

Table 1
Clear Creek Community Services District
Water Distribution System Replacement Project
Preliminary Project Cost Estimate
January 7, 2021

No.	Item	Quantity	Unit	Unit Cost	Total Cost
1	Construction Cost				
2	Mobilization/Demobilization/Unstable Trench	1	LS	\$60,000	\$60,000
3	SWPPP Implementation	1	LS	\$20,000	\$20,000
4	Install 10" Pipe w/Class A1 Bkfl	5980	LF	\$105	\$627,900
5	Section Valves	12	EA	\$500	\$5,980
6	Cap and Abandon Existing Water Main	4	EA	\$1,200	\$4,800
7	Replace Water Meters ²	2252	EA	\$150	\$337,800
8	Install New Water Meters ²	404	EA	\$4,500	\$1,818,000
9	Install New Fire Hydrants	12	EA	\$8,300	\$99,268
10	Install New Backflow Prevention Device	0	EA	\$3,600	\$0
11	Trenching, Sheeting, and Shoring	1	LS	\$5,400	\$5,400
12	Traffic Control	1	LS	\$16,600	\$16,600
13	Encroachment Permit	1	LS	\$500	\$500
14	Construction Cost Subtotal				\$2,996,248
15	Contingency at 20%				\$599,000
16	Inflation at 3%/Year for 3 Years				\$333,377
17	Construction Cost Subtotal				\$3,928,600
18	Indirect Costs				
19	DWSRF General Package				\$15,000
20	DWSRF Technical Package				\$50,000
21	DWSRF Environmental Package				\$52,000
22	DWSRF Financial Package				\$20,000
23	Permits				\$5,000
24	Survey				\$9,000
25	Rights-of-Way Determination				\$10,000
26	Plans				\$43,000
27	Construction Contract Project Manual				\$20,000
28	Services During Bidding				\$35,000
29	Construction Administration				\$196,000
30	Construction Observation				\$110,000
31	Construction Surveying				\$9,000
32	Prevailing Wage Monitoring				\$25,000
33	Environmental Compliance During Construction				\$5,000
34	Project Performance Reporting				\$20,000
35	CCCSD Administration				\$20,000
36	Record Drawings				\$5,000
37	Legal Counsel				\$5,000
38	Indirect Cost Subtotal				\$654,000
39	TOTAL PROJECT COST ESTIMATE				\$4,582,600
40	Total DWSRF Grant at 90%				\$4,124,340
41	Total DWSRF Loan at 10%				\$458,260
42	Annual Loan Repayment at 1.4% for 30 Years				\$18,812
43	Monthly Cost to Each Metered Connection (2,252 + 404)				\$0.59

1. All Costs are in December 2020 dollars.

2. District to conduct survey for placement of 404 new meters and replacement of 2252 meters.