



# Award Construction: Soscol/Sousa Trunk Rehabilitation Project (CIP 17705)

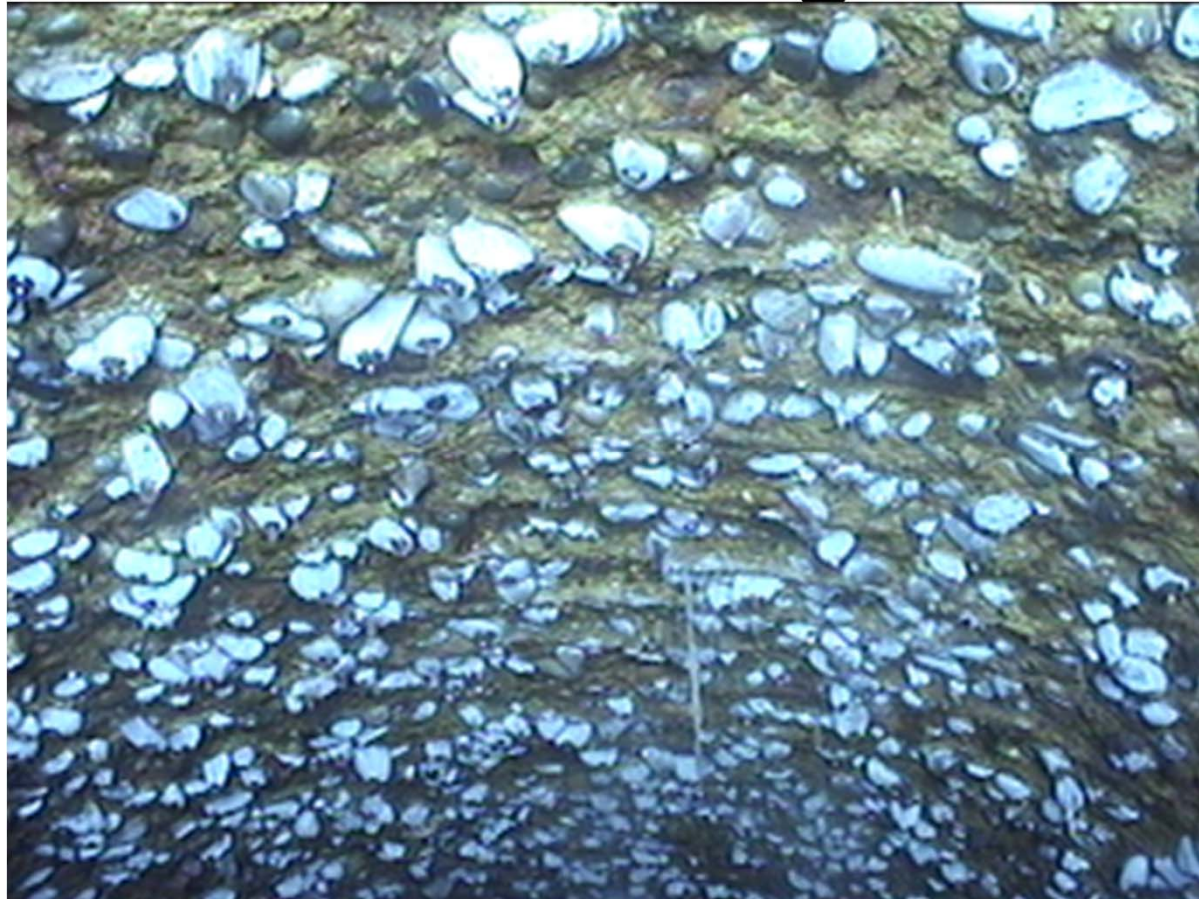
Napa Sanitation District  
Board of Directors Meeting  
April 5, 2017



