



MEMORANDUM

To: Finance Committee

From: Rich Olson, City Manager
Paul Fredette, Director of Public Works

Date: October 23, 2013

Re: Consideration – Construction Contract Award for South Road Street Utilities

BACKGROUND:

On October 24, 2012, the City Council authorized the execution of the Grant Agreement and Funding Approval Letter for a CDBG/CI grant to repair and replace water and sewer utilities on South Road Street between Ehringhaus Street and Martin Luther King Drive. Subsequently, on January 9, 2013 the Council authorized the City Manager to enter into an engineering agreement for the design and construction inspection services for the project. The engineering design has since been completed and approved by NCDENR as well as the granting agencies. On October 2, 2013 five construction bids were received by the City.

ANALYSIS:

The apparent low bidder for the South Road Street Utility Project was RPC Contracting, Inc. with a bid of \$1,084,217.20. The following is a summary of other bids received:

Hatchell Concrete, Inc.	\$1,099,208.25
George Raper & Son, Inc.	\$1,135,405.75
Burney & Burney Construction Co. Inc.	\$1,429,424.00
T.A. Loving Company	\$1,567,555.50

Attached are copies of the bid breakdown for the low bidder (RPC Contracting) and a letter from Hyman & Robey, engineers of record, recommending the award of the contract to RPC Contracting.

The total project cost to include engineering, construction and construction inspection costs is \$1,188,217.20. The CDBG/CI Grant will pay 63% (\$750,000) of the project cost. The balance of the project cost will have to be paid by the City. To do that, I propose that we use the balance in the Well Field escrow account of \$371,000. In the proposed project, there is street paving and sidewalk work that is Powell Bill eligible, which is estimated to be \$43,140. Finally in the contract bid, there is an allowance of \$86,700 for "Line Stops" and "Insertion Valves" - methods used in the event that the contractor cannot shut down the water system. We expect that we may use one of these methods to shut down the water system, but wanted to know prior to construction what these costs were. Staff is recommending that we delete line items 148 and 149 from the contract, which would lower the total contract amount to \$1,059,017.20. These budget adjustments and the savings we anticipate will fully fund the South Road Street Utility Project.

STAFF RECOMMENDATION:

By motion, recommend that the City Council authorize the City Manager to execute an Agreement for the construction of the South Road Street Utility Project with the removal of items 148 and 149 to RPC Contracting in the amount of \$1,059,017.20;

And further, adopt the attached budget amendment as required for accounting purposes.

RCO/vdw

**SOUTH ROAD STREET WATER AND SEWER
GRANT PROJECT ORDINANCE AMENDMENT**

BE IT ORDAINED by the City Council of the City of Elizabeth City, North Carolina, that pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following grant project ordinance is hereby amended:

SECTION I. That the South Road Street Water and Sewer Grant Project Fund be amended to reflect:

Revenue	623490.1000	CDBG/CI Grant	750,000
	623970.2000	Transfer from Powell Bill	43,140
	623990.0000	Retained Earnings Appropriated (Wellfield Escrow)	371,000
Expenditure	629012.0400	Engineering	105,123
	629012.7300	Construction	1,059,017

ADOPTED, this the ____ day of _____, 2013.

Joseph W. Peel, Mayor

Dianne S. Pierce-Tamplen, MMC, City Clerk

(To record South Road Street Water and Sewer Grant Project to include construction costs of \$1,059,017 - \$1,084,217 less \$25,200 in contract adjustments - and engineering of \$105,123)



October 23, 2013

Mr. Paul Fredette, Public Works Director
City of Elizabeth City
P.O. Box 347
Elizabeth City, North Carolina 27907-0347

Subject: Bid Opening and Recommendation of Award
South Road Street Utility and Roadway Repair
H&R Project Number: 130075

Dear Mr. Fredette:

On Wednesday, October 2, at 1:00 pm, a bid opening was held and bids were opened for the South Road Street Utility and Roadway Repair project. Five bids were received from the following contractors: Hatchell Concrete, Inc., RPC Contracting, Inc., George Raper & Son, Inc., Burney & Burney Construction Company, Inc., and TA Loving Company.

