



T.B.P.E. #F-8632

505 East Huntland Drive  
Suite 250  
Austin, TX 78752

512.454.8716 PHONE  
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June 15, 2016

Mr. David Rabago, P.E., Utility Engineer  
City of Seguin  
P.O. Box 591  
Seguin, Texas 78156-0591

**Re: Sagebiel Road 15" Sanitary Sewer & Schaffer Road 8" Sanitary Sewer  
Bid Award Recommendation**

Dear Mr. Rabago:

Nine (9) sealed bids were received at Seguin City Hall on May 17, 2016 at 2:30 P.M. for the above-referenced project. The bids were opened and read aloud at 3:00 P.M. The bids include two (2) proposals, a deductive alternative and additive alternatives for work related to this project. Per discussions with City staff it is recommended that Proposal I and Proposal II be awarded.

Proposal I includes installation of the 8" sanitary sewer at Schaffer Road. Proposal II includes the installation of 15" sanitary sewer along Sagebiel Road. The construction completion period is 180 days.

It is recommended that Atlas Construction, Corp. be awarded the construction project in the amount of \$712,568.00. TRC conducted reference checks of the recommended contractor. The contractor has a bid bond and will be required to furnish a Standard Form of Agreement, Performance Bond and Payment Bond to the City. A detailed bid tabulation is attached for your reference.

If you have any other questions or comments, please do not hesitate to contact this office.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Beau Perry", with a long horizontal flourish extending to the right.

K. Beau Perry, P.E.  
Vice President

Enclosure

**CITY OF SEGUIN**  
**Sagebiel Road 15" Sanitary Sewer &**  
**Schaffer Road 8" Sanitary Sewer**  
**Bid Tabulation**  
**May 17, 2016 - 2:30 PM**



