Cast-in-Place Concrete	EA	1,000.00	609.75	950.00

470	Manhole/Structure Invert Construction	Brick and Mortar	EA	1,000.00	609.75	1,200.00
471	Cementitious Invert Lining	Grout Mixed by Hand	CF	250.00	256.00	65.00
472		Grout Mixed by Plant	CY	2,500.00	2,622.00	85.00
473		Pump Mobilization	EA	2,000.00	2,439.00	1,200.00
474	Cementitious Grouting	Grout Mixed by Hand	CF	500.00	256.00	85.00
475		Grout Mixed by Plant	CY	400.00	2,622.00	120.00
476		Pump Mobilization	EA	2,000.00	2,439.00	1,500.00
477	Chemical Grouting	Grout Application	GAL	250.00	426.75	375.00
478		Pump Mobilization	EA	1,500.00	426.75	2,500.00
479	Hourly Labor	Superintendent	HR	68.20	79.25	125.00
480		Foreman	HR	55.00	67.00	85.00
481		Operator	HR	40.70	42.75	85.00
482		Pipe Layer	HR	35.20	42.75	75.00
483		Laborer	HR	27.50	34.75	50.00

No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost
484	Hourly Equipment	78,000 # Class Excavator	HR	270.60	378.00	650.00
485		52,000 # Class Excavator	HR	236.50	305.00	500.00
486		45,000 # Class Excavator	HR	203.50	305.00	500.00
487		17,000 # Class Excavator	HR	148.50	176.75	450.00
488		10,000 # Class Excavator	HR	128.70	176.75	350.00
489		30,000 # Class Rubber Tired Loader	HR	165.00	183.00	500.00
490		Rubber Tired Backhoe / Loader	HR	128.70	122.00	450.00
491		18,000 # Class Track Dozier	HR	135.30	140.25	425.00
492		Vibratory Soil Compactor (Ride On) Up to 66-inch compaction width	HR	128.70	134.25	325.00
493		Vibratory Soil Compactor (Remote Controlled) Up to 48-inch compaction width	HR	68.20	97.50	275.00
494	Equipment Rental	Utility Truck Fully Equipped with Hand Tools, Air Tools, Cutting Tools, Mudhog Pump, Generator, Air Compressor, Mechanical Tamp	HR	79.20	213.50	350.00
495		Hydro/Vacuum Excavator (Min. 12-ft Depth Capability)	Hr	1,015.00	579.25	425.00
496		N/A	10%	N/A	N/A	N/A
497	Supplied Material	N/A	10%	N/A	N/A	N/A
498	Specialty Services	N/A	10%	N/A	N/A	N/A

Recommendation:

CCWA staff recommended awarding the bid to Granite Inliner as the Primary Contractor and award to IPR Southeast as the back-up Contractor.

UPON MOTION by Dr. Cephus Jackson and second by Robin Malone, it was unanimously

RESOLVED to award the Annual Cured-In-Place Pipe Rehabilitation Bid to Granite Inliner as the Primary Contractor and to IPR Southeast as the back-up contractor at the unit pricing provided for a term of one year beginning July 1, 2019 and with the option to renew for a second/third year at the same terms and conditions; contingent on the vendor meeting Risk Management requirements and to authorize the General Manager to sign the contract.

Mini-Excavator Purchase Recommendation: Stormwater Director Kevin Osbey presented a recommendation on the purchase of two Mini-Excavators.

The Clayton County Water Authority Stormwater Utility's maintenance department operates with four crews. Two crews concentrate on the repair and replacement of damaged infrastructure, full time. Each crew has been provided a 9-10 Ton Mini-Excavator to perform their needed activities. Currently, one crew has a 9 Ton Yanmar Mini-Excavator that was purchased in 2008.

After nearly 11 years of service, this Mini-Excavator has reached a point of not being a reliable frontline unit. The years of daily use has resulted in both increased maintenance costs and lost productivity.

Distribution & Conveyance is also making a request to purchase a Mini-Excavator to upgrade an existing smaller unit that is currently being used by their Meter Installation crew. The existing smaller unit will be transferred to a Wastewater Maintenance crew. The new unit will be more effective and safer in setting/removing meters and vault tops.

