

I. Project Segment Description

- A. Location: This project segment is located within the alley west of Greenville Avenue between Matalee Avenue and Longview Avenue and the alley north of Longview Avenue between Worcola Street and Greenville Avenue.

Location Information	
Description	Data
Water ID	403
MAPSCO	36P
DWU W/S Map	29-28
Council District	2

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	T-48	Q271 Sh. 2
Length (ft)	800	500
Diameter (in)	4"	6"
Year Built	Unknown	1930
Material	C.I.	VCT

II. Field Observations

- A. Easements and Right-of-Way

The water main being replaced is within the dedicated alley R.O.W. No additional easements are required.

- B. Surface\Pavement

The alleys are concrete while the crossing streets are asphalt. The pavement is in poor condition within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping along the alley, 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, sanitary and storm sewers, and gas utilities located within the alley 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 SDR26 pressure rated pipe due to its age and close proximity to the water main.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) The alleys are residential which are easily accessible with dedicated R.O.W. , (2) The existing pavement is in poor condition, and (3) 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

The Greenville Avenue alley is a two-way, one-lane alley used for patron parking, restaurant delivery, and sanitation. The alley north of Longview Street is narrow and does appear to be used. Traffic will have to be completely restricted in both alleys. The cross-streets of Martel Avenue and Worcola Street are both busy two-way, two-lane residential and commercial through streets that will be restricted to alternating lane closings to facilitate the water line construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
800	LF	8" PVC Class 200 Water Pipe	60.00	48,000.00
4	EA	8" Gate Valve	800.00	3,200.00
25	EA	Water Service Connection	600.00	15,000.00
1,300	LF	Trench Safety System	1.50	1,950.00
150	CY	Reinforced Concrete Pavement	165.00	24,750.00
4	TN	Asphalt Pavement	80.00	320.00
50	CY	Temp Paving Flex Base	30.00	1,500.00
100	TN	Temp Asphalt Paving	55.00	5,500.00
0.3	TN	Cast Iron Fittings	1,500.00	450.00
500	LF	8" PVC SDR26 Pressure Rated Wastewater Pipe	70.00	35,000.00
22	EA	Wastewater Service Connection	650.00	14,300.00
2	EA	Wastewater Manhole	2,500.00	5,000.00
1	EA	Wastewater Access Device	1,500.00	1,500.00
		TOTAL		156,470.00