The apparent low bidder was RPC Contracting with a total bid of \$1,084,217.20. Hyman & Robey PC engineer's estimate for the work associated with the bid is \$1,135,945.00.

After final review of the bid documents, we recommend the contract be awarded to RPC Contracting Company in the amount of the total bid price of \$1,084,217.20.

Copies of the actual bid documents have also been enclosed with this package. If you have additional questions, please do not hesitate to call me directly at (252) 337-8988.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sean C. Robey".

Sean C. Robey, PE
Principal Engineer

10-23-13



Attachment(s): Bid Summary Sheet
Copies of Bid Documents

South Road Street Utility and Roadway Repair
 Bid Comparison 10/2/2013



Item #	Description	Quantity	Units	Engineer Estimate		RPC Contracting, Inc.		Hatchell Concrete		George Raper & Son	
				Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price
100	Mobilization	1	LS	33,700.00	\$33,700.00	\$79,200.00	\$79,200.00	\$1,650.00	\$1,650.00	\$25,000.00	\$25,000.00
101	Demolition	1	LS	138,435.00	\$138,435.00	\$111,930.00	\$111,930.00	\$114,567.44	\$114,567.44	\$11,625.00	\$11,625.00
102	Asphalt Pavement Surface Course - NCDOT Type SF 9.5A	45	Ton	100.00	\$4,500.00	\$176.70	\$7,951.50	\$137.50	\$6,187.50	\$175.00	\$7,875.00
103	Asphalt Pavement Binder Course - NCDOT Type I 19.0B (for pavement repair)	1720	Ton	110.00							
104	Aggregate Base Course (for pavement repair)	125	Ton	35.00	\$4,375.00	\$35.00	\$4,375.00	\$36.12	\$4,515.00	\$180.00	\$22,500.00
105	30" Concrete Curb and Gutter NCDOT Std. 846.01 (for repair/patching)	80	LF	18.00							
106	4" Concrete Sidewalk (for repair/patching)	75	SY	50.00	\$3,750.00	\$50.00	\$3,750.00	\$34.87	\$2,615.25	\$40.00	\$3,000.00
107	6" Concrete Sidewalk (for repair/patching)	75	SY	65.00	\$4,875.00	\$60.00	\$4,500.00	\$50.13	\$3,759.75	\$52.00	\$3,900.00
108	Comprehensive Grading	1	LS	13,000.00	\$13,000.00	\$72,830.00	\$72,830.00	\$46,789.22	\$46,789.22	\$27,500.00	\$27,500.00
109	Off-site Select Borrow	3300	CY	18.00	\$59,400.00	\$15.00	\$49,500.00	\$19.57	\$64,581.00	\$13.50	\$44,550.00
110	Additional Stone for Trench Stabilization	200	CY	65.00	\$13,000.00	\$57.80	\$11,560.00	\$50.03	\$10,006.00	\$38.00	\$7,600.00
111	Undercut	1000	CY	18.00	\$18,000.00	\$14.70	\$14,700.00	\$9.57	\$9,570.00	\$21.00	\$21,000.00
112	Traffic Control	1	LS	10,000.00	\$10,000.00	\$34,980.00	\$34,980.00	\$46,262.15	\$46,262.15	\$9,500.00	\$9,500.00
113	Painted Pavement Marking Lines - 4"	5650	LF	2.50	\$14,125.00	\$0.90	\$5,085.00	\$0.72	\$4,068.00	\$0.50	\$2,825.00
114	Painted Pavement Marking Lines - 24"	28	LF	10.00	\$280.00	\$9.00	\$252.00	\$2.05	\$57.40	\$10.00	\$280.00