Vendor	Model	List Price	<u>State Contract</u> Discount	Total Price
CAT Yancey Austell, GA	Caterpillar 308 CR	\$152,520	(\$38,651)	\$113,869

Regular Board Meeting
June 6, 2019

5605



Earthmoving Sales Order

Yancey Bros.Co. 330 Lee Industrial Blvd.Austell, GA 30168

DATE Apr 25, 9

PURCHASER		CLAYTON CO. WATER AUTHORITY			
STREET ADDRESS		1600 BATTLE CREEK ROAD		<SAME>	
S O L D	CITY/STATE	MORROW, GA	COUNTY	CLAYTON	S H I P
	POSTAL CODE	30260-4300	PHONE NO.	770-961-2130	P
T O	EQUIPMENT				T O
	PRODUCT SUPPORT				F.O.B. AT:
INDUSTRY CODE:		COUNTY GOVERNMENT (GV92)		PRINCIPAL WORK CODE	
CUSTOMER NUMBER		903786		Sales Tax Exemption # (if applicable)	QUOTE NO
		N/A			172023
CUSTOMER PO NUMBER					
PAYMENT TERMS:					
T E R M S	NET PAYMENT ON RECEIPT OF INVOICE <input type="checkbox"/>		NET ON DELIVERY <input type="checkbox"/>		NEGOTIATED TERMS <input type="checkbox"/>
	CASH WITH ORDER		BALANCE TO FINANCE		CONTRACT INTEREST RATE
	PAYMENT PERIOD		PAYMENT AMOUNT		NUMBER OF PAYMENTS
					OPTIONAL BUY-OUT
DESCRIPTION OF EQUIPMENT ORDERED / PURCHASED					
MAKE: TBA		MODEL: 308		YEAR: TBA	
STOCK NUMBER: TBA		SERIAL NUMBER: TBA			
NEXT GEN 308		577-8227		510-6070 SEAT, AIR SUSP, FABRIC, HEATED	
LANE 2 - AVAILABLE FROM ATHENS FACTORY				511-6157 ALARM, TRAVEL	
LANE 3 - AVAILABLE FROM ATHENS FACTORY				511-6216 LIGHTS, STANDARD	
				511-6219 RADIO	
INCLUDES:				511-6229 PRODUCT LINK, CELLULAR, PLE642	
512-1401 308 07A CR MINI EXCAVATOR				511-6235 CAMERA, REAR VIEW	
511-6253 ELECTRICAL ARR, C3.3 HRC				415-2556 HEATER, WATER JACKET	
518-6184 ENGINE, EPA TIER 4 FINAL				568-1567 LINKAGE, BUCKET W/ LIFTING EYE	
562-3698 STD BLADE, STD U/C, TG W/PAD				557-1709 SOFTWARE, PROPORTIONAL CONTROL	
563-2071 STICK, LONG, W/THUMB BRACKET				557-1710 SOFTWARE, STICK STEER CONTROL	
TRADE-IN EQUIPMENT				SELL PRICE	
MODEL: YEAR: SN:				113,869	
PAYOUT TO: AMOUNT: PAID BY:				EXT WARRANTY	
MODEL: YEAR: SN:				Included	
PAYOUT TO: AMOUNT: PAID BY:				NET BALANCE DUE	
MODEL: YEAR: SN:				113,869	
PAYOUT TO: AMOUNT: PAID BY:				TOTAL QUOTE PRICE	
MODEL: YEAR: SN:				113,869	
PAYOUT TO: AMOUNT: PAID BY:					
MODEL: YEAR: SN:					
PAYOUT TO: AMOUNT: PAID BY:					
MODEL: YEAR: SN:					
PAYOUT TO: AMOUNT: PAID BY:					
ALL TRADE-INS ARE SUBJECT TO EQUIPMENT BEING IN "AS INSPECTED CONDITION" BY VENDOR AT TIME OF DELIVERY OF REPLACEMENT MACHINE PURCHASE ABOVE.					
PURCHASER HEREBY SELLS THE TRADE-IN EQUIPMENT DESCRIBED ABOVE TO THE VENDOR AND WARRANTS IT TO BE FREE AND CLEAR OF ALL CLAIMS, LIENS, MORTGAGES AND SECURITY INTEREST EXCEPT AS SHOWN ABOVE					
<input checked="" type="checkbox"/> CATERPILLAR EQUIPMENT WARRANTY				INITIAL	
<input type="checkbox"/> USED EQUIPMENT WARRANTY				INITIAL	
The customer acknowledges that he has received a copy of the YANCEY/Caterpillar Warranty and has read and understood said warranty. Scheduled oil sampling (S.O.S.) is mandatory with this warranty. The customer is responsible for taking oil samples at designated intervals from all power train components and failure to do so may result in voiding the warranty. Warranty applicable including expiration date where necessary: 2 yr. 2000 hr. premier warranty 308-36 MO/3000 HR POWERTRAIN + HYDRAULICS					
CSA:					
NOTES: state contract # 99999-001-SPD0000102-0025					

