SANTA MONICA PIER BRIDGE REPLACEMENT

OUR MISSION STATEMENT

- Improve and Enhance Pier Bridge Experience
- Partner with City and Stakeholders
- Balanced Solution
  - Pier Visioning
  - Funding Requirements

T.Y. Lin International

- Founded in 1954
- Over 200 California Bridge Projects
- Over 50 Federal Highway Bridge Program (HBP) Projects in California

AGENDA

PROJECT DESCRIPTION

PURPOSE OF PROJECT

SITE ANALYSIS

CONSTRAINTS

PUBLIC PROCESS

NEXT STEPS

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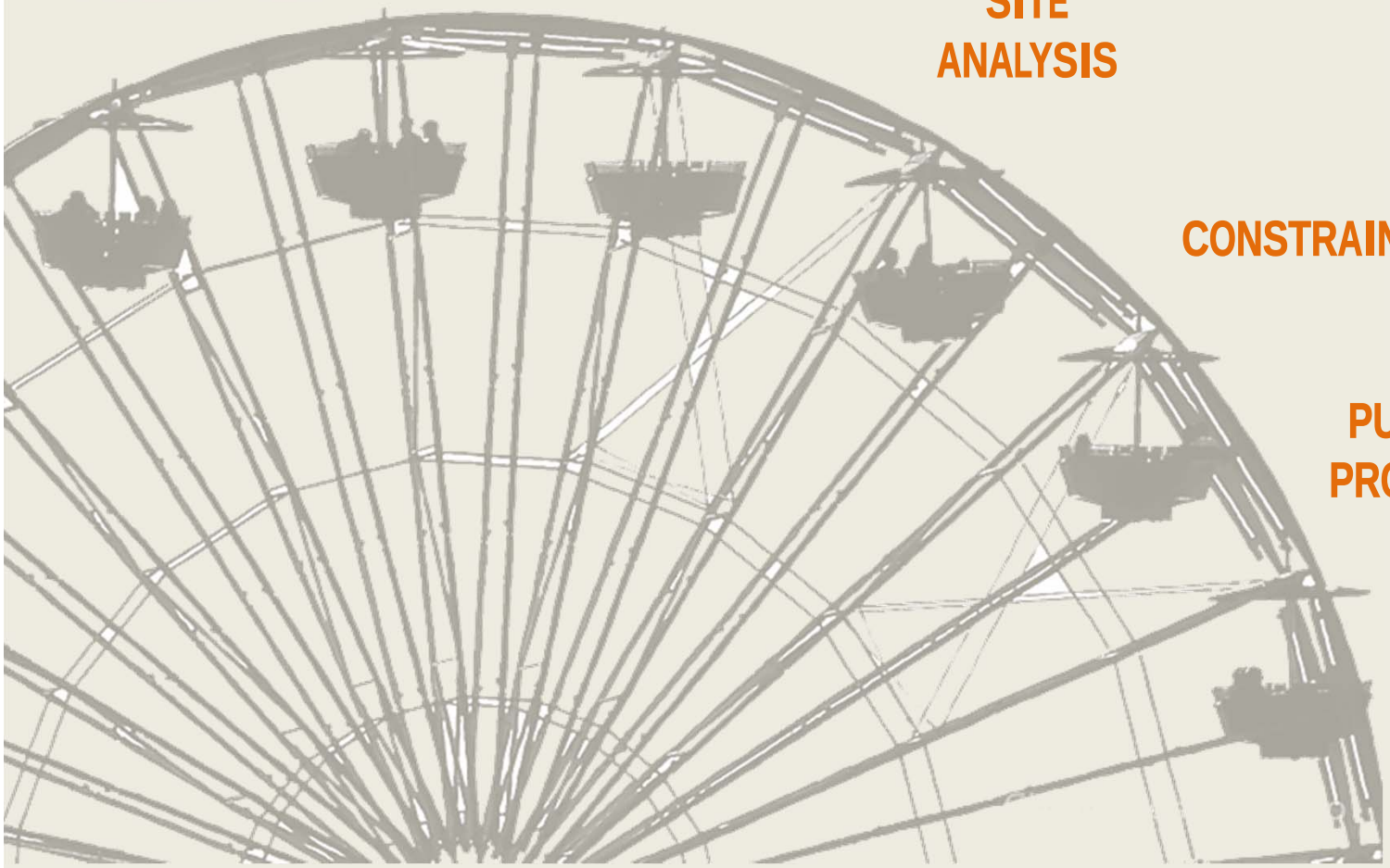


PROJECT DESCRIPTION – PIER HISTORY

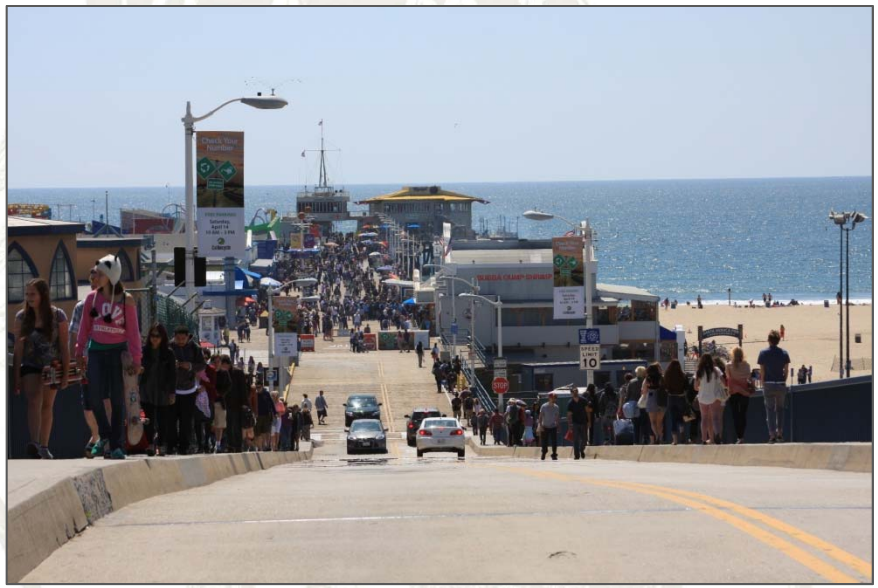
- **1909** – PIER STARTS AS PUBLIC UTILITY
- **1919** – PIER BECOMES TOP ATTRACTION THANKS TO LOOFF HIPPODROME
- **1939** – PIER BRIDGE BUILT
- **1973** – SAVING SANTA MONICA PIER
- **1983** – REBUILDING THE PIER
- **1995** – TYLI PARTNERS WITH CITY
- **2017** – PIER BRIDGE REPLACEMENT

