



**San Leon Municipal Utility District**  
**Fire Protection System Improvements CDBG-MIT Project**

SAN LEON MUNICIPAL UTILITY DISTRICT  
443 24TH STREET  
SAN LEON, TEXAS 77539  
281-339-1586 FAX: 281-339-1587  
EMAIL ADDRESS: [slmud1@slmud.org](mailto:slmud1@slmud.org)  
WEB PAGE: [www.slmud.org](http://www.slmud.org)

## **Risk Descriptions**

On August 30, 2019, the US Department of Housing and Urban Development (HUD) published a Federal Register Notice that provides guidance for the new mitigation component of the CDBG disaster recovery program. This component, identified as CDBG-MIT, represents the first allocation solely for the purposes of mitigating the impact of future disasters funds to grantees. HUD has allocated \$6.875B in CDBG-MIT funds to 14 grantees recovering from qualifying 2015, 2016 and 2017 disasters. The State of Texas has been allocated 4.2 Billion dollars to address mitigation needs. Galveston County was listed as a HUD “Most Impacted and Distressed County” (MID). This designation allows entities to apply for federal funds to mitigate future events.

San Leon Municipal Utility District (MUD) is a coastal community south of Houston near the Gulf of Mexico. The District is subject to extreme weather events such as hurricanes and tropical storms due to its proximity to the coast. In recent history, Hurricanes Ike and Harvey and Tropical Storm Beta have caused damage to the community from wind and rain as well as posed operational challenges as a result of inflow & infiltration (I&I) in the wastewater infrastructure.

The District encompasses a five square mile area, servicing an estimated population of over 11,000. Close to 50 miles of water pipe distributes treated water to the community, with pipe sizes ranging from 2” to 10”. Nearly half of that 50 miles is composed of 2” water mains, which are prohibited from having fire hydrants and are restricted on the number of taps that can be developed to preserve pressure and quality. The absence of hydrants throughout the community represents a significant concern for our local volunteer fire department when responding to fire calls. A second issue with the distribution system is the underground valves used to isolate sections for repairs or improvements. While a valve at each intersection is ideal, there are large stretches of the District’s infrastructure where valves are non-existent or inoperable due to corrosion from the salt water, presenting compounded difficulty when a repair is necessary.

## **Project**

The purpose of this project is to improve sections of the District’s water distribution system through installation of additional valves, rehabilitation or replacement of existing valves, as well as targeted replacement of 2” water mains with 6” mains in order to facilitate functional hydrants. The scope of this project will include review of the District engineer’s master utility plan in conjunction with District GIS data to identify areas of the distribution system where additional valving, upgraded water mains, and additional hydrant installation would be most impactful. The District will also be coordinating with the local VFD to assess the most critical areas of the peninsula that would benefit from the additional fire protection provided through new hydrants.

GEOID	geoname	Lowmod	Lowmoduniv	Lowmod_pct
15000US481677218001	Block Group 1, Census Tract 7218, Galveston County,	645	1305	49.43%
15000US481677218002	Block Group 2, Census Tract 7218, Galveston County,	1180	1655	71.30%
15000US481677218003	Block Group 3, Census Tract 7218, Galveston County,	425	1030	41.26%
15000US481677218004	Block Group 4, Census Tract 7218, Galveston County,	465	525	88.57%
		2715	<b>4515</b>	60%