115	Painted Pavement Marking Symbols	4	Ea	150.00	\$600.00	\$90.00	\$360.00	\$165.00	\$660.00	\$500.00	\$2,000.00
116	Painted Pavement Marking Lines with Glass Beads - 4"	5650	LF	2.50	\$14,125.00	\$0.95	\$5,367.50	\$3.30	\$18,645.00	\$3.50	\$19,775.00
117	Painted Pavement Marking Lines with Glass Beads - 24"	28	LF	10.00	\$280.00	\$10.00	\$280.00	\$7.70	\$215.60	\$30.00	\$840.00
118	Painted Pavement Marking Symbols with Glass Beads	4	Ea	150.00	\$600.00	\$100.00	\$400.00	\$467.50	\$1,870.00	\$800.00	\$3,200.00
119	Erosion Control	1	LS	5,500.00	\$5,500.00	\$12,200.00	\$12,200.00	\$3,500.00	\$3,500.00	\$5,600.00	\$5,600.00
120	Sanitary Sewer Pipe-8" SDR 35 PVC (0'-4' depth)	31	LF	45.00	\$1,395.00	\$36.80	\$1,140.80	\$39.31	\$1,218.61	\$55.00	\$1,705.00
121	Sanitary Sewer Pipe-8" SDR 35 PVC (4'-6' depth)	1133	LF	55.00	\$62,315.00	\$42.50	\$48,152.50	\$40.50	\$45,886.50	\$64.50	\$73,078.50
122	Sanitary Sewer Pipe-8" SDR 35 PVC (6'-8' depth)	509	LF	65.00	\$33,085.00	\$64.10	\$32,626.90	\$42.89	\$21,831.01	\$73.25	\$37,284.25
123	Sanitary Sewer Pipe-8" SDR 35 PVC (8'-10' depth)	30	LF	87.00	\$2,610.00	\$75.60	\$2,268.00	\$45.27	\$1,358.10	\$81.40	\$2,442.00
124	Sanitary Sewer Pipe-8" DI (0'-4' depth)	350	LF	103.00	\$36,050.00	\$76.10	\$26,635.00	\$64.77	\$22,669.50	\$62.10	\$21,735.00
125	Sanitary Sewer Pipe-8" DI (4'-6' depth)	48	LF	80.00	\$3,840.00	\$84.00	\$4,032.00	\$65.97	\$3,166.56	\$66.35	\$3,184.80
126	Sanitary Sewer Pipe-8" DI (6'-8' depth)	40	LF	95.00	\$3,800.00	\$86.60	\$3,464.00	\$68.35	\$2,734.00	\$77.80	\$3,112.00
127	Sanitary Sewer Pipe-8" DI (8'-10' depth)	10	LF	105.00	\$1,050.00	\$105.00	\$1,050.00	\$70.73	\$707.30	\$93.00	\$930.00
128	SS Manhole (0'-4' depth)	2	Ea	2,250.00	\$4,500.00	\$2,467.50	\$4,935.00	\$1,500.00	\$3,000.00	\$2,150.00	\$4,300.00
129	SS Manhole (4'-6' depth)	5	Ea	2,700.00	\$13,500.00	\$2,520.00	\$12,600.00	\$1,800.00	\$9,000.00	\$2,990.00	\$14,950.00
130	SS Manhole (6'-8' depth)	2	Ea	3,100.00	\$6,200.00	\$3,150.00	\$6,300.00	\$2,382.73	\$4,765.46	\$3,600.00	\$7,200.00
131	SS Drop Manhole (8'-10' depth)	1	Ea	4,000.00	\$4,000.00	\$5,670.00	\$5,670.00	\$5,205.28	\$5,205.28	\$3,990.00	\$3,990.00
132	4" SCH 40 PVC Sewer Lateral	40	Ea	1,200.00	\$48,000.00	\$824.30	\$32,972.00	\$1,058.69	\$42,347.60	\$2,400.00	\$96,000.00
133	Water Piping - 6" Pressure Class 350 Ductile Iron	460	LF	65.00	\$29,900.00	\$29.40	\$13,524.00	\$31.45	\$14,467.00	\$34.00	\$15,640.00
134	Water Piping - 8" Pressure Class 350 Ductile Iron	230	LF	70.00	\$16,100.00	\$41.00	\$9,430.00	\$38.17	\$8,779.10	\$42.00	\$9,660.00
135	Water Piping - 10" Pressure Class 350 Ductile Iron	25	LF	90.00	\$2,250.00	\$58.80	\$1,470.00	\$76.72	\$1,918.00	\$80.00	\$2,000.00
136	Water Piping - 6" C-900 PVC	100	LF	40.00	\$4,000.00	\$21.50	\$2,150.00	\$12.41	\$1,241.00	\$26.80	\$2,680.00