# Background

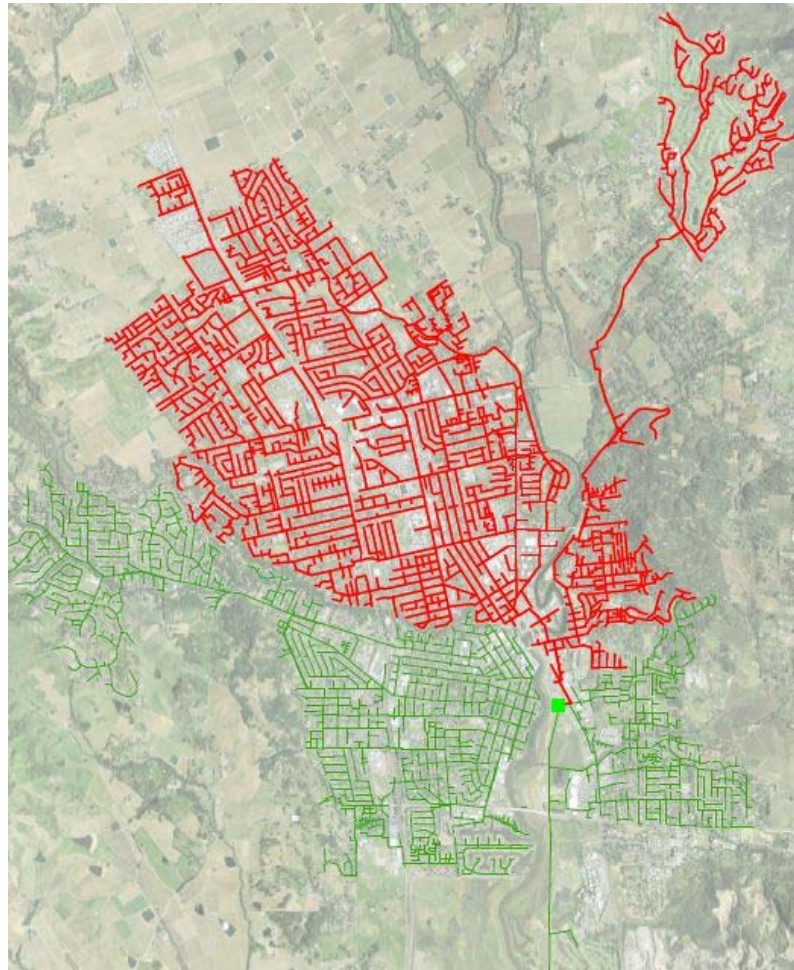
- Sewer Main Information
  - 1,500 LF
    - Eighth St. – Soscol Ave. – Sousa Ln.
  - 45-inch Reinforced Concrete Pipe
  - Installed 1968
  - Critical NapaSan Asset
    - Serves large portion of NapaSan service area
    - Conveys 2/3 of NapaSan Dry Weather Flows

