

**Engineer's Opinion of Preliminary Project Costs
City of Clark Fork 9th Street Well Refurbishment**

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Date: 11/20/2018

ITEM	DESCRIPTION	QTY	UNIT	EST. UNIT PRICE	EST. TOTAL COST
Well Casing Inspection					
1	Disinfection of well and equipment	1	LS	\$1,500.00	\$1,500.00
2	Camera Inspection	1	LS	\$2,000.00	\$2,000.00
				SUBTOTAL:	\$3,500.00
Pump					
4	Vertical Turbine Well Pump	1	LS	\$60,000.00	\$60,000.00
5	New Piping and Controls	1	LS	\$40,000.00	\$40,000.00
6	Treatment System	2	LS	\$25,000.00	\$50,000.00
				SUBTOTAL:	\$150,000.00
Construction Costs					
11	Mobilization	10.0%	LS		\$15,350.00
Well Pipeline Connection					
	8" C-900 PVC Water Line Incl. Trenching and Fittings	50	LF	\$55.00	\$ 2,750.00
	10" C-900 PVC Water Line Incl. Trenching and Fittings	1,045	LF	\$65.00	\$ 67,925.00
	8" Ductile Iron Gate Valve (Resilient Seat)	2	EA	\$1,500.00	\$ 3,000.00
	10" Ductile Iron Gate Valve (Resilient Seat)	3	EA	\$2,000.00	\$ 6,000.00
	Connection to Existing Water Line	2	EA	\$2,000.00	\$ 4,000.00
	Remove and Replace Unsuitable Soils (15% of trench line)	110	CY	\$30.00	\$ 3,285.00
	Demo Existing Roadway	2,933	SY	\$6.00	\$17,600.00
	3" Thick HMA Roadway (24' Width)	2,933	SY	\$9.00	\$26,400.00
	3" CSTC	244.44	CY	\$32.00	\$ 7,822.22
	Mobilization (10%)	1	LS	\$13,878.22	\$13,878.22
				SUBTOTAL:	\$ 152,660.44
				Cost Per Foot:	\$ 139.42
				Construction Estimate Subtotal:	\$321,510.44
				20% Construction Contingency	\$64,302.09
				10% Geotechnical & Engineering Design Fee	\$32,151.04
				Total	\$417,963.58
	Estimated Total Project Cost				\$417,963.58

THIS ESTIMATE EXCLUDES:

- Cost of Permits / Fees
- Tax
- Rock Excavation
- Hydrant Replacement
- Unsuitable Soils

Assumptions

- Gate valves were placed every 400 feet and rounded up
- Road width was assumed to be 24' everywhere
- Every replaced valve was assumed to be located at a connection to existing