

**Engineer's Opinion of Preliminary Project Costs
City of Clark Fork CIP - Storage Upgrades**

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Date: 11/20/2018

ITEM DESCRIPTION	QTY	UNIT	EST. UNIT PRICE	EST. TOTAL COST
Storage: Adjacent to existing Tank				
Cast In Place Concrete Tank	212,000	GAL	\$1.75	\$ 371,000.00
Mobilization (10%)	1	LS	\$42,100.00	\$ 42,100.00
Site Work	1	LS	\$ 50,000.00	\$ 50,000.00
			SUBTOTAL:	\$ 463,100.00
Tank Pipeline Connection				
8" C-900 PVC Water Line Incl. Trenching and Fittings	394	LF	\$55.00	\$ 21,670.00
10" C-900 PVC Water Line Incl. Trenching and Fittings	1,760	LF	\$65.00	\$ 114,400.00
8" Ductile Iron Gate Valve (Resilient Seat)	3	EA	\$1,500.00	\$ 4,500.00
10" Ductile Iron Gate Valve (Resilient Seat)	4	EA	\$2,000.00	\$ 8,000.00
Connection to Existing Water Line	2	EA	\$2,000.00	\$ 4,000.00
Remove and Replace Unsuitable Soils (15% of trench line)	215	CY	\$30.00	\$ 6,462.00
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	\$21,085.42	\$ 21,085.42
			SUBTOTAL:	\$ 231,939.64
			Cost Per Foot:	\$ 107.68
			Construction Estimate Subtotal:	\$ 695,039.64
			20% Construction Contingency	\$ 139,007.93
			10% Engineering Design Fee	\$ 69,503.96
			Total	\$ 903,551.54
Estimated Total Project Cost			\$	903,551.54

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