

2021 Collection System Rehabilitation Project (CIP 20703)



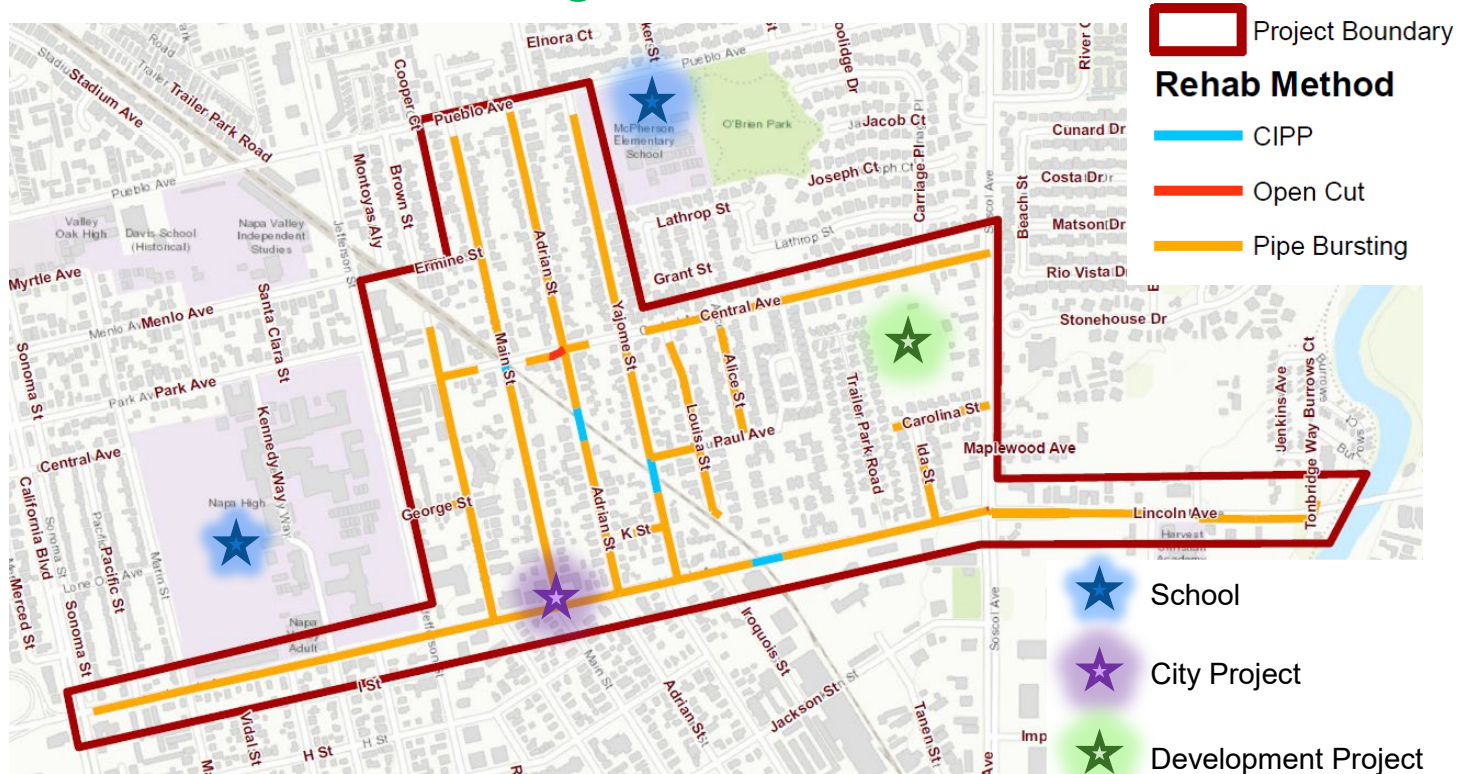
Napa Sanitation District Board of Directors Meeting
October 7, 2020



Background

- Draft Collection System Master Plan (CSMP) 2020
 - Identified this project as a high priority based on inflow & infiltration (I&I)
 - Recommends completion of this project prior to other recommended projects
- 10 major rehabilitation projects completed so far

Project Area



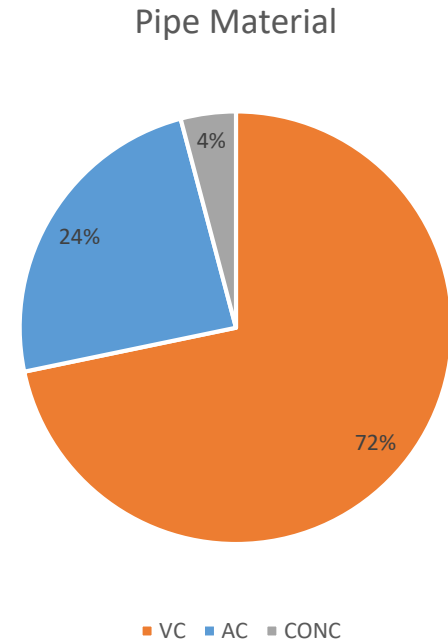


Project Area Selection

- High I&I and peaking factor
- Very old, deteriorated pipes
- Work will be performed in advance of upcoming Measure T and Local Streets Paving Program work.



