

**I. Project Segment Description**

- A. Location: This project segment is located on Ponder Place from Ponder Drive to the Cul-de-Sac.

Location Information	
Description	Data
Water ID	706
MAPSCO	23K
DWU W/S Map	19-17, 20-17
Council District	6

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	N/A	Q1749 Sh. 161
Length (ft)	280	200
Diameter (in)	4"	6"
Year Built	Unknown	1961
Material	C.I.	VCT

**II. Field Observations**

- A. Easements and Right-of-Way

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

- B. Surface/Pavement

Ponder Place is an asphalt street with concrete 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 storm sewers 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 that is within the water main limits be replaced with 8" PVC wastewater pipe.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Ponder Place 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 proposed water main might have to be relocated to provide a 9-foot separation from the wastewater main. The existing pavement should be sawcut and replaced with the same type of pavement removed, per City of Dallas standards for the width of trench only.

D. Traffic Control

Ponder Place 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. Since it is a cul-de-sac street, traffic disruption is very minimum.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
280	LF	8" PVC Class 200 Water Pipe	60.00	16,800.00
1	EA	8" Gate Valve	800.00	800.00
1	EA	6" Gate Valve	600.00	600.00
8	EA	Water Service Connection	600.00	4,800.00
480	LF	Trench Safety System	1.50	720.00
36	CY	Reinforced Concrete Pavement	165.00	5,940.00
24	TN	Asphalt Pavement	80.00	1,920.00
20	LF	6" PVC C900 Water Line	50.00	1,000.00
12	CY	Temp Paving Flex Base	30.00	360.00
24	TN	Temp Asphalt Paving	55.00	1,320.00
1	EA	Fire Hydrant	2,000.00	2,000.00
0.2	TN	Cast Iron Fittings	1,500.00	300.00
200	LF	8" PVC SDR 35 Wastewater Pipe	65.00	13,000.00
1	EA	4.0' Diameter Manhole	2,500.00	2,500.00
6	EA	Wastewater Service Connection	650.00	3,900.00
1	EA	Wastewater Access Device	1,500.00	1,500.00
		<b>TOTAL</b>		<b>57,460.00</b>