

**City of Hayward Sewer Improvement Project****Engineer's Opinion of Probable Construction Cost - 90% Design Level**

HydroScience Engineers

March 2022

**All Projects**

<b>BID ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>UNIT RATE</b>	<b>SUBTOTAL</b>
1	Mobilization/Demobilization (5% of Construction)	1	LS	\$ 650,000	\$ 650,000
2	Traffic Control	1	LS	\$185,320.00	\$ 185,320
3	Sheeting, Shoring, and Bracing	1	LS	\$ 80,055.00	\$ 80,055
4	Water Pollution Control	1	LS	\$ 44,475.00	\$ 44,475
5	Sewer Bypassing and Flow Control	1	LS	\$102,292.50	\$ 102,293
6	Standard 48-inch Manhole	68	EA	\$12,000.00	\$ 816,000
7	Standard 60-inch Manhole	8	EA	\$22,000.00	\$ 176,000
8	Shallow Manhole	10	EA	\$10,000.00	\$ 100,000
9	Manhole Outside Drop	1	EA	\$ 4,000.00	\$ 4,000
10	8-inch Sanitary Sewer (Open Cut)	5,532	LF	\$ 360.00	\$ 1,991,520
11	8-inch Sanitary Sewer (Fault Zone - Site S25)	415	LF	\$ 540.00	\$ 224,100
12	8-inch Sanitary Sewer (Pipe Bursting)	417	LF	\$ 240.00	\$ 100,080
13	10-inch Sanitary Sewer (Open Cut)	5,731	LF	\$ 450.00	\$ 2,578,950
14	12-inch Sanitary Sewer (Open Cut)	4,522	LF	\$ 540.00	\$ 2,441,880
15	12-inch Sanitary Sewer (Pipe Bursting)	1,919	LF	\$ 360.00	\$ 690,840
16	15-inch Sanitary Sewer (Open Cut)	1,590	LF	\$ 675.00	\$ 1,073,250
17	15-inch or 16-inch Sanitary Sewer (Pipe Bursting)	807	LF	\$ 450.00	\$ 363,150
18	Trenchless 24-inch Steel Casing and Sewer (Site S15)	1	LS	\$325,000.00	\$ 325,000
19	Storm Channel Improvements (Site S15)	1	LS	\$100,000.00	\$ 100,000
20	Replace Sewer by Pipe Reaming (Site S15)	688	LF	\$ 360.00	\$ 247,680
21	Trench Dam Modification (Site S29)	3	EA	\$ 5,000.00	\$ 15,000
22	Sewer Spot Repair (10-foot length)	14	EA	\$ 7,500.00	\$ 105,000
23	CIPP Lining of 8-inch Sanitary Sewer	567	LF	\$ 160.00	\$ 90,720
24	Concrete Encasement	1,229	LF	\$ 60.00	\$ 73,740
25	New Sewer Lateral Connection (w/5 feet new lateral)	443	EA	\$ 1,200.00	\$ 531,600
26	Additional Sewer Lateral	515	LF	\$ 150.00	\$ 77,250
27	Lateral Cleanout	13	EA	\$ 1,000.00	\$ 13,000
28	Abandon Existing Sanitary Sewer (4" or 6")	915	LF	\$ 30.00	\$ 27,450
29	Abandon Existing Sanitary Sewer (8")	2,131	LF	\$ 40.00	\$ 85,240
30	Abandon Existing Sanitary Sewer (10")	309	LF	\$ 50.00	\$ 15,450
31	Rehabilitate Existing Manhole	28	EA	\$ 8,000	\$ 224,000
32	Manhole Lining	10	EA	\$ 4,500	\$ 45,000

33	Reconstruct Retaining Wall and Access Road (S29)	1	LS	\$ 50,000	\$ 50,000
34	Replace 12" Storm Drain Crossing (S20)	1	LS	\$ 20,000	\$ 20,000
	Construction Subtotal				\$ 13,668,043
	Bid Contingency at 20%	20%			\$ 2,733,000
	<b>Overall Total</b>				<b>\$ 16,401,043</b>