

I. Project Segment Description

- A. Location: This project segment is located on Orlando Court from Mt. Pleasant Street to Meredith Street and Barksdale Court from Meredith Street to the end of Barksdale Court.

Location Information	
Description	Data
Water ID	52
MAPSCO	53E
DWU W/S Map	45-16
Council District	3

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	F.B 35 pp. 25, 27, 29	411Q 873 Sh. 1
Length (ft)	3,650	2,150
Diameter (in)	2" & 3"	6"
Year Built	Unknown	1954
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

Both Orlando Court and Barksdale Court are asphalt streets with concrete curbs and gutters. The pavement is in good condition within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping in the parkways, 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, street lighting, and sanitary sewer located within the street R.O.W.

III. Recommendation

A. Water Main Improvement

It is recommended that the existing 2" & 3" water mains be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

It is recommended that the condition of the 47-year old 6" wastewater line that runs parallel to the water line in Orland Court be evaluated by CCTV inspection. The results of the CCTV inspection will help to determine whether or not the line is to be replaced.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Both Barksdale Court and Orlando Court are residential streets which are easily accessible with dedicated R.O.W. and flexible pavement, and (2) The water mains have 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

Both Barksdale Court and Orlando Court are two-way, two-lane residential streets with parallel parking and residential driveways on both sides of the roadway. Traffic will have to be limited to one lane only during construction. Randolph Drive is a two-way, two-lane street with busy traffic and will be completely closed to through traffic at the Barksdale and Orlando Court intersections during the construction period. A short section of the southbound lane of Mt. Pleasant Drive, which is a two-way, two-lane road, will need to be closed during construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
3,650	LF	8" PVC Class 200 Water Pipe	60.00	219,000.00
9	EA	8" Gate Valve	800.00	7,200.00
7	EA	6" Gate Valve	600.00	4,200.00
82	EA	Water Service Connection	600.00	49,200.00
3,650	LF	Trench Safety System	1.50	5,475.00
271	CY	Reinforced Concrete Pavement	165.00	44,715.00
183	TN	Asphalt Pavement	80.00	14,640.00
140	LF	6" PVC C900 Water Line	50.00	7,000.00
91	CY	Temp Paving Flex Base	30.00	2,730.00
183	TN	Temp Asphalt Paving	55.00	10,065.00
7	EA	Fire Hydrant	2,000.00	14,000.00
1.5	TN	Cast Iron Fittings	1,500.00	2,250.00
		TOTAL		380,475.00