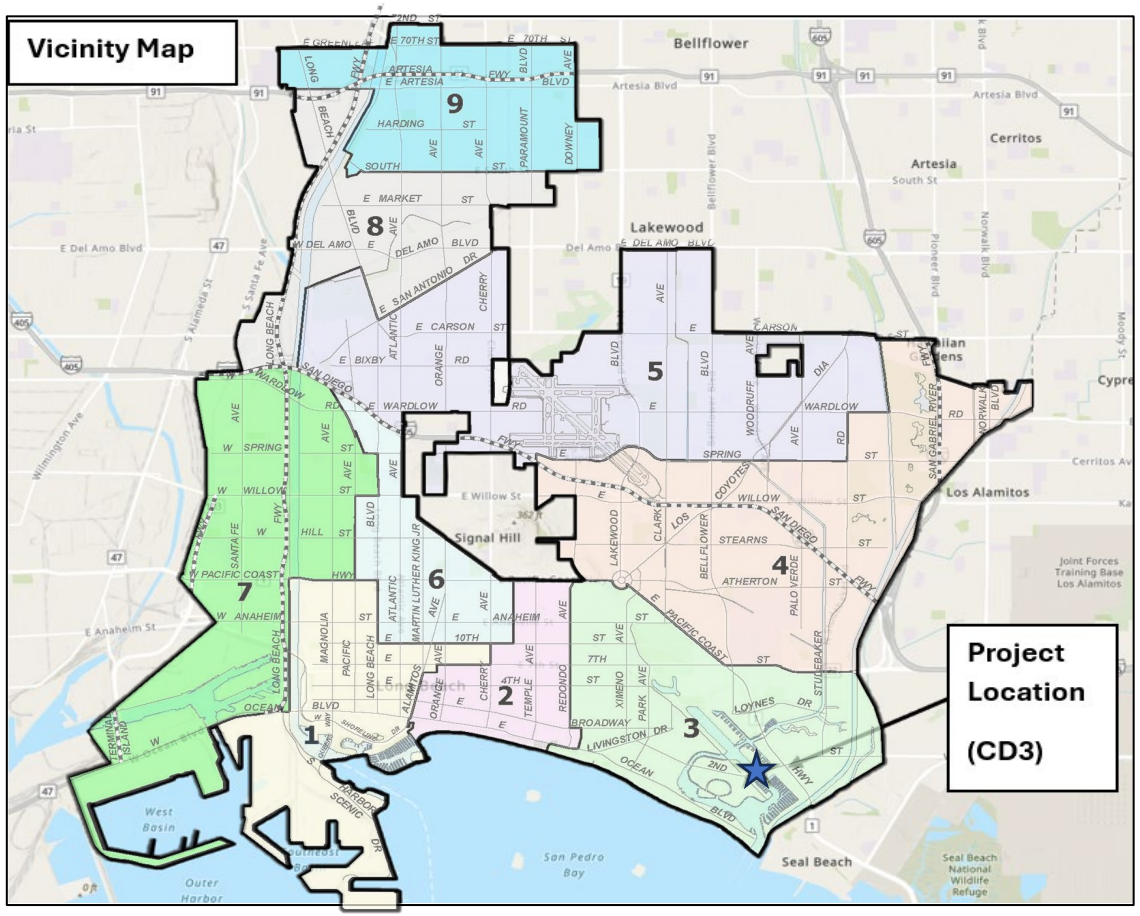
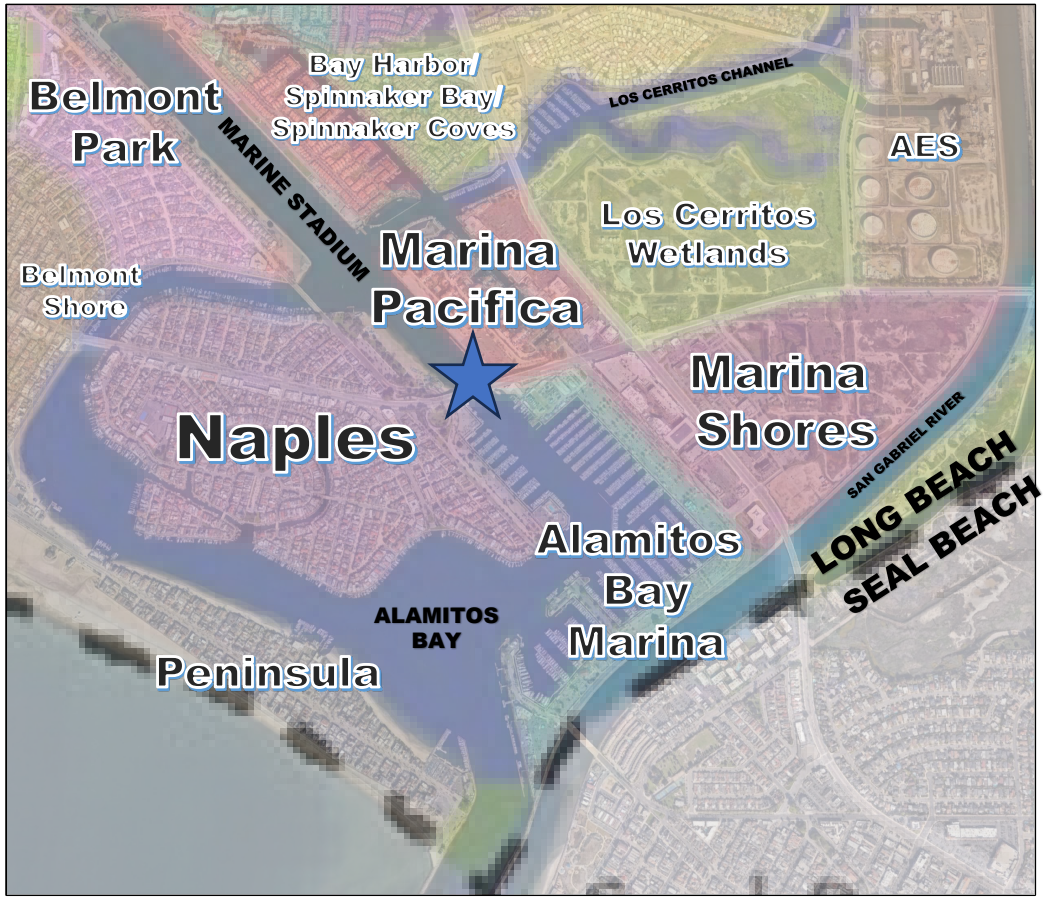
2ND STREET BRIDGE DECK REPLACEMENT PROJECT

