



Bixby Valve & Collis Valve Replacement

Engineering & Operations Committee
Item 7-1
April 9, 2012

Current Action

- Appropriate \$240,000
- Authorize preliminary design for two valve replacement projects:
 - Project 1 – Bixby Valve on Second Lower Feeder
 - Project 2 – Collis Valve on Palos Verdes Feeder

Distribution System



1 - Bixby Valve

- Background
 - 42-inch Plug Valve
 - Constructed in late 1960s
 - Piping corroded/leaking
 - End of service life
- Scope of Rehab. Work
 - Replace exist. plug valve w/ refurbished valve from La Verne warehouse
 - Replace valve support & piping
 - Deliver valve to La Verne for refurbishment



1 - Bixby Valve – Scope of Action

- Preliminary Design
 - Disassemble & assess in-stock valve
 - Develop preliminary drawings & traffic control
 - Perform site surveys
 - Prepare environ. docs, permitting
 - Prepare prelim. cost estimate
- Work performed by Met staff



2 - Collis Valve

- Background

- 42-inch Plug Valve
- Constructed in early 1960s
- Vault is 40 feet below street
- Valve difficult to operate
- End of service life

- Scope of Rehab. Work

- Replace exist. valve w/ new valve
- Replace valve support & piping
- Modify structure as necessary
- Deliver valve to La Verne for refurbishment



2 - Collis Valve – Scope of Action

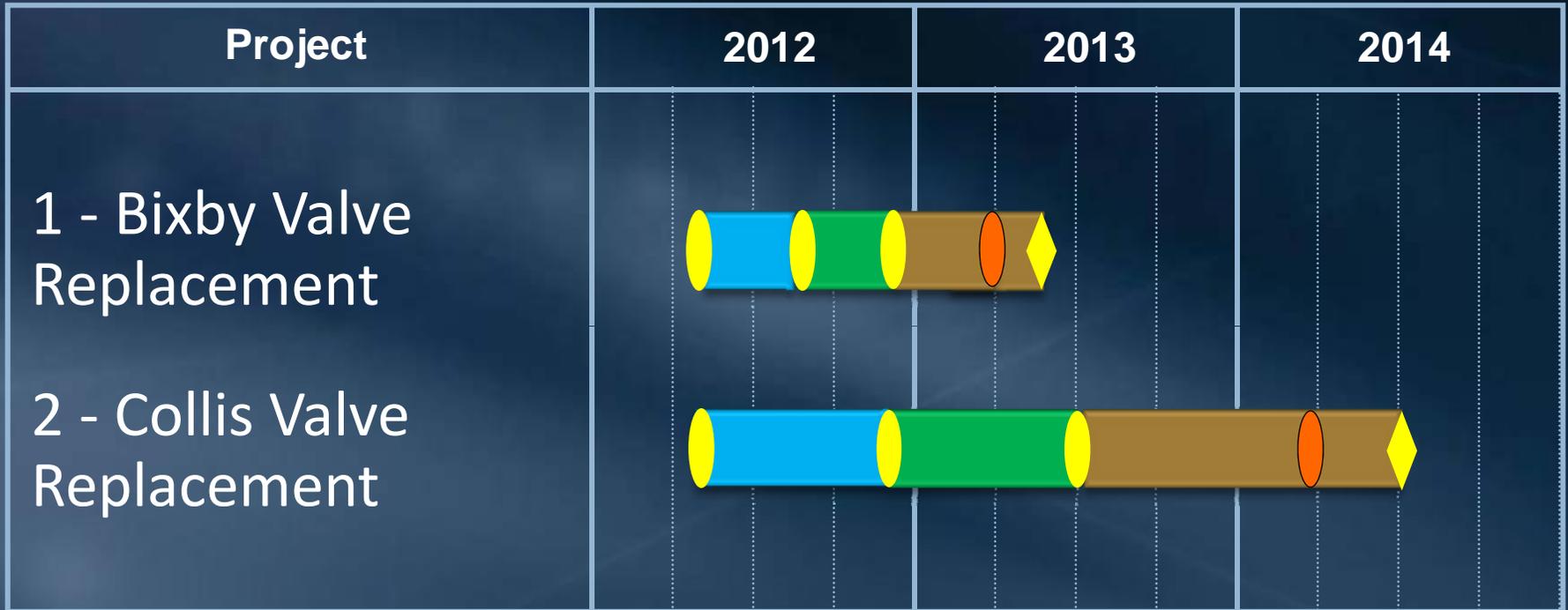
- Prelim. Design Activities
 - Develop preliminary drawings & traffic control
 - Perform site surveys
 - Hydraulic modeling
 - Prepare valve specifications
 - Prepare environ. docs, permitting
 - Prepare prelim. cost estimate
- Work performed by Met staff



Requested Funds

	Bixby Valve Replacement	Collis Valve Replacement
Labor		
Environ. Doc, Proj. Mgmt	\$ 23,000	\$ 30,000
Preliminary Design	8,000	109,000
Metropolitan Force Const.	48,000	-
Materials & Equip	12,000	-
Remaining Budget	4,000	6,000
	Total:	
	\$ 95,000	\$ 145,000
	Total Requested :	\$ 240,000

Schedule



Preliminary Design



Final Design



Construction



Board Action



Shutdown



Project Completion

Board Options

- Option #1
 - Adopt CEQA determination
 - Appropriate \$240,000
 - Authorize preliminary design to replace Bixby & Collis Valves
- Option #2
 - Do not authorize preliminary design at this time

Staff Recommendation

- Option #1