



Engineering & Operations Committee

Etiwanda Pipeline Rehabilitation Stage 3

Item 7-2

July 12, 2022

Etiwanda Pipeline Rehabilitation Stage 3

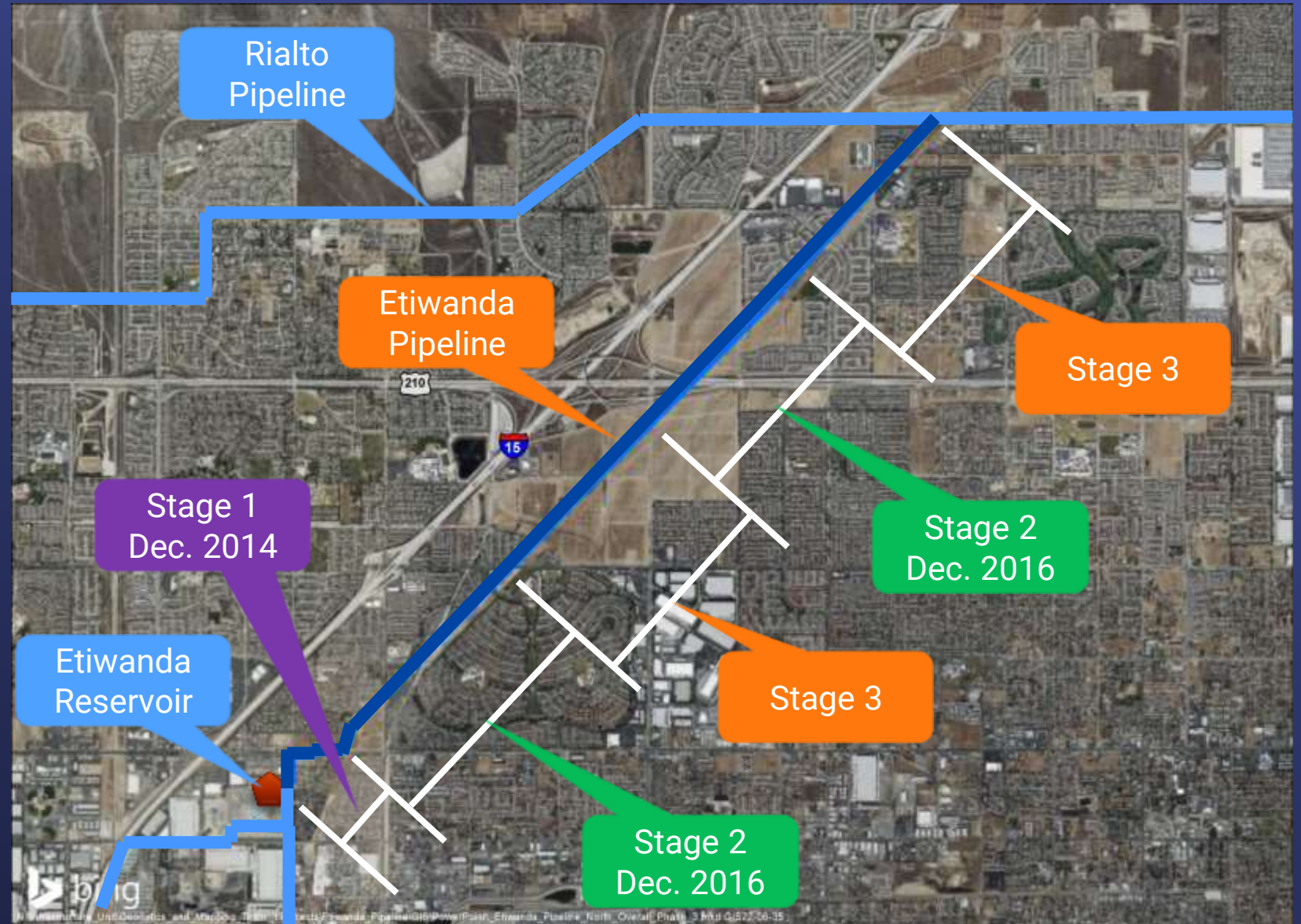
Current Action

- Award a \$25,972,700 contract to Mladen Buntich Construction Company, Inc. for Stage 3 rehabilitation of the Etiwanda Pipeline