Benchmark Utility Contractors, Inc. 24165 IH-10 W, Suite 217-610 San Antonio, Texas 78257	Atlas Construction, Corp. 312 Sunset Drive Granite Shoals, Texas 78654	Wauters Engineering, LLC 12870 Adkins St. Hedwig Rd. Saint Hedwig, Texas 78152
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Item	Item Description	Qty.	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total
<b>PROPOSAL I - Schaffer Road 8" Sanitary Sewer</b>									
P.I.1	8" ASTM D-2241 Sewer Pipe (8'-10')	109	LF	\$30.00	\$3,270.00	\$60.00	\$6,540.00	\$53.59	\$5,841.31
P.I.2	8" ASTM D-2241 Sewer Pipe (10'-12')	12	LF	\$35.00	\$420.00	\$65.00	\$780.00	\$61.00	\$732.00
P.I.3	8" ASTM D-3034 Sewer Pipe (6'-8')	495	LF	\$25.00	\$12,375.00	\$60.00	\$29,700.00	\$50.26	\$24,878.70
P.I.4	8" ASTM D-3034 Sewer Pipe (8'-10')	544	LF	\$30.00	\$16,320.00	\$65.00	\$35,360.00	\$52.45	\$28,532.80
P.I.5	20" x 0.25" Steel Casing by Bore	61	LF	\$200.00	\$12,200.00	\$350.00	\$21,350.00	\$350.74	\$21,395.14
P.I.6	Construct 4' Diameter Manholes	4	EA	\$5,000.00	\$20,000.00	\$4,500.00	\$18,000.00	\$2,826.03	\$11,304.12
P.I.7	Extra Depth Drop (4' Diameter)	8	VF	\$200.00	\$1,600.00	\$400.00	\$3,200.00	\$231.65	\$1,853.20
P.I.8	Raven Series 405 Lining	32	VF	\$150.00	\$4,800.00	\$150.00	\$4,800.00	\$134.40	\$4,300.80
P.I.9	Proposed Sewer Line to Existing Manhole	1	EA	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$2,041.20	\$2,041.20
P.I.10	OSHA Trench Excavation Protection	1,160	LF	\$2.00	\$2,320.00	\$5.00	\$5,800.00	\$3.00	\$3,480.00
P.I.11	Video Sanitary Sewer	1,221	LF	\$2.00	\$2,442.00	\$5.00	\$6,105.00	\$1.12	\$1,367.52
P.I.12	Bermuda Grass (Hydro-Mulching)	2,622	SY	\$4.00	\$10,488.00	\$4.00	\$10,488.00	\$0.86	\$2,254.92
P.I.13	Complete Topographical	1	LS	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$3,360.00	\$3,360.00
P.I.14	Storm Water Pollution Prevention Plan	1	LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$1,680.00	\$1,680.00
<b>TOTAL PROPOSAL I</b>					<b>\$101,235.00</b>		<b>\$151,123.00</b>		<b>\$113,021.71</b>
<b>DEDUCTIVE ALTERNATIVE</b>									
D.I.1	8" ASTM D-3034 Sewer Pipe (6'-8')	1	LS	(\$5,000.00)	(\$5,000.00)	(\$3,000.00)	(\$3,000.00)	(\$6,520.29)	(\$6,520.29)
<b>PROPOSAL II - Sagebiel Road 15" Sanitary Sewer</b>									
P.II.1	Removing 10"/Replacing 15" Sewer Pipe (6'-8')	534	LF	\$55.00	\$29,370.00	\$60.00	\$32,040.00	\$68.53	\$36,595.02
P.II.2	Removing 10"/Replacing 15" Sewer Pipe (8'-10')	142	LF	\$60.00	\$8,520.00	\$65.00	\$9,230.00	\$71.07	\$10,091.94
P.II.3	Removing 10"/Replacing 15" Sewer Pipe (14'-16')	11	LF	\$80.00	\$880.00	\$100.00	\$1,100.00	\$85.60	\$941.60
P.II.4	Removing 10"/Replacing 15" Sewer Pipe (16'-18')	16	LF	\$90.00	\$1,440.00	\$100.00	\$1,600.00	\$96.14	\$1,538.24
P.II.5	Removing 10"/Replacing 15" Sewer Pipe (20'-22')	62	LF	\$110.00	\$6,820.00	\$150.00	\$9,300.00	\$110.41	\$6,845.42
P.II.6	15" Sewer Pipe (10'-12') Concrete Casing	25	LF	\$75.00	\$1,875.00	\$75.00	\$1,875.00	\$232.50	\$5,812.50
P.II.7	15" Sewer Pipe (0'-6')	390	LF	\$50.00	\$19,500.00	\$60.00	\$23,400.00	\$65.53	\$25,556.70
P.II.8	15" Sewer Pipe (6'-8')	1,196	LF	\$55.00	\$65,780.00	\$60.00	\$71,760.00	\$67.28	\$80,466.88
P.II.9	15" Sewer Pipe (8'-10')	608	LF	\$60.00	\$36,480.00	\$65.00	\$39,520.00	\$69.47	\$42,237.76
P.II.10	15" Sewer Pipe (10'-12')	98	LF	\$70.00	\$6,860.00	\$75.00	\$7,350.00	\$72.29	\$7,084.42