Eric Lopez
Director, Public Works

City Council Presentation
February 18, 2025

Project Overview





Bridge History

1956

John H. Davies Bridge (2nd Street Bridge) constructed

1959

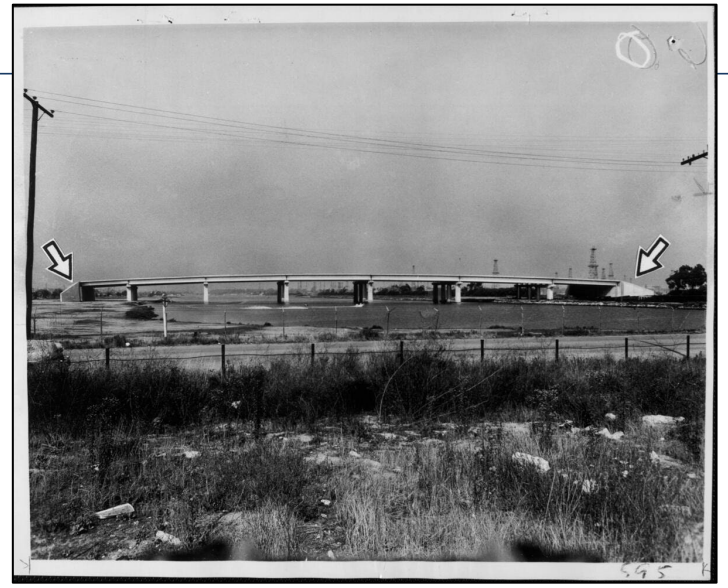
Bridge open to traffic once approaches were completed

1998

Seismic retrofits completed

2025

Critical repairs required



Bridge completed. Pending construction of roadway approaches.