Distribution System



Etiwanda Pipeline Rehabilitation Stage 3



Background

- 144-inch diam. welded steel pipe
- 40% mortar lining fallen/delaminated
- Remains structurally sound
- Vulnerable to accelerated corrosion
- Results of technical investigations
 - Caused by fluctuating pressures due to hydro plant operations & de-watering
 - Confirmed by outside expert technical review



Background

Condition Before
Abrasive Blasting



Condition After
Application of Coating



Background

- Metropolitan to furnish 1,300 feet of steel liner
 - To avoid delays in starting construction
 - Minimize contract duration
- Board awarded contract for steel liner in November 2021
- Steel liner to be delivered by August 2022



Etiwanda Steel Pipe in Fabrication

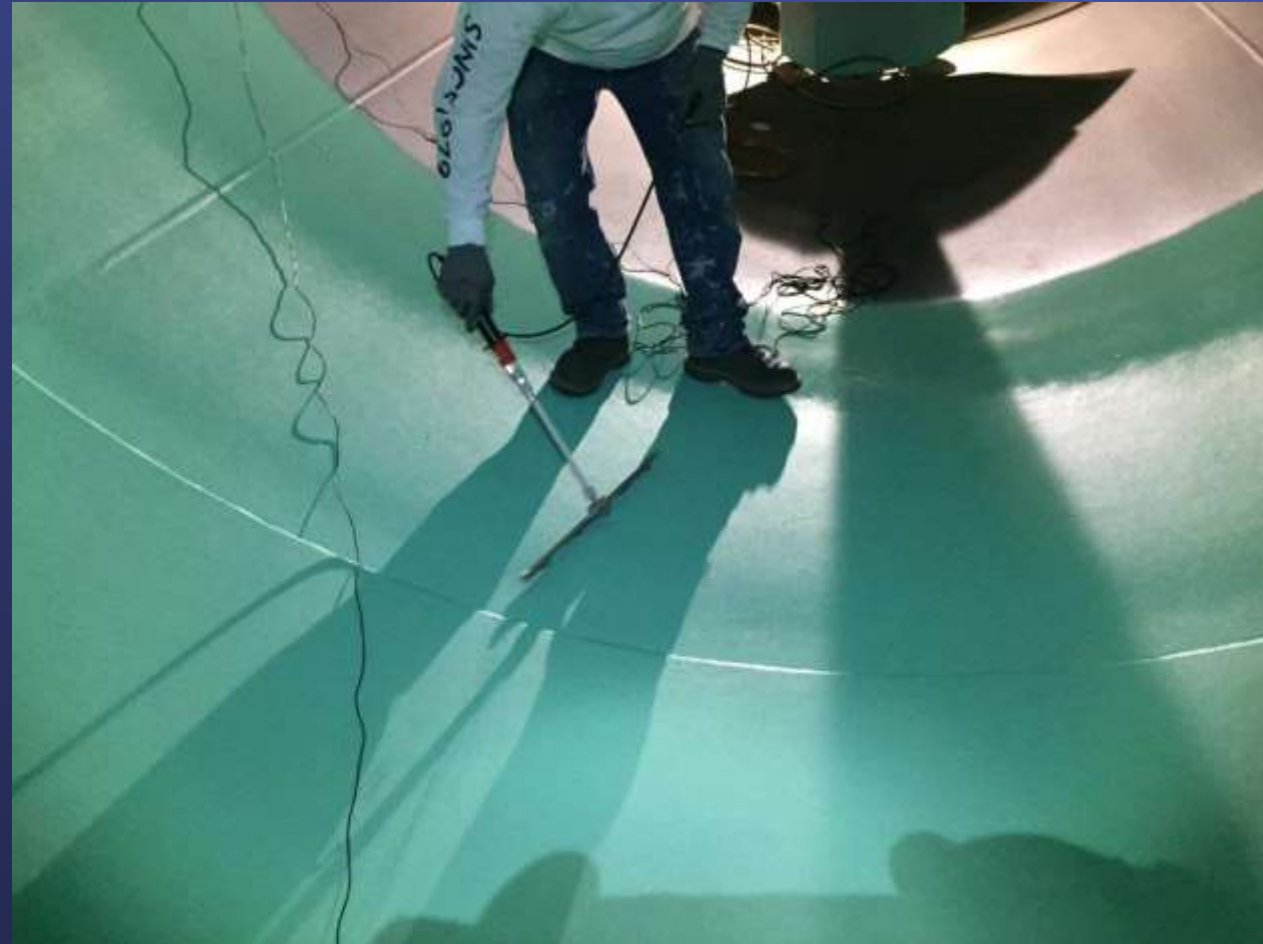
Etiwanda Pipeline Rehabilitation Stage 3

