

ESTIMATE: **Seacliff Area Main Replacement Phase II**

DATE: **November 12, 2008**

CWO: **08-042**

Item	Description	Quantity	Unit	Engineer's Estimate		Martinez Paving & Grading Santa Cruz, CA		Preston Pipelines, Inc. Milpitas, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$168.00	\$138,600.00	\$182.00	\$150,150.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$293.00	\$24,026.00	\$435.00	\$35,670.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$137.00	\$12,878.00	\$111.00	\$10,434.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$21,212.00	\$21,212.00	\$20,682.00	\$20,682.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$117.00	\$163,215.00	\$138.00	\$192,510.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$131.00	\$144,100.00	\$160.00	\$176,000.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$131.00	\$107,289.00	\$133.00	\$108,927.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$145.00	\$31,320.00	\$106.00	\$22,896.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$280.00	\$5,320.00	\$358.00	\$6,802.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$180.00	\$5,940.00	\$240.00	\$7,920.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$3,220.00	\$3,220.00	\$2,344.00	\$2,344.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,600.00	\$3,600.00	\$3,215.00	\$3,215.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$3,600.00	\$3,600.00	\$3,216.00	\$3,216.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$1,950.00	\$1,950.00	\$1,408.00	\$1,408.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$4,230.00	\$4,230.00	\$9,566.00	\$9,566.00

				Engineer's Estimate		Martinez Paving & Grading		Preston Pipelines, Inc.	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$2,180.00	\$69,760.00	\$3,281.00	\$104,992.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$3,530.00	\$7,060.00	\$5,205.00	\$10,410.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$2,360.00	\$4,720.00	\$870.00	\$1,740.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$2,554.00	\$5,108.00	\$1,793.00	\$3,586.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$4,420.00	\$4,420.00	\$2,307.00	\$2,307.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharfhead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$8,200.00	\$16,400.00	\$8,177.00	\$16,354.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$3,520.00	\$7,040.00	\$2,680.00	\$5,360.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$6,125.00	\$6,125.00	\$16,340.00	\$16,340.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$5,130.00	\$5,130.00	\$3,534.00	\$3,534.00
25	Tie-in to Existing 8" Water Main at Seacliff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$4,600.00	\$4,600.00	\$4,947.00	\$4,947.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$4,600.00	\$4,600.00	\$5,239.00	\$5,239.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$2,400.00	\$7,200.00	\$3,810.00	\$11,430.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$4,165.00	\$4,165.00	\$3,517.00	\$3,517.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$6,162.00	\$6,162.00	\$10,079.00	\$10,079.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$4,715.00	\$4,715.00	\$7,023.00	\$7,023.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$6,080.00	\$6,080.00	\$4,381.00	\$4,381.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seacliff Dr.	1	EA	\$4,500.00	\$4,500.00	\$4,310.00	\$4,310.00	\$3,445.00	\$3,445.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$6,125.00	\$6,125.00	\$5,236.00	\$5,236.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$4,000.00	\$4,000.00	\$4,559.00	\$4,559.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.62	\$53,332.40	\$0.40	\$34,408.00
						\$1,153,978.00	\$901,552.40	\$1,010,627.00	

Math error in bid

<b>Apparent Low Bidder</b>	Martinez Paving & Grading
<b>Low Bid</b>	\$901,552.40

Item	Description	Quantity	Unit	Engineer's Estimate		The Don Chapin Co., Inc. Salinas, CA		Granite Rock Co. dba Pavex San Jose, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$185.00	\$152,625.00	\$170.00	\$140,250.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$255.00	\$20,910.00	\$500.00	\$41,000.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$160.00	\$15,040.00	\$200.00	\$18,800.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$31,000.00	\$31,000.00	\$53,000.00	\$53,000.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$125.00	\$174,375.00	\$140.00	\$195,300.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$152.00	\$167,200.00	\$157.00	\$172,700.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$145.00	\$118,755.00	\$136.00	\$111,384.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$123.00	\$26,568.00	\$150.00	\$32,400.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$175.00	\$3,325.00	\$300.00	\$5,700.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$156.00	\$5,148.00	\$200.00	\$6,600.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$3,200.00	\$3,200.00	\$4,400.00	\$4,400.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00	\$4,500.00	\$4,500.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$2,800.00	\$2,800.00	\$4,500.00	\$4,500.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$39,319.80	\$39,319.80	\$30,000.00	\$30,000.00