Opening Day Parade

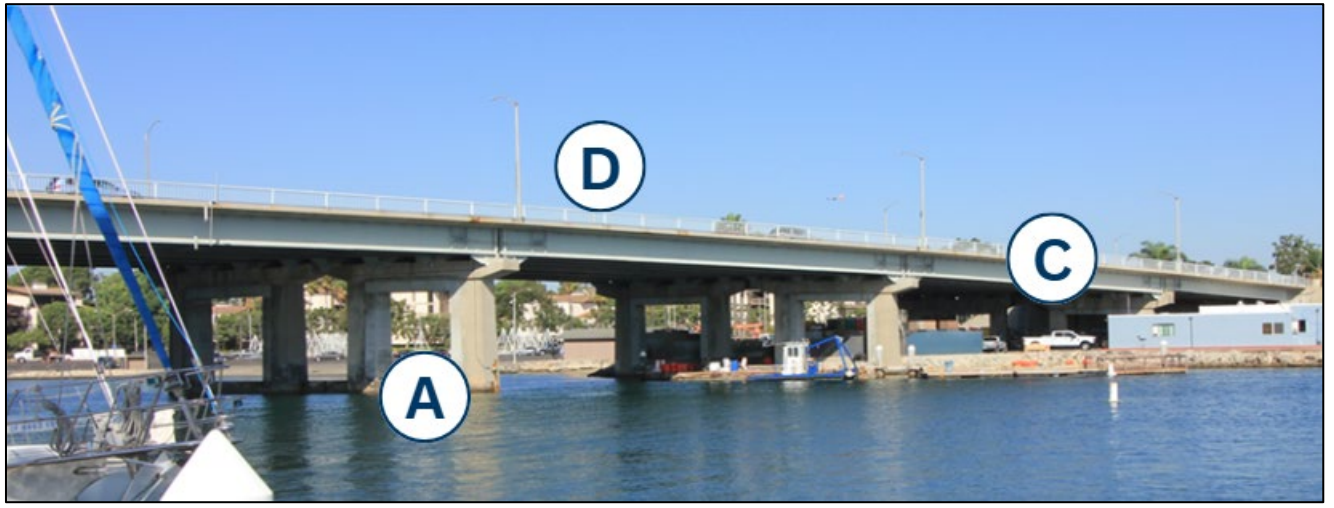
Bridge Structure

A Reinforced Concrete Piles, Footing, Piers, & Cap Girders

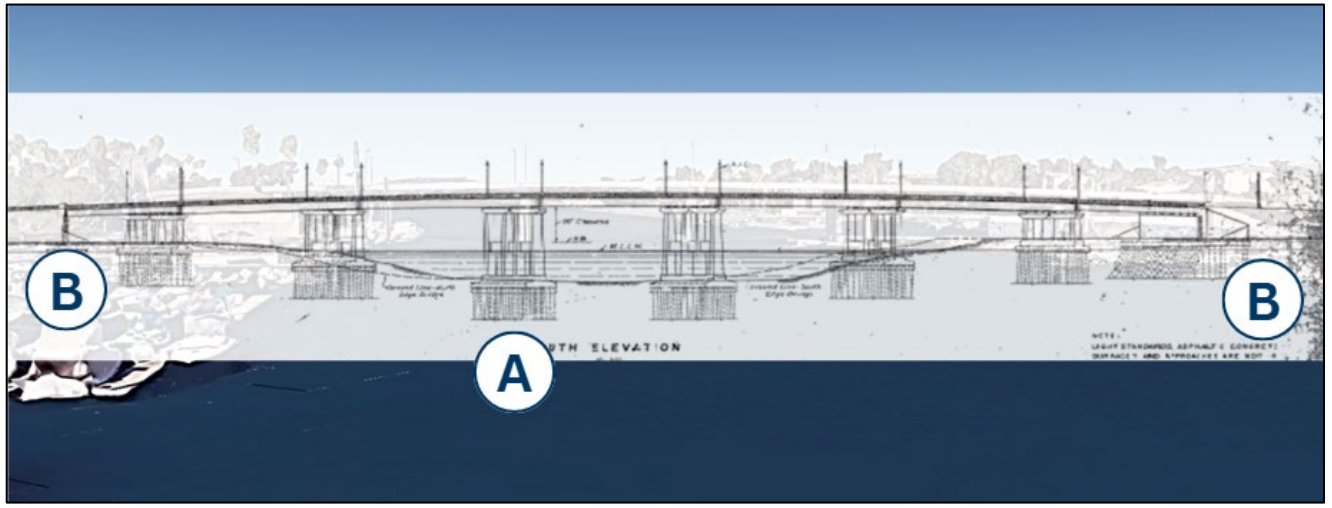
B Reinforced Concrete Abutments & Wing Walls