PROJECT DESCRIPTION

- Prior Work
  - Beach Improvement Group Studies
  - 2006 Santa Monica Pier DEIR
    - ✓ Six Alternatives Studied
    - ✓ Retrofit/Rehab vs. Replacement
  - Many Studies!

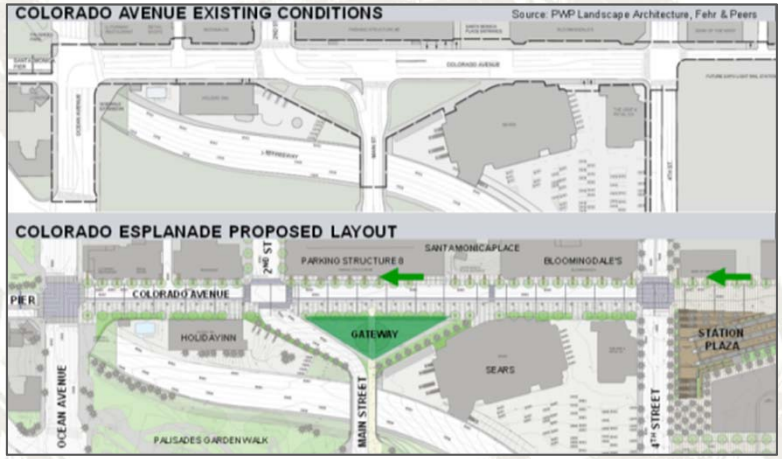
PROJECT DESCRIPTION

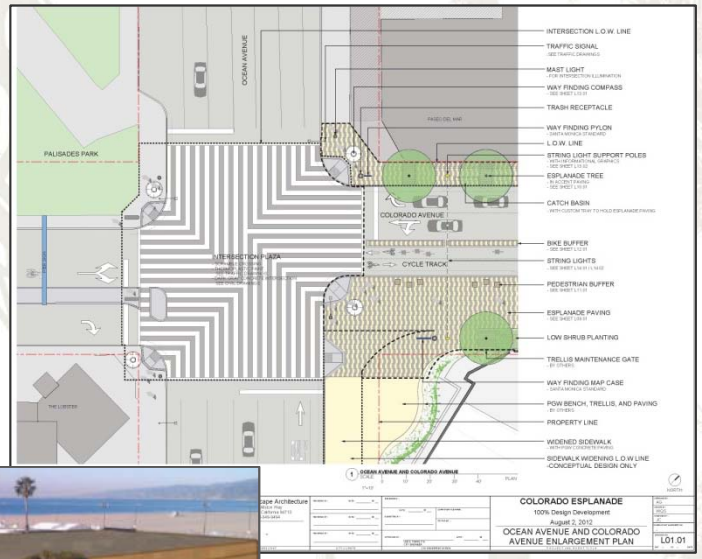
- Setting
  - Iconic Location
  - World Class Destination
  - Community Asset

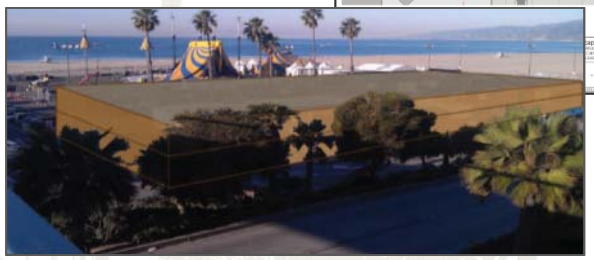


PROJECT DESCRIPTION

- Looking to the Future
  - Colorado Esplanade
    - ✓ Lane Configuration
  - Expo Light Rail
  - Palisades Garden Walk
  - Pedestrian Action Plan
    - ✓ Enhance the Pedestrian Experience
  - Pier Visioning







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PURPOSE OF PROJECT

- Improve Structural Safety
  - Replace Structurally Deficient and Functionally Obsolete Vehicular Bridge
  - Design Bridge for Standard Loadings
    - ✓ Current Seismic Design Criteria (Caltrans)

PURPOSE OF PROJECT

- Improve Functionality
  - Provide ADA Access From Ocean Ave to Pier
- Improve Pedestrian, Bike, Vehicle Safety
  - Standard Traffic Lanes/Shoulders
  - Bike Lanes
  - Wider Sidewalks

