



# Southeast Napa Sewer and Roadway Rehabilitation Project (CIP 18706)



Napa Sanitation District Board of Directors Meeting  
October 17, 2018



# Background

- Collection System Master Plan (CSMP) 2007
  - Identified \$120 million in capacity expansion projects
  - Recommendation of an inflow & infiltration (I&I) reduction program
- 8 major rehabilitation projects completed so far
  - I&I reduction
  - Rehabilitation/replacement

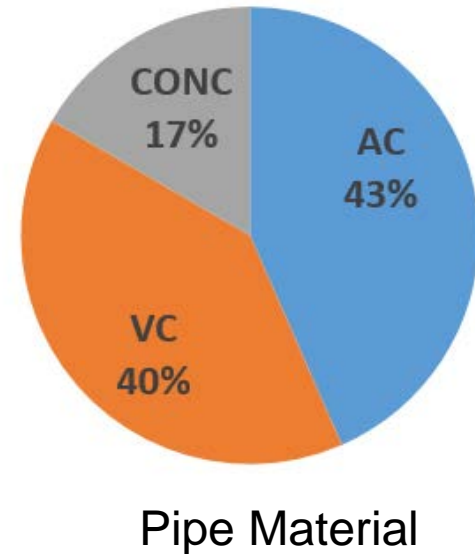
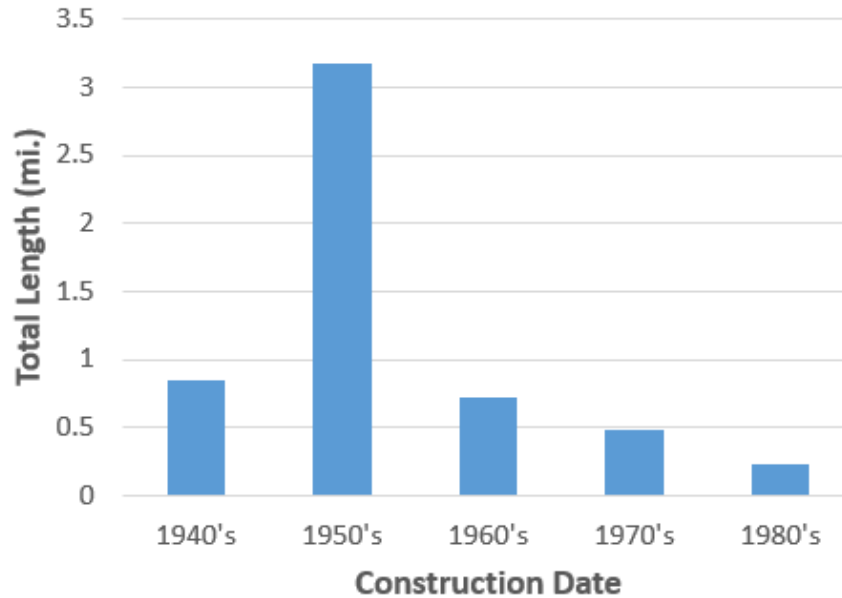
# Background

## Southeast Napa Area

- High peaking factor (22.4)
- Downstream SSO history
- Upcoming paving projects (City and County)

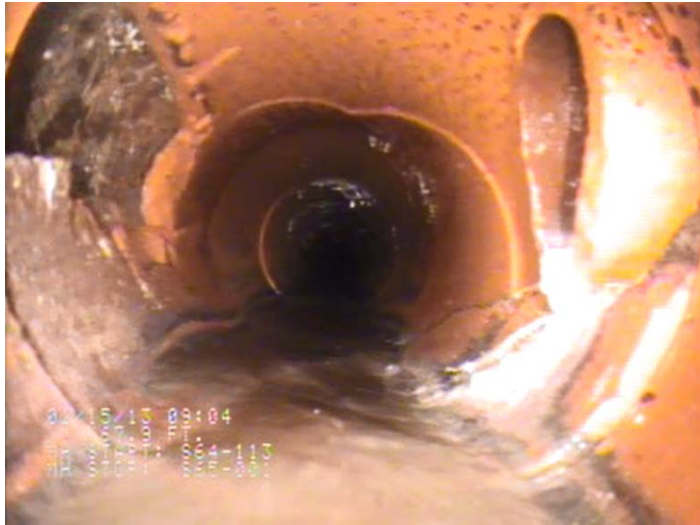


# Pipeline Age and Condition Within Project Area



# Pipeline Age and Condition

## Within Project Area



1940's VCP with cracks, fractures, and partial collapses



1950's ACP with surface spalling and infiltration at joints and lateral connections



