

**SANTA YNEZ COMMUNITY SERVICES DISTRICT**  
**Santa Ynez West - Sewer System Expansion Project (as Single Phase)**  
**Engineer's Cost Estimate**

Date Prepared: March 7, 2023

BID ITEM NO.	DESCRIPTION	Bid Quantity	Unit of Measure	Engineer's Estimate	
				Unit Price	Total
1	Mobilization	1	LS	\$ 400,000	\$ 400,000
2	Stormwater Management (WPCP)	1	LS	\$ 50,000	\$ 50,000
3	Project Safety & Traffic Control	1	LS	\$ 90,000	\$ 90,000
4	Surveying & Construction Staking	1	LS	\$ 50,000	\$ 50,000
5	Public Notification	1	LS	\$ 15,000	\$ 15,000
6	Pothole Utilities	25	EA	\$ 1,100	\$ 27,500
7	Dewatering Mobilization	1	LS	\$ 8,000	\$ 8,000
8	Dewatering	8	WKS	\$ 3,300	\$ 26,400
9	Install 8" SDR35 PVC Sewer (Shallow)	14,472	LF	\$ 310	\$ 4,486,320
10	Install 8" SDR35 PVC Sewer (Deep)	1,608	LF	\$ 430	\$ 691,440
11	Install 10" SDR35 PVC Sewer (Deep)	2,920	LF	\$ 485	\$ 1,416,200
12	Install 4" SDR35 PVC Lateral	153	EA	\$ 6,100	\$ 933,300
13	Install 4" SDR35 PVC Wye Only	51	EA	\$ 1,600	\$ 81,600
14	Install Gravel Bedding in Pipe Zone	580	CY	\$ 200	\$ 116,000
15	Install Precast Concrete Manhole (4' Diameter)	60	EA	\$ 17,500	\$ 1,050,000
16	Construct 1.5-Sack Cement Slurry Trench Backfill	1,500	CY	\$ 170	\$ 255,000
17	Install Hinged Manhole Lid	60	EA	\$ 1,500	\$ 90,000
18	Construct Cross Gutter Concrete Repairs	320	SF	\$ 60	\$ 19,200
19	Construct 4" Thick Or 6" Thick AC Paving, as Indicated	1,795	Tons	\$ 350	\$ 628,250
20	Reset Santa Barbara County Survey Monument	5	EA	\$ 8,000	\$ 40,000
21	Install Traffic Striping & Pavement Legends	1	LS	\$ 30,000	\$ 30,000
22	Restore Private Improvements to Equal or Better	1	LS	\$ 100,000	\$ 100,000
23	Repair Landscaping & Irrigation Systems	1	LS	\$ 100,000	\$ 100,000
24	Install Pea Gravel at Private Driveways	200	CY	\$ 105	\$ 21,000
25	Perform Miscellaneous Work (T&M not to exceed)	-	T&M	\$ 50,000	\$ 50,000
<b>TOTAL</b>					<b>\$ 10,775,210</b>

Contingency: 20% \$ 2,155,042

Construction Total: \$ 12,931,000

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Design/Engineering:	5.5%	\$	712,000
Construction Management & Inspection:	6.5%	\$	841,000
<b>Grand Total (rounded):</b>		<b>\$</b>	<b>14,484,000</b>

Notes:

1. See separate "Santa Ynez West Sewer System Expansion Schematic Layout Drawing."
2. Based on the current level of "project" definition, this cost estimate is considered a Class 4 estimate with an accuracy range of -20% to +30%. See table below.
3. It is estimated that 10% of the total linear feet of 8" sewer line is "deep".
4. It is estimated that the Santa Ynez West - Sewer System Expansion will allow for approximately 204 new sewer connections. It is projected that 75% of the parcels will connect at time of construction (full laterals vs. wyes).
5. Sand bedding is assumed for all sewer line with exception of 10" sewer and deep 8" sewer where gravel bedding is used.
6. It is assumed all trenches will be backfilled with 1.5-sack cement slurry.
7. It is estimated that 50% of the streets will require 6" thick AC paving, and 50% will require 4" thick AC paving. (4' wide trench paving)
8. Highland Drive (North) includes 7 manholes and approximately 1,780 LF of 8" sewer line. This is equivalent to approximately 9% of the total project cost.
9. Tiana Drive includes 6 manholes and approximately 1,405 LF of 8" sewer line. This is equivalent to approximately 7% of the total project cost.

ESTIMATE CLASS	Primary Characteristic	Secondary Characteristic		
	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES <small>Expressed as % of complete definition</small>	END USAGE <small>Typical purpose of estimate</small>	METHODOLOGY <small>Typical estimating method</small>	EXPECTED ACCURACY RANGE <small>Typical variation in low and high ranges at an 80% confidence interval</small>
Class 5	0% to 2%	Functional area, or concept screening	SF or m <sup>2</sup> factoring, parametric models, judgment, or analogy	L: -20% to -30% H: +30% to +50%
Class 4	1% to 15%	or Schematic design or concept study	Parametric models, assembly driven models	L: -10% to -20% H: +20% to +30%
Class 3	10% to 40%	Design development, budget authorization, feasibility	Semi-detailed unit costs with assembly level line items	L: -5% to -15% H: +10% to +20%
Class 2	30% to 75%	Control or bid/tender, semi-detailed	Detailed unit cost with forced detailed take-off	L: -5% to -10% H: +5% to +15%
Class 1	65% to 100%	Check estimate or pre bid/tender, change order	Detailed unit cost with detailed take-off	L: -3% to -5% H: +3% to +10%

Table 1 – Cost Estimate Classification Matrix for Building and General Construction Industries