

**I. Project Segment Description**

- A. Location: This project segment is located on Crestover Drive from south of Killion Drive.

Location Information	
Description	Data
Water ID	228
MAPSCO	24J
DWU W/s Map	20-20
Council District	13

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	685W333	Q1326 Sh. 40
Length (ft)	250	300
Diameter (in)	4"	10"
Year Built	Unknown	1950
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

Crestover 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 front yards, 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 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**

Although there is adequate space on Crestover Drive to provide the necessary separation between the existing 10" wastewater main and the proposed water main, TV inspection is recommended to perform a condition check due to the age of the pipe (51 years old).

**C. Construction/Surface Improvement**

Open cut method is recommended for the water line replacement due to the following factors: (1) Crestover Drive is a residential street which is easily accessible with dedicated R.O.W. and flexible pavement; (2) The water main has numerous service connections that will require open cut to make the connection to the proposed main; and (3) The existing water main is located too close to the existing wastewater main. It needs to be relocated to provide a minimum of 9 feet horizontal separation. The existing pavement should be saw cut and replaced with the same type of pavement removed, per City of Dallas standards for the width of trench only.

**D. Traffic Control**

Crestover Drive is a two-way, two-lane residential street with parallel parking on both sides of the roadway. Traffic will have to be limited to one lane only during construction. It is a short cul-de-sac street with very light traffic within the project limits.

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>
250	LF	8" PVC Class 200 Water Pipe	60.00	15,000.00
2	EA	8" Gate Valve	800.00	1,600.00
1	EA	6" Gate Valve	600.00	600.00
7	EA	Water Service Connection	600.00	4,200.00
250	LF	Trench Safety System	1.50	375.00
19	CY	Reinforced Concrete Pavement	165.00	3,135.00
13	TN	Asphalt Pavement	80.00	1,040.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
7	CY	Temp Paving Flex Base	30.00	210.00
13	TN	Temp Asphalt Paving	55.00	715.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.2	TN	Cast Iron Fittings	1,500.00	300.00
		<b>TOTAL</b>		<b>30,175.00</b>