South Road Street Utility and Roadway Repair
 Bid Comparison 10/2/2013



Item #	Description	Quantity	Units	Engineer Estimate		RPC Contracting, Inc.		Hatchell Concrete		George Raper & Son	
				Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price
137	Water Piping - 8" C-900 PVC	2240	LF	50.00	\$112,000.00	\$27.30	\$61,152.00	\$22.84	\$51,161.60	\$33.40	\$74,816.00
138	Water Piping - 10" C-900 PVC	5	LF	55.00	\$275.00	\$35.70	\$178.50	\$78.11	\$390.55	\$100.00	\$500.00
139	Vertical Offset in Water Piping	2	Ea	2,500.00	\$5,000.00	\$5,250.00	\$10,500.00	\$4,678.97	\$9,357.94	\$9,600.00	\$19,200.00
140	Fire Hydrants	7	Ea	3,200.00	\$22,400.00	\$3,517.50	\$24,622.50	\$2,509.12	\$17,563.84	\$3,190.00	\$22,330.00
141	12" X 8" Tapping Sleeve and 8" Tapping Valve	1	Ea	3,500.00	\$3,500.00	\$3,150.00	\$3,150.00	\$3,241.61	\$3,241.61	\$3,100.00	\$3,100.00
142	Connection to Existing Waterline	8	Ea	2,500.00	\$20,000.00	\$892.50	\$7,140.00	\$837.71	\$6,701.68	\$3,360.00	\$26,880.00
143	6" Gate valves	8	Ea	1,000.00	\$8,000.00	\$876.80	\$7,014.40	\$891.15	\$7,129.20	\$1,180.00	\$9,440.00
144	8" Gate valves	18	Ea	1,500.00	\$27,000.00	\$1,155.00	\$20,790.00	\$1,394.89	\$25,108.02	\$1,838.00	\$33,084.00
145	3/4" Water Service Connection	52	Ea	750.00	\$39,000.00	\$868.90	\$45,182.80	\$1,050.27	\$54,614.04	\$1,660.00	\$86,320.00
146	2" Water Service Connection	1	Ea	2,000.00	\$2,000.00	\$4,515.00	\$4,515.00	\$3,187.79	\$3,187.79	\$3,200.00	\$3,200.00
147	1" Water Service with Backflow Preventor and Yard Hydrant	1	Ea	3,500.00	\$3,500.00	\$2,625.00	\$2,625.00	\$2,788.79	\$2,788.79	\$3,110.00	\$3,110.00
148	6" Line Stop	1	Ea	\$8,500.00	\$8,500.00	\$12,600.00	\$12,600.00	\$12,309.69	\$12,309.69	\$12,000.00	\$12,000.00
149	8" Line Stop	1	Ea	\$9,750.00	\$9,750.00	\$12,600.00	\$12,600.00	\$13,538.59	\$13,538.59	\$12,500.00	\$12,500.00
150	10" Line Stop	1	Ea	\$11,000.00	\$11,000.00	\$14,962.50	\$14,962.50	\$15,905.31	\$15,905.31	\$13,125.00	\$13,125.00
151	6" Line Stop With Valve Insertion	1	Ea	\$11,000.00	\$11,000.00	\$12,547.50	\$12,547.50	\$13,043.59	\$13,043.59	\$12,700.00	\$12,700.00
152	8" Line Stop With Valve Insertion	1	Ea	\$13,000.00	\$13,000.00	\$13,125.00	\$13,125.00	\$14,419.28	\$14,419.28	\$13,460.00	\$13,460.00
153	10" Line Stop With Valve Insertion	1	Ea	\$15,000.00	\$15,000.00	\$14,988.80	\$14,988.80	\$16,786.00	\$16,786.00	\$14,210.00	\$14,210.00
154	6" Pipe Abandonment	180	LF	\$8.00	\$1,440.00	\$7.90	\$1,422.00	\$15.00	\$2,700.00	\$15.00	\$2,700.00
155	8" Pipe Abandonment	180	LF	\$10.00	\$1,800.00	\$10.20	\$1,836.00	\$20.00	\$3,600.00	\$19.50	\$3,510.00
156	Testing Allowance - Geotechnical Testing	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
TOTAL				\$1,135,945.00	\$1,135,945.00	as calculated	\$1,084,217.20	as calculated	\$1,099,208.25	as calculated	\$1,135,086.55
						as read	\$1,084,217.20	as read	\$1,099,208.25	as read	\$1,135,405.75

