



BURBANK SANITARY DISTRICT

Development of Capital Improvements Public Outreach Meeting

Monday - November 10, 2014

BOARD OF DIRECTORS

Michelle Kaelker-Boor – President

Keri Russo – Secretary

Rebecca Yoder – Director

Ken Colson – Director

STAFF

Richard K. Tanaka

District Manager - Engineer

(Mark Thomas & Company, Inc.)

PURPOSE OF THIS MEETING

- District has completed condition assessment of 5.6 miles of sewer mains and identified a need to initiate a rehabilitation program.
- BSD is seeking the resident's input, as feedback will be very valuable in guiding us to identify the best way to implement and complete our capital improvement program.
- To increase our reliability and operation of the sanitary sewer system in the District and to satisfy State Regional Board's mandates/requirements.

MEETING AGENDA

Tonight's meeting consists of the following:

- District PowerPoint Presentation
- Discussion between District Board of Directors, District Staff, and residents
- District Staff to gather public input

NEXT STEP:

- Staff and Board will review public input
- Develop implementation strategy

SANITARY SEWER SYSTEM BACKGROUND

- The Burbank Sanitary District's sewer mains were constructed in the 1940's and early 1950's and includes approximately 5.6 miles of pipelines
- In recent years, District's CIP included:
 - Olive Avenue Sanitary Sewer Pipe Improvements (2014)
 - Spot repairs throughout the District during the FY 2008-2009 and FY 2009-2010



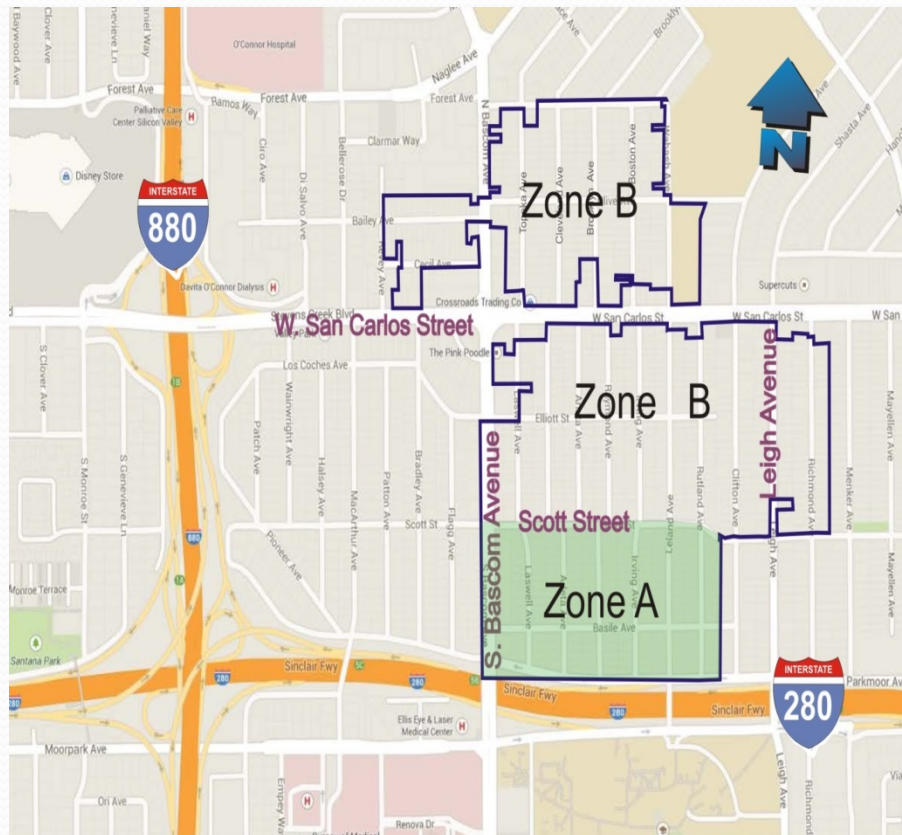
SEWER MAIN CONDITIONS

- PACP Pipe Rating
 - Rating from 1 to 5
 - Pipes rated 5 should be repaired immediately.
- 70% of all district mains are rated in the PACP 4 and 5 range, which represent pipes in distressed conditions.
- Laterals were **not** inspected as part of this condition assessment



DISTRICT REHABILITATION PLAN

There are **two** types of rehabilitations, identified as Zone A and Zone B



— Burbank Sanitary District Boundary

- Zone A (located between Scott Street and I-280) will require all sewer mains to be fully replaced. Most sewer mains are located in the backyards between two properties. Because the sewer mains are located in the backyards, they are difficult to replace in the same location. District is considering several options to rehabilitate the sewer mains in this zone.
- Zone B is all other portions of the District which will require spot repairs. Sewer mains in Zone B are located in the street.