Pipeline Age and Condition Within Project Area



Pipeline Age and Condition Within Project Area



VCP with cracks/fractures, poor lateral abandonment/connection work



Broken concrete pipe with exposed aggregate

Rehabilitation Methods



Pipe bursting



Cured-in-place pipe (CIPP)

Rehabilitation Methods



Manhole rehabilitation /
replacement



Lateral connection
electrofused saddles



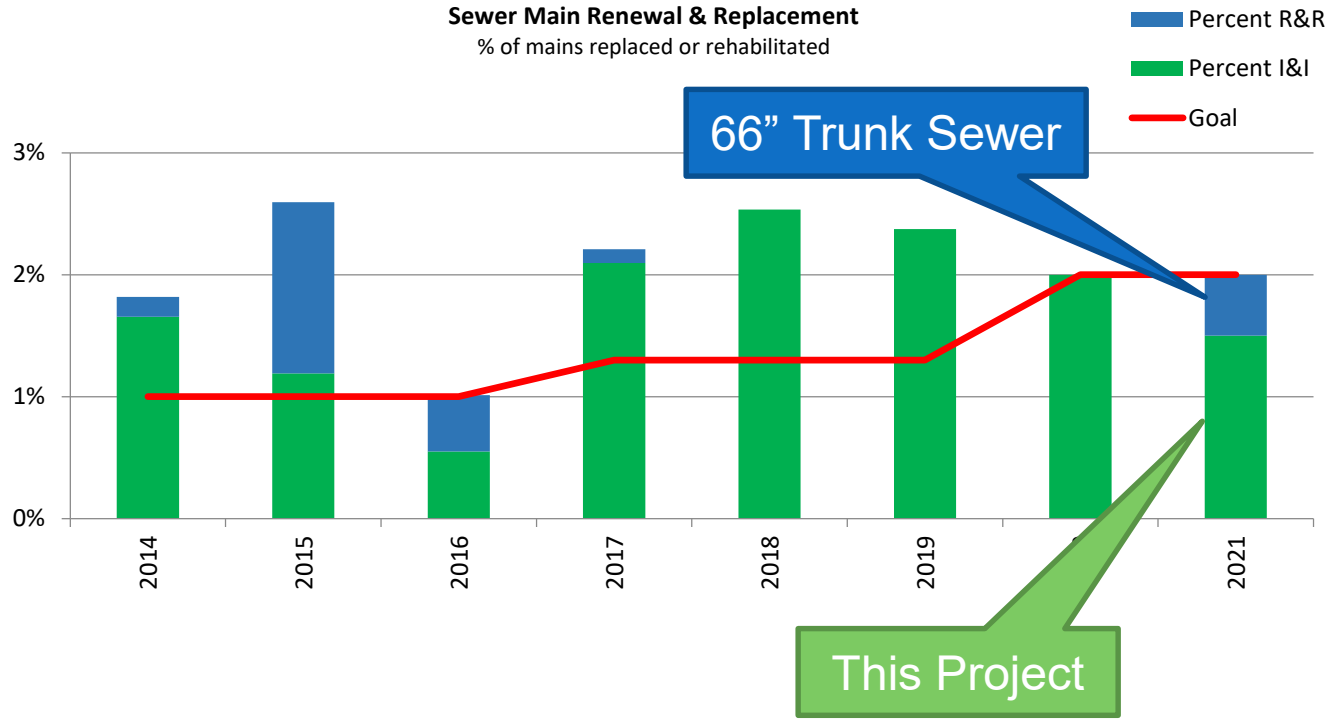
Pipe Bursting AC

- 5,200 LF AC Pipe (4", 6", and 8" dia.) to be pipe bursted
- More resilient and water tight than CIPP lining
- Permission obtained from BAAQMD
- Monitoring and testing protocols included in specifications

Project Overview

Item	Base Bid	Bid Alternate A	Bid Alternate B	<u>Total</u>
Sewer main	18,000 LF (3.4 miles) 1.3% of system	1,900 LF (0.36 miles) 0.1% of system	1,600 LF (0.30 miles) 0.1% of system	21,500 LF (4.1 miles) 1.5% of system
Structures	63	5	6	74
Laterals	570	17	16	603
Engineer's Estimate	\$6,350,000	\$630,000	\$530,000	\$7,510,000

Sewer Main Renewal & Replacement Goals





Anticipated Schedule

Milestone	Date
Notice Inviting Bids	Mid October, 2020
Bid Opening	Mid November 2020
Award Construction	December 2, 2020
Notice to Proceed	December 2020
Project Completion	October 2021



Recommendation

Approve the Project, Concur with CEQA Determination, and Authorize the General Manager to Issue Notice Inviting Bids for the 2021 Collection System Rehabilitation Project (CIP 20703)