South Road Street Utility and Roadway Repair
 Bid Comparison 10/2/2013



Item #	Description	Quantity	Units	Engineer Estimate		Burney & Burney		TA Loving	
				Unit Price	Price	Unit Price	Price	Unit Price	Price
100	Mobilization	1	LS	33,700.00	\$33,700.00	\$99,875.00	\$99,875.00	\$100,000.00	\$100,000.00
101	Demolition	1	LS	138,435.00	\$138,435.00	\$94,000.00	\$94,000.00	\$140,000.00	\$140,000.00
102	Asphalt Pavement Surface Course - NCDOT Type SF 9.5A	45	Ton	100.00	\$4,500.00	\$152.75	\$6,873.75	\$240.00	\$10,800.00
103	Asphalt Pavement Binder Course - NCDOT Type 1 19.0B (for pavement repair)	1720	Ton	110.00	\$189,200.00	\$152.75	\$262,730.00	\$170.00	\$292,400.00
104	Aggregate Base Course (for pavement repair)	125	Ton	35.00	\$4,375.00	\$47.00	\$5,875.00	\$40.00	\$5,000.00
105	30" Concrete Curb and Gutter NCDOT Std. 846.01 (for repair/patching)	80	LF	18.00	\$1,440.00	\$20.56	\$1,644.80	\$50.00	\$4,000.00
106	4" Concrete Sidewalk (for repair/patching)	75	SY	50.00	\$3,750.00	\$6.46	\$484.50	\$45.00	\$3,375.00
107	6" Concrete Sidewalk (for repair/patching)	75	SY	65.00	\$4,875.00	\$7.05	\$528.75	\$55.00	\$4,125.00
108	Comprehensive Grading	1	LS	13,000.00	\$13,000.00	\$70,500.00	\$70,500.00	\$56,000.00	\$56,000.00
109	Off-site Select Borrow	3300	CY	18.00	\$59,400.00	\$16.45	\$54,285.00	\$16.25	\$53,625.00
110	Additional Stone for Trench Stabilization	200	CY	65.00	\$13,000.00	\$35.43	\$7,086.00	\$50.00	\$10,000.00
111	Undercut	1000	CY	18.00	\$18,000.00	\$14.69	\$14,690.00	\$3.75	\$3,750.00
112	Traffic Control	1	LS	10,000.00	\$10,000.00	\$9,400.00	\$9,400.00	\$15,500.00	\$15,500.00
113	Painted Pavement Marking Lines - 4"	5650	LF	2.50	\$14,125.00	\$5.88	\$33,222.00	\$2.50	\$14,125.00
114	Painted Pavement Marking Lines - 24"	28	LF	10.00	\$280.00	\$9.40	\$263.20	\$5.00	\$140.00
115	Painted Pavement Marking Symbols	4	Ea	150.00	\$600.00	\$14.10	\$56.40	\$325.00	\$1,300.00
116	Painted Pavement Marking Lines with Glass Beads - 4"	5650	LF	2.50	\$14,125.00	\$8.81	\$49,776.50	\$5.00	\$28,250.00
117	Painted Pavement Marking Lines with Glass Beads - 24"	28	LF	10.00	\$280.00	\$11.75	\$329.00	\$10.00	\$280.00