P.II.11	15" Sewer Pipe (12'-14')	687	LF	\$75.00	\$51,525.00	\$75.00	\$51,525.00	\$76.04	\$52,239.48
P.II.12	15" Sewer Pipe (14'-16')	127	LF	\$80.00	\$10,160.00	\$100.00	\$12,700.00	\$81.30	\$10,325.10
P.II.13	15" Sewer Pipe (16'-18')	25	LF	\$90.00	\$2,250.00	\$125.00	\$3,125.00	\$89.18	\$2,229.50
P.II.14	12" Sewer Pipe	115	LF	\$50.00	\$5,750.00	\$65.00	\$7,475.00	\$81.46	\$9,367.90
P.II.15	4" Service Connections	12	EA	\$1,000.00	\$12,000.00	\$1,000.00	\$12,000.00	\$1,815.09	\$21,781.08
P.II.16	6" Service Connections	6	EA	\$1,200.00	\$7,200.00	\$1,000.00	\$6,000.00	\$1,936.29	\$11,617.74
P.II.17	Removing/Replacing 4' Diameter Manholes	2	EA	\$7,000.00	\$14,000.00	\$5,500.00	\$11,000.00	\$4,468.65	\$8,937.30
P.II.18	Removing/Replacing 4' Diameter Manholes (Drop)	2	EA	\$8,000.00	\$16,000.00	\$6,000.00	\$12,000.00	\$7,686.02	\$15,372.04
P.II.19	Construct 4' Diameter Manholes	7	EA	\$5,000.00	\$35,000.00	\$4,500.00	\$31,500.00	\$2,966.86	\$20,768.02
P.II.20	Construct 4' Diameter Manholes (Drop)	1	EA	\$6,000.00	\$6,000.00	\$5,500.00	\$5,500.00	\$5,714.82	\$5,714.82
P.II.21	Extra Depth Manhole (4' Diameter)	25	VF	\$200.00	\$5,000.00	\$400.00	\$10,000.00	\$297.53	\$7,438.25
P.II.22	Extra Depth Drop Manhole (4' Diameter)	39	VF	\$200.00	\$7,800.00	\$400.00	\$15,600.00	\$319.26	\$12,451.14
P.II.23	Raven Series 405 Lining	134	VF	\$150.00	\$20,100.00	\$150.00	\$20,100.00	\$134.40	\$18,009.60
P.II.24	Remove Existing (10") Sanitary Sewer Line	52	LF	\$20.00	\$1,040.00	\$50.00	\$2,600.00	\$37.91	\$1,971.32
P.II.25	Cleaning Lines	3,043	LF	\$2.00	\$6,086.00	\$3.00	\$9,129.00	\$5.56	\$16,919.08
P.II.26	Remove Manhole Cover	8	EA	\$1,000.00	\$8,000.00	\$1,500.00	\$12,000.00	\$1,288.00	\$10,304.00
P.II.27	Existing Sewer to Proposed Manhole	2	EA	\$5,000.00	\$10,000.00	\$1,000.00	\$2,000.00	\$2,021.25	\$4,042.50
P.II.28	Proposed Sewer to Existing Manhole	1	EA	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$4,741.86	\$4,741.86
P.II.29	Pavement Repair	3,396	LF	\$20.00	\$67,920.00	\$15.00	\$50,940.00	\$29.05	\$98,653.80
P.II.30	OSHA Trench Excavation Protection	3,886	LF	\$3.00	\$11,658.00	\$3.00	\$11,658.00	\$3.00	\$11,658.00
P.II.31	Bermuda Grass (Hydro-Mulching)	100	SY	\$4.00	\$400.00	\$10.00	\$1,000.00	\$2.07	\$207.00
P.II.32	Block Sod for Erosion Control	776	SY	\$5.00	\$3,880.00	\$10.00	\$7,760.00	\$9.41	\$7,302.16
P.II.33	Video Sanitary Sewer	3,886	LF	\$2.00	\$7,772.00	\$3.00	\$11,658.00	\$1.12	\$4,352.32
P.II.34	Traffic Control Plan	1	LS	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00	\$8,601.60	\$8,601.60
P.II.35	Complete Topographical	1	LS	\$10,000.00	\$10,000.00	\$2,500.00	\$2,500.00	\$8,960.00	\$8,960.00
P.II.36	Storm Water Pollution Prevention Plan	1	LS	\$10,000.00	\$10,000.00	\$41,000.00	\$41,000.00	\$1,680.00	\$1,680.00
P.II.37	Alternate Soil Backfill Material	1,000	LF	\$20.00	\$20,000.00	\$10.00	\$10,000.00	\$17.60	\$17,600.00
<b>TOTAL PROPOSAL II</b>					<b>\$537,066.00</b>		<b>\$561,445.00</b>		<b>\$610,416.09</b>
<b>ADDITIVE ALTERNATIVES</b>									
AA.1	18" ASTM F-679 Sewer Pipe	3,887	LF	\$10.00	\$38,870.00	\$100.00	\$388,700.00	\$20.14	\$78,284.18
AA.2	Grout Sewer Pipe 10"	3,043	LF	\$5.00	\$15,215.00	\$15.00	\$45,645.00	\$13.16	\$40,045.88
<b>TOTAL ADDITIVE ALTERNATES</b>					<b>\$54,085.00</b>		<b>\$434,345.00</b>		<b>\$118,330.06</b>
<b>TOTAL PROPOSAL I AND PROPOSAL II</b>						<b>\$638,301.00</b>		<b>\$712,568.00</b>	<b>\$723,437.80</b>