				Engineer's Estimate		The Don Chapin Co., Inc.		Granite Rock Co. dba Pavex	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$3,600.00	\$115,200.00	\$3,000.00	\$96,000.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$3,400.00	\$6,800.00	\$4,500.00	\$9,000.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$3,100.00	\$6,200.00	\$3,000.00	\$6,000.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$4,200.00	\$8,400.00	\$7,000.00	\$14,000.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$6,000.00	\$6,000.00	\$7,000.00	\$7,000.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharfhead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$9,400.00	\$18,800.00	\$7,500.00	\$15,000.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$5,800.00	\$11,600.00	\$4,500.00	\$9,000.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$21,500.00	\$21,500.00	\$9,500.00	\$9,500.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$7,100.00	\$7,100.00	\$4,500.00	\$4,500.00
25	Tie-in to Existing 8" Water Main at Seacliff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$17,100.00	\$17,100.00	\$4,500.00	\$4,500.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$4,400.00	\$4,400.00	\$8,500.00	\$8,500.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$4,200.00	\$12,600.00	\$6,500.00	\$19,500.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$3,600.00	\$3,600.00	\$3,500.00	\$3,500.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$6,900.00	\$6,900.00	\$4,500.00	\$4,500.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,600.00	\$3,600.00	\$3,500.00	\$3,500.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$5,700.00	\$5,700.00	\$5,500.00	\$5,500.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seacliff Dr.	1	EA	\$4,500.00	\$4,500.00	\$3,900.00	\$3,900.00	\$2,500.00	\$2,500.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$14,500.00	\$14,500.00	\$5,500.00	\$5,500.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$16,200.00	\$16,200.00	\$6,500.00	\$6,500.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.21	\$18,064.20	\$0.20	\$17,204.00
					\$1,153,978.00		\$1,073,430.00		\$1,073,738.00

Item	Description	Quantity	Unit	Engineer's Estimate		Trincherro Constr. Co., Inc. San Martin, CA		Granite Construction Co. Watsonville, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$231.00	\$190,575.00	\$273.00	\$225,225.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$269.50	\$22,099.00	\$219.00	\$17,958.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$199.00	\$18,706.00	\$218.00	\$20,492.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$27,460.00	\$27,460.00	\$37,000.00	\$37,000.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$134.00	\$186,930.00	\$134.00	\$186,930.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$160.00	\$176,000.00	\$160.00	\$176,000.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$140.00	\$114,660.00	\$146.00	\$119,574.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$110.00	\$23,760.00	\$121.00	\$26,136.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$231.00	\$4,389.00	\$200.00	\$3,800.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$148.00	\$4,884.00	\$200.00	\$6,600.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$2,788.00	\$2,788.00	\$5,000.00	\$5,000.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,302.00	\$3,302.00	\$5,000.00	\$5,000.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$3,302.00	\$3,302.00	\$1,700.00	\$1,700.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$2,014.00	\$2,014.00	\$2,000.00	\$2,000.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$16,280.00	\$16,280.00	\$10,000.00	\$10,000.00

				Engineer's Estimate		Trinchero Constr. Co., Inc.		Granite Construction Co.	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$3,524.00	\$112,768.00	\$2,300.00	\$73,600.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$6,875.00	\$13,750.00	\$4,000.00	\$8,000.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$5,885.00	\$11,770.00	\$3,000.00	\$6,000.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$5,446.00	\$10,892.00	\$5,000.00	\$10,000.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$8,726.00	\$8,726.00	\$5,800.00	\$5,800.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharfhead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$11,282.00	\$22,564.00	\$7,000.00	\$14,000.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$4,088.00	\$8,176.00	\$2,900.00	\$5,800.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$8,696.00	\$8,696.00	\$10,000.00	\$10,000.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$4,216.00	\$4,216.00	\$4,000.00	\$4,000.00
25	Tie-in to Existing 8" Water Main at Seacliff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$3,792.00	\$3,792.00	\$4,300.00	\$4,300.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$3,610.00	\$3,610.00	\$3,500.00	\$3,500.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$2,456.00	\$7,368.00	\$3,000.00	\$9,000.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$2,215.00	\$2,215.00	\$3,600.00	\$3,600.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$5,398.00	\$5,398.00	\$5,400.00	\$5,400.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,740.00	\$3,740.00	\$3,700.00	\$3,700.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$5,462.00	\$5,462.00	\$5,700.00	\$5,700.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seacliff Dr.	1	EA	\$4,500.00	\$4,500.00	\$2,382.00	\$2,382.00	\$3,800.00	\$3,800.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$5,508.00	\$5,508.00	\$8,000.00	\$8,000.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$2,914.00	\$2,914.00	\$5,000.00	\$5,000.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.50	\$43,010.00	\$0.60	\$51,612.00
					\$1,153,978.00		\$1,084,106.00		\$1,084,227.00

