

I. Project Segment Description

- A. Location: This project segment is located on Deer Trail Place from Deer Trail to the south end of Deer Trail Place.

Location Information	
Description	Data
Water ID	247
MAPSCO	27X
DWU W/S Map	23-32
Council District	10

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	F.B. 384 p. 20 and 775 pp. 44-47	Q1762 Sh. 5
Length (ft)	250	150
Diameter (in)	4"	6"
Year Built	Unknown	1955
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

Deer Trail Place 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

It is recommended that the existing 6" wastewater main be replaced with 8" PVC pipe due to its age and size.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Deer Trail Place 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

Deer Trail Place is a two-way, two-lane residential circle with parallel parking on both sides of the roadway and no driveway access. Traffic will have to be limited to one lane only during construction. Deer Trail is a two-way, two-lane residential street with light traffic. A short section of the right lane on the north bound of Deer Trail will need to be closed to facilitate the water line construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
250	LF	8" PVC Class 200 Water Pipe	60.00	15,000.00
1	EA	8" Gate Valve	800.00	800.00
8	EA	Water Service Connection	600.00	4,800.00
400	LF	Trench Safety System	1.50	600.00
19	CY	Reinforced Concrete Pavement	165.00	3,135.00
13	TN	Asphalt Pavement	80.00	1,040.00
7	CY	Temp Paving Flex Base	30.00	210.00
13	TN	Temp Asphalt Paving	55.00	715.00
0.2	TN	Cast Iron Fittings	1,500.00	300.00
150	LF	8" PVC SDR35 Wastewater Pipe	65.00	9,750.00
8	EA	Wastewater Service Connection	650.00	5,200.00
1	EA	Wastewater Manhole	2,500.00	2,500.00
2	EA	Wastewater Access Device	1,500.00	3,000.00
		TOTAL		47,050.00