CITY OF SEGUIN  
 Sagebiel Road 15" Sanitary Sewer &  
 Schaffer Road 8" Sanitary Sewer  
 Bid Tabulation  
 May 17, 2016 - 2:30 PM



Central Road & Utility, LTD 8760 A Research Blvd., #192 Austin, Texas 78758	Austin Engineering Company, Inc. P. O. BOX 342349 Austin, Texas 78734	Underground Water Solutions Co. 601 North Main Street Elgin, Texas 78621
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Item	Item Description	Qty.	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total
<b>PROPOSAL I - Schaffer Road 8" Sanitary Sewer</b>									
P.I.1	8" ASTM D-2241 Sewer Pipe (8'-10')	109	LF	\$30.00	\$3,270.00	\$40.20	\$4,381.80	\$54.00	\$5,886.00
P.I.2	8" ASTM D-2241 Sewer Pipe (10'-12')	12	LF	\$35.00	\$420.00	\$43.20	\$518.40	\$98.00	\$1,176.00
P.I.3	8" ASTM D-3034 Sewer Pipe (6'-8')	495	LF	\$32.00	\$15,840.00	\$38.00	\$18,810.00	\$43.00	\$21,285.00
P.I.4	8" ASTM D-3034 Sewer Pipe (8'-10')	544	LF	\$57.00	\$31,008.00	\$41.00	\$22,304.00	\$55.00	\$29,920.00
P.I.5	20" x 0.25" Steel Casing by Bore	61	LF	\$465.00	\$28,365.00	\$380.00	\$23,180.00	\$120.00	\$7,320.00
P.I.6	Construct 4' Diameter Manholes	4	EA	\$3,395.40	\$13,581.60	\$3,400.00	\$13,600.00	\$3,700.00	\$14,800.00
P.I.7	Extra Depth Drop (4' Diameter)	8	VF	\$330.00	\$2,640.00	\$300.00	\$2,400.00	\$415.00	\$3,320.00
P.I.8	Raven Series 405 Lining	32	VF	\$270.00	\$8,640.00	\$155.00	\$4,960.00	\$138.00	\$4,416.00
P.I.9	Proposed Sewer Line to Existing Manhole	1	EA	\$3,500.00	\$3,500.00	\$1,000.00	\$1,000.00	\$4,600.00	\$4,600.00
P.I.10	OSHA Trench Excavation Protection	1,160	LF	\$1.10	\$1,276.00	\$1.00	\$1,160.00	\$3.00	\$3,480.00
P.I.11	Video Sanitary Sewer	1,221	LF	\$1.50	\$1,831.50	\$3.50	\$4,273.50	\$4.00	\$4,884.00
P.I.12	Bermuda Grass (Hydro-Mulching)	2,622	SY	\$1.10	\$2,884.20	\$1.10	\$2,884.20	\$4.50	\$11,799.00
P.I.13	Complete Topographical	1	LS	\$3,800.00	\$3,800.00	\$3,000.00	\$3,000.00	\$4,200.00	\$4,200.00
P.I.14	Storm Water Pollution Prevention Plan	1	LS	\$4,300.00	\$4,300.00	\$2,000.00	\$2,000.00	\$4,600.00	\$4,600.00
<b>TOTAL PROPOSAL I</b>					<b>\$121,356.30</b>		<b>\$104,471.90</b>		<b>\$121,686.00</b>
<b>DEDUCTIVE ALTERNATIVE</b>									
D.I.1	8" ASTM D-3034 Sewer Pipe (6'-8')	1	LS	(\$3,000.00)	(\$3,000.00)	(\$500.00)	(\$500.00)	(\$11,800.00)	(\$11,800.00)