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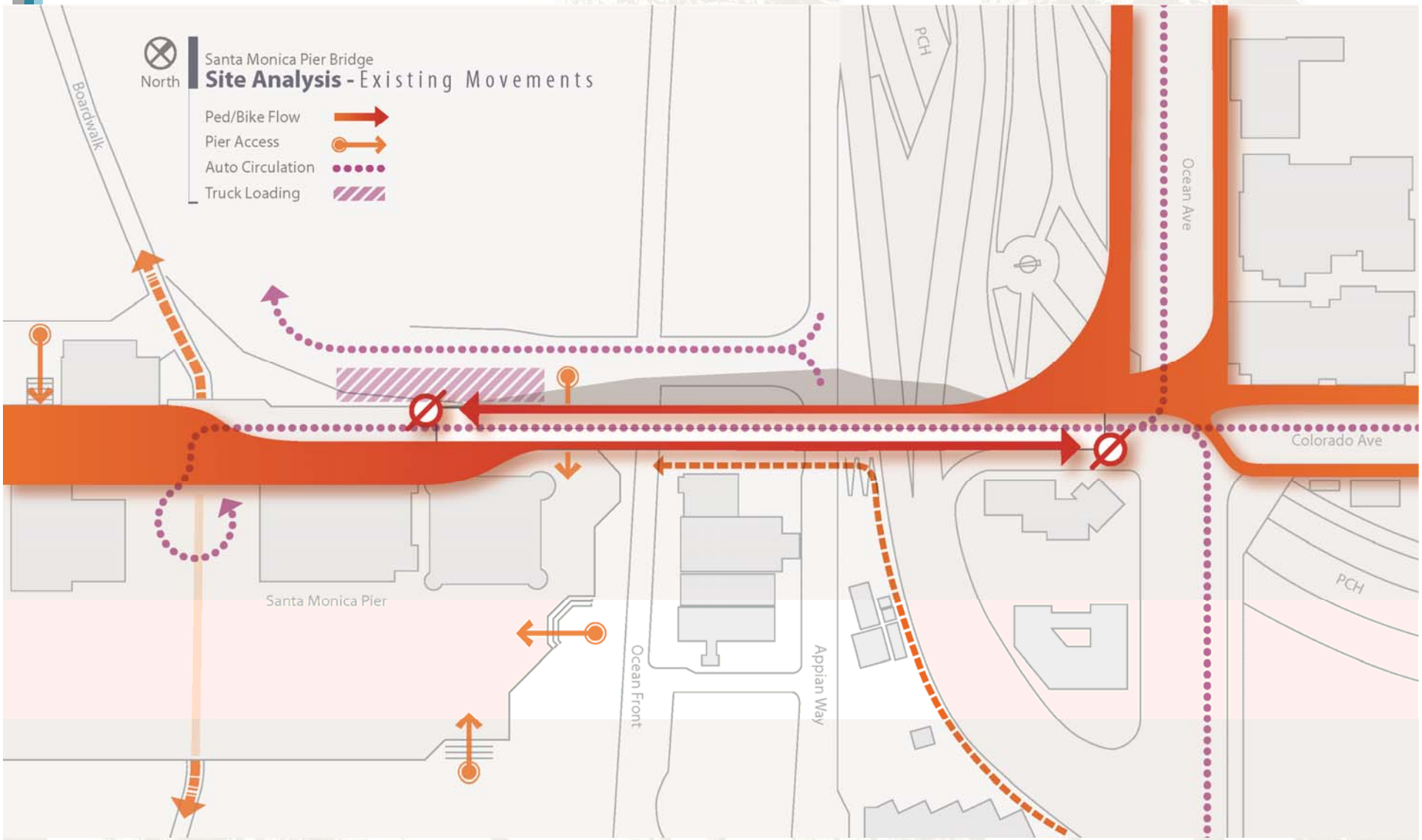
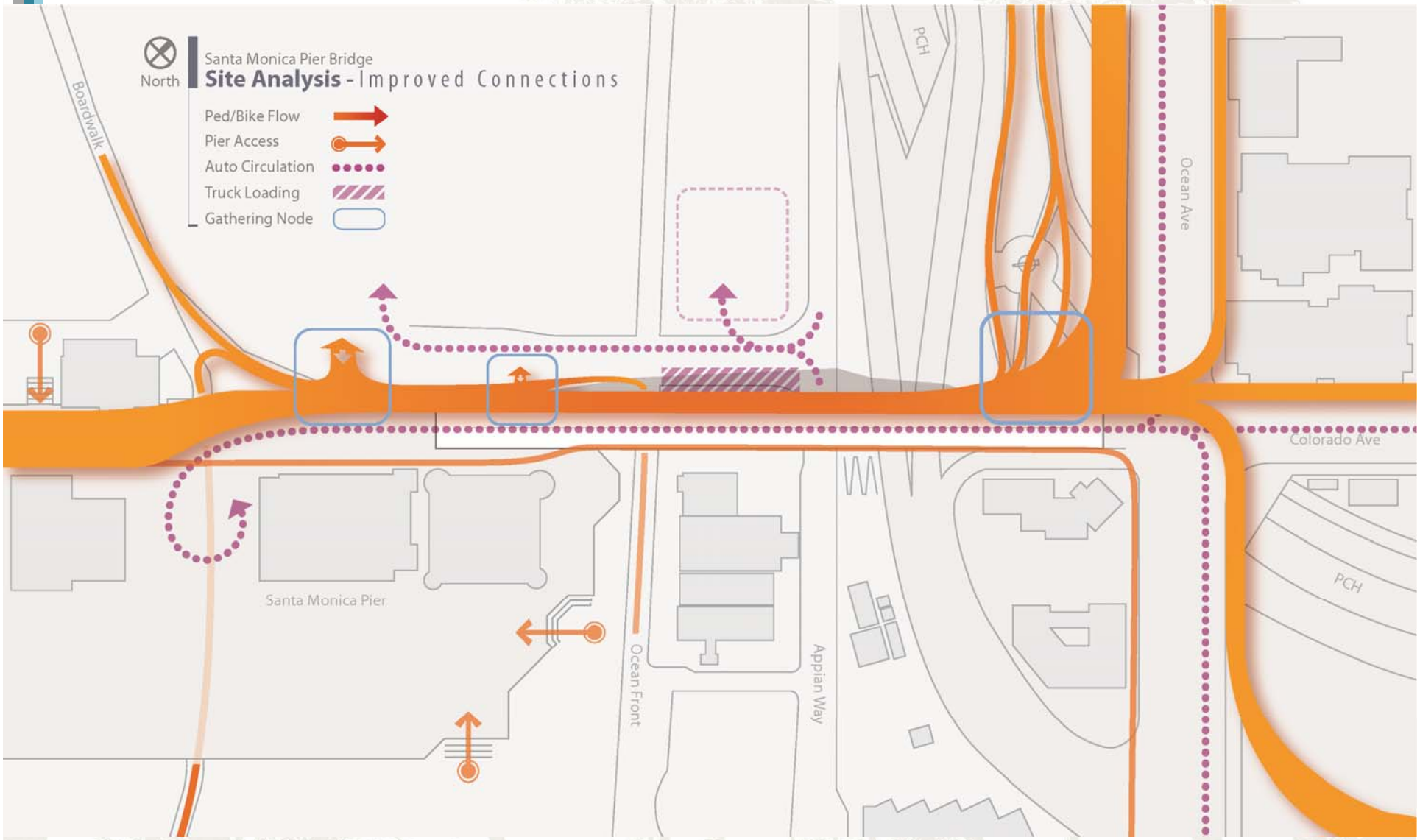