C Welded Steel Girder Superstructure

D Concrete Bridge Deck



Photograph of 2nd Street Bridge



Photograph of 2nd Street Bridge with structure superimposed

Bridge Structure

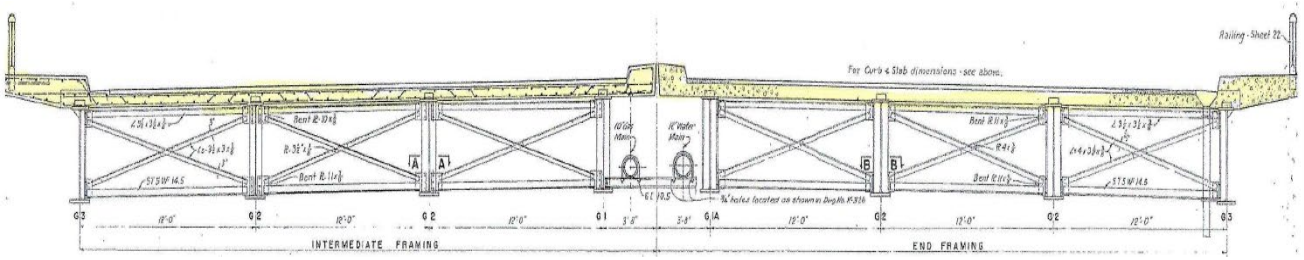
2017 Bridge Inspection

Bridge Inspection Report (BIR) conducted by LA County rated the bridge *"Structurally Deficient"* primarily due to the bridge deck condition.

2019 Material Testing

Material testing of the deck concrete in 2019 supported the BIR finding, resulting in the recommendation to replace the span of the concrete bridge deck as a permanent solution.

Bridge deck inspection photograph.



Detail cross-section of bridge. Deck is highlighted in yellow.