<b>PROPOSAL II - Sagebiel Road 15" Sanitary Sewer</b>									
P.II.1	Removing 10"/Replacing 15" Sewer Pipe (6'-8')	534	LF	\$46.00	\$24,564.00	\$92.00	\$49,128.00	\$66.00	\$35,244.00
P.II.2	Removing 10"/Replacing 15" Sewer Pipe (8'-10')	142	LF	\$53.00	\$7,526.00	\$94.00	\$13,348.00	\$70.00	\$9,940.00
P.II.3	Removing 10"/Replacing 15" Sewer Pipe (14'-16')	11	LF	\$123.00	\$1,353.00	\$103.00	\$1,133.00	\$105.00	\$1,155.00
P.II.4	Removing 10"/Replacing 15" Sewer Pipe (16'-18')	16	LF	\$130.00	\$2,080.00	\$116.00	\$1,856.00	\$195.00	\$3,120.00
P.II.5	Removing 10"/Replacing 15" Sewer Pipe (20'-22')	62	LF	\$135.00	\$8,370.00	\$126.00	\$7,812.00	\$120.00	\$7,440.00
P.II.6	15" Sewer Pipe (10'-12') Concrete Casing	25	LF	\$80.00	\$2,000.00	\$300.00	\$7,500.00	\$228.00	\$5,700.00
P.II.7	15" Sewer Pipe (0'-6')	390	LF	\$47.00	\$18,330.00	\$65.00	\$25,350.00	\$62.00	\$24,180.00
P.II.8	15" Sewer Pipe (6'-8')	1,196	LF	\$48.00	\$57,408.00	\$67.00	\$80,132.00	\$63.00	\$75,348.00
P.II.9	15" Sewer Pipe (8'-10')	608	LF	\$52.00	\$31,616.00	\$70.00	\$42,560.00	\$65.00	\$39,520.00
P.II.10	15" Sewer Pipe (10'-12')	98	LF	\$55.00	\$5,390.00	\$74.00	\$7,252.00	\$70.00	\$6,860.00
P.II.11	15" Sewer Pipe (12'-14')	687	LF	\$77.00	\$52,899.00	\$80.00	\$54,960.00	\$72.00	\$49,464.00
P.II.12	15" Sewer Pipe (14'-16')	127	LF	\$131.00	\$16,637.00	\$88.00	\$11,176.00	\$79.00	\$10,033.00
P.II.13	15" Sewer Pipe (16'-18')	25	LF	\$144.00	\$3,600.00	\$98.00	\$2,450.00	\$150.00	\$3,750.00
P.II.14	12" Sewer Pipe	115	LF	\$45.00	\$5,175.00	\$85.00	\$9,775.00	\$68.00	\$7,820.00
P.II.15	4" Service Connections	12	EA	\$1,575.00	\$18,900.00	\$1,200.00	\$14,400.00	\$1,689.00	\$20,268.00
P.II.16	6" Service Connections	6	EA	\$1,725.00	\$10,350.00	\$1,400.00	\$8,400.00	\$1,860.00	\$11,160.00
P.II.17	Removing/Replacing 4' Diameter Manholes	2	EA	\$5,200.00	\$10,400.00	\$5,800.00	\$11,600.00	\$5,000.00	\$10,000.00
P.II.18	Removing/Replacing 4' Diameter Manholes (Drop)	2	EA	\$6,500.00	\$13,000.00	\$7,000.00	\$14,000.00	\$7,500.00	\$15,000.00
P.II.19	Construct 4' Diameter Manholes	7	EA	\$4,900.00	\$34,300.00	\$3,600.00	\$25,200.00	\$3,900.00	\$27,300.00
P.II.20	Construct 4' Diameter Manholes (Drop)	1	EA	\$7,550.00	\$7,550.00	\$6,600.00	\$6,600.00	\$7,300.00	\$7,300.00