SITE ANALYSIS



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CONSTRAINTS

- Federal Funding Requirements
- Geometric
- Clearance
- Environmental
- Existing Facilities
- Construction Impacts

CONSTRAINTS – Federal Funding

U.S. Department of Transportation
Federal Highway Administration

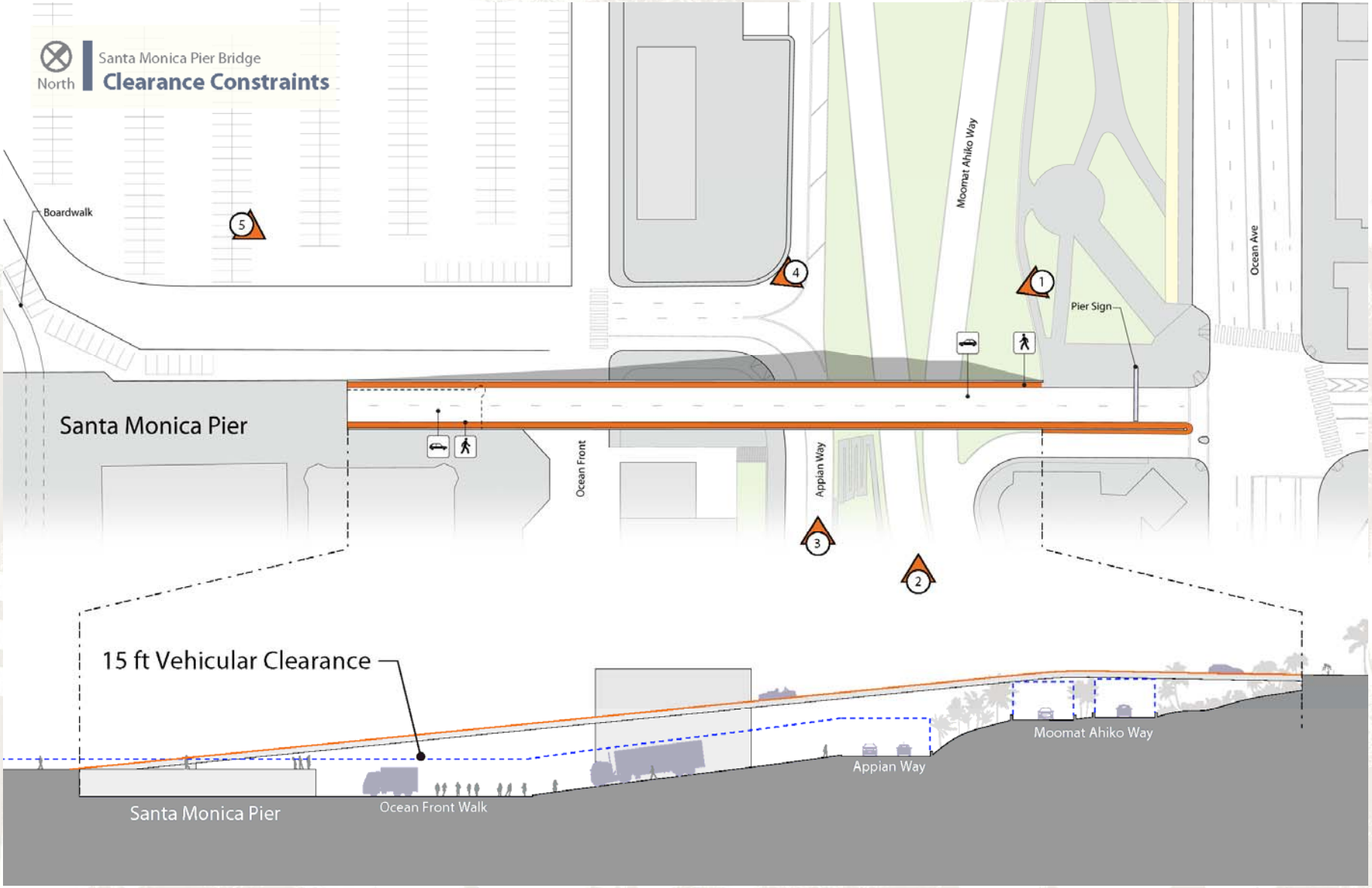
- Federal Funding Requirements
  - Bridge Replacement and Limited Approach Roadway
  - Approved NEPA Document Prior to Final Design
  - 100% Funded (Toll Credits)
  - Funds Must Be Used by FY 2015/2016
  - Architectural Enhancements Typically Limited to 5% of Project Cost

CONSTRAINTS – Geometric

- Geometric
  - Existing Bridge Profile over 10%
    - ✓ Need to lengthen the Pedestrian Path or provide elevator

  - Limited Vertical Clearance over Moomat Ahiko Way
    - ✓ Must maintain 15 feet vertical clearance