# 2012 CCTV: Exposed Aggregate & Evidence of Rebar Cage





# Upstream Trace Soscol/Sousa 45" Trunk



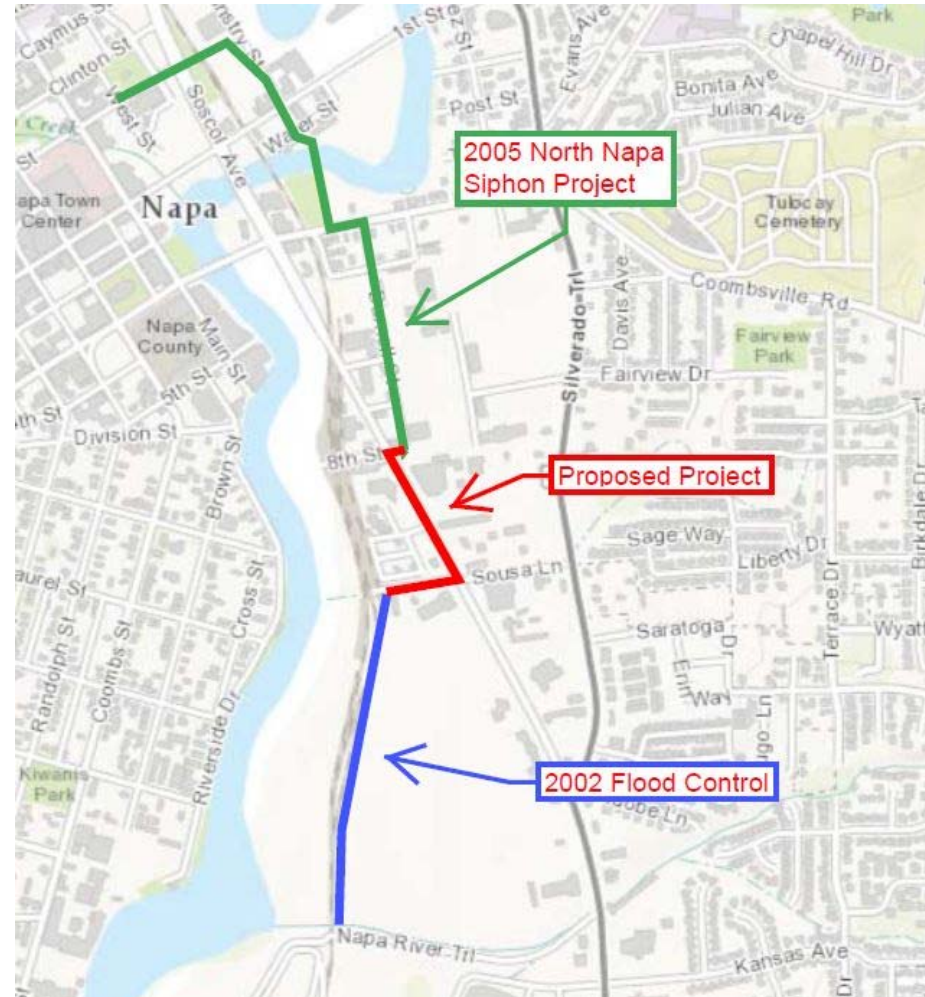




# Project Identification

- 2012 Large Diameter Main Condition Assessment
  - CCTV Inspection & Sonar
- Identified degrading reinforced concrete pipe
  - Exposed concrete aggregate
  - Steel reinforcement bars beginning to be exposed
- Rehabilitation/Replacement Added to Capital Improvement Plan

# Previous Related Projects



# Project Challenges



- Soscol Avenue
  - Traffic Impacts
  - Business Impacts
  - Residents
- Large Diameter Sewer
  - Bypass Pumping
  - Manhole cone removal for access
  - 900 LF Pipe Length in Soscol Ave.
  - Buried bypass piping
  - 30-40 hour installation process for each CIPP “shot”



# Project Constraints

- Scheduled in summer (low flow periods) to minimize bypass pumping
- Minimize Public Impacts (traffic)
  - No work affecting traffic lanes during:
    - Bottle Rock
    - Independence Day Weekend
    - Napa Valley Expo – Town & Country Fair
- Access to businesses and residents at all times





# Coordination Efforts

- Monthly utility coordination meetings at City
- Separate meetings with City of Napa Construction Division
  - Design Period (November 2016)
  - Bid period follow-up (February 2017)
- Napa Valley Transportation Authority
  - Burnell Street bus terminal and routes (design phase)
- Napa County Bicycle Coalition (March 2017)
- Outreach to businesses (April 2017)
- Outreach to Trailer Park Road residents (April 2017)
- Public outreach/notification
  - Letters, Door-to-Door visits, press releases
  - Advance signage (message boards)



# Coordination Results

- City Requirements
  - No lane closures during M-F commute hours
    - 6:30 am – 9:00 am
    - 5:00 pm – 6:30 pm
  - Work requiring multiple shifts shall occur on weekends
    - Friday 9:00 am – Monday 6:00 am
  - Electronic Message Board warnings 1 week prior to, and during, work affecting traffic
- Napa County Bicycle Coalition
  - “Share the Road” signage
- Napa Valley Transportation Authority
  - Reroute bus depot traffic from 8th Street to 6th/3rd Street



# Bid Results

Bidder	Amount
Engineer's Estimate	\$800,000
Insituform Technologies	\$1,088,300
Ranger Pipelines	\$1,544,720
Michels Corporation	\$1,866,977
SAK Construction	\$2,148,684



# Bid Analysis

Bidder	Amount	% vs Eng Est	% vs next bid
Engineer's Estimate	\$0.8M	- <sup>1</sup>	-
Low Bid	\$1.09M	36% <sup>2</sup>	-
Second Low Bid	\$1.54M	93%	42% <sup>3</sup>

1. Scope added during bid period
  - Additional MH in Soscol (\$55k)
  - Night/Weekend Constraints - Additional mobilizations to site & Second Shift labor rates
2. Debris removal - 1/4 full pipe added ~\$200k
3. Alternative approach to bypass pumping – potential to reduce amount of excavation in Soscol vs. other bidders

Staff confirmed Low Bidder stands behind it's bid



# Project Schedule

- Board Approval of Project: 2/15/17
- Notice Inviting Bids: 2/17/17
- Bid Opening: 3/23/17
- April 2017
  - Award Construction Contract & Consultant Task Orders
  - Public Outreach
  - Notice to Proceed
- Construction Period: Summer 2017





# Staff Recommendations: Construction Contract

- Award the project to Insituform Technologies, LLC. for the bid amount;
- Authorize the General Manager to execute Agreement and issue Notice to Proceed, when appropriate.



# Staff Recommendations: Consultant Task Order

- Award CM & Inspection Task Order to Brown and Caldwell.



# Questions?