P.II.21	Extra Depth Manhole (4' Diameter)	25	VF	\$330.00	\$8,250.00	\$320.00	\$8,000.00	\$660.00	\$16,500.00
P.II.22	Extra Depth Drop Manhole (4' Diameter)	39	VF	\$330.00	\$12,870.00	\$600.00	\$23,400.00	\$730.00	\$28,470.00
P.II.23	Raven Series 405 Lining	134	VF	\$220.00	\$29,480.00	\$155.00	\$20,770.00	\$180.00	\$24,120.00
P.II.24	Remove Existing (10") Sanitary Sewer Line	52	LF	\$49.00	\$2,548.00	\$40.00	\$2,080.00	\$60.00	\$3,120.00
P.II.25	Cleaning Lines	3,043	LF	\$3.50	\$10,650.50	\$8.00	\$24,344.00	\$4.00	\$12,172.00
P.II.26	Remove Manhole Cover	8	EA	\$2,150.00	\$17,200.00	\$1,200.00	\$9,600.00	\$1,790.00	\$14,320.00
P.II.27	Existing Sewer to Proposed Manhole	2	EA	\$2,550.00	\$5,100.00	\$600.00	\$1,200.00	\$2,540.00	\$5,080.00
P.II.28	Proposed Sewer to Existing Manhole	1	EA	\$1,850.00	\$1,850.00	\$1,200.00	\$1,200.00	\$2,258.00	\$2,258.00
P.II.29	Pavement Repair	3,396	LF	\$45.40	\$154,178.40	\$38.00	\$129,048.00	\$20.00	\$67,920.00
P.II.30	OSHA Trench Excavation Protection	3,886	LF	\$1.10	\$4,274.60	\$1.00	\$3,886.00	\$3.00	\$11,658.00
P.II.31	Bermuda Grass (Hydro-Mulching)	100	SY	\$5.00	\$500.00	\$3.00	\$300.00	\$110.00	\$11,000.00
P.II.32	Block Sod for Erosion Control	776	SY	\$5.40	\$4,190.40	\$5.00	\$3,880.00	\$4.60	\$3,569.60
P.II.33	Video Sanitary Sewer	3,886	LF	\$1.60	\$6,217.60	\$3.00	\$11,658.00	\$4.00	\$15,544.00
P.II.34	Traffic Control Plan	1	LS	\$18,000.00	\$18,000.00	\$8,000.00	\$8,000.00	\$8,200.00	\$8,200.00
P.II.35	Complete Topographical	1	LS	\$9,100.00	\$9,100.00	\$6,200.00	\$6,200.00	\$2,200.00	\$2,200.00
P.II.36	Storm Water Pollution Prevention Plan	1	LS	\$7,000.00	\$7,000.00	\$5,000.00	\$5,000.00	\$2,100.00	\$2,100.00
P.II.37	Alternate Soil Backfill Material	1,000	LF	\$10.00	\$10,000.00	\$18.00	\$18,000.00	\$65.00	\$65,000.00
<b>TOTAL PROPOSAL II</b>					<b>\$632,857.50</b>		<b>\$671,198.00</b>		<b>\$663,833.60</b>
<b>ADDITIVE ALTERNATIVES</b>									
AA.1	18" ASTM F-679 Sewer Pipe	3,887	LF	\$16.00	\$62,192.00	\$24.00	\$93,288.00	\$16.00	\$62,192.00
AA.2	Grout Sewer Pipe 10"	3,043	LF	\$14.00	\$42,602.00	\$6.00	\$18,258.00	\$5.60	\$17,040.80
<b>TOTAL ADDITIVE ALTERNATES</b>					<b>\$104,794.00</b>		<b>\$111,546.00</b>		<b>\$79,232.80</b>
<b>TOTAL PROPOSAL I AND PROPOSAL II</b>					<b>\$754,213.80</b>		<b>\$775,669.90</b>		<b>\$785,519.60</b>