CONSTRAINTS – Clearance



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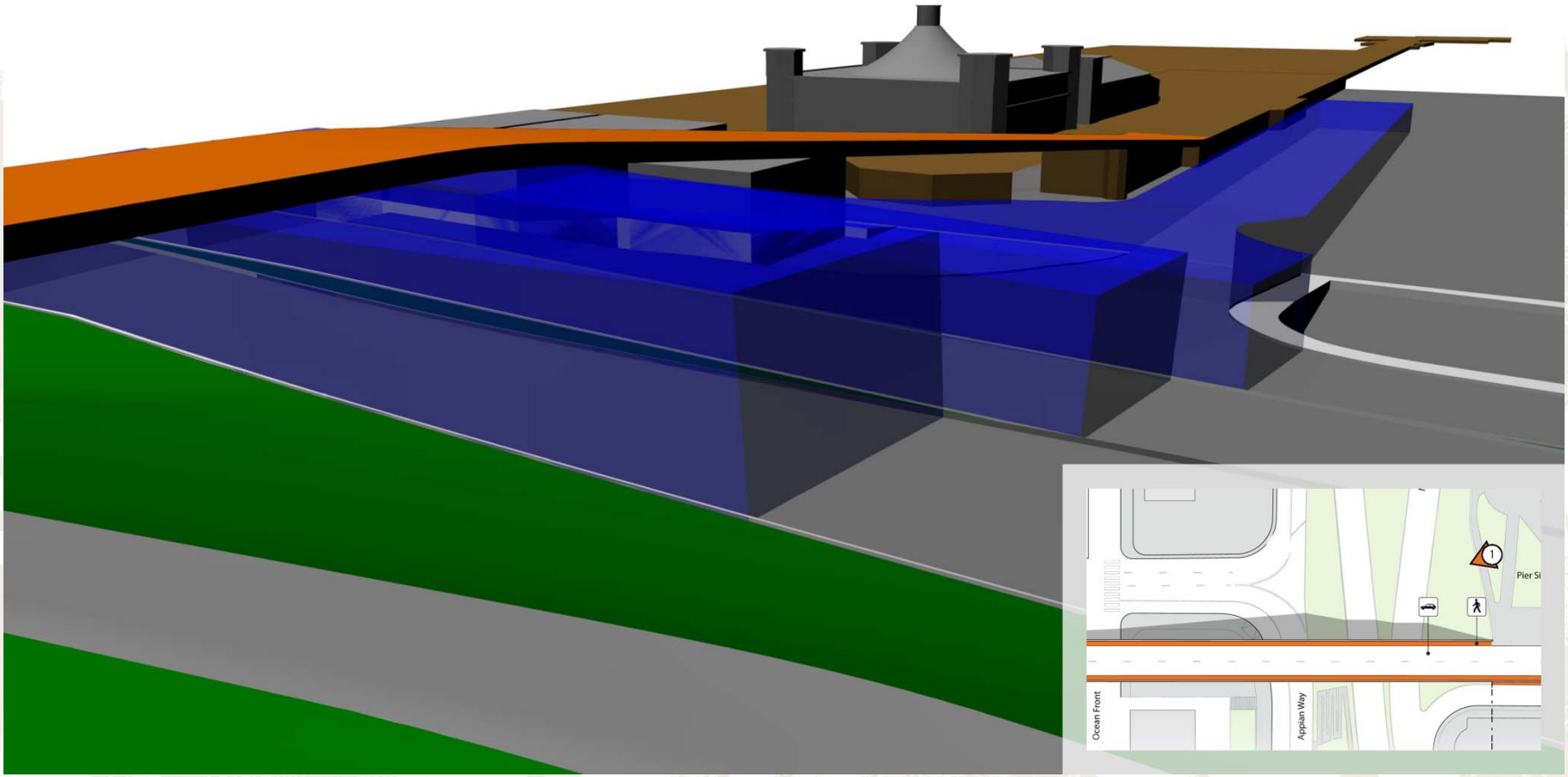

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CONSTRAINTS – Clearance

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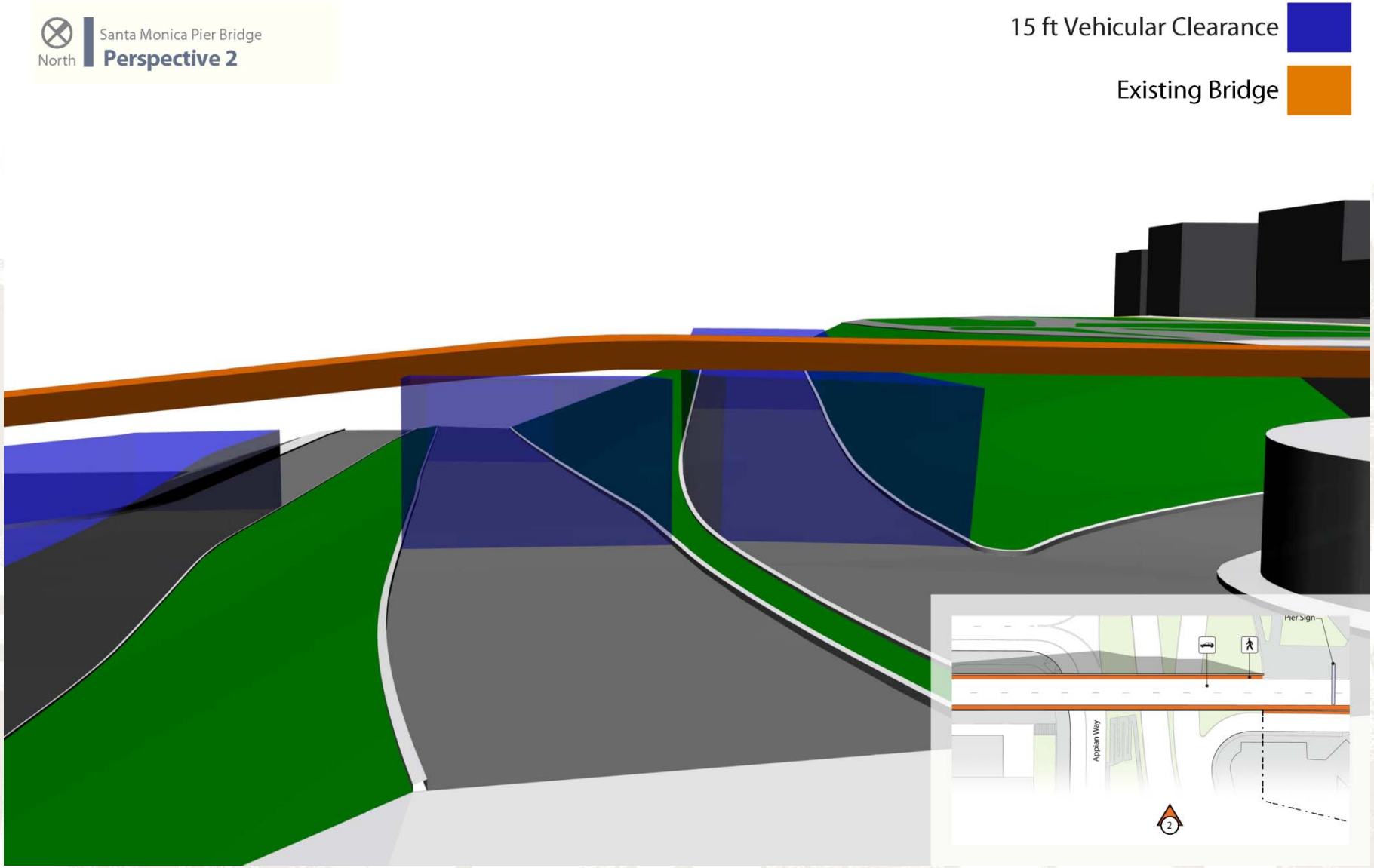

