

Date: September 22, 2015
 Project No.: 84062.12



**Engineer's Opinion of Probable Cost
 for
 Skyview Ridge Subdivision - Revised Phase II**

TO PROVIDE WATER, SANITARY SEWER, STORM DRAIN, AND STREET IMPROVEMENTS
Estimate based on preliminary plat layout only
Includes Lots 5-9, block 1, Lot 1, Block 3, Lot 1, Block 4, Lot 1, block 5,
Lot 1, Block 6, Lot 1, Block 9 and Lot 1, Block 12

Schedule I: Utilities

Item No.	Quantity	Unit	Description	Unit Price		Subtotal	
101	1	LS	Mobilization and Insurance	\$93,970.50	=	\$93,970.50	
102	3	EA	Connect to Ex. 8-inch Sanitary Sewer Stub	\$4,500.00	=	\$13,500.00	
103	23	EA	Basic Sanitary Manhole	\$3,500.00	=	\$80,500.00	
104	115	VF	Extra Depth Sanitary Sewer Manhole	\$95.00	=	\$10,925.00	
105	5434	LF	8-inch Sanitary Sewer Main	\$40.00	=	\$217,360.00	
106	55	EA	6-inch Sanitary Sewer Service	\$800.00	=	\$44,000.00	
107	1540	LF	6-inch Sanitary Sewer Service pipe	\$25.00	=	\$38,500.00	
108	9	EA	8-inch PVC Sanitary Sewer Cap	\$150.00	=	\$1,350.00	
109	3	EA	Connect to 8-inch Water Main Stub	\$2,500.00	=	\$7,500.00	
110	5290	LF	8-inch Water Main	\$40.00	=	\$211,600.00	
111	26	EA	8-inch Gate Valve	\$1,500.00	=	\$39,000.00	
112	1	EA	8-inch Cross	\$850.00	=	\$850.00	
113	7	EA	8-inch Tee	\$750.00	=	\$5,250.00	
114	12	EA	8X8X6-inch Tee	\$750.00	=	\$9,000.00	
115	11	EA	8-inch Bend	\$550.00	=	\$6,050.00	
116	12	EA	Fire Hydrant Assembly (inc. valve & piping)	\$4,500.00	=	\$54,000.00	
117	50	EA	1-inch Water Service on 8-inch Main	\$1,100.00	=	\$55,000.00	
118	5	EA	4-inch Water Service (inc. valve, piping)	\$1,800.00	=	\$9,000.00	
119	7	EA	2-inch Temporary Blowoff	\$2,000.00	=	\$14,000.00	
120	7	EA	8-inch Plug & Thrust	\$500.00	=	\$3,500.00	
121	3	EA	Connect to Ex. 21-inch Storm Drain Stub	\$3,000.00	=	\$9,000.00	
122	17	EA	Storm Drain Manhole	\$4,000.00	=	\$68,000.00	
123	85	VF	Extra Depth Manhole	\$95.00	=	\$8,075.00	
124	900	LF	24-inch Storm Drain Pipe	\$80.00	=	\$72,000.00	
125	1948	LF	21-inch Storm Drain Pipe	\$70.00	=	\$136,360.00	
126	1121	LF	18-inch Storm Drain Pipe	\$60.00	=	\$67,260.00	
127	250	LF	15-inch Storm Drain Pipe	\$60.00	=	\$15,000.00	
128	359	LF	12-inch Storm Drain Pipe	\$40.00	=	\$14,360.00	
129	14	EA	Curb Inlet	\$1,750.00	=	\$24,500.00	
130	1	EA	21-inch Storm Drain Cap	\$500.00	=	\$500.00	
131	1	EA	18-inch Storm Drain Cap	\$500.00	=	\$500.00	
132	5	EA	6-inch Storm Drain Service	\$600.00	=	\$3,000.00	
133	140	LF	6-inch Storm Drain Service pipe	\$25.00	=	\$3,500.00	
134	1	LS	Traffic Control During Construction	\$10,000.00	=	\$10,000.00	
					Schedule I Subtotal	=	\$1,346,910.50

Schedule II: Streets

Item No.	Quantity	Unit	Description	Unit Price	Subtotal
201	1	LS	Mobilization and Insurance	\$47,783.63	= \$47,783.63
202	1	LS	Storm Water Management and Erosion Control	\$7,500.00	= \$7,500.00
203	8331	CY	Unclassified Excavation - Streets	\$8.00	= \$66,648.00
204	6955	CY	1-1/2-inch Base Gravel (12-inch thick)	\$24.00	= \$166,920.00
205	10354	LF	Curb and Gutter	\$14.00	= \$144,956.00
206	540	SF	Accessibility Ramp	\$7.00	= \$3,780.00
207	20	EA	Truncated Dome Panels	\$150.00	= \$3,000.00
208	17647	SY	Asphalt Surface Course (3-inch Section)	\$13.00	= \$229,411.00
209	12	EA	Monument and box	\$500.00	= \$6,000.00
210	5	EA	Street Name Sign with Post	\$400.00	= \$2,000.00
211	1	LS	Yellow Epoxy Curb Paint	\$400.00	= \$400.00
212	3	EA	Relocate Road closed sign & Delineator	\$500.00	= \$1,500.00
213	1	LS	Traffic control during construction	\$5,000.00	= \$5,000.00
Schedule II Subtotal					= \$684,898.63

Construction Subtotal	=	\$2,031,809.13
Construction Subtotal Plus Contingency	=	\$2,336,580.49

Administrative Fees

Engineering Design	7.50%	=	\$175,243.54
Construction Admin & Inspection	8.00%	=	\$186,926.44
construction staking	2.00%	=	\$46,731.61
Materials testing	2.00%	=	\$46,731.61
City of Billings Private contract fee	3.50%	=	\$81,780.32
Subtotal of Administrative Fees			= \$537,413.51

Construction Total and Administrative Fees = \$2,873,994.01

Total Net Lot Square Footage = 1,395,662 SF
 Square foot cost (net lot area) = \$2.06

Notes:

quantity estimates based on Preliminary plat layout only - not on actual design

Mobilization and Insurance based on percentage of total schedule cost

Construction contingency

All items are complete and in place.

7.5 %
15 %

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