**CITY OF SEGUIN**  
**Sagebiel Road 15" Sanitary Sewer &**  
**Schaffer Road 8" Sanitary Sewer**  
**Bid Tabulation**  
**May 17, 2016 - 2:30 PM**



GRO Mex Construction Co., Inc. 2801 Prairie Creek Rd Granite Shoals, Texas 78654	Pronto Sandblasting & Coating 9456 S. Presa Street San Antonio, Texas 78223	Black Castle General Contractor 1299 E Common Ave. New Braunfels, Texas 78130
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Item	Item Description	Qty.	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total
<b>PROPOSAL I - Schaffer Road 8" Sanitary Sewer</b>									
P.I.1	8" ASTM D-2241 Sewer Pipe (8'-10')	109	LF	\$59.00	\$6,431.00	\$64.00	\$6,976.00	\$113.00	\$12,317.00
P.I.2	8" ASTM D-2241 Sewer Pipe (10'-12')	12	LF	\$69.00	\$828.00	\$75.00	\$900.00	\$550.00	\$6,600.00
P.I.3	8" ASTM D-3034 Sewer Pipe (6'-8')	495	LF	\$62.00	\$30,690.00	\$60.00	\$29,700.00	\$75.00	\$37,125.00
P.I.4	8" ASTM D-3034 Sewer Pipe (8'-10')	544	LF	\$64.00	\$34,816.00	\$69.00	\$37,536.00	\$74.00	\$40,256.00
P.I.5	20" x 0.25" Steel Casing by Bore	61	LF	\$340.00	\$20,740.00	\$600.00	\$36,600.00	\$451.00	\$27,511.00
P.I.6	Construct 4' Diameter Manholes	4	EA	\$4,500.00	\$18,000.00	\$6,000.00	\$24,000.00	\$7,100.00	\$28,400.00
P.I.7	Extra Depth Drop (4' Diameter)	8	VF	\$350.00	\$2,800.00	\$500.00	\$4,000.00	\$733.00	\$5,864.00
P.I.8	Raven Series 405 Lining	32	VF	\$240.00	\$7,680.00	\$350.00	\$11,200.00	\$155.00	\$4,960.00
P.I.9	Proposed Sewer Line to Existing Manhole	1	EA	\$4,500.00	\$4,500.00	\$2,000.00	\$2,000.00	\$2,802.00	\$2,802.00
P.I.10	OSHA Trench Excavation Protection	1,160	LF	\$3.00	\$3,480.00	\$5.00	\$5,800.00	\$3.00	\$3,480.00
P.I.11	Video Sanitary Sewer	1,221	LF	\$2.50	\$3,052.50	\$5.00	\$6,105.00	\$1.00	\$1,221.00
P.I.12	Bermuda Grass (Hydro-Mulching)	2,622	SY	\$1.00	\$2,622.00	\$1.00	\$2,622.00	\$1.00	\$2,622.00
P.I.13	Complete Topographical	1	LS	\$15,000.00	\$15,000.00	\$7,000.00	\$7,000.00	\$12,559.00	\$12,559.00
P.I.14	Storm Water Pollution Prevention Plan	1	LS	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$4,372.00	\$4,372.00
<b>TOTAL PROPOSAL I</b>					<b>\$160,639.50</b>		<b>\$186,439.00</b>		<b>\$190,089.00</b>
<b>DEDUCTIVE ALTERNATIVE</b>									
D.I.1	8" ASTM D-3034 Sewer Pipe (6'-8')	1	LS	(\$3,750.00)	(\$3,750.00)	(\$1,000.00)	(\$1,000.00)	(\$7,781.00)	(\$7,781.00)
<b>PROPOSAL II - Sagebiel Road 15" Sanitary Sewer</b>									
P.II.1	Removing 10"/Replacing 15" Sewer Pipe (6'-8')	534	LF	\$98.00	\$52,332.00	\$63.00	\$33,642.00	\$116.00	\$61,944.00
P.II.2	Removing 10"/Replacing 15" Sewer Pipe (8'-10')	142	LF	\$102.00	\$14,484.00	\$69.00	\$9,798.00	\$164.00	\$23,288.00
P.II.3	Removing 10"/Replacing 15" Sewer Pipe (14'-16')	11	LF	\$104.00	\$1,144.00	\$95.00	\$1,045.00	\$1,137.00	\$12,507.00
P.II.4	Removing 10"/Replacing 15" Sewer Pipe (16'-18')	16	LF	\$140.00	\$2,240.00	\$120.00	\$1,920.00	\$873.00	\$13,968.00
P.II.5	Removing 10"/Replacing 15" Sewer Pipe (20'-22')	62	LF	\$180.00	\$11,160.00	\$150.00	\$9,300.00	\$543.00	\$33,666.00
P.II.6	15" Sewer Pipe (10'-12') Concrete Casing	25	LF	\$86.00	\$2,150.00	\$140.00	\$3,500.00	\$568.00	\$14,200.00
P.II.7	15" Sewer Pipe (0'-6')	390	LF	\$83.00	\$32,370.00	\$56.00	\$21,840.00	\$99.00	\$38,610.00
P.II.8	15" Sewer Pipe (6'-8')	1,196	LF	\$85.00	\$101,660.00	\$65.00	\$77,740.00	\$94.00	\$112,424.00
P.II.9	15" Sewer Pipe (8'-10')	608	LF	\$90.00	\$54,720.00	\$75.00	\$45,600.00	\$110.00	\$66,880.00
P.II.10	15" Sewer Pipe (10'-12')	98	LF	\$96.00	\$9,408.00	\$85.00	\$8,330.00	\$209.00	\$20,482.00
