

Water Main Improvement Project 2-C at Long Beach Airport Tarmac (MC-5232)

September 29, 2022



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Project Background

- In September 2020, the Water Distribution System Master Plan (MP) was completed to provide a comprehensive planning guide for improving and maintaining LBWD's water distribution system
- The Master Plan identified Capital Improvement Program (CIP) projects to:
 - 1) Address hydraulic deficiencies
 - 2) Identify small diameter pipelines with a high probability of failure from risk analysis
 - 3) Identify large diameter pipelines to consider for condition assessment inspection

Long Beach Water Department Water Distribution System Master Plan

September 2020



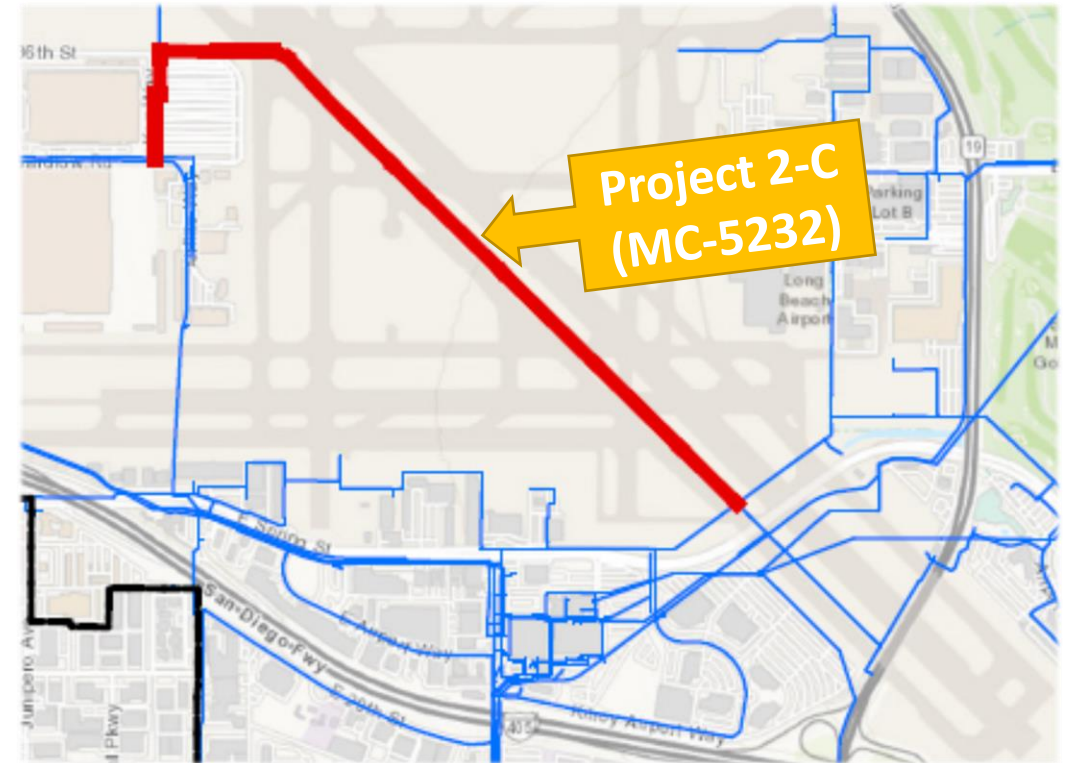
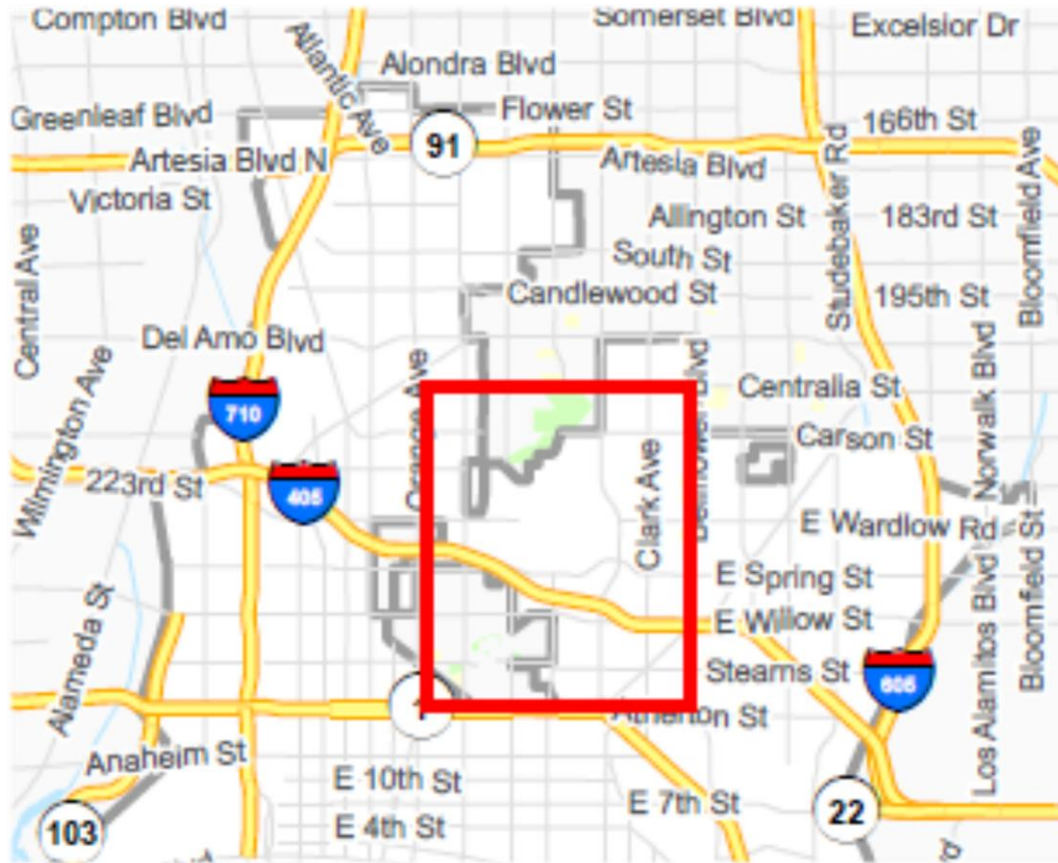
Project Description

- Project 2-C (MC-5232):
 - Addresses hydraulic deficiencies (number 1 in previous slide)
 - Located within the City of Long Beach's Airport tarmac from Spring Street to Wardlow Road
 - Consists of upsizing approximately 6,800-ft of an existing main from an 8-inch to a 12-inch

Factor Contributing to Water System Deterioration

Physical factors	Environment factors	Operational factors
Pipe age and material Pipe wall thickness Pipe vintage Pipe diameter Type of joints Thrust restraint Pipe lining and coating Dissimilar metals Pipe installation Pipe manufacture	Pipe bedding Trench backfill Soil type Goundwater Climate Pipe location Disturbances Stray electrical currents Seismic activity	Internal water pressure, transient pressure Leakage Water quality Flow velocity Backflow potential Operation and maintenance practices

Project Location



Recommendation

Authorize the General Manager to execute an agreement with DRP Engineering, Inc., to provide engineering design services for the Water Main Improvement Project 2-C at Long Beach Airport Tarmac (MC-5232) in the amount not to exceed \$300,681.



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