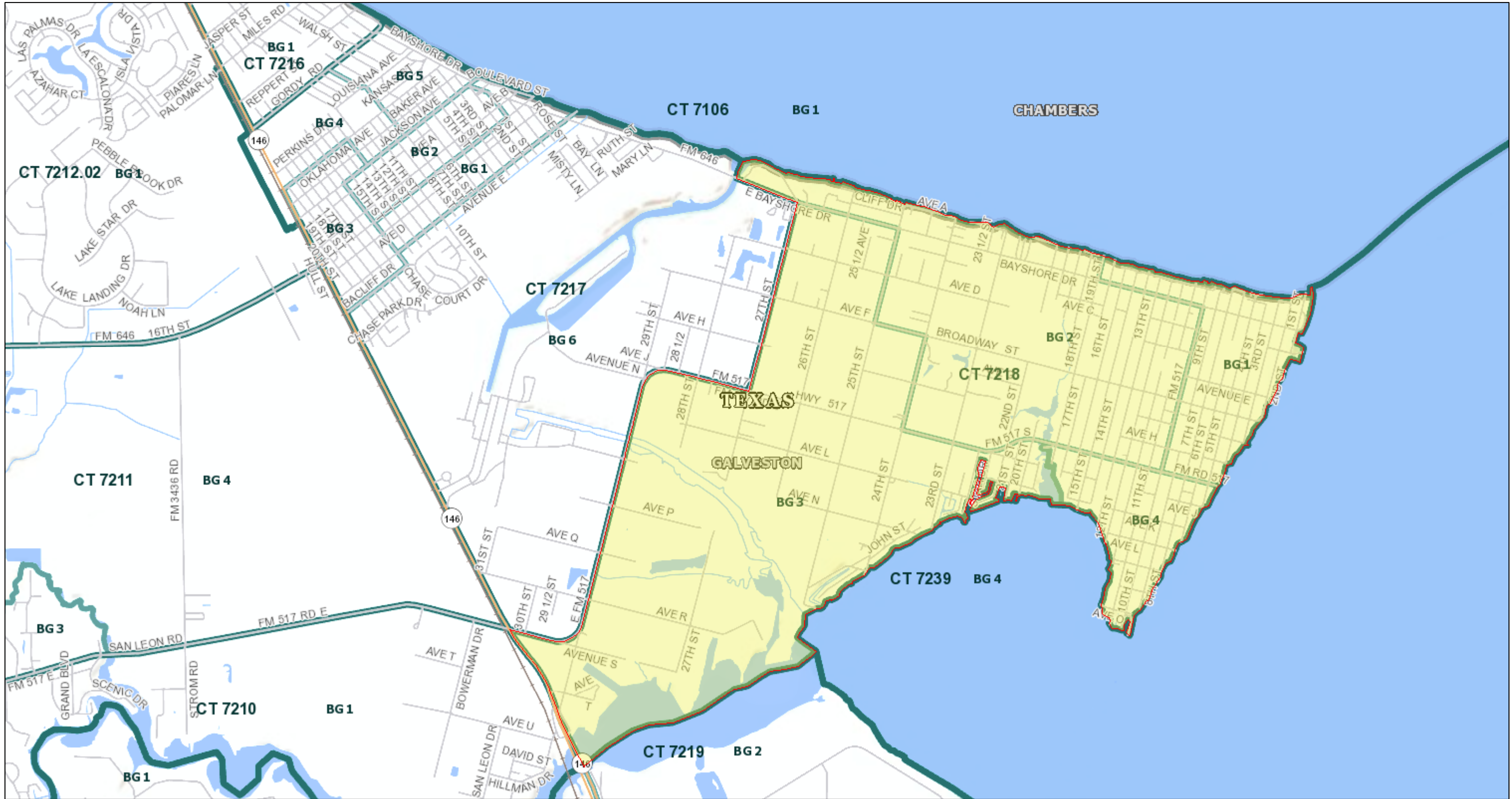


## CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

<b>Applicant/Subrecipient:</b>	San Leon MUD				
<b>Site/Activity Title:</b>					
<b>Eligible Activity:</b>	Installation of additional valves on water main infrastructure				
Materials/Facilities/Services	\$/Unit	Unit	Quantity	Construction	Total
Valves	\$ 800.00	EA	400	\$ 320,000.00	\$ 320,000.00
Instavalve Equipment	\$ 65,000.00	EA	1	\$ 65,000.00	\$ 65,000.00
Replacement of 2" PVC water mains with 6" PVC water mains	\$ 40.00	LF	60000	\$ 2,400,000.00	\$ 2,400,000.00
Installation of fire hydrants and valves	\$ 2,000.00	EA	200	\$ 400,000.00	\$ 400,000.00
Engineering	\$ 1.00	EA	477750	\$ 477,750.00	\$ 477,750.00
Grant Administration	\$ 1.00	EA	191100	\$ 191,100.00	\$ 191,100.00
Mobilization	\$ 1.00	EA	30000	\$ 30,000.00	\$ 30,000.00
Bonds Insurance Permits	\$ 1.00	EA	20000	\$ 20,000.00	\$ 20,000.00
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<b>TOTAL</b>	<b>\$ 67,844.00</b>			<b>\$ 3,903,850.00</b>	<b>\$ 3,903,850.00</b>

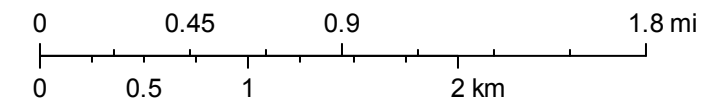
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October 1, 2020

- Census Tracts
- Census Block Groups
- States
- Counties
- Census Tracts
- Census Block Groups
- States
- Counties

1:36,112



Source: U.S. Census Bureau  
Sources: Esri, USGS, NOAA