P.II.11	15" Sewer Pipe (12'-14')	687	LF	\$100.00	\$68,700.00	\$100.00	\$68,700.00	\$123.00	\$84,501.00
P.II.12	15" Sewer Pipe (14'-16')	127	LF	\$102.00	\$12,954.00	\$110.00	\$13,970.00	\$191.00	\$24,257.00
P.II.13	15" Sewer Pipe (16'-18')	25	LF	\$160.00	\$4,000.00	\$140.00	\$3,500.00	\$108.00	\$2,700.00
P.II.14	12" Sewer Pipe	115	LF	\$90.00	\$10,350.00	\$140.00	\$16,100.00	\$52.00	\$5,980.00
P.II.15	4" Service Connections	12	EA	\$3,800.00	\$45,600.00	\$1,500.00	\$18,000.00	\$1,804.00	\$21,648.00
P.II.16	6" Service Connections	6	EA	\$3,800.00	\$22,800.00	\$1,800.00	\$10,800.00	\$2,904.00	\$17,424.00
P.II.17	Removing/Replacing 4' Diameter Manholes	2	EA	\$5,500.00	\$11,000.00	\$7,000.00	\$14,000.00	\$4,670.00	\$9,340.00
P.II.18	Removing/Replacing 4' Diameter Manholes (Drop)	2	EA	\$5,500.00	\$11,000.00	\$8,000.00	\$16,000.00	\$6,420.00	\$12,840.00
P.II.19	Construct 4' Diameter Manholes	7	EA	\$5,500.00	\$38,500.00	\$7,000.00	\$49,000.00	\$6,246.00	\$43,722.00
P.II.20	Construct 4' Diameter Manholes (Drop)	1	EA	\$5,500.00	\$5,500.00	\$8,000.00	\$8,000.00	\$10,242.00	\$10,242.00
P.II.21	Extra Depth Manhole (4' Diameter)	25	VF	\$350.00	\$8,750.00	\$400.00	\$10,000.00	\$325.00	\$8,125.00
P.II.22	Extra Depth Drop Manhole (4' Diameter)	39	VF	\$350.00	\$13,650.00	\$500.00	\$19,500.00	\$325.00	\$12,675.00
P.II.23	Raven Series 405 Lining	134	VF	\$140.00	\$18,760.00	\$350.00	\$46,900.00	\$185.00	\$24,790.00
P.II.24	Remove Existing (10") Sanitary Sewer Line	52	LF	\$50.00	\$2,600.00	\$50.00	\$2,600.00	\$2.00	\$104.00
P.II.25	Cleaning Lines	3,043	LF	\$20.00	\$60,860.00	\$20.00	\$60,860.00	\$4.00	\$12,172.00
P.II.26	Remove Manhole Cover	8	EA	\$850.00	\$6,800.00	\$1,500.00	\$12,000.00	\$1,595.00	\$12,760.00
P.II.27	Existing Sewer to Proposed Manhole	2	EA	\$2,500.00	\$5,000.00	\$1,800.00	\$3,600.00	\$2,936.00	\$5,872.00
P.II.28	Proposed Sewer to Existing Manhole	1	EA	\$2,500.00	\$2,500.00	\$1,800.00	\$1,800.00	\$3,432.00	\$3,432.00
P.II.29	Pavement Repair	3,396	LF	\$62.00	\$210,552.00	\$50.00	\$169,800.00	\$56.00	\$190,176.00
P.II.30	OSHA Trench Excavation Protection	3,886	LF	\$3.00	\$11,658.00	\$5.00	\$19,430.00	\$6.00	\$23,316.00
P.II.31	Bermuda Grass (Hydro-Mulching)	100	SY	\$1.00	\$100.00	\$10.00	\$1,000.00	\$0.94	\$94.00
P.II.32	Block Sod for Erosion Control	776	SY	\$5.00	\$3,880.00	\$10.00	\$7,760.00	\$5.00	\$3,880.00
P.II.33	Video Sanitary Sewer	3,886	LF	\$3.00	\$11,658.00	\$7.00	\$27,202.00	\$1.00	\$3,886.00
P.II.34	Traffic Control Plan	1	LS	\$25,000.00	\$25,000.00	\$21,000.00	\$21,000.00	\$6,417.00	\$6,417.00
P.II.35	Complete Topographical	1	LS	\$15,000.00	\$15,000.00	\$7,000.00	\$7,000.00	\$12,559.00	\$12,559.00
P.II.36	Storm Water Pollution Prevention Plan	1	LS	\$10,000.00	\$10,000.00	\$21,000.00	\$21,000.00	\$6,351.00	\$6,351.00
P.II.37	Alternate Soil Backfill Material	1,000	LF	\$45.00	\$45,000.00	\$100.00	\$100,000.00	\$79.00	\$79,000.00
<b>TOTAL PROPOSAL II</b>					<b>\$963,840.00</b>		<b>\$962,237.00</b>		<b>\$1,036,232.00</b>
<b>ADDITIVE ALTERNATIVES</b>									
AA.1	18" ASTM F-679 Sewer Pipe	3,887	LF	\$140.00	\$544,180.00	\$20.00	\$77,740.00	\$41.00	\$159,367.00
AA.2	Grout Sewer Pipe 10"	3,043	LF	\$10.00	\$30,430.00	\$20.00	\$60,860.00	\$15.00	\$45,645.00
<b>TOTAL ADDITIVE ALTERNATES</b>					<b>\$574,610.00</b>		<b>\$138,600.00</b>		<b>\$205,012.00</b>
<b>TOTAL PROPOSAL I AND PROPOSAL II</b>					<b>\$1,124,479.50</b>		<b>\$1,148,676.00</b>		<b>\$1,226,321.00</b>