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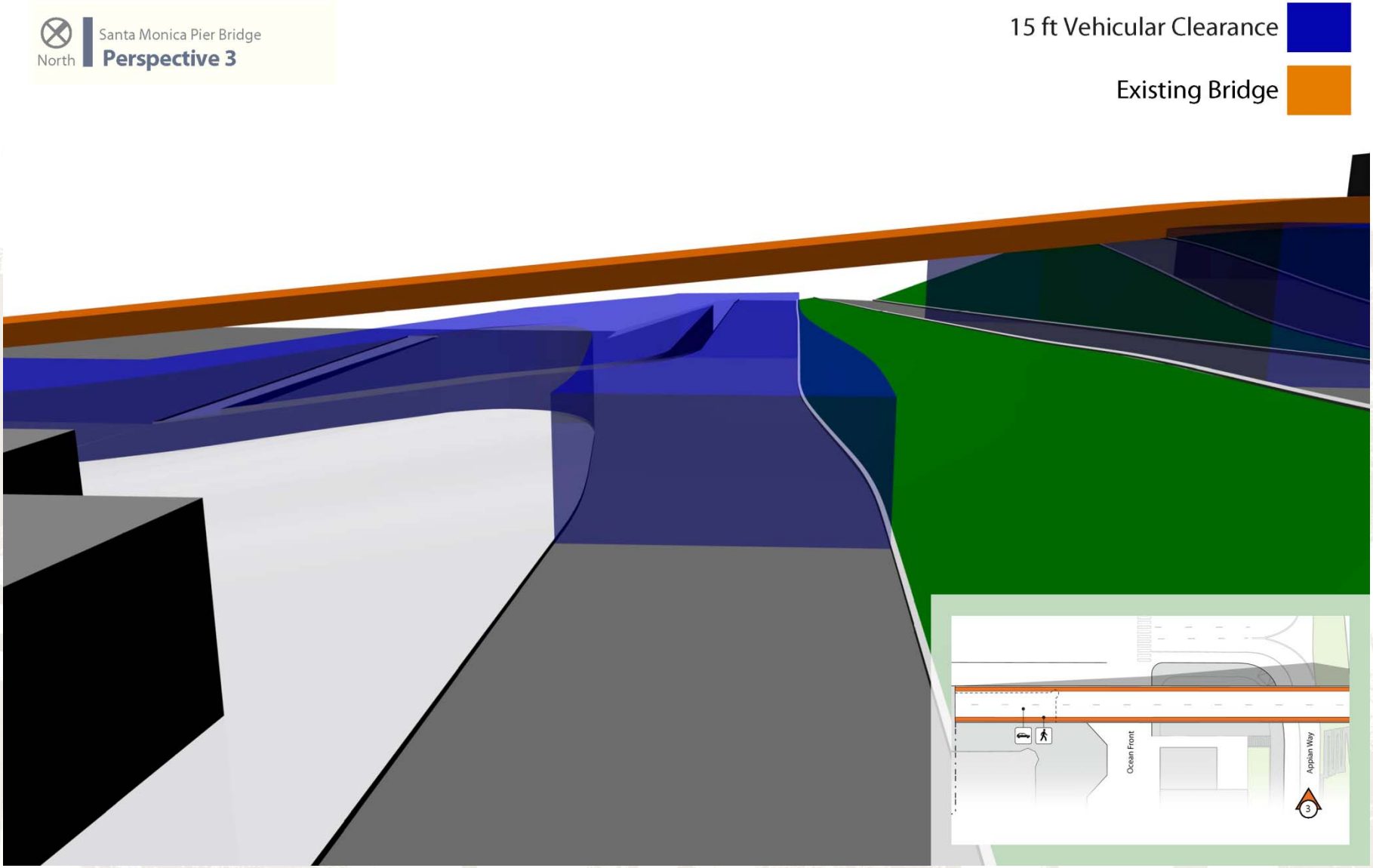