Project Highlights

Replace Bridge Concrete Deck

- Extends life of bridge

Build Safety Barrier

- Improves safety for all users

Install New Light Poles

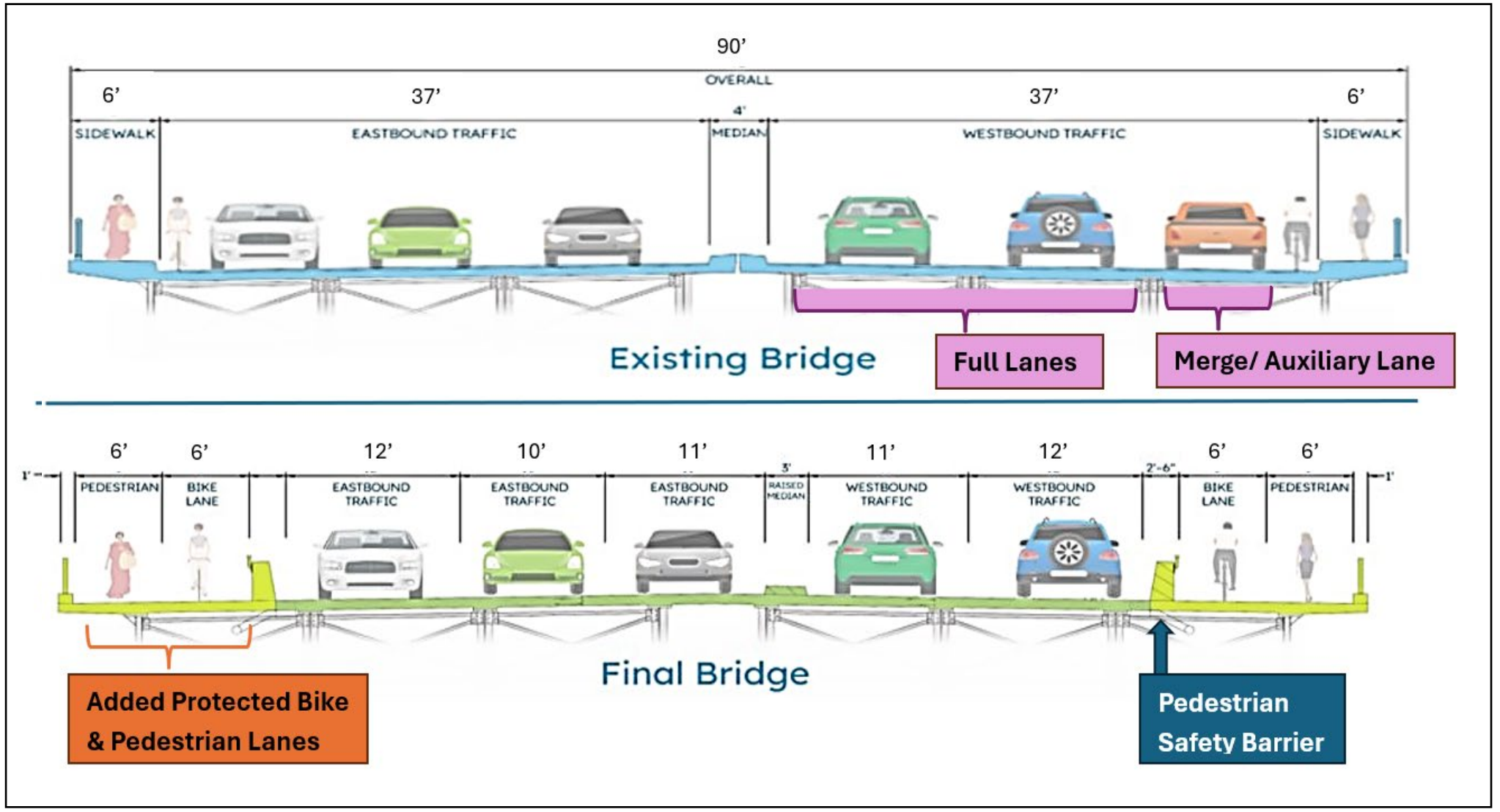
- Enhances visibility and safety

Incorporate protected bike lanes

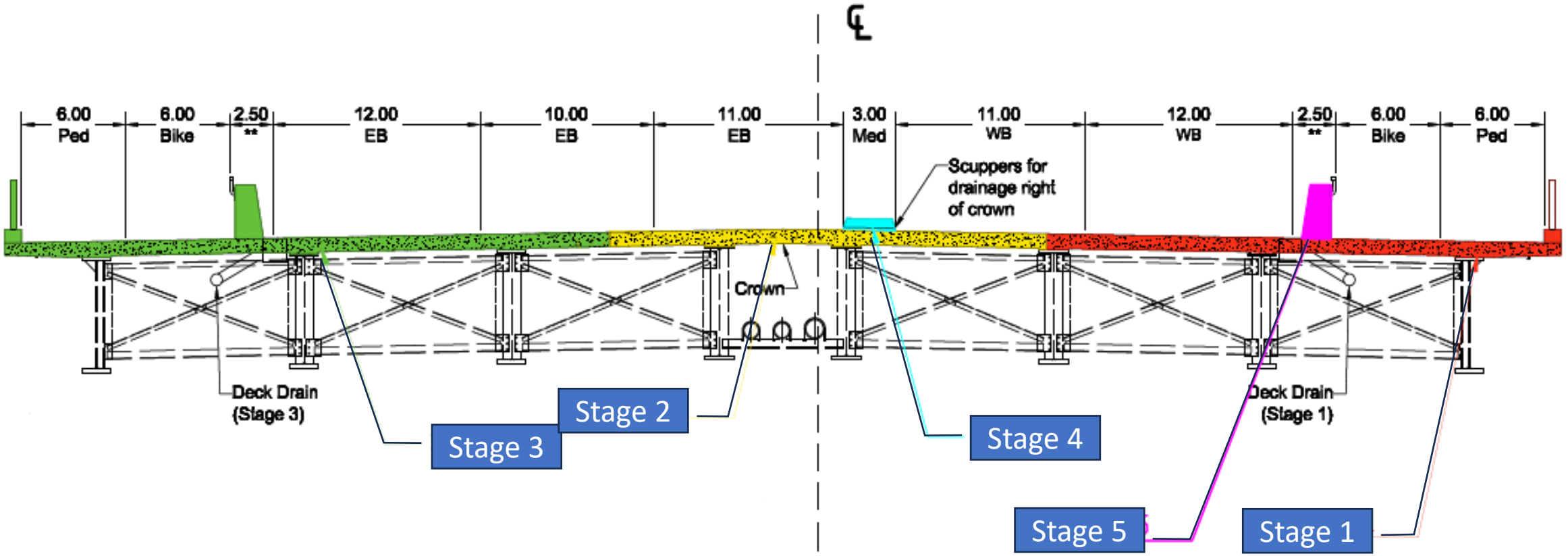
Reconfigure traffic lanes

- Improves circulation and mobility

Roadway Configuration



Conceptual Construction Staging



Project Grant Funding

Federal Highway Bridge Program (HBP)

- HBP is funded by Federal Highway Administration (FHWA) Administered through Caltrans
- Local Agencies request funds for Bridge Replacement, Rehabilitation, Retrofitting, Preservation, Protection, and other Safety Related Projects

Bridge Highway Local System (BHLS)

- BHLS is a funding mechanism within HBP which focuses on local bridges and roads
- Prioritizes aging or deficient bridges

2nd Street Bridge's "structurally deficient" rating, mobility enhancements, and significant connection of communities qualified the project

Project Budget

Preliminary Estimate - $20.4M*

Funding Source	Environmental (Past)	Design (Present)	Construction* (Future)	TOTAL
HBP-BHLS Grant	$531,180	$1,239,420	$16,074,835*	$17,845,435*
Measure A (Public Works Capital Projects Fund)	$98,820	$138,582		$237,402
Measure A (Bond - Local Match)		$229,400	$2,082,665*	$2,312,065*
TOTAL	**$630,000**	**$1,607,402**	**$18,157,500***	**$20,394,902***

*The project budget/costs is subject to change as the design develops and may be influenced by external factors.

Project Timeline

Environmental

- In 2024, Project obtained National Environmental Policy Act (NEPA) Categorically Exclusion & California Environmental Quality Act (CEQA) Notice of Exemption clearances

Design

- January 2025, Caltrans approved an additional $1,239,420 for this Design Phase and programmed an additional $9,584,460 for the Construction Phase
- February 2025, Staff requests Council Action to amend Kleinfelder Contract and appropriate Grant Funds
- March 2025, Begin Detailed Design and Permitting Phase

Construction

- September 2026, Target to begin construction
- Jan 2028, Target to complete construction

Thank You!

Eric Lopez, Director of Public Works

Eric.Lopez@longbeach.gov | (562) 570-5690

Keith Hoey, City Engineer

Keith.Hoey@longbeach.gov | (562) 570-6383

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