# Rehabilitation Methods



Pipe bursting



Cured-in-place pipe (CIPP)

# Rehabilitation Methods

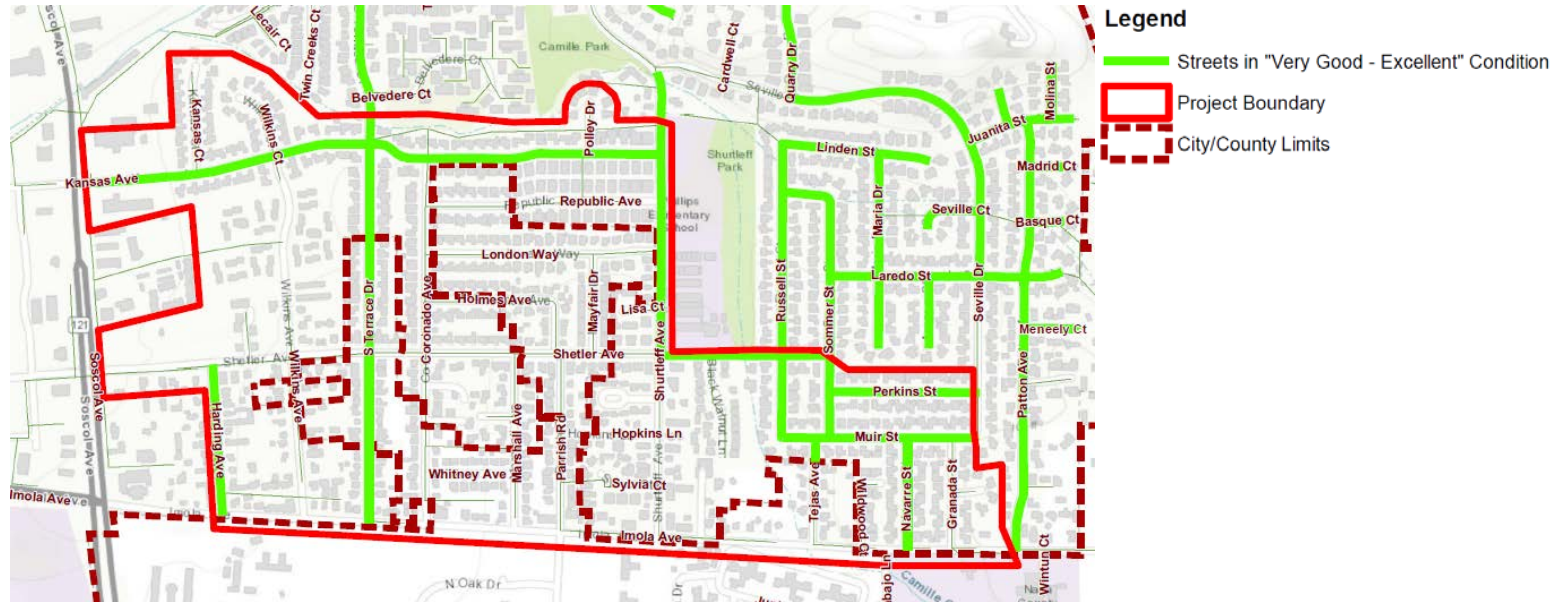


Manhole rehabilitation /  
replacement



Lateral connection “Top Hats”

# Coordination with Paving Projects



## Identify streets in good condition and modify design to minimize impacts





# Coordination with Paving Projects

- Napa County
  - Partnership to combine sewer rehabilitation and paving into one project
  - Reimbursement agreement similar to past collaborative projects (MST, Flood Control)
- City of Napa
  - Streets within and near project area are on upcoming paving schedule



# Project Overview

Engineer's Estimate: **\$7,200,000**

- **\$1,500,000** reimbursable by County for Roadway Work
- **\$5,700,000** NapaSan estimate for sewer rehabilitation

Item	Quantity
Sewer main rehabilitation	30,500 LF (5.8 miles) - <b>2.2% of system</b>
Structures	40
Laterals	615
Street resurfacing	1.6 miles
ADA curb ramps	21



# Anticipated Schedule

Milestone	Date
Notice Inviting Bids	October 19, 2018
Bid Opening	Early December 2018
Award Construction	December 19, 2018
Notice to Proceed	Early February 2019
Substantial Completion	October 2019



# Recommendation

Approve the Project, Concur with CEQA Determination, Approve Reimbursement Agreement with Napa County, and Authorize the General Manager to Issue Notice Inviting Bids for the Southeast Napa Sewer and Roadway Rehabilitation Project (CIP 18706)