

Florida Rural Water Association

Member: **El Jobean Water Association**

Contact: **4-Dec-20**

City: **El Jobean**

Project: **Additional Interconnect with Charlotte County Utilities**

Date: **4-Dec-20**
 Connections: **600**
 PWS: **6080081**
 County: **Charlotte**

Engineer's Opinion of Cost

Alternative 2 ~ Additional Interconnect with Charlotte County Utilities

Alternative 3 ~ Booster Pumps Throughout System

Item	Description	Unit Price	Quantity	Units	Totals	Quantity	Units	Totals
1	8-inch C-900 (DR-25) PVC Water Main Installed complete with fittings, restraining, tracer wire & appurtenances, clearing, grubbing, , excavation, backfilling, surface restoration, sodding and seeding, etc.	\$ 60	111	LF	\$6,660			
2	6-inch C-900 (DR-25) PVC Water Main Installed complete with fittings, restraining, tracer wire & appurtenances, clearing, grubbing, excavation, backfilling, surface restoration, sodding and seeding, etc.	\$ 50	225	LF	\$11,250			
3 A	16-in x 8-in Tapping Sleeve and Gate Valve, buried with valve box and cover.	\$ 9,500	1	EA	\$9,500			
3 B	8-in Hot Tap Insertion Valves, buried with valve box and cover.	\$ 12,000	2	EA	\$24,000			
4	8-in x 8-in Tapping Sleeve and Gate Valve, buried with valve box and cover.	\$ 7,500	1	EA	\$7,500			
5	8-in x 8-in x 6-in Tee	\$ 1,000	1	EA	\$1,000			
6	8-in MJ DIP 90° Elbow	\$ 500	2	EA	\$1,000			
7	6-in MJ DIP 90° Elbow	\$ 400	1	EA	\$400			
8	6-in Gate Valve , buried with valve box and cover	\$ 1,250	1	EA	\$1,250			
9	8-in 45° Elbow DIP MJ	\$ 600.00	2	EA	\$1,200			
10	8-in 45° Elbow DIP Flanged	\$ 600.00	2	EA	\$1,200			
11	Pipe Supports (min. spacing 5'-0")	\$ 200.00	13	EA	\$2,600			
12	8-in x 8-in x 8-in Tee DIP Flanged	\$ 1,000.00	2	EA	\$2,000			
13	Pressure Gauge	\$ 100.00	2	EA	\$200			
14	8-in Strainer, Basket, 304 SS, 8", Flanged	\$ 2,500.00	1	EA	\$2,500			

15	8-in Reduced Pressure Back Flow Preventor with (2) Resilient Seat Gate Valves (normally open)	\$ 9,000.00	1	EA	\$9,000			
16	4-in Reduced Pressure Back Flow Preventor with (2) Resilient Seat Gate Valves (normally open)	\$ 4,000.00	1	EA	\$4,000			
17	4-in x 8-in Reducer DIP Flanged	\$ 500.00	4	EA	\$2,000			
18	4-in Pipe Restrained Flange Adaptor DIP	\$ 250.00	4	EA	\$1,000			
19	4-in Pipe Spool DIP	\$ 125.00	9	LF	\$1,125			
20	4-in Neptune Compound Meter (Provided by Charlotte Co. Utilities)	\$ -	2	EA	\$0			
21	8-in Resilient Seat Gate Valve (normally open)	\$ 1,200.00	1	EA	\$1,200			
22	8-in Resilient Seat Gate Valve (normally closed)	\$ 1,200.00	2	EA	\$2,400			
23	8-in Pressure Reducing Valve	\$ 6,000.00	1	EA	\$6,000			
24	4-in 45° Elbow DIP Flanged	\$ 300.00	2	EA	\$600			
25	4-in Pipe Spool DIP	\$ 125.00	20.5	LF	\$2,563			
26	8-in DIP Pipe	\$ 175.00	16	LF	\$2,800			
27	Traffic Control (FDOT Index 600)	\$ 2,000	1	LS	\$2,000			
28	Testing, Pressure, Bacterologicals	\$ 1,000	1	LS	\$1,000			
29	Project Layout by Registered Land Surveyor	\$ 1,250	1	LS	\$1,250			
30	Certified As-Built by Reg. Land Surveyor	\$ 1,250	1	LS	\$1,250			
31	Mobilization	\$ 10,407	1	LS	\$10,407			
32	Insurance	\$ 3,122	1	LS	\$3,122			
33	Booster Pumps	\$ 625,000				2	EA	\$1,250,000
	Sub-Total Costs			<i>Rounded</i>	\$124,000			\$1,250,000

DWSRF Post-allowance Project Activities

Item	Description			Totals		Totals
a.	Planning.			\$0		\$0
b.	Design (not applicable if a D/B project).			\$0		\$0
c.	Technical services per 62-552.300(3)(h), F.A.C., for planning and design.			\$0		\$0
d.	Administration before bid opening			\$0		\$0
e.	Eligible land (necessary land divided by total land times purchase price).			\$0		\$0
f.	Constr., equip., material, demo. & related procurement			\$124,000		\$1,250,000
g.	Administration during construction and after bid opening.			\$6,000		\$6,000
h.	Construction contingency (10% of 'f').			\$12,400		\$125,000
i.	Technical services during construction and after bid opening.			\$10,000		\$10,000

j.	Asset management plan per 62-552.700(7), F.A.C.	\$0	\$0
k.	Total project costs (sum of a. through j.).	\$152,400	\$1,391,000

Estimated Monthly Rates @ various grant / funding levels

Connections: 600
 Months: 240 Percentage: 1.34% 240 Percentage: 1.34%

Scenario	Loan / Grant	% Loan	Loan Amt	Grant Amt	Monthly Water Rate Increase	Loan Amt	Grant Amt	Monthly Water Rate Increase
1	100% Loan / 0% Grant	100%	\$152,400	\$0	\$1.21	\$1,391,000	\$0	\$11.02
2	75% Loan / 25% Grant	75%	\$114,300	\$38,100	\$0.91	\$1,043,250	\$347,750	\$8.26
3	50% Loan / 50% Grant	50%	\$76,200	\$76,200	\$0.60	\$695,500	\$695,500	\$5.51
4	35% Loan / 65% Grant	35%	\$53,340	\$99,060	\$0.42	\$486,850	\$904,150	\$3.86
5	25% Loan / 75% Grant	25%	\$38,100	\$114,300	\$0.30	\$347,750	\$1,043,250	\$2.75