Item	Description	Quantity	Unit	Engineer's Estimate		Pacific Underground Constr.		Monterey Peninsula Eng.	
				Unit Cost	Total Amount	San Jose, CA		Marina, CA	
						Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$254.00	\$209,550.00	\$223.00	\$183,975.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$591.00	\$48,462.00	\$275.00	\$22,550.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$270.00	\$25,380.00	\$190.00	\$17,860.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$37,569.00	\$37,569.00	\$50,000.00	\$50,000.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$154.00	\$214,830.00	\$135.00	\$188,325.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$188.00	\$206,800.00	\$150.00	\$165,000.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$144.00	\$117,936.00	\$130.00	\$106,470.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$101.00	\$21,816.00	\$115.00	\$24,840.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$100.00	\$1,900.00	\$130.00	\$2,470.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$150.00	\$4,950.00	\$125.00	\$4,125.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$3,500.00	\$3,500.00	\$2,000.00	\$2,000.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,500.00	\$3,500.00	\$2,500.00	\$2,500.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$3,500.00	\$3,500.00	\$2,500.00	\$2,500.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$1,700.00	\$1,700.00	\$2,500.00	\$2,500.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$8,000.00	\$8,000.00	\$20,000.00	\$20,000.00

				Engineer's Estimate		Pacific Underground Constr.		Monterey Peninsula Eng.	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$1,000.00	\$32,000.00	\$3,000.00	\$96,000.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$2,000.00	\$4,000.00	\$4,500.00	\$9,000.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$700.00	\$1,400.00	\$7,000.00	\$14,000.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$2,500.00	\$5,000.00	\$4,000.00	\$8,000.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$3,000.00	\$3,000.00	\$7,000.00	\$7,000.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharfhead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$9,200.00	\$18,400.00	\$10,500.00	\$21,000.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$3,700.00	\$7,400.00	\$3,500.00	\$7,000.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$14,000.00	\$14,000.00	\$8,000.00	\$8,000.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$3,500.00	\$3,500.00	\$7,000.00	\$7,000.00
25	Tie-in to Existing 8" Water Main at Seacliff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$16,000.00	\$16,000.00	\$5,000.00	\$5,000.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$2,800.00	\$2,800.00	\$6,500.00	\$6,500.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$210.00	\$630.00	\$5,000.00	\$15,000.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$1,200.00	\$1,200.00	\$3,500.00	\$3,500.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$6,000.00	\$6,000.00	\$7,500.00	\$7,500.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$5,500.00	\$5,500.00	\$7,500.00	\$7,500.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seacliff Dr.	1	EA	\$4,500.00	\$4,500.00	\$1,300.00	\$1,300.00	\$3,500.00	\$3,500.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$13,000.00	\$13,000.00	\$8,500.00	\$8,500.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$2,500.00	\$2,500.00	\$4,500.00	\$4,500.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.42	\$36,128.40	\$0.70	\$60,214.00
						\$1,153,978.00	\$1,085,651.40	\$1,098,829.00	

Item	Description	Quantity	Unit	Engineer's Estimate		Sanco Pipelines, Inc. Campbell, CA		Lewis and Tibbitts, Inc. San Jose, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$208.00	\$171,600.00	\$230.00	\$189,750.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$401.00	\$32,882.00	\$600.00	\$49,200.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$167.00	\$15,698.00	\$250.00	\$23,500.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$39,650.00	\$39,650.00	\$108,400.00	\$108,400.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$139.00	\$193,905.00	\$175.00	\$244,125.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$221.00	\$243,100.00	\$200.00	\$220,000.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$153.00	\$125,307.00	\$165.00	\$135,135.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$98.00	\$21,168.00	\$132.00	\$28,512.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$656.00	\$12,464.00	\$390.00	\$7,410.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$263.00	\$8,679.00	\$225.00	\$7,425.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$3,800.00	\$3,800.00	\$1,290.00	\$1,290.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$4,225.00	\$4,225.00	\$1,725.00	\$1,725.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$4,225.00	\$4,225.00	\$1,725.00	\$1,725.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$1,930.00	\$1,930.00	\$4,300.00	\$4,300.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$25,400.00	\$25,400.00	\$1,390.00	\$1,390.00

