

North Marshall Water Final Engineering Report

Dated: 7/13/2021

		Budget	Committed	Spent	Remaining	Remarks
Parkway Crossing						
Contractor - Lump Sum Contract	D'Port Drilling	\$81,210	\$81,210			Bid
		<u>\$81,210</u>	<u>\$81,210</u>	<u>\$0</u>	<u>\$81,210</u>	
Carter Brien Pumping Station - Well #2						
Contractor - Lump Sum Contract	N/A	\$0	\$0			Eliminated due to Budget Constraints
		<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	
Tatumsville Pumping Station - Well #7						
Contractor - Lump Sum Contract	YEC	\$296,061	\$296,061			Negotiated Bid, Subcontractor - Fondaw Well Drilling
		<u>\$296,061</u>	<u>\$296,061</u>	<u>\$0</u>	<u>\$296,061</u>	
Waterline Upgrades 2021						
Contractor - Contract	YEC	\$2,036,637	\$0			Negotiated Bid
	Highway 68/641 Bore KY 1422 Waterline Replacement Griggstown Rd. from US 68 to Sandy Adair Ln. Salyers Creek Rd. KY 795 Scale Bottom Rd.					
		<u>\$2,036,637</u>	<u>\$0</u>	<u>\$0</u>	<u>\$2,036,637</u>	
Electronic Meters						
	NMWD	\$500,000	\$500,000	\$342,000		Radio Read Meters
		<u>\$500,000</u>	<u>\$500,000</u>	<u>\$342,000</u>	<u>\$158,000</u>	
Engineering						
	PCE	\$230,000	\$230,000	\$165,000	\$65,000	Contract
Resident Inspector						
	NMWD	\$65,000	\$65,000		\$65,000	
Contingency						
		\$120,092	\$150,000		\$120,092	
Land & Rights						
	NMWD	\$10,000	\$10,000		\$10,000	
Administrative & Legal						
		\$25,000	\$25,000	\$2,284	\$22,716	
		<u>\$450,092</u>	<u>\$480,000</u>	<u>\$167,284</u>	<u>\$312,716</u>	
Interest						
		\$50,000	\$50,000	\$0	\$50,000	
Grand Totals		<u>\$3,414,000</u>	<u>\$1,407,271</u>	<u>\$509,284</u>	<u>\$2,934,624</u>	

The debt will be serviced by a proposed rate increase.

Prepared By: Paul Cloud, Paul Cloud Engineering

Reimbursibles - Administrative & Legal

Kip Mathis	\$240	Legal
Bid Listing	\$397	Paducah Blueprint
Advertisements	\$857	Paducah Sun
Advertisements	\$790	Tribune Courier

