

2023 HEARTLAND HILLS AREA WEST LOOP WATER MAIN LOOP
WATERLOO WATER WORKS, WATERLOO, IOWA
ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST
BIDS DUE 10:00 AM, 05/10/2023
ENGINEER'S ESTIMATE DATE: 5/8/2023

			ENGINEER		
DESCRIPTION	Units	Quantity	Est Unit Cost	Est Total Cost	
001.	MOBILIZATION	L.S.	1	\$ 25,000.00	\$ 25,000.00
002.	SEED, FERTILIZE AND MULCH (IDOT URBAN MIX) BY HYDROSEEDING	AC	0.8	\$ 5,000.00	\$ 4,000.00
003.	9" DIA., STRAW FILLED WATTLES	L.F.	400	\$ 5.00	\$ 2,000.00
004.	TRAFFIC CONTROL	L.S.	1	\$ 5,000.00	\$ 5,000.00
005.	MAINTENANCE BOND, 2-YEAR	L.S.	1	\$ 5,000.00	\$ 5,000.00
006.	CLEARING AND GRUBBING	L.S.	1	\$ 5,000.00	\$ 5,000.00
007.	TOPSOIL, FURNISH, HAUL AND PLACE	S.Y.	1500	\$ 5.00	\$ 7,500.00
401.	WATER MAIN, C900/RJ RESTRAINED JOINT DR18 PVC, 8-INCH DIA.	L.F.	1432	\$ 50.00	\$ 71,600.00
402.	WATER MAIN CASING, C900/RJ RESTRAINED JOINT DR18 PVC, 12-INCH DIA.	L.F.	680	\$ 80.00	\$ 54,400.00
403.	WATER MAIN CASING END CLOSURES, BY LINK-SEAL	EA.	6	\$ 200.00	\$ 1,200.00
404.	WATER MAIN, SAGER AVE. HDD, C900/RJ RESTRAINED JOINT DR18 PVC, 8-INCH DIA..	L.S.	1	\$150,000.00	\$ 150,000.00
405.	CONNECTION OF NEW 8" DIA. WATER MAIN TO EXISTING 6" DIA. WATER MAIN	EA.	1	\$ 1,000.00	\$ 1,000.00
406.	CONNECTION OF NEW 8" DIA. WATER MAIN TO EXISTING 8" DIA. WATER MAIN	EA.	1	\$ 1,000.00	\$ 1,000.00
407.	TEE, 8" DIA. X 6" DIA., D.I.P. COMPLETE WITH THRUST RESTRAINT	EA.	5	\$ 600.00	\$ 3,000.00
408.	TEE, 8" DIA. X 8" DIA., D.I.P. COMPLETE WITH THRUST RESTRAINT	EA.	3	\$ 600.00	\$ 1,800.00
409.	BEND, 90°, 8" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	2	\$ 600.00	\$ 1,200.00
410.	BEND, 45°, 8" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	5	\$ 600.00	\$ 3,000.00
411.	BEND, 22.5°, 8" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	2	\$ 600.00	\$ 1,200.00
412.	ENDCAP, 8" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	1	\$ 600.00	\$ 600.00
413.	ENDCAP, 6" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	4	\$ 600.00	\$ 2,400.00
414.	REDUCER, 8" X 6" DIA., DUCTILE IRON, COMPLETE WITH THRUST RESTRAINT	EA.	1	\$ 600.00	\$ 600.00
415.	NEW FIRE HYDRANT ASSEMBLY, M.J., 6.5' BURY, COMPLETE	EA.	2	\$ 10,000.00	\$ 20,000.00
416.	TEMPORARY FIRE HYDRANT ASSEMBLY, M.J., COMPLETE	EA.	2	\$ 5,000.00	\$ 10,000.00
417.	REMOVE EXISTING FIRE HYDRANT ASSEMBLY, COMPLETE	EA.	3	\$ 2,000.00	\$ 6,000.00
418.	WITH VALVE BOX AND MECHANICAL THRUST RESTRAINT	EA.	1	\$ 8,000.00	\$ 8,000.00
419.	GATE VALVE, 8" DIA., M.J., WITH VALVE BOX AND MECHANICAL THRUST RESTRAINT	EA.	13	\$ 1,000.00	\$ 13,000.00
420.	GATE VALVE, 6" DIA., M.J., WITH VALVE BOX AND MECHANICAL THRUST RESTRAINT	EA.	4	\$ 1,000.00	\$ 4,000.00
421.	WATER SERVICE CONNECTION TO NEW MAIN 1" DIA., COMPLETE	EA.	8	\$ 1,500.00	\$ 12,000.00
422.	WATER SERVICE CONNECTION TO EXISTING 3/4" DIA. WATER SERVICE LINE, COMPLETE	EA.	7	\$ 1,000.00	\$ 7,000.00
423.	WATER SERVICE, 3/4" DIA. BY OPEN-CUT EXCAVATION	L.F.	224	\$ 50.00	\$ 11,200.00
424.	WATER SERVICE, 1" DIA., BY DIRECTIONAL DRILLING	L.F.	477	\$ 35.00	\$ 16,695.00
425.	FILL EXISTING 8" DIA. WATER MAIN WITH CELLULAR CONCRETE	L.F.	927	\$ 8.00	\$ 7,416.00
426.	FILL EXISTING 6" DIA. WATER MAIN WITH CELLULAR CONCRETE	L.F.	1095	\$ 8.00	\$ 8,760.00

				ENGINEER	
501	REMOVE AND REPLACE EXISTING COMPOSITE STREET PAVEMENT	S.Y.	70	\$ 100.00	\$ 7,000.00
502	REMOVE AND REPLACE EXISTING PORTLAND CEMENT CONCRETE STREET PAVEMENT	S.Y.	140	\$ 100.00	\$ 14,000.00
503	REMOVE AND REPLACE EXISTING PORTLAND CEMENT CONCRETE SIDEWALK	S.Y.	40	\$ 75.00	\$ 3,000.00
504	REMOVE/REPLACE EXISTING PORTLAND CEMENT CONCRETE DRIVEWAYS	S.Y.	22	\$ 75.00	\$ 1,650.00
505	CLASS A ROADSTONE FOR DRIVEWAY	TON	10	\$ 50.00	\$ 500.00
601	REMOVE AND SALVAGE EXISTING VINYL FENCING	L.F.	110	\$ 40.00	\$ 4,400.00
602	REMOVE AND SALVAGE EXISTING WOOD FENCING	L.F.	10	\$ 40.00	\$ 400.00
603	SWPPP COMPLIANCE	L.S.	1	\$ 5,000.00	\$ 5,000.00
	SUBTOTAL				\$ 506,521.00
	CONTINGENCY				\$ 50,652.10