118	Painted Pavement Marking Symbols with Glass Beads	4	Ea	150.00	\$600.00	\$16.45	\$65.80	\$625.00	\$2,500.00
119	Erosion Control	1	LS	5,500.00	\$5,500.00	\$21,150.00	\$21,150.00	\$16,500.00	\$16,500.00
120	Sanitary Sewer Pipe-8" SDR 35 PVC (0'-4' depth)	31	LF	45.00	\$1,395.00	\$64.51	\$1,999.81	\$88.00	\$2,728.00
121	Sanitary Sewer Pipe-8" SDR 35 PVC (4'-6' depth)	1133	LF	55.00	\$62,315.00	\$66.86	\$75,752.38	\$95.00	\$107,635.00
122	Sanitary Sewer Pipe-8" SDR 35 PVC (6'-8' depth)	509	LF	65.00	\$33,085.00	\$73.91	\$37,620.19	\$115.00	\$58,535.00
123	Sanitary Sewer Pipe-8" SDR 35 PVC (8'-10' depth)	30	LF	87.00	\$2,610.00	\$78.61	\$2,358.30	\$120.00	\$3,600.00
124	Sanitary Sewer Pipe-8" DI (0'-4' depth)	350	LF	103.00	\$36,050.00	\$86.95	\$30,432.50	\$105.00	\$36,750.00
125	Sanitary Sewer Pipe-8" DI (4'-6' depth)	48	LF	80.00	\$3,840.00	\$89.30	\$4,286.40	\$115.00	\$5,520.00
126	Sanitary Sewer Pipe-8" DI (6'-8' depth)	40	LF	95.00	\$3,800.00	\$96.35	\$3,854.00	\$130.00	\$5,200.00
127	Sanitary Sewer Pipe-8" DI (8'-10' depth)	10	LF	105.00	\$1,050.00	\$101.05	\$1,010.50	\$140.00	\$1,400.00
128	SS Manhole (0'-4' depth)	2	Ea	2,250.00	\$4,500.00	\$2,162.00	\$4,324.00	\$6,000.00	\$12,000.00
129	SS Manhole (4'-6' depth)	5	Ea	2,700.00	\$13,500.00	\$2,614.38	\$13,071.90	\$6,750.00	\$33,750.00
130	SS Manhole (6'-8' depth)	2	Ea	3,100.00	\$6,200.00	\$3,572.00	\$7,144.00	\$8,000.00	\$16,000.00
131	SS Drop Manhole (8'-10' depth)	1	Ea	4,000.00	\$4,000.00	\$6,462.50	\$6,462.50	\$10,000.00	\$10,000.00
132	4" SCH 40 PVC Sewer Lateral	40	Ea	1,200.00	\$48,000.00	\$881.25	\$35,250.00	\$1,500.00	\$60,000.00
133	Water Piping - 6" Pressure Class 350 Ductile Iron	460	LF	65.00	\$29,900.00	\$68.97	\$31,726.20	\$56.50	\$25,990.00
134	Water Piping - 8" Pressure Class 350 Ductile Iron	230	LF	70.00	\$16,100.00	\$71.32	\$16,403.60	\$76.50	\$17,595.00
135	Water Piping - 10" Pressure Class 350 Ductile Iron	25	LF	90.00	\$2,250.00	\$195.87	\$4,896.75	\$66.50	\$1,662.50
136	Water Piping - 6" C-900 PVC	100	LF	40.00	\$4,000.00	\$58.40	\$5,840.00	\$45.00	\$4,500.00