				Engineer's Estimate		Sanco Pipelines, Inc.		Lewis and Tibbitts, Inc.	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$1,695.00	\$54,240.00	\$2,235.00	\$71,520.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$1,500.00	\$3,000.00	\$4,125.00	\$8,250.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$1,065.00	\$2,130.00	\$1,225.00	\$2,450.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$1,465.00	\$2,930.00	\$3,141.00	\$6,282.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$4,750.00	\$4,750.00	\$6,070.00	\$6,070.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharfhead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$12,100.00	\$24,200.00	\$14,170.00	\$28,340.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$6,150.00	\$12,300.00	\$4,120.00	\$8,240.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$16,650.00	\$16,650.00	\$18,050.00	\$18,050.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$4,000.00	\$4,000.00	\$7,125.00	\$7,125.00
25	Tie-in to Existing 8" Water Main at Seacliff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$5,000.00	\$5,000.00	\$8,655.00	\$8,655.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$5,150.00	\$5,150.00	\$8,975.00	\$8,975.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$4,650.00	\$13,950.00	\$2,940.00	\$8,820.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$3,990.00	\$3,990.00	\$7,100.00	\$7,100.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$7,400.00	\$7,400.00	\$10,790.00	\$10,790.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$7,075.00	\$7,075.00	\$7,480.00	\$7,480.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$10,500.00	\$10,500.00	\$8,635.00	\$8,635.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seacliff Dr.	1	EA	\$4,500.00	\$4,500.00	\$13,000.00	\$13,000.00	\$7,030.00	\$7,030.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seacliff Dr.	1	EA	\$4,800.00	\$4,800.00	\$7,300.00	\$7,300.00	\$9,565.00	\$9,565.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$4,850.00	\$4,850.00	\$8,235.00	\$8,235.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.90	\$77,418.00	\$0.40	\$34,408.00
					\$1,153,978.00		\$1,183,866.00		\$1,299,907.00

Addendums not signed

Item	Description	Quantity	Unit	Engineer's Estimate		ESR Construction San Jose, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 16" Class 200 PVC and Class 350 Ductile Iron Water Main with 16" Valves and Fittings on Searidge Dr., State Park Dr., and Center Ave.	825	LF	\$196.00	\$161,700.00	\$250.00	\$206,250.00
2	Installation of Steel Casing Pipe at Railroad Undercrossing	82	LF	\$553.00	\$45,346.00	\$400.00	\$32,800.00
3	Installation of 16" Carrier Pipe at Railroad Undercrossing	94	LF	\$85.00	\$7,990.00	\$300.00	\$28,200.00
4	Boring and Receiving Pits for Railroad Undercrossing	1	L.S.	\$100,000.00	\$100,000.00	\$15,000.00	\$15,000.00
5	Installation of 12" Class 200 PVC water main with 12" Valves and Fittings on Center Ave.	1,395	LF	\$158.00	\$220,410.00	\$175.00	\$244,125.00
6	Installation of 14" Class 200 PVC water main with 14" Valves and Fittings on Seacliff Dr.	1,100	LF	\$179.00	\$196,900.00	\$200.00	\$220,000.00
7	Installation of 12" Class 200 PVC Water Main with 12" Valves and Fittings on Spreckles Dr. w/12" Water Main Extension	819	LF	\$158.00	\$129,402.00	\$180.00	\$147,420.00
8	Installation of 6" Class 200 PVC Water Main with 6" Valves and Fittings on East St. between Center Ave. and North Ave., w/Main Extension at Center Ave. and East St.	216	LF	\$112.00	\$24,192.00	\$175.00	\$37,800.00
9	Installation of 8" Class 200 PVC Water Main Extension on Hillcrest Ave. and 335 Spreckles Dr.	19	LF	\$125.00	\$2,375.00	\$350.00	\$6,650.00
10	Installation of 6" Class 200 PVC Water Main Extensions on East St. and Sea Terrace Way	33	LF	\$115.00	\$3,795.00	\$200.00	\$6,600.00
11	Installation of 6" In-line Gate Valve on Searidge Dr.	1	EA	\$4,400.00	\$4,400.00	\$3,000.00	\$3,000.00
12	Installation of 8" In-line Gate Valve on North Ave.	1	EA	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00
13	Installation of 8" In-line Gate Valve on Spreckles Dr.	1	EA	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00
14	Installation of 1" SCWD Air Release Valve assembly	1	EA	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00
15	Abandonment of Existing Water Mains and Valves.	1	L.S.	\$20,000.00	\$20,000.00	\$10,000.00	\$10,000.00

