

CITY OF RICHWOOD, TEXAS
2024 CEDAR COURT WATER MAIN REPLACEMENT
ENGINEER'S OPINION OF PROBABLE PROJECT COST
May 10, 2024

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY		UNIT COST	TOTAL COST
CONSTRUCTION					
1.	Mobilization.	1	LS	\$ 5,000.00	\$ 5,000.00
2.	Furnish and install 8-inch American Water Works Association (AWWA) C-900 dimension ratio (DR) 18 polyvinyl chloride (PVC) water main, by open cut.	1,430	LF	\$ 60.00	\$ 85,800.00
3.	Furnish and install 8-inch AWWA C-900 DR 18 PVC water main, by bore.	390	LF	\$ 75.00	\$ 29,250.00
4.	Furnish and install a standard fire hydrant unit.	1	EA	\$ 6,000.00	\$ 6,000.00
5.	Furnish and connect new 8-inch water line to the existing 8-inch line (wet connection).	2	EA	\$ 2,500.00	\$ 5,000.00
6.	Replace Service Lines—Short side (1-inch polyethylene tubing with U-branch and two curb stops).	16	EA	\$ 1,000.00	\$ 16,000.00
7.	Replace Service Lines—Long side (1-inch polyethylene tubing with U-branch, two curb stops, and bore).	10	EA	\$ 1,250.00	\$ 12,500.00
8.	Abandon water mains (including valve box obliteration).	1	EA	\$ 2,000.00	\$ 2,000.00
9.	Trench safety.	1	LS	\$ 2,000.00	\$ 2,000.00
10.	Asphalt repair.	10	LF	\$ 200.00	\$ 2,000.00
11.	Site restoration, seeding, and cleanup.	1	LS	\$ 6,000.00	\$ 6,000.00
12.	Erosion control.	1	LS	\$ 2,000.00	\$ 2,000.00
13.	Traffic control according to the Texas Manual on Uniform Traffic Control Devices.	1	LS	\$ 2,000.00	\$ 2,000.00
Subtotal Construction Cost (Rounded):					\$ 176,000.00
15% Contingency (Rounded):					\$ 27,000.00
TOTAL CONSTRUCTION COST:					\$ 203,000.00
ENGINEERING					
1.	Basic Services—Design, bidding, and construction-related services.				\$ 36,000.00
2.	Topographic survey (construction staking by contractor).				\$ 4,000.00
3.	Part-time construction observation (1 day every 2 weeks for 2 months).				\$ 5,000.00
4.	Geotechnical and construction materials testing services.				\$ -
TOTAL ENGINEER'S OPINION OF PROBABLE PROJECT COST:					\$ 248,000.00

CDBG Available Funding
\$ 162,800

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