South Road Street Utility and Roadway Repair
 Bid Comparison 10/2/2013



Item #	Description	Quantity	Units	Engineer Estimate		Burney & Burney		TA Loving	
				Unit Price	Price	Unit Price	Price	Unit Price	Price
137	Water Piping - 8" C-900 PVC	2240	LF	50.00	\$112,000.00	\$65.45	\$146,608.00	\$53.50	\$119,840.00
138	Water Piping - 10" C-900 PVC	5	LF	55.00	\$275.00	\$316.08	\$1,580.40	\$55.00	\$275.00
139	Vertical Offset in Water Piping	2	Ea	2,500.00	\$5,000.00	\$8,812.50	\$17,625.00	\$3,500.00	\$7,000.00
140	Fire Hydrants	7	Ea	3,200.00	\$22,400.00	\$3,642.50	\$25,497.50	\$3,500.00	\$24,500.00
141	12" X 8" Tapping Sleeve and 8" Tapping Valve	1	Ea	3,500.00	\$3,500.00	\$1,410.00	\$1,410.00	\$7,500.00	\$7,500.00
142	Connection to Existing Waterline	8	Ea	2,500.00	\$20,000.00	\$763.75	\$6,110.00	\$6,500.00	\$52,000.00
143	6" Gate valves	8	Ea	1,000.00	\$8,000.00	\$1,821.25	\$14,570.00	\$1,300.00	\$10,400.00
144	8" Gate valves	18	Ea	1,500.00	\$27,000.00	\$2,173.75	\$39,127.50	\$1,650.00	\$29,700.00
145	¾" Water Service Connection	52	Ea	750.00	\$39,000.00	\$1,010.50	\$52,546.00	\$1,450.00	\$75,400.00
146	2" Water Service Connection	1	Ea	2,000.00	\$2,000.00	\$4,112.50	\$4,112.50	\$2,150.00	\$2,150.00
147	1" Water Service with Backflow Preventor and Yard Hydrant	1	Ea	3,500.00	\$3,500.00	\$3,055.00	\$3,055.00	\$4,800.00	\$4,800.00
148	6" Line Stop	1	Ea	\$8,500.00	\$8,500.00	\$12,925.00	\$12,925.00	\$5,625.00	\$5,625.00
149	8" Line Stop	1	Ea	\$9,750.00	\$9,750.00	\$14,100.00	\$14,100.00	\$5,875.00	\$5,875.00
150	10" Line Stop	1	Ea	\$11,000.00	\$11,000.00	\$15,275.00	\$15,275.00	\$6,750.00	\$6,750.00
151	6" Line Stop With Valve Insertion	1	Ea	\$11,000.00	\$11,000.00	\$11,750.00	\$11,750.00	\$6,750.00	\$6,750.00
152	8" Line Stop With Valve Insertion	1	Ea	\$13,000.00	\$13,000.00	\$14,100.00	\$14,100.00	\$7,125.00	\$7,125.00
153	10" Line Stop With Valve Insertion	1	Ea	\$15,000.00	\$15,000.00	\$16,450.00	\$16,450.00	\$11,750.00	\$11,750.00
154	6" Pipe Abandonment	180	LF	\$8.00	\$1,440.00	\$16.45	\$2,961.00	\$15.00	\$2,700.00
155	8" Pipe Abandonment	180	LF	\$10.00	\$1,800.00	\$16.45	\$2,961.00	\$16.00	\$2,880.00
156	Testing Allowance - Geotechnical Testing	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
				TOTAL	\$1,135,945.00	as calculated	\$1,438,032.63	as calculated	\$1,667,555.50
						as read	\$1,429,424.00	as read	\$1,567,555.50