\$2,284

		Waterlines - Revision 4									
Item No.	Description	Est. Quantity	Units	Unit Price	Total Budget Price	Actual Quantity	Units	Unit Price	Total Actual Price	Balance	
1	Mobilization, Bonds, Insurance, and Demobilization	1	LS	\$94,000	\$94,000		LS	\$94,000	\$0	94,000	
2	Erosion and Sediment Control	1	LS	\$19,000	\$13,200		LS	\$19,000	\$0	13,200	
3	Traffic Control	1	LS	\$86,000	\$59,400		LS	\$86,000	\$0	59,400	
4	4" PVC Pipe, SDR 21 - 200 psi., including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	0	LF	\$0	\$0		LF	\$0	\$0	0	
5	6" PVC Pipe, SDR 21 - 200 psi., including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	40,570	LF	\$27	\$1,095,390		LF	\$27	\$0	1,095,390	
6	8" PVC Pipe, SDR 21 - 200 psi, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	20	LF	\$87	\$1,740		LF	\$87	\$0	1,740	
7	10" PVC Pipe, SDR 21 - 200 psi, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	300	LF	\$43	\$12,900		LF	\$43	\$0	12,900	
8	4" Certa-Lok Yelomine Restrained Joint PVC Pipe, SDR 21 - 200 psi, with Cetra Lok Coupling, O-Ring and Spine, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	0	LF	\$0	\$0		LF	\$0	\$0	0	
9	6" Certa-Lok Yelomine Restrained Joint PVC Pipe, SDR 21 - 200 psi, with Cetra Lok Coupling, O-Ring and Spine, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	1,060	LF	\$36	\$38,160		LF	\$36	\$0	38,160	
10	10" Certa-Lok Yelomine Restrained Joint PVC Pipe, SDR 21 - 200 psi, with Cetra Lok Coupling, O-Ring and Spine, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	240	LF	\$55	\$13,200		LF	\$55	\$0	13,200	
11	6" High density Polyethylene (HDPE) Pipe, DR 9 - 200 psi, including applicable joints, flanges, connectors, etc., installed by directional bore; in place, complete and ready for use	0	LF	\$0	\$0		LF	\$0	\$0	0	
12	6" High density Polyethylene (HDPE) Pipe, DR 9 - 200 psi, including applicable joints, flanges, connectors, etc., installed by directional bore under a creek; in place, complete and ready for use	480	LF	\$75	\$36,000		LF	\$75	\$0	36,000	
13	10" Ductile Iron Pipe, 350 psi, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	520	LF	\$91	\$47,320		LF	\$91	\$0	47,320	
14	6" x 6"x6" - MJ x MJ x MJ Flex T3 Restraint Tee; in place, complete and ready for use	3	EA	\$875	\$2,625		EA	\$875	\$0	2,625	
15	2" x 1" - MJ x MJ Reducer with Transition Gaskets; in place, complete and ready for use	0	EA	\$0	\$0		EA	\$0	\$0	0	
16	2" x 1.5" - MJ x MJ Reducer with Transition Gaskets; in place, complete and ready for use	0	EA	\$0	\$0		EA	\$0	\$0	0	
17	6" x 4" - MJ x MJ Reducer with Transition Gaskets; in place, complete and ready for use	3	EA	\$27	\$81		EA	\$27	\$0	81	
18	10" x 8" - MJ x MJ Reducer with Transition Gaskets; in place, complete and ready for use	0	EA	\$0	\$0		EA	\$0	\$0	0	
19	6"x6"x2" - Tee; in place, complete and ready for use	1	EA	\$910	\$910		EA	\$910	\$0	910	
20	6"x6"x3" - Tee; in place, complete and ready for use	0	EA	\$520	\$0		EA	\$520	\$0	0	
21	6"x6"x4" - Tee; in place, complete and ready for use	12	EA	\$620	\$7,440		EA	\$620	\$0	7,440	
22	6"x6"x6" - Tee; in place, complete and ready for use	1	EA	\$635	\$635		EA	\$635	\$0	635	
23	12" x 12" x 10" SS tapping tee, valve and box; in place, complete, and ready for use	1	EA	\$6,220	\$6,220		EA	\$6,220	\$0	6,220	
24	12" x 12" x 6" SS tapping tee, valve and box; in place, complete, and ready for use	0	EA	\$0	\$0		EA	\$0	\$0	0	
25	10" x 10" x 8" SS tapping tee, valve and box; in place, complete, and ready for use	0	EA	\$0	\$0		EA	\$0	\$0	0	
26	8" x 8" x 8" SS tapping tee, valve and box; in place, complete, and ready for use	1	EA	\$3,910	\$3,910		EA	\$3,910	\$0	3,910	
27	8" x 8" x 6" SS tapping tee, valve and box; in place, complete, and ready for use	1	EA	\$3,115	\$3,115		EA	\$3,115	\$0	3,115	
28	6" x 6" x 6" SS tapping tee, valve and box; in place, complete, and ready for use	3	EA	\$2,925	\$8,775		EA	\$2,925	\$0	8,775	
29	4" x 4" x 4" SS tapping tee, valve and box; in place, complete, and ready for use	3	EA	\$2,230	\$6,690		EA	\$2,230	\$0	6,690	
30	4" Cap, Mechanical Joint Ductile Iron with Transition Gaskets, Thrust Block; in place, complete, ready for use	9	EA	\$280	\$2,520		EA	\$280	\$0	2,520	
31	2" Gate Valve and box, including applicable fittings, in place, complete, and ready to use .	0	EA	\$860	\$0		EA	\$860	\$0	0	
32	3" Gate Valve and box, including applicable fittings, in place, complete, and ready to use .	3	EA	\$1,120	\$3,360		EA	\$1,120	\$0	3,360	
33	4" Gate Valve and box, including applicable fittings, in place, complete, and ready to use .	8	EA	\$1,260	\$10,080		EA	\$1,260	\$0	10,080	
34	6" Gate Valve and box, including applicable fittings, in place, complete, and ready to use	93	EA	\$1,552	\$144,336		EA	\$1,552	\$0	144,336	
35	8" Gate Valve and box, including applicable fittings, in place, complete, and ready to use	1	EA	\$1,875	\$1,875		EA	\$1,875	\$0	1,875	
36	10" Gate Valve and box, including applicable fittings, in place, complete, and ready to use	2	EA	\$2,700	\$5,400		EA	\$2,700	\$0	5,400	
37	Fire hydrants, new with 6" Gate Valve and applicable fittings, in place, complete, and ready for use	18	EA	\$5,050	\$90,900		EA	\$5,050	\$0	90,900	