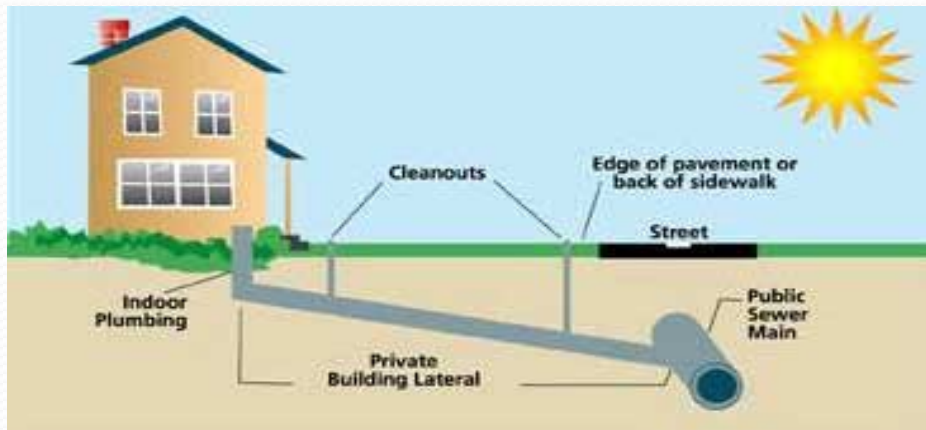


ZONE A REHABILITATION

- Alternative 1: Replace, at the same location, the existing sewer mains by using the pipe bursting method.



- Alternative 2: Abandon existing mains and install new mains in the streets.



ZONE A, ALT. 1: PIPE BURSTING



Advantages:

1. Mains can easily be replaced.
2. Laterals replacement:
Hand dig; find laterals
and connect

Disadvantages:

1. More investigative work up front needed
2. Need access to backyards
3. Possibly obstructions in utility easement may have to be removed
4. Sewer may not be available for 2 weeks

ZONE A, ALT. 2: NEW MAINS IN STREETS



Advantages:

1. In streets, requires less maintenance
2. All properties will have cleanouts for lateral maintenance
3. Less disruption to property owners
4. Property owner has more flexibility to reconnect to the new main in street
5. Free up back yard from sewer encumbrances

Disadvantages:

1. Property owner will be responsible for reconnecting lateral to the new main
2. May be more expensive

ZONE A REHABILITATION COST COMPARISON

Alternative 1:

Pipe Bursting

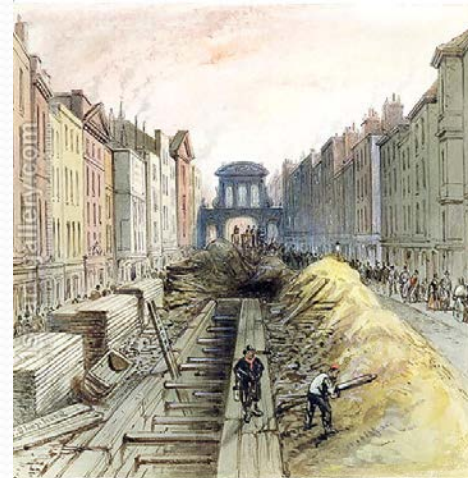
\$2,267,000



Alternative 2:

New Mains in Streets

\$2,494,000



\$\$\$ ZONE A - PROJECT FUNDING \$\$\$

- Project can be implemented as one construction project or series of construction projects spread over 3 to 5 years
- If one construction project, it can be funded through an assessment district proceedings (bond or loan program) paid over 20 years
- If multiple construction projects, most likely “pay as you go”, which means rate increases as needed to finance the improvements



ZONE B REHABILITATION

- All sewer mains for Zone B are in the streets. Most of them require spot repairs, and there is only 1 full pipe replacement in this Zone. Therefore, the rehabilitation for Zone B is straight forward spot repairs and pipe replacement as needed.
- The total rehabilitation cost for Zone B is \$1,875,500.
- Prioritize repairs based on severity over next 10 years.

ZONE B REHABILITATION *(continued)*

Spot Repairs - Cost **\$1,638,000**

Year	Location	Description	Cost
1	Arleta Avenue Irving Avenue	20 Spot repairs	\$246,000
2	Brooklyn Ave Leland Avenue	27 Spot repairs	\$430,000
4	Boston Avenue Bailey Avenue	15 spot repairs	\$246,000
5	Cleveland Avenue	4 spot repairs	\$47,500
6	Bailey Avenue Laswell Avenue Richmond Avenue	20 Spot repairs	\$165,500
7	Rutland Avenue Vaughn Avenue	12 Spot repairs	\$174,000
8	Bascom Avenue Wabash Avenue Leigh Avenue	11 Spot repairs	\$137,000
9	Cecil Avenue Clifton Avenue Raymond Avenue	9 Spot repairs	\$141,000
10	Forest Avenue Arleta Avenue	3 Spot repairs	\$51,000

Total \$1,638,000

1 Full Replacement - Cost **\$237,500**

Year	Location	Description	Cost
5	Cleveland Avenue	1 Full main line replacement	\$237,500

\$\$\$ ZONE B PROJECT FUNDING \$\$\$

- Very few loan programs are available for pipe repair type projects.
- Will need to be financed as “pay as you go” approach





CONTACT INFORMATION

Questions or further suggestions please write to the District office at:

**20863 Stevens Creek Blvd
Cupertino, CA 95014**

Or please feel free to call us at:

408-253-7863

QUESTIONS

