

ENGINEER'S OPINION OF PROBABLE COST (EOPC)



PROJECT: Water Line and Service Replacement - Marianna Way and Circle Dr. - City of Craig
SGM NO.:
DATE: 18-Jul-24
EOPC LEVEL: Concept Level
PREPARED BY: Chad Paulson, PE
CHECKED BY:
PURPOSE: Estimated cost for Water service replacement

CONSTRUCTION ITEMS	UNIT	QUANTITY	UNIT COST	TOTAL COST	% OF (a)
Tie-in to existing 8" main	EA	4	\$ 5,000	\$ 20,000	5.3%
8" valves	EA	8	\$ 2,200	\$ 17,600	4.7%
8" C900 PVC Water pipe	LF	850	\$ 150	\$ 127,500	33.7%
1-1/4" HDPE water service into building @ 70 lf ea	EA	13	\$ 4,849	\$ 63,037	16.7%
1" water meter	EA	13	\$ 2,750	\$ 35,750	9.5%
Fire Hydrants w/ guard	EA	2	\$ 12,540	\$ 25,080	6.6%
Asphalt, complete (4" depth for trench repairs only)	ton	170.0	\$ 400	\$ 68,000	18.0%
Curb and Gutter (at crossings and services)	LF	180.0	\$ 50	\$ 9,000	2.4%
Pothole Investigations	EA	6.00	\$ 2,000	\$ 12,000	3.2%
				\$ -	0.0%
SUBTOTAL OF CONSTRUCTION ITEMS:				\$ 377,970	(a)
OTHER CONSTRUCTION COSTS	UNIT	QUANTITY	UNIT COST	ESTIMATED COST	% OF (a)
Bonds/insurance	%	1.5%		\$ 5,700	1.5%
Management/Superintendent	%	10.0%		\$ 37,800	10.0%
Labor - Misc., General	%	15.0%		\$ 56,700	15.0%
Mobilization	%	12.0%		\$ 45,400	12.0%
Permits	%	1.0%		\$ 3,800	1.0%
Traffic Control	%	1.0%		\$ 3,800	1.0%
Construction Surveying	%	1.0%		\$ 3,800	1.0%
Overhead and Profit	%	8.0%		\$ 30,200	8.0%
Subsistence	%	0.0%		\$ -	0.0%
Geotechnical - material testing	%	1.5%		\$ 5,700	1.5%
Contingencies	%	0.0%		\$ -	0.0%
SUBTOTAL OF OTHER CONSTRUCTION COSTS:				\$ 192,900	(b)
EOPC (a) + (b) = (c)				\$ 570,900	(c)
OTHER PROJECT COSTS	UNIT	QUANTITY	UNIT COST	ESTIMATED COST	% OF (c)
Concept Development	%		%	\$ -	0.0%
Survey	%	1.0%	%	\$ 5,700	1.0%
SUE Engineering	%	1.0%	%	\$ 5,700	1.0%
Design Engineering	%	1.5%	%	\$ 8,600	1.5%
Construction Engineering	%	12.0%	%	\$ 68,500	12.0%
Geotechnical engineering / D&C	%	1.5%	%	\$ 8,600	1.5%
As-built and GIS Update	%	0.8%	%	\$ 4,600	0.8%
SUBTOTAL OF OTHER PROJECT COSTS:				\$ 101,700	(d)
EOPCC (c) + (d) =				\$ 672,600	(e)
EOPCC w/ contingency =				\$ 739,860	10%

NOTES:

- Unit prices and total costs are based on Present Value dollars. Adjustments should be made for years beyond the present year if actual construction occurs in a future year. Special consideration should be given to market conditions, which are extremely volatile at present.
- This EOPC was prepared on the basis of SGM's experience and qualifications and represents SGM's judgment as a professional generally familiar with the industry. However, since SGM has no control over the cost of labor, materials, equipment, or services furnished by others, over contractor's methods of determining prices, or over competitive bidding or market conditions, SGM cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from SGM's EOPC.
- Estimates are consistent with an AACE Class 4 construction cost estimate, which are typically accurate between a range of -20% to -10% and +20% to +30%.
- Assumes part-time field construction observation, plus more for connecton and meter in residence
- Assume 6 ft wide trench w/ 4" depth asphalt repair for trenches (main and services)
- Assume new 1-1/4 HDPE water service all the way into buildings, with new meter installed by licensed plumber