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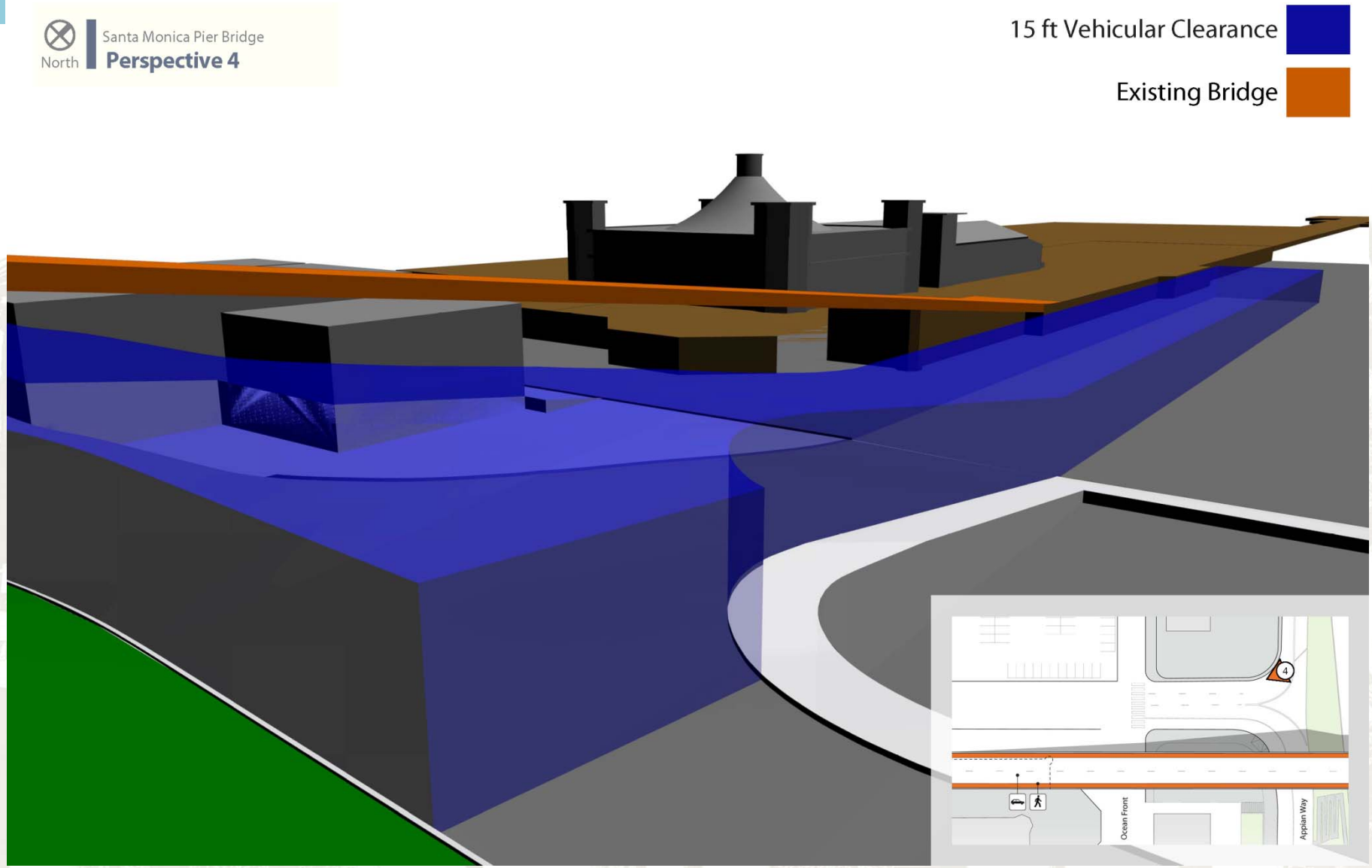

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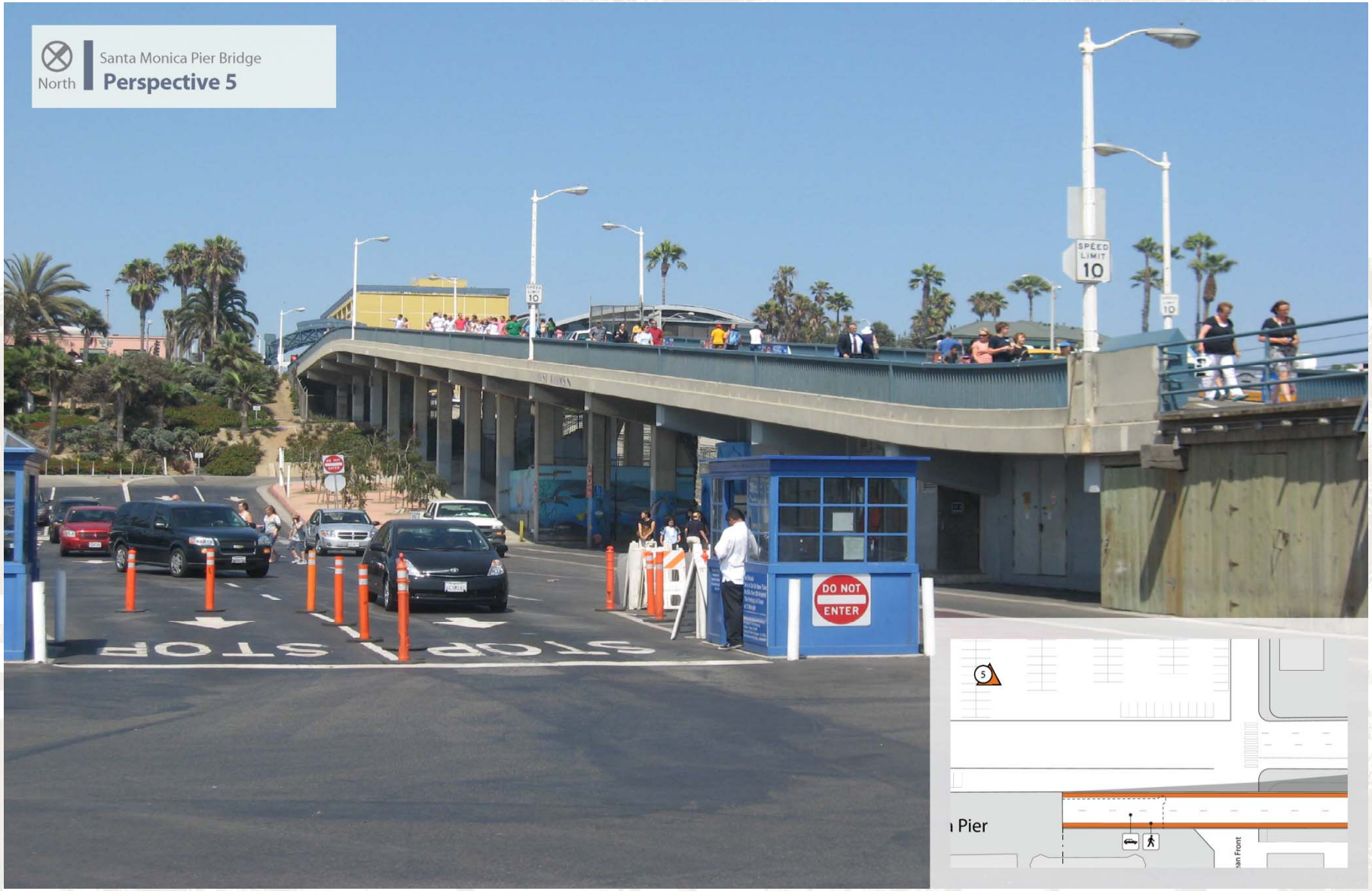

