

I. Project Segment Description

- A. Location: This project segment is located on Elaine Drive from Warrington Drive to Sheraton Drive.

Location Information	
Description	Data
Water ID	298
MAPSCO	480
DWU W/S Map	39-27
Council District	4

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	FB104, p. 32	Q1270 Sh. 34
Length (ft)	690	450
Diameter (in)	4"	8"
Year Built	Unknown	1961
Material	C.I.	VCT

II. Field Observations

- A. Easements and Right-of-Way

The water main being replaced is within the dedicated street R.O.W. No additional easements are required.

- B. Surface/Pavement

Elaine Drive is an asphalt street with concrete curb and gutter. The pavement is in good condition within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping in the parkway, but these should not be adversely affected because the line to be replaced is under the existing street.

- D. Adjacent Structures

There is an existing sanitary sewer located within the street R.O.W.

III. Recommendation

A. Water Main Improvement

It is recommended that the existing 4" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

There should be adequate space on Elaine Drive to provide the necessary separation between the existing wastewater main and the proposed water main. Therefore, no associated wastewater main replacement is included in this project.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Elaine Drive is a residential street which is easily accessible with dedicated R.O.W. and flexible pavement, and (2) The water main has numerous service connections that will require open cut to make the connection to the proposed main. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards.

D. Traffic Control

Elaine Drive is a two-way, two-lane residential street with residential driveway access and parallel parking on both sides of the roadway. Traffic will have to be limited to one lane only during construction. Both Warrington and Sheraton Drives are two-way, two-lane residential streets that will need one lane closed during construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
690	LF	8" PVC Class 200 Water Pipe	60.00	41,400.00
2	EA	8" Gate Valve	800.00	1,600.00
1	EA	6" Gate Valve	600.00	600.00
12	EA	Water Service Connection	600.00	7,200.00
690	LF	Trench Safety System	1.50	1,035.00
52	CY	Reinforced Concrete Pavement	165.00	8,580.00
35	TN	Asphalt Pavement	80.00	2,800.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
17	CY	Temp Paving Flex Base	30.00	510.00
35	TN	Temp Asphalt Paving	55.00	1,925.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.2	TN	Cast Iron Fittings	1,500.00	300.00
		TOTAL		68,950.00