



**CITY OF FULLERTON  
INFRASTRUCTURE AND NATURAL  
RESOURCES ADVISORY COMMITTEE**

**INFRASTRUCTURE DATA SHEET**

Date: February 2020

**Asset: BRIDGE STRUCTURES**

**Asset Description:** Public access bridge structures open for vehicular and pedestrian use. Typically used to provide access over drainage channels (i.e. Fullerton Creek and Brea Creek), but also over active and abandoned railroads.

**Asset Quantity:** 45 bridge structures. In addition, 10 box culverts are also considered bridge structures according to FHWA criteria due to the overall culvert width and multi-cell construction.

**Asset Needs:** Various levels of repair and rehabilitation (based 2017 BPMP report)  
36 require preventive maintenance  
5 require significant rehabilitation and/or replacement

**Estimated Cost:** Preventative Maintenance: \$41,000 per EA (average cost)  
Rehabilitation/Replacement: \$2,250,000 per EA (average cost)

**Approximate Total Current Need:** Preventative Maintenance: \$1,500,000  
Rehabilitation/Replacement: \$11,250,000

**Allowable Funding Sources:** General Fund, Gas Tax, Grants

**Current Annual Funding:** None for rehabilitation, Gas Tax for minor preventative maintenance

**Typically Annual Improvements/Maintenance:** None specifically scheduled. City Maintenance utilizes the bi-annual Caltrans inspection reports to complete minor repairs as needed and/or when funding is available.

**Recommended Annual Strategy & Associated Costs:**

Apply for Highway Bridge Program (HBP) grant fund through Caltrans. Funding is available for Preventative Maintenance Measures and Rehabilitation/Replacement needs. Grant funding pays for approximately 88% of eligible costs, with the City responsible for the remaining 12% of costs. Grant funding is available every fiscal year. Agencies may apply for funding every year.

A Preventative Maintenance project requires preparation of a Bridge Preventative Maintenance Plan (BPMP). This plan details the condition of the bridge structure, including deck, substructure, approach slab, abutments, railings, etc. BPMP also incorporates the bi-annual Caltrans bridge inspection reports.

Preventative Maintenance Project:

- Complete preventative maintenance project on eligible bridges every 10 years.

Bridge Inspection & Report (Consultant)	\$ 150,000
Grant Application (Consultant & Staff)	\$ 50,000
Project Design & Environmental (36 bridges)	\$ 400,000
Construction & Inspection (36 bridges)	\$ 900,000
<b>Total Cost</b>	<b>\$1,500,000</b>
<b>Average annual project cost</b>	<b>\$ 150,000</b>
<b>AVERAGE ANNUAL CITY RESPONSIBILITY (12% of cost)</b>	<b>\$ 18,000</b>

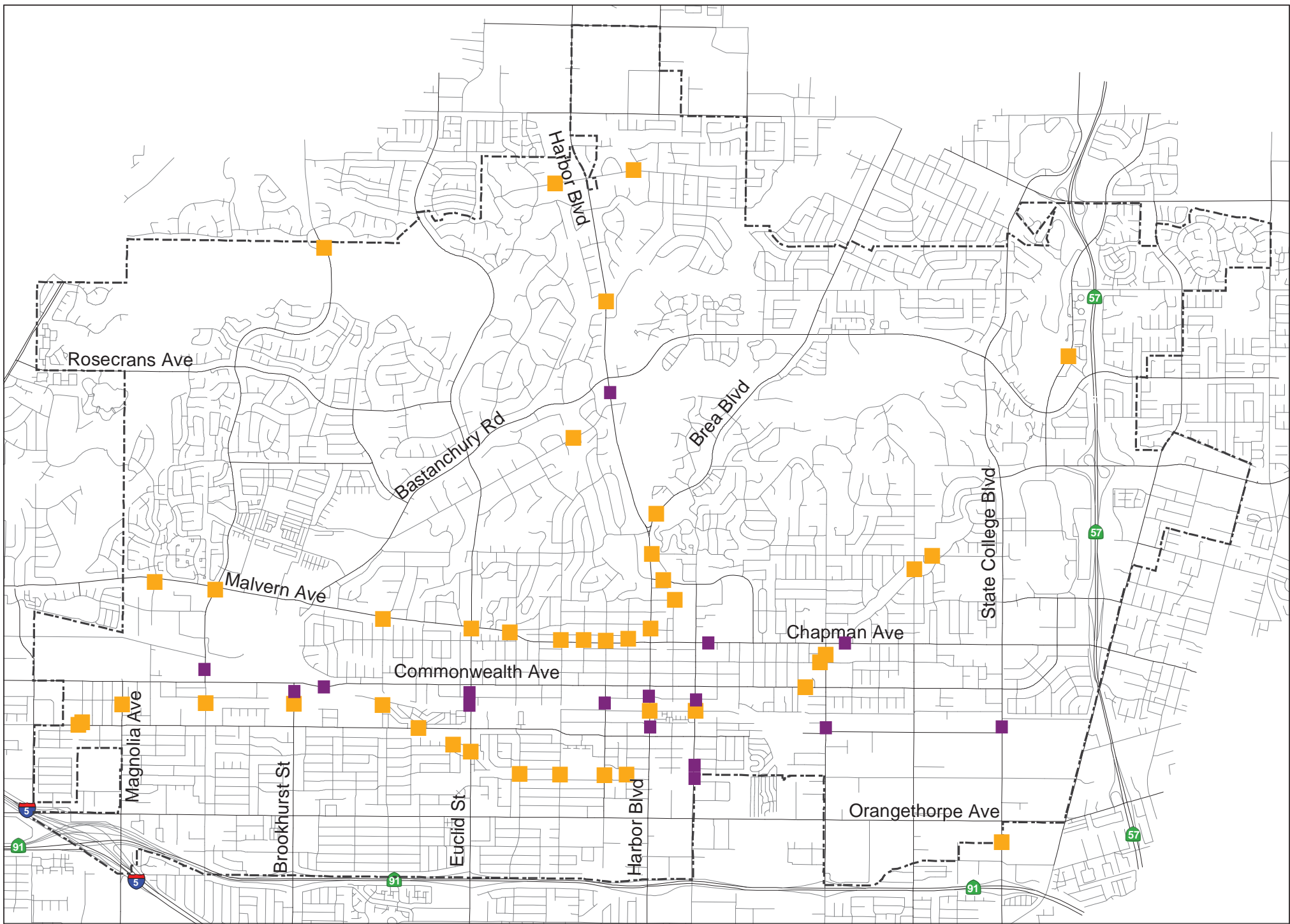
Rehabilitation/Replacement Project:

- Complete rehabilitation/replacement project on one bridge every 3 years.

Bridge Inspection & Report (Consultant)	\$ 25,000
Grant Application (Consultant & Staff)	\$ 25,000
Project Design & Environmental (1 bridge)	\$ 200,000
Construction & Inspection (1 bridge)	\$ 2,000,000
<b>Total Cost</b>	<b>\$ 2,250,000</b>
<b>Average annual project cost</b>	<b>\$ 750,000</b>
<b>AVERAGE ANNUAL CITY RESPONSIBILITY (12% of cost)</b>	<b>\$ 90,000</b>

Recommended Additional Annual Funding:

**\$108,000**



## Bridges

- = Bridge Structure not eligible for HBP funding
- = Bridge Structure eligible for HBP funding

