

**I. Project Segment Description**

- A. Location: This project segment is located on Fitchburg Street from Keneshaw Drive to Chalk Hill Road.

Location Information	
Description	Data
Water ID	339
MAPSCO	42U
DWU W/S Map	39-14, 39-15, 39-16
Council District	1

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	F.B. 135 p. 29, 36	411Q 1702 Sh. 19, 54A
Length (ft)	1,000	120
Diameter (in)	8"	6"
Year Built	Unknown	1968
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

Fitchburg Street is an asphalt street with no curb and gutter. The pavement is in fair 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 are existing overhead electrical lines and street lighting located within the street R.O.W.

**III. Recommendation**

A. Water Main Improvement

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

B. Wastewater Improvement

It is recommended that the 120 feet of 6" wastewater line be removed and replaced with 8" PVC SDR 35 wastewater pipe.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement because Fitchburg Street is a residential street which is easily accessible with dedicated R.O.W. and flexible pavement. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards.

D. Traffic Control

Fitchburg Street is a two-way, two-lane residential street with some driveway entrances near Chalk Hill Road. Traffic will have to be limited to one lane only during construction. The cross streets, Keneshaw Drive, Iroquois Street, and Ingersoll Street, are two-way, two-lane residential streets that will be closed to through traffic during the water line construction. Chalk Hill Road is a busy two-way two-lane road that will require a short section of the southbound lane to be shut down during the construction period.

**IV. Opinion of Probable Cost**

<b>Opinion of Probable Cost</b>				
<b>Qty</b>	<b>Unit</b>	<b>Description</b>	<b>Unit Cost \$</b>	<b>Total \$</b>
1,000	LF	8" PVC Class 200 Water Pipe	60.00	60,000.00
4	EA	8" Gate Valve	800.00	3,200.00
6	EA	Water Service Connection	600.00	3,600.00
1,120	LF	Trench Safety System	1.50	1,680.00
84	CY	Reinforced Concrete Pavement	165.00	13,860.00
56	TN	Asphalt Pavement	80.00	4,480.00
28	CY	Temp Paving Flex Base	30.00	840.00
56	TN	Temp Asphalt Paving	55.00	3,080.00
0.5	TN	Cast Iron Fittings	1,500.00	750.00
120	LF	8" PVC SDR 35 Wastewater Pipe	65.00	7,800.00
1	EA	Wastewater Manhole	2,500.00	2,500.00
1	EA	Wastewater Service Connection	650.00	650.00
1	EA	Wastewater Access Device	1,500.00	1,500.00
		<b>TOTAL</b>		<b>103,940.00</b>