Alternatives Considered

- Two construction contracts – one for each affected city (Rancho Cucamonga and Fontana)
 - Would allow management of geographically diverse projects
 - Requires successive shutdowns spread over multiple years
- Selected alternative – One construction contract for the entire 2.5 miles
 - Most efficient way to get project completed
 - Reduces overall project costs: contracting, design and contract administration

Contractor Scope

- Remove mortar lining
- Reline 2.5 miles of pipeline with polyurethane
- Install 1,300 feet of steel liner
- Install & maintain sound barriers
- Perform traffic control & surface restoration, as required



Measuring Thickness of Polyurethane Lining

Metropolitan Scope

- Force Construction
 - Remove & replace valves
 - Furnish pipe blind flanges for installation by the contractor
 - Coordinate shutdown & dewatering of pipeline
- Field inspection & construction management
- Submittal review & technical support
- Respond to requests for information
- Environmental monitoring, project management, & contract administration



Shutdown Support



Contractor equipment behind sound barriers

Sound Barriers

- Equipment needed to maintain environment within pipeline
- Equipment will operate 24/7 during in-pipeline work activities
- Residences located within 100 feet at some work site locations
- Public outreach notifying residences of work

Bid Results

Specifications No. 1857

Bids Received	June 14, 2022
No. of Bidders	4
Lowest Responsible Bidder	Mladen Buntich Construction Company, Inc.
Low Bid	\$25,972,700
Range of Bids	\$26.17 M to \$29.93 M
Engineer's estimate	\$30.5 M
SBE Participation*	100%

*SBE (Small Business Enterprise) participation level set at 15%

Allocation of Funds

Etiwanda Pipeline Rehabilitation – Stage 3

Contract

Mladen Buntich Construction Company, Inc.	\$25,972,700
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Metropolitan Labor

Owner Costs (Program mgmt., envir. monitoring)	571,000
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Submittal review, technical support & record drwgs.	281,000
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Construction management	2,400,000
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Force construction	577,000
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Materials & Incidentals	200,000
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Remaining Budget	2,998,300
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Total	\$33,000,000
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Project Schedule

Project	2022				2023			
Etiwanda Pipeline Rehabilitation – Stage 3								

Board Action
 Construction
 Completion of Construction

 Shutdown

Board Options

- Option #1

Adopt the CEQA determination that the proposed action has been previously addressed in the certified 2015 Final EIR, related CEQA actions and Addendum No. 3, and

- a. Award \$25,972,700 contract to Mladen Buntich Construction Company, Inc. to replace a portion of the interior lining of the Etiwanda Pipeline.

- Option #2

Do not proceed with the project at this time.

Staff Recommendation

- Option #1