THIS AGREEMENT IS SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE

YANCEY

PURCHASER

ORDER RECEIVED BY

Keith Raisanen

REPRESENTATIVE

APPROVED AND ACCEPTED ON

CLAYTONCO.WATERAUTHORITY

BY

SIGNATURE

TITLE

TERMS AND CONDITIONS

PRICE: THE PRICES LISTED ARE SUBJECT TO INCREASE IN THE EVENT (i) HIGHER PRICES ARE BEING GENERALLY QUOTED BY YANCEY BROS. CO. FOR SIMILAR EQUIPMENT AT THE TIME THE EQUIPMENT IS DELIVERED TO CUSTOMER, OR (ii) A CHANGE OCCURS IN THE CONTEMPLATED TIME OR MANNER OF DELIVERY, TITLE AND SECURITY INTEREST.

- (a) In the event this Order provides for a lease of the Equipment to Customer, Customer hereby acknowledges and agrees that title to all such equipment and to all replacements or substitutions thereof shall at all times remain in Yancey Bros. Co. Customer further agrees to keep the Equipment free from any all liens, claims, and security interests, and shall do or permit no act or thing whereby Yancey Bros. Co. title or rights may in any way may be encumbered or impaired. Customer shall not be entitled to exercise any purchase option, which may be granted with respect to the Equipment if Customer is in default of its obligations to Yancey Bros. Co. under this Order or any equipment lease, conditional sales contract, or other agreement with Yancey Bros. Co.
- (b) In the event this Order provides for a sale of the Equipment to Customer, and Customer does not pay Yancey Bros. Co. in full for all obligations relating to the Equipment as designated by this Order upon or prior Customer does hereby create and grant a purchase money security interest in and to the Equipment in favor of Yancey Bros. Co., and Yancey Bros. Co. hereby reserves a purchase money security interest in the Equipment secure payment of all Customer's obligations to Yancey Bros. Co. in connection with the Equipment as provided under this Order. Upon customer's execution of this Order, and written acceptance thereof by this Order shall constitute a security agreement and shall be enforceable against Customer as such in accordance with the Uniform Commercial Code as adopted in the State of Georgia. Upon any default by Customer in its obligations pursuant to this Order, Yancey Bros. Co. may exercise any and all rights available to it by agreement or under law, including the aforesaid Uniform Commercial Code. Without limiting the generality of the foregoing, upon any default, Yancey Bros. Co. may declare the entire unpaid portion of the Customer's obligation hereunder immediately due and payable, and the agreement of sale or lease terminated, and may require Customer to assemble the Equipment and make it available to Yancey Bros. Co. at a convenient place designated by Yancey Bros. Co. In addition, Yancey Bros. Co. may, at its option, charge and collect from Customer, as liquidated damages, and amount equal to all costs and expenses incurred by Yancey Bros. Co. in delivering, repossessing, and returning the Equipment, plus rental payments for the period Customer had possession of the Equipment in an amount not less than the rental payments normally charged by Yancey Bros. Co. for similar equipment on a month-to-month lease.

As used herein, the term "Equipment" shall mean all machinery and equipment described in the face of this Order, together with all parts, accessories, supplies, materials, and other items attached to or located on the Equipment, and, unless the context otherwise requires, shall also include all dealer preparation services related to the Equipment which Yancey Bros. Co. may agree to provide.

1. Acceptance: Applicable Terms and Conditions of Purchase.

- (a) This Equipment order shall become a contract between Customer and Yancey Bros. Co., subject to all terms and conditions set forth herein and on the reverse side hereof, upon Yancey Bros. Co.'s written acceptance of this order at its offices at 330 Lee Industrial Blvd, Austell, Georgia.
- (b) Acceptance of this Equipment Order is expressly limited to the terms and conditions set forth herein and on the reverse side hereof. Yancey Bros. Co. shall not be bound by any provisions on Customer's purchase order, acceptance, or other forms or documents (including counter offers) which purport to impose any terms and conditions at variance with the terms and conditions herein set forth, and any such terms and conditions of

Customer shall have no force or effect and shall not constitute any part of the applicable terms and conditions of the purchase or lease, except to the extent that said terms and conditions are separately and specifically agreed to in writing by Yancey Bros. Co. Yancey Bros. Co.'s failure to object to provisions contained in Customer's order, acknowledgement, or other forms or documents shall not be deemed a waiver of the provision of Yancey Bros. Co.'s terms and conditions herein set forth.