38	Fire hydrants, existing relocated with new 6" Gate Valve and applicable fittings, in place, complete, and ready for use	2	EA	\$2,630	\$5,260		EA	\$2,630	\$0	5,260
39	Flush hydrant, existing relocated with new Gate Valve and applicable fittings, in place, complete, and ready for use	1	EA	\$4,500	\$4,500		EA	\$4,500	\$0	4,500
40	Fire hydrant, existing hydrant to be removed	3	EA	\$400	\$1,200		EA	\$400	\$0	1,200
41	Flush hydrant, existing hydrant to be removed	0	EA	\$0	\$0		EA	\$0	\$0	0
42	Automatic Air Release Valve Assembly. This includes a 1" corporation stop and saddle clamp, 1" brass trim gate valve with handle extension, and an APCO Air Release Valve Model No. 75-1". The assembly will be installed in a 24" diameter concrete valve box with lid. Include applicable fittings; in place, complete and ready to use.	1	EA	\$3,812	\$3,812		EA	\$3,812	\$0	3,812
43	#12 AWG Copper Insulated Tracer Wire, THHN, with applicable connectors; in place, complete, and ready for use	43,610	LF	\$0.25	\$10,903		LF	\$0.25	\$0	10,903
44	Steel cased Highway bore, 16" CS Casing with End Seals and Spacers / Isolators (excluding 10" carrier); in place, complete and ready for use	270	LF	\$150	\$40,500		LF	\$150	\$0	40,500
45	Steel cased Highway bore, 12" CS Casing with End Seals and Spacers / Isolators (excluding 6" carrier); in place, complete and ready for use	240	LF	\$161	\$38,640		LF	\$161	\$0	38,640
46	Steel cased Highway bore, 10" CS Casing with End Seals and Spacers / Isolators (excluding 6" carrier); in place, complete and ready for use	650	LF	\$142	\$92,300		LF	\$142	\$0	92,300
47	Uncased driveway bore, all line sizes, in place, complete, ready for use	870	LF	\$100	\$87,000		LF	\$100	\$0	87,000
48	Final Cleanup of affected route (Exclude Bores and paved areas)	1	LF	\$100	\$100		LF	\$100	\$0	100
49	Construction Staking, Layout, and Record Survey and Drawings	1	LS	\$26,000	\$26,000		LS	\$26,000	\$0	26,000
50	Inline Control Valve, 8" Actuated Butterfly Valve, with applicable fittings, Concrete Vault with Access, Sump Pump, Discharge line, electrical connection, electrical conduit, wire and terminations; in place, complete and ready to use	0	EA	\$0	\$0		EA	\$0	\$0	0
51	Reconnect existing near side meter with new service line to new main including applicable fittings; in place, complete and ready for use	80	EA	\$0	\$0		EA	\$0	\$0	0
52	Reconnect existing far side meter with new service line from new main to meter bored under roadway (not encased) including applicable fittings; in place, complete and ready for use	105	EA	\$0	\$0		EA	\$0	\$0	0
53	6" Ductile Iron Pipe, 350 psi, including applicable joints, flanges, connectors, etc., including testing and clean up; in place, complete and ready for use	140	LF	\$116	\$16,240	0	LF	\$116	\$0	16,240
Totals		Totals		\$2,036,637					\$0	2,036,637