

**ENGINEER'S FINAL OPINION OF PROBABLE COST**

Eagle Crest Subdivision

Broken Bow, Nebraska

JEO Project No. 211489.00

Date Prepared:  
November 14, 2023



**ESTIMATE OF QUANTITIES**

Item #	Description	Unit	Quantity	Unit Price	Total
<b>GROUP A - INSTALL WATER MAIN</b>					
1.	Mobilization	LS	1	\$24,000.00	\$24,000
2.	Bonding and Insurance	LS	1	\$8,000.00	\$8,000
3.	6" PVC Water Main, DR 18	LF	1,682	\$55.00	\$92,510
4.	8" PVC Water Main, DR 18	LF	1,114	\$60.00	\$66,840
5.	6" x 6" x 6" Tee, MJ	EA	4	\$750.00	\$3,000
6.	6" x 8" x 6" Tee, MJ	EA	1	\$800.00	\$800
7.	8" x 6" x 8" Tee, MJ	EA	2	\$800.00	\$1,600
8.	6" Gate Valve and Box, MJ	EA	3	\$2,000.00	\$6,000
9.	8" Gate Valve and Box, MJ	EA	3	\$2,500.00	\$7,500
10.	8" 90° Bend, MJ	EA	1	\$550.00	\$550
11.	6" 45° Bend, MJ	EA	1	\$500.00	\$500
12.	6" 22.5° Bend, MJ	EA	2	\$500.00	\$1,000
13.	6" 11.25° Bend, MJ	EA	1	\$500.00	\$500
14.	8" Plug, MJ	EA	1	\$300.00	\$300
15.	1" PE Water Service (SDR 7)	LF	825	\$30.00	\$24,750
16.	6" x 1" Saddle	EA	26	\$400.00	\$10,400
17.	8" x 1" Saddle	EA	5	\$500.00	\$2,500
18.	1" Corporation Stop	EA	31	\$350.00	\$10,850
19.	1" Curb Stop and Box	EA	31	\$550.00	\$17,050
20.	6" Fire Hydrant Assembly	EA	3	\$7,500.00	\$22,500
21.	Connect to Existing Water Main	EA	2	\$2,000.00	\$4,000
22.	Sampling Station	EA	1	\$1,800.00	\$1,800
Construction Subtotal Group A					\$306,950
Contingency 10%					\$30,700
<b>Total Opinion of Construction Cost - Group A</b>					<b>\$337,650</b>
<b>GROUP B - INSTALL SANITARY SEWER</b>					
1.	Mobilization	LS	1	\$27,000.00	\$27,000
2.	Bonding and Insurance	LS	1	\$9,000.00	\$9,000
3.	8" PVC Sanitary Sewer Main, SDR 35	LF	2,277	\$90.00	\$204,930
4.	48" Dia. Concrete Manhole	VF	113	\$1,000.00	\$113,000
5.	4" PVC Sanitary Sewer Service, SDR 26	LF	1,072	\$50.00	\$53,600
6.	8" x 4" Wye, PVC	EA	31	\$275.00	\$8,525
7.	4" 45° Bend, Sewer	EA	31	\$500.00	\$15,500
8.	Connect to Existing Sanitary Sewer Main	EA	1	\$1,200.00	\$1,200
9.	Remove Tree	EA	3	\$1,200.00	\$3,600
Construction Subtotal Group B					\$436,360
Contingency 10%					\$43,640
<b>Total Opinion of Construction Cost - Group B</b>					<b>\$480,000</b>
<b>GROUP C - BUILD CONCRETE PAVING AND STORM SEWER</b>					
1.	Mobilization	LS	1	\$75,000.00	\$75,000
2.	Bonding and Insurance	LS	1	\$25,000.00	\$25,000
3.	Remove Tree	EA	23	\$900.00	\$20,700
4.	Remove CMP Storm Sewer Pipe	LF	30	\$20.00	\$600
5.	Remove Asphalt	SY	18	\$25.00	\$450
6.	Remove and Reset Sign	EA	1	\$200.00	\$200
7.	Remove Concrete Header	EA	1	\$300.00	\$300
8.	Excavation, Established Quantity	CY	30,540	\$10.00	\$305,400
9.	Subgrade Preparation	SY	6,960	\$7.00	\$48,720
10.	7" Concrete Pavement	SY	6,960	\$80.00	\$556,800
11.	18" RCP, Class III	LF	827	\$70.00	\$57,890
12.	18" RCP Flared End Section	EA	3	\$1,200.00	\$3,600
13.	Curb Inlet	EA	3	\$4,000.00	\$12,000
14.	Curb Inlet/with Manhole	EA	3	\$4,500.00	\$13,500

15.	Area Inlet	EA	1	\$4,500.00	\$4,500	
16.	Storm Sewer Junction Box (4'x4')	EA	3	\$5,000.00	\$15,000	
17.	Silt Fence, Low Porosity	LF	1,790	\$3.00	\$5,370	
18.	Seeding, Fertilizer and Mulch	ACRE	11	\$5,000.00	\$55,000	
19.	Stabilized Construction Entrance	TON	48	\$100.00	\$4,800	
20.	Erosion Control Mat	SY	500	\$5.00	\$2,500	
21.	Curb Inlet Sediment Filter	EA	6	\$250.00	\$1,500	
22.	Area Inlet Sediment Filter	EA	1	\$500.00	\$500	
				Construction Subtotal	Base Bid	\$1,209,330
				Contingency	10%	\$120,940
				<b>Total Opinion of Construction Cost</b>		<b>\$1,330,270</b>
				Construction Subtotal - All Groups		\$1,952,640
				Contingency		\$195,280
				<b>Total Opinion of Construction Cost - All Groups</b>		<b>\$2,147,920</b>
<b>PROFESSIONAL SERVICES</b>						
1.	Design Services (Current Agreement)					\$179,150
1.	Construction Engineering Services				10%	\$214,790
2.	Overhead (Legal, Fiscal, Etc.)				5%	\$107,400
				Subtotal Professional Services		\$501,340
				<b>Total Opinion of Project Cost</b>		<b>\$2,649,260</b>

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