

**I. Project Segment Description**

- A. Location: This project segment is located on French Settlement from the T&P R.R. to Pipestone Road; La Reunion Parkway from French Settlement Road west to Pipestone Road, and Pipestone Road from west La Reunion Parkway to east La Reunion Parkway.

Location Information	
Description	Data
Water ID	527
MAPSCO	43S
DWU W/S Map	40-16
Council District	1

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	F.B. 452 p.24-27 F.B. 629 p. 67-69 F.B. 769 p. 8-9 F.B. 863 p. 41-43	411Q 1702 Sh. 58-59, 85-89, 128-130
Length (ft)	8,100	5,600
Diameter (in)	12" & 16"	8" & 15"
Year Built	Unknown	1972
Material	C.I.	PVC & 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

French Settlement Road, La Reunion Parkway, and Pipestone Road are concrete streets with curb and gutter. Some of the pavement is in poor condition within the project limit.

- C. Trees and Landscaping

There are existing trees and landscaping in the parkway that may be adversely affected because the line to be replaced is close to or beneath the existing curb.

D. Adjacent Structures

There are existing overhead electrical lines, street lighting, gas utilities, and sanitary sewer located within the street R.O.W.

**III. Recommendation**

A. Water Main Improvement

It is recommended that the existing 12 and 16" water main be replaced with 12" and 16" PVC Class 200 water pipe.

B. Wastewater Improvement

The existing 8" and 15" wastewater mains are relatively new in age and are located within a 60-foot street R.O.W. Initial investigations indicate that there is adequate space to replace the existing water line without encroaching on the minimum separation requirement per TNRCC standards. Therefore, it is recommended that the existing 8" and 15" wastewater mains remain in place.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) French Settlement Road, La Reunion Parkway, and Pipestone Road are commercial streets which are easily accessible with dedicated R.O.W., 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

French Settlement Road, La Reunion Parkway, and Pipestone Road are two-way, two-lane commercial streets with warehouse driveways on both sides of the roadway. Traffic will have to be limited to one lane only on each road to facilitate the water line construction. The intersection of French Settlement Road and La Reunion Parkway will need to be closed during the construction period.

**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>
6,800	LF	12" PVC Class 200 Water Pipe	80.00	544,000.00
1,450	LF	16" PVC Class 200 Water Pipe	100.00	145,000.00
2	EA	16" Gate Valve	1,200.00	2,400.00
19	EA	12" Gate Valve	1,000.00	19,000.00
18	EA	6" Gate Valve	600.00	10,800.00
20	EA	Water Service Connection	600.00	12,000.00
8,100	LF	Trench Safety System	1.50	12,150.00
600	CY	Reinforced Concrete Pavement	165.00	99,000.00
360	LF	6" PVC C900 Water Line	50.00	18,000.00
200	CY	Temp Paving Flex Base	30.00	6,000.00
405	TN	Temp Asphalt Paving	55.00	22,275.00
18	EA	Fire Hydrant	2,000.00	36,000.00
15.0	TN	Cast Iron Fittings	1,500.00	22,500.00
		<b>TOTAL</b>		<b>949,125.00</b>