2. **Payment:** Customer hereby promises to pay to the order of Yancey Bros. Co. all amounts shown due on the reverse side hereof in accordance with the terms therein set forth, together with all costs of collection, including (15%) percent as attorney's fees if collected by law or through an attorney at law. No discount or other reduction in the amount due may be taken by Customer unless specified on the face of this Order. Any check or remittance received from or for the account of Customer may be accepted and applied against any indebtedness or obligation owing by Customer, as shown by the books and records of Yancey Bros. Co. without prejudice to or the discharge of the remainder of any such indebtedness or obligations, regardless of any condition, proviso, statement, legend or notation appearing on, referring to or accompanying such check or remittance. Customer shall pay interest to Yancey Bros. Co. from maturity date of the invoice or the date any payment is due hereunder (i) if the amount payable exceeds \$3,000 at the rate per month of one and one half (1 ½%) percent, or (ii) of the amount payable is less than \$3,000 at the rate per annum of nine (9%) percent provided however, that in no event shall interest rate exceed the maximum lawful interest rate applicable.
3. **Credit and Default:** Yancey Bros. Co. may, at any time and from time to time, upon the occurrence of any adverse change in the financial condition or creditworthiness of Customer, limit or cancel the credit of Customer as to time and amount, and, as a consequence, may require a new application for credit or demand payment in cash prior to delivery of any unfilled or unpaid portion of this Order. Upon Customer's failure to make any such payment within ten (10) days after demand, or in the event of any default, breach or repudiation by Customer of any agreement with Yancey Bros. Co., or if customer shall become insolvent, call a meeting of its creditor, or make an assignment for the benefit of creditors, or if a bankruptcy, insolvency, reorganization or arrangement proceeding shall be commenced by or against Customer, Yancey Bros. Co. may cancel this and any other contracts with Customer (Customer remaining liable for all damages in connection therewith), defer any shipments hereunder, declare forthwith due and payable all outstanding bills of Customer under this or any other agreement, sell all or any part of the undelivered Equipment, without notice, at public or private sale, Customer to be responsible for the costs and expenses of such sale and for any deficiency, Yancey Bros. Co. to account to Customer for any excess (Yancey Bros. Co. having the right to become the buyer of such Equipment at any such sale), and bill all or any part of the undelivered Equipment to Customer. Approval of credit for one or more deliveries under this Order shall not be deemed a waiver of the provisions of this paragraph. Any property of Customer, including but not limited to Equipment billed and held (whether paid for or not) at any time and in Yancey Bros. Co.'s possession, either as a principal or agent, shall be deemed held as security for, and may at Yancey Bros. Co.'s option be set off against any and all of Customer's obligations to Yancey Bros. Co.
4. **Delivery Force Majeure:** Yancey Bros. Co. makes no guarantee or warranty as to the exact date of shipment or delivery, and any date specified in this Order is merely an estimated date of shipment or delivery. Unless otherwise specified in writing, delivery of Equipment may be effected by (i) the acceptance of the Equipment from shipment by a licensed public truck-man or common carrier, (ii) actual delivery of the Equipment to Customer by Yancey Bros. Co. or its agent, or (iii) allocation of the Equipment to Customer at Yancey Bros. Co.'s facilities and notification to Customer that Equipment is available for pick-up, where

Customer has advised Yancey Bros. Co. that Customer will arrange for transportation of the Equipment. Except where the Equipment is being leased by Customer or payment in full is not to be made until after the Equipment has been delivered to Customer, title to the Equipment shall pass to Customer upon delivery, subject to Yancey Bros. Co.'s right of stoppage in transit. Equipment

invoiced and held at any location, for whatever reason, shall be at Customer's risk and Yancey Bros. Co. may, at its option, charge for insurance and storage at prevailing rates.