				Engineer's Estimate		ESR Construction	
16	Replacement of Single Domestic Water Service	32	EA	\$2,562.00	\$81,984.00	\$4,500.00	\$144,000.00
17	Relocation of Single Domestic Water Service to Existing Water Main at 163 and 165 East Street.	2	EA	\$3,500.00	\$7,000.00	\$3,000.00	\$6,000.00
18	Tie-over Reconnection of Single Domestic Water Service at Spreckles Dr.	2	EA	\$2,700.00	\$5,400.00	\$2,000.00	\$4,000.00
19	Reconnection of 2" Domestic and Fire Service with 2" Gate Valve	2	EA	\$1,857.00	\$3,714.00	\$2,500.00	\$5,000.00
20	Reconnection of 4" Fire Service	1	EA	\$4,350.00	\$4,350.00	\$3,000.00	\$3,000.00
21	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances, and Removal of Existing Wharthead Hydrants and Appurtenances,	2	EA	\$6,956.00	\$13,912.00	\$6,000.00	\$12,000.00
22	Reconnection of 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances	2	EA	\$4,350.00	\$8,700.00	\$4,000.00	\$8,000.00
23	Tie-in to Existing 6" and 12" Water Main at McGregor Dr. and Searidge Dr.	1	EA	\$6,700.00	\$6,700.00	\$15,000.00	\$15,000.00
24	Tie-in to Existing 8" Water Main at Hillcrest Dr	1	EA	\$5,800.00	\$5,800.00	\$7,000.00	\$7,000.00
25	Tie-in to Existing 8" Water Main at Seaciff Dr. and State Park Dr.	1	EA	\$5,800.00	\$5,800.00	\$12,000.00	\$12,000.00
26	Tie-in to Existing 16" Water Main at Butterfly Valve on Center Ave.	1	EA	\$3,500.00	\$3,500.00	\$9,000.00	\$9,000.00
27	Tie-in to Existing 12" Water Main at Butterfly Valve on Center Ave. at Broadway and El Camino Del Mar	3	EA	\$2,300.00	\$6,900.00	\$8,000.00	\$24,000.00
28	Tie-in to Existing 6" Water Main at Center Ave. and East St.	1	EA	\$4,500.00	\$4,500.00	\$7,000.00	\$7,000.00
29	Tie-in to Existing 8" Water Main at North Ave. and East St.	1	EA	\$5,300.00	\$5,300.00	\$7,000.00	\$7,000.00
30	Tie-in to Existing 6" Water Main at Center Ave. and Santa Clara Ave.	1	EA	\$4,500.00	\$4,500.00	\$7,000.00	\$7,000.00
31	8" Hot Tap to Existing 8" Water Main at North Ave. and Seaciff Dr.	1	EA	\$4,800.00	\$4,800.00	\$10,000.00	\$10,000.00
32	Tie-in to Existing 6" Water Main at Sea Terrace Way and Seaciff Dr.	1	EA	\$4,500.00	\$4,500.00	\$7,000.00	\$7,000.00
33	8" Hot Tap to Existing 8" Water Main at Spreckles Dr. near Seaciff Dr.	1	EA	\$4,800.00	\$4,800.00	\$10,000.00	\$10,000.00
34	Tie-in to Existing 12" Tee at Spreckles Dr. near Soquel Dr.	1	EA	\$6,900.00	\$6,900.00	\$15,000.00	\$15,000.00
35	Application of Cal Trans Type II slurry seal.	86,020	SQ-FT	\$0.40	\$34,408.00	\$0.40	\$34,408.00
				\$1,153,978.00		\$1,312,253.00	