

**City of Manzanita - Dorcas & 4th
Preliminary Water Cost Est.**

Item	Description	Units	Quantity	Unit Cost	Total for Item
1	Mobilization, Traffic Control & Flagging (5%)	LS	1	\$ 9,300	\$ 9,300
2	Typical Water Service Assembly - New Assembly	EA	36	\$ 800	\$ 28,800
3	Asbestos Pipe Demolition	LF	100	\$ 50	\$ 5,000
4	8-inch AWWA C-900 PVC Water Main Pipe Including Trench Excavation, Select Bedding and Native Backfill, Disinfection and Testing	LF	1970	\$ 45	\$ 88,650
5	6-inch AWWA C-900 PVC Water Main Pipe Including Trench Excavation, Select Bedding and Native Backfill, Disinfection and Testing	LF	200	\$ 28	\$ 5,600
6	4-inch AWWA C-900 PVC Water Main Pipe Including Trench Excavation, Select Bedding and Native Backfill, Disinfection and Testing	LF	50	\$ 25	\$ 1,250
7	Bends - Various Angles & Sizes - Including Vertical	EA	6	\$ 500	\$ 3,000
8	8"x6" Tee	EA	1	\$ 500	\$ 500
9	8"x8" Tee	EA	1	\$ 1,000	\$ 1,000
10	8"x6" Cross	EA	1	\$ 1,400	\$ 1,400
11	8" Gate Valve	EA	6	\$ 1,800	\$ 10,800
12	6" Gate Valve	EA	4	\$ 1,000	\$ 4,000
13	4" Gate Valve	EA	2	\$ 800	\$ 1,600
14	Hydrant Assembly	EA	2	\$ 4,800	\$ 9,600
15	Air Release Assemblies	EA	1	\$ 1,600	\$ 1,600
16	Connection No. 1 - (Including GV, Coupler and required Fittings)	EA	1	\$ 3,000	\$ 3,000
17	Connection No. 2 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 1,500	\$ 1,500
18	Connection No. 3 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 1,500	\$ 1,500
19	Connection No. 4 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 6,000	\$ 6,000
20	Connection No. 5 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 6,000	\$ 6,000
21	Connection No. 6 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 3,000	\$ 3,000
22	Connection No. 7 - (Including Bends, Coupler and required Fittings)	EA	1	\$ 1,500	\$ 1,500

Subtotal: \$ 194,600
 15% Construction Contingency \$ 29,200
Preliminary Water Construction Estimate \$ 223,800
 Per LF of pipe \$ 101

Preliminary Road Cost Est.

Item	Description	Units	Quantity	Unit Cost	Total for Item
1	Mobilization, Traffic Control & Flagging (5%)	LS	1	\$ 15,400	\$ 15,400
2	Erosion Control, Stormwater Management & Dewatering	LS	1	\$ 4,800	\$ 4,800
3	Clearing & Grubbing	AC	0.25	\$ 20,000	\$ 5,000
4	Asphalt Sawcut	LF	450	\$ 3.50	\$ 1,575
5	Pavement Demolition (in place quantities)	SY	5722	\$ 3.00	\$ 17,167
6	Subgrade or General Excavation & Fill	CY	2276	\$ 16	\$ 36,423
7	3/4"-0" Aggregate Leveling Course & Shoulder Rock (12")	CY	2276	\$ 35	\$ 78,800
8	Asphalt Paving (4" Thick Road Section)	Ton	1511	\$ 100	\$ 151,067
9	Construction Fabric	SY	5722	\$ 1.00	\$ 5,722
10	12" Striping	LF	60	\$ 20	\$ 1,200
11	4" Striping	LF		\$ 2	\$ -
12	Signage	EA	8	\$ 200	\$ 1,600
13	Survey Monument Protection & Monument Box Construction	EA	2	\$ 1,000	\$ 2,000
14	Adjust Existing Surface Structures	LS	10	\$ 250	\$ 2,500

Subtotal: \$ 323,254
 15% Construction Contingency \$ 49,000
Preliminary Road Construction Estimate \$ 372,254
 Per LF of road \$ 168

Preliminary Storm Cost Est.

Item	Description	Units	Quantity	Unit Cost	Total for Item
1	Mobilization, Traffic Control & Flagging (5%)	LS	1	\$ 15,100	\$ 15,100
2	Connect to New Storm Pipe to Existing Storm Pipe	EA	2	\$ 1,600	\$ 3,200
3	Construct new 8"&12" HDPE Storm Main	LF	450	\$ 40	\$ 18,000
4	Construct new 18" HDPE Storm Main	LF	2200	\$ 64	\$ 140,800
5	Construct New 48" Storm Manhole	EA	14	\$ 3,700	\$ 51,800
6	Construct New Nyloplast Catchbasin	EA	10	\$ 1,400	\$ 14,000
7	Construct New 18" Concrete Valley Gutter	LF	2370	\$ 31	\$ 73,470

Subtotal: \$ 316,370
 15% Construction Contingency \$ 48,000
Preliminary Storm Construction Estimate \$ 364,370
 Per LF of road \$ 164
 20.00% Engr & Survey \$ 162,085
Project Construction Estimate without Contingency \$ 996,308
Project Contingency \$ 126,200
Project Construction Estimate with Contingency \$ 1,122,508