5. Yancey Bros. Co. shall not be liable for any non-delivery or delay in delivery of all or any part of the Equipment due to accidents, strikes, fires, floods, war, civil insurrections, government regulation, delay or inability to obtain labor material or services through Yancey Bros. Co.'s usual and regular sources, casualty, acts of God or any other conditions or causes of like or unlike nature beyond the control of Yancey Bros. Co. in any such event, Yancey Bros. Co. may, in its sole discretion, without notice to Customer, at any time and from time to time, postpone the delivery dates under this Order for a time, which is reasonable under all the circumstances, or make partial delivery or cancel all or any portion of this order.
 - (a) Storage and Handling Charges. Yancey Bros. Co. may assess a service charge against Customer for handling, storing and transporting any of the Equipment ordered by Customer where Customer changes the terms of delivery from those set forth herein, or which Customer for any reason fails to accept when tendered by Yancey Bros. Co. or wrongfully rejects.
 - (b) Risk of Loss; Insurance. After delivery of Equipment to Customer, the risk of any loss, injury, or destruction of said Equipment shall be borne by Customer. Customer agrees to insure for the full insurable value thereof all of the Equipment and to keep the same insured against fire, theft, vandalism, and accidental physical damage on a standard policy with "Loss Payable Clause" for the benefit of Yancey Bros. Co. so long as any indebtedness to Yancey Bros. Co. is unpaid in connection with the Equipment. Customer shall purchase and maintain in effect during the term of this agreement, a Commercial General Liability Insurance policy, at an insured limit of no less than \$500,000 combined single limit per occurrence, with an insurer carrying an A.M. Best rating of no less than A-VII, written on an occurrence form, and including Yancey Bros. Co. as Additional insured. Such insurance shall be considered primary insurance for the benefit of Yancey Bros. Co. as Additional Insured with any other insurance maintained by Yancey Bros. Co. to be excess and non-contributory with respect to claims, loss or liability arising from the operations of Customer.
 - (c) Inspection and Notice of Nonconformity. Customer shall inspect the Equipment within five (5) days after the actual delivery of the Equipment at Customer's facilities or other location designated by Customer. Failure to make such inspection with five (5) day period shall constitute a waiver of the right to make any inspection prior to payment for the Equipment and shall further by a waiver of any defect which reasonable inspection prior to payment would have revealed. Yancey Bros. Co. shall in no event have any obligation to Customer for shortages or other patent defects in the Equipment unless written notice of such alleged shortages or defects shall have been delivered to Yancey Bros. Co. within ten (10) days after Customer's receipt of the Equipment, and Yancey Bros. Co. is afforded reasonable opportunity to examine the Equipment for the alleged shortages or defects within thirty (30) days after the receipt of such written notice. Customer's failure to reply promptly to Yancey Bros. Co.'s request for a full and detailed written statement of all alleged defects shall preclude Customer from relying on such defects to reject the Equipment. Customer's failure to comply with these requirements shall constitute irrevocable acceptance of the Equipment by Customer and bind Customer to pay the price of the Equipment.
 - (d) Restrictions on Use. Customer shall comply with any and all limitations or restrictions, which may be imposed by Yancey Bros. Co. on the use and location of the Equipment where the Equipment is being leased to Customer or delivered to Customer prior to Customer's payment in full for the Equipment.
 - (e) Customer's Remedies. In the event the Equipment is covered by any warranty from the manufacturer of the Equipment, such warranty shall be Customer's sole and exclusive remedy with respect to any alleged defects in the Equipment, whether relating to material, workmanship, performance, or any other matter, and Customer shall have no claims or rights or causes of action against Yancey Bros. Co. with respect to such alleged defects in the Equipment.

Yancey Bros. Co. shall in no event be liable for any costs, expenses, or damages incurred or sustained by Customer arising from any alleged loss of profits, interruption of operations, or other incidental or consequential damages.