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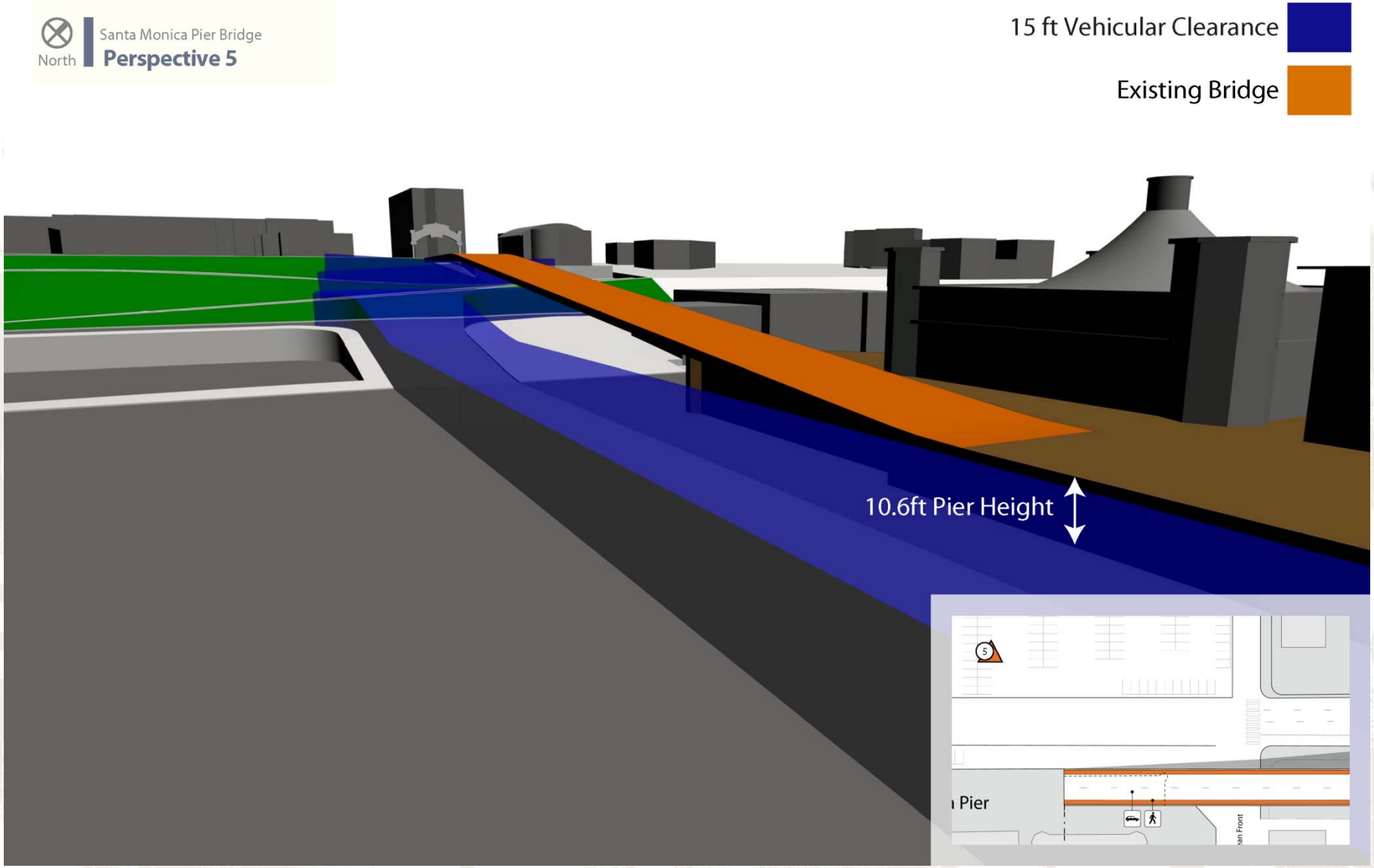

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CONSTRAINTS – Environmental

- Environmental
  - Federal Funding - CEQA/NEPA document
  - Historic Resources (e.g. Pier Sign, Pier, Hippodrome)
  - Parklands (Palisades Park)
  - Construction Impacts
    - ✓ Residents
    - ✓ Pier Businesses
    - ✓ Parking/Access

CONSTRAINTS – Existing Facilities

- Existing Facilities
  - Significant Utility Relocations
    - ✓ Restrooms
    - ✓ Electrical/Generator
  - Impacts to Pier Businesses
    - ✓ Maintaining Services
    - ✓ Aquarium Impacts
    - ✓ Parking/Access

CONSTRAINTS – Construction Impacts

- Construction Impacts
  - Bridge Removal
    - ✓ RFQ Requires Staged Construction - One Lane Open
    - ✓ Partial Bridge Retrofitting Evaluation - Caltrans Guidelines
  - Staged vs. Shut Down Evaluation
    - ✓ Construct Temporary Bridge Ramp to Pier
    - ✓ Replace Entire Bridge – Save Time, Money, Schedule

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