

**Engineer's Opinion of Preliminary Project Costs  
City of Clark Fork CIP Pipe Replacement**

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Date: 11/20/2018

ITEM	DESCRIPTION	QTY	UNIT	EST. UNIT PRICE	EST. TOTAL COST
<b>North Side Replacement</b>					
	6" C-900 PVC Water Line Incl. Trenching and Fittings	7,088	LF	\$45.00	\$318,960.00
	8" C-900 PVC Water Line Incl. Trenching and Fittings	4,193	LF	\$55.00	\$230,615.00
	10" C-900 PVC Water Line Incl. Trenching and Fittings	1,476	LF	\$65.00	\$95,940.00
	6" Ductile Iron Gate Valve (Resilient Seat)	18	EA	\$1,200.00	\$21,600.00
	8" Ductile Iron Gate Valve (Resilient Seat)	10	EA	\$1,500.00	\$15,000.00
	10" Ductile Iron Gate Valve (Resilient Seat)	4	EA	\$2,000.00	\$8,000.00
	Connection to Existing Water Line	32	EA	\$2,000.00	\$64,000.00
	Remove Existing Water Line	12,757	LF	\$3.00	\$38,271.00
	Remove and Replace Unsuitable Soils (15% of trench line)	1,276	CY	\$30.00	\$38,271.00
	Demo Existing Roadway	34,019	SY	\$6.00	\$204,112.00
	3" Thick HMA Roadway (24' Width)	34,019	SY	\$9.00	\$306,168.00
	3" CSTC	2,834.89	CY	\$32.00	\$90,716.44
	Mobilization (10%)	1	LS	\$143,165.34	\$143,165.34
	Construction Contingency (20%)				\$314,963.76
	Engineering Fee (10%)				\$157,481.88
	<b>Total This Option:</b>				<b>\$2,047,264.43</b>
	Cost Per Foot:				\$160.48

**South Side Replacement**

	6" C-900 PVC Water Line Incl. Trenching and Fittings	10,315	LF	\$45.00	\$464,175.00
	8" C-900 PVC Water Line Incl. Trenching and Fittings	1,403	LF	\$55.00	\$77,165.00
	6" Ductile Iron Gate Valve (Resilient Seat)	26	EA	\$1,200.00	\$31,200.00
	8" Ductile Iron Gate Valve (Resilient Seat)	4	EA	\$1,500.00	\$6,000.00
	Connection to Existing Water Line	30	EA	\$2,000.00	\$60,000.00
	Remove Existing Water Line	11,718	LF	\$3.00	\$35,154.00
	Remove and Replace Unsuitable Soils (15% of trench line)	1,172	CY	\$30.00	\$35,154.00
	Demo Existing Roadway	31,248	SY	\$6.00	\$187,488.00
	3" Thick HMA Roadway (24' Width)	31,248	SY	\$9.00	\$281,232.00
	3" CSTC	2,604.00	CY	\$32.00	\$83,328.00
	Mobilization (10%)	1	LS	\$126,089.60	\$126,089.60
	Construction Contingency (20%)				\$277,397.12
	Engineering Fee (10%)				\$138,698.56
	<b>Total This Option:</b>				<b>\$1,803,081.28</b>
	Cost Per Foot:				\$153.87

**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