- (f) Power of Attorney. Customer does hereby irrevocably make, constitute and appoint Yancey Bros. Co. or any of its officers or designees Customer's true and lawful attorney in fact with full power and right to (i) complete, execute, and file any necessary or appropriate Uniform Commercial Code financing statements and similar documents evidencing or reflecting the grant by Customer of a security interest in and to the Equipment to Yancey Bros. Co., (ii) take possession of the Equipment and sell or cause to be sold such Equipment upon the occurrence of any default hereunder by Customer, and (iii) enter into and execute any and all agreements, conveyances, and other documents or instruments necessary or appropriate in connection with the enforcement by Yancey Bros. Co. of its rights and remedies upon the occurrence of any default hereunder by Customer, and Customer hereby ratifies and confirms all that Yancey Bros. Co. or its officers or designees, as such attorney in fact, shall do by virtue hereof. This power of attorney is one coupled with an interest and is irrevocable so long as there is any liability or obligation owing by Customer to Yancey Bros. Co. in connection with the equipment.
- (g) Indemnify. To the fullest extent permitted by law, Customer agrees to defend, indemnify, and hold harmless Yancey Bros. Co., and Yancey Bros. Co.'s officers, agents and employees from any and all claims, demand, actions, causes of action, damages, losses, costs and expenses (including reasonable attorney's fees) related to or arising from, in whole or in part, any act, error, omission, fault or negligence of Customer, Customer's officers, agents, employees, subcontractors, or anyone acting on Customer's behalf or for who actions Customer may be liable, related to the operation or use of equipment or goods leased under this contract. However, Customer's obligations under this paragraph shall not extend to the sole negligence of Yancey Bros. Co. or Yancey Bros. Co.'s officers, employees or agents.
- (h) Limitation of Actions. Any judicial proceeding or other cause of action which Customer may bring against Yancey Bros. Co. for any alleged default in its obligations to Customer must be asserted or instituted within one (1) year after actual delivery of the Equipment to Customer or after such cause of action shall arise, whichever is later.
 - i) Miscellaneous:
 - i. In the event more than one person, corporation, business association, or other entity constitutes the Customer identified on the reverse side hereof, all such persons, corporations, business associations, or other entities shall be jointly and severally liable to Yancey Bros. Co. for all indebtedness and obligations under this Order.
 - ii. Yancey Bros. Co. shall not, by any act, delay, omission or otherwise, be deemed to have waived any of the rights or remedies under this Order, and no waiver, whatsoever shall be valid against Yancey Bros. Co. unless in writing signed by an authorized representative of Yancey Bros. Co. and then only to the extent set forth herein. Yancey Bros. Co.'s waiver of any right or remedy under the terms of this Order on any one occasion shall not be construed as a waiver of any right or remedy which Yancey Bros. Co. would otherwise have on a future occasion.
 - iii. Except as otherwise expressly provided herein, any notice or communication required or permitted hereunder shall be sufficiently given if sent in writing by registered or certified mail, postage prepaid to Customer at Customer's address as the same appears on the reverse side hereof. Any such notice, if so mailed shall be deemed to have been received the third business day following such mailing. Customer may change its address for notice purposes by written notice to Yancey Bros. Co. as specified herein.

- iv. The provisions of this Order shall be binding upon and shall inure to the benefit of the respective successors, assigns, heirs, and legal representatives of Customer and Yancey Bros. Co..
- v. All rights and obligations under this Order, including matters of construction, validity and performance, shall be governed by the laws of the State of Georgia, including the provisions of the Uniform Commercial Code as enacted in said State. vi. The various provisions of this Order are severable and any determination of invalidity, illegality, or unenforceability of any one provision hereunder shall have no bearing on the continuing force and effect of the remaining valid provisions hereof.
- vii. Captions given to various sections herein are for convenience only and are not intended to modify or affect the meaning of any of the substantive provisions hereof.
- viii. Customer hereby agrees that Customer will execute and deliver to Yancey Bros. Co. any and all instruments, agreements, or other documents requested by Yancey Bros. Co. which Yancey Bros. Co. deems necessary or appropriate in connection with the sale or lease of Equipment to Customer.
6. In the event this machine is equipped with Product Link, I understand data concerning this machine, its condition, and its operation is being transmitted by Product Link to Caterpillar Inc., its affiliates (Caterpillar), and/or its dealers to better serve me and to improve upon Caterpillar products and services. The information transmitted may include: machine serial number, machine location, and operational data, including but not limited to: fault codes, emissions data, fuel usage, service meter hours, software and hardware version numbers, and installed attachments. Caterpillar will not sell or rent collected information to any other third party and will exercise reasonable efforts to keep the information secure. Caterpillar, Inc. recognizes and respects customer privacy. I agree to allow this data to be accessed by Caterpillar and/or its dealers.

Initial

Date



DATA GOVERNANCE CONSENT FORM

The Data Governance Statement attached as Appendix A describes Caterpillar's practices for collecting, sharing and using data and information relating to machines, products or other assets and their associated worksites—for example to enable Cat® Connect and other digital offerings. Please review the Caterpillar Data Governance Statement (also available at www.cat.com/data_governance_statement) regularly and with care. If Caterpillar updates the Caterpillar Data Governance Statement, Caterpillar may notify you as indicated in the Data Governance Statement.

I acknowledge and agree:

- That I have read, understand and consent to this Data Governance Consent Form and Caterpillars Data Governance Statement
- That I hereby grant to Caterpillar and its affiliates (as defined in the Data Governance Statement), and each of their respective licensors, service providers, suppliers, subcontractors and distributors, a non-exclusive, worldwide, perpetual, paid-up, right and license, including the right to grant and authorize sublicenses through multiple levels, to access, use, process, manipulate, modify, compile with other data or works and/or create derivative works of, in

accordance with the Data Governance Statement, any and all information that is collected, transmitted or further processed in accordance with the Data Governance Statement; that the foregoing license shall apply retroactively to the date on which such information was collected; and that the foregoing grant is made notwithstanding any more limited rights granted in any other agreements or understandings, including in any product manuals and other documentation related to Assets (as defined in the Data Governance Statement);

- That, to the extent not prohibited by applicable law, Caterpillar may, from time to time, remotely access and program telematics or other devices installed on Assets, for any purpose including by way of example, (a) to install, or cause to be installed, updates and upgrades to software, firmware, or operating systems (for example, to enhance safety, security or improve operation of Assets) or (b) to introduce new features, and/or change the type and frequency of data transmitted through telematics devices (for example, to conduct remote troubleshooting and/or provide increased customer value); that, Caterpillar cannot guarantee that user preferences and configuration settings will be preserved following such an update, whether performed remotely or otherwise; that, to the extent not prohibited by applicable law, Caterpillar may perform such activities without further notification; and that I may withdraw my consent to the installation of updates and upgrades at any time, or make other related requests to Caterpillar, by contacting Caterpillar at CatConnectSupport@cat.com.

In the event that you transfer ownership, lease, use, or operation of any Assets, you should (i) notify the next owner, leaseholder, user or operator of such Assets of the terms of this Data Governance Consent Form and (ii) notify your dealer that you have transferred ownership, lease, use, or operation of the Assets and identify the person or entity to whom ownership, lease, use, or operation has been transferred.

By signing below I voluntary consent and agree to this Data Governance Consent Form:

Company: CLAYTON _____ CO. WATER AUTHORITY
Represented by (name): _____
Signature _____
Date Apr25, 2019 _____

Caterpillar Inc. | 100 NE Adams Street | Peoria IL 61629 | USA

Recommendation:

CCWA staff recommended the purchase of two (2) Caterpillar 308 CR Excavators in the amount of \$113,869.00 (each) from Yancey Brothers Company under Georgia State Contract #99999-001-SPD0000102-0025.

UPON MOTION by Marie Barber and second by Dr. Cephus Jackson, it was unanimously

RESOLVED to award the purchase of two (2) Caterpillar 308 CR Excavators in the amount of \$113,869.00 (each) from Yancey Brothers Company under Georgia State Contract #99999-001-SPD0000102-0025.

Annual Residual Biosolids Management RFB: Water Reclamation Director Kendra Staniel presented a recommendation on the Annual Residual Biosolids Management RFB.

The Clayton County Water Authority owns and operates three separate Water Reclamation Facilities and each of these facilities process biosolids from residuals produced from within the treatment processes for ultimate disposal. Clayton County Water Authority advertised a RFB from April 3rd – 24th of this year which requested the transportation and disposal of residual solids from each of the three facilities. Bids were opened on May 7, 2019. We received one bid and that bid was from Erth Products, LLC. Erth Products is a certified SLBE with Clayton County Water Authority. Erth Products is our current vendor that provides these disposal services for CCWA.

Bidder	Bid Amount (per wet ton)
Erth Products, LLC	\$79.00

Recommendation:

CCWA staff recommended awarding the bid to Erth Products, LLC based on their unit price bid amount and authorizing the General Manager to execute the contract. The contract will be for period of one year; August 1, 2019 to July 31, 2020 with the option to renew the contract for a second and/or third year at the same terms, conditions and price. The terms of the agreement will be when needed, as needed without guarantee of minimum or maximum quantities.

UPON MOTION by Robin Malone and second by John Westervelt, it was unanimously

RESOLVED to award the bid to Erth Products, LLC based on their unit price bid amount with the option to renew the contract for a second and/or third year at the same terms, conditions and price (the terms of the agreement will be when needed, as needed without guarantee of minimum or maximum quantities); contingent upon the vendor meeting Risk Management requirements and authorizing the General Manager to sign the contract.

Hooper Residual Handling Improvements RFP and Services During Construction Recommendations: Water Reclamation Director Kendra Staniel presented recommendations on the Hooper Residual Handling Improvements RFP and Services During Construction.

CCWA requested proposals for the W.J. Hooper Water Production Plant (WPP) Residual Solids Handling Improvement project starting on 2/20/19 through 3/13/19. The RFP requested the following tasks to be performed:

- A new sludge thickener, pump vault, associated pumps, piping, valves and appurtenances.
- Demolition of the existing hoseless sludge collection system in the Wash water holding

- basin.
- Two new chain and flight collection system and a cross screw collector system in the
- Wash water holding basin.
- Modifications and extension of the existing sludge loading platform.
- A new cake solids distribution conveyor.
- A new truck scale positioned under the sludge loading platform.
- A new three-way junction box with slide gates
- Provisions and piping to accommodate modular filter backwash bypass pumping system.
- New electric actuators for existing influent box.
- Yard piping, valves and appurtenances for new and existing facilities.
- Electrical installation to support improvements.
- Computer-based controls associated with the improvements.
- Site demo, development and stormwater management.

Proposals Received	Total Proposal Cost	SLBE Points (Maximum 15)	Total Points (Maximum 100)	Ranking
Reynolds Construction	\$6,431,798.50	15	92.15	1
Haren Construction	\$7,866,345.00	5.91	75.37	3
Lakeshore Engineering, LLC	\$7,250,065.00	15	83.44	2

Recommendation:

CCWA staff recommended awarding the W.J. Hooper WPP Residual Solids Handling Improvements to Reynolds Construction at the total cost of \$6,716,798.50 along with approving Task Order RE-19-02 for Services During Construction to R2T at a total cost of \$728,376.00.

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber, it was unanimously

RESOLVED to award the Hooper Residual Handling Improvements Project to Reynolds Construction at a total cost of \$6,431,798.50 along with approving Task Order RE-19-02 for Services During Construction to R2T at a total cost of \$728,376.00; contingent upon the vendor meeting Risk Management requirements and authorizing the General Manager to sign the contract.

Huie Design Consultant Recommendation: Water Reclamation Director Kendra Stanciel presented a recommendation on the Huie Design Consultant.

CCWA staff required the services of Sustainable Water Planning & Engineering (SWP&E) a CCWA SLBE along with Greenberg Farrow Architects to develop conceptual designs of specific projects to help kick-off recreational improvements to the Huie site. A Non-Profit Foundation (Huie Nature Preserve Foundation) was created for the sole purpose of soliciting and receiving donations as well as to maintain a funding source for future outdoor recreational facilities and programs on property owned by the Authority. In creating a path forward, the Huie Foundation Board approved two contracts to Greenberg Farrow to perform surveying, Geotechnical analysis service and 30% design of two different phases of two different zones of the Huie Recreational Master Plan. The two phases are the Trail Network and the Shamrock CUB Enhancements.

Being that the Foundation procurement policies hasn't been fully established and the Foundation is a component of CCWA, we are asking for approval of the two contracts to Greenberg Farrow in the amount of \$32,450 for the Shamrock CUB Enhancement and \$35,250 for the Trail Network. These two contracts total \$67,700 and therefore under CCWA's Purchasing Policy require Board approval.

Recommendation:

CCWA staff recommended authorization for CCWA to execute an agreement for \$32,450.00 for the surveying, geotechnical analysis services and 30% design for the Shamrock CUB Enhancements and \$35,250.00 for surveying, Geotech services and 30% design for the Trail Network.

UPON MOTION by Vivian Baldwin and second by Dr. Cephus Jackson, it was unanimously

RESOLVED to approve two contracts to Greenberg Farrow in the amount of \$32,450.00 (30% design) for the Shamrock CUB Enhancement and \$35,250.00 (30% design) for the Trail Network.

Executive Session

UPON MOTION by Dr. Cephus Jackson and second by Rodney Givens, it was unanimously

RESOLVED to enter an Executive Session in order to discuss land, legal and personnel matters.

UPON MOTION by Marie Barber and second by Rodney Givens, it was unanimously

RESOLVED to leave the Executive Session and return to open session.

Updates from the Board Members and General Manager

UPON MOTION by Rodney Givens and second by Marie Barber it was unanimously RESOLVED to approve the Executive Session minutes as presented.

UPON MOTION by John Westervelt and second by Rodney Givens it was unanimously RESOLVED to authorize the negotiation of a settlement on an on-going legal issue.

UPON MOTION by Rodney Givens and second by Robin Malone it was unanimously RESOLVED to authorize the negotiation of a settlement on a worker's compensation claim.

UPON MOTION by Marie Barber and second by John Westervelt it was unanimously RESOLVED to authorize proceeding with condemnation through a Statement of Taking on the Jester's Creek construction easement.

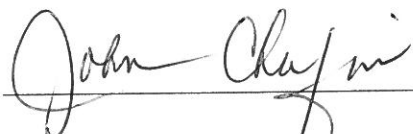
UPON MOTION by Marie Barber and second by John Westervelt it was unanimously RESOLVED to authorize negotiation of a settlement on the Lake Mirror construction easement.


Amanda La Pierre distributed travel documentation for the AWWA ACE Conference. Information only, no action taken.

Adjourn

UPON MOTION by Dr. Cephus Jackson and second by Rodney Givens it was unanimously

RESOLVED to adjourn the Board Meeting at 5:27 p.m., there being no further business to come before the Board of Directors.


John Chafin, Chairman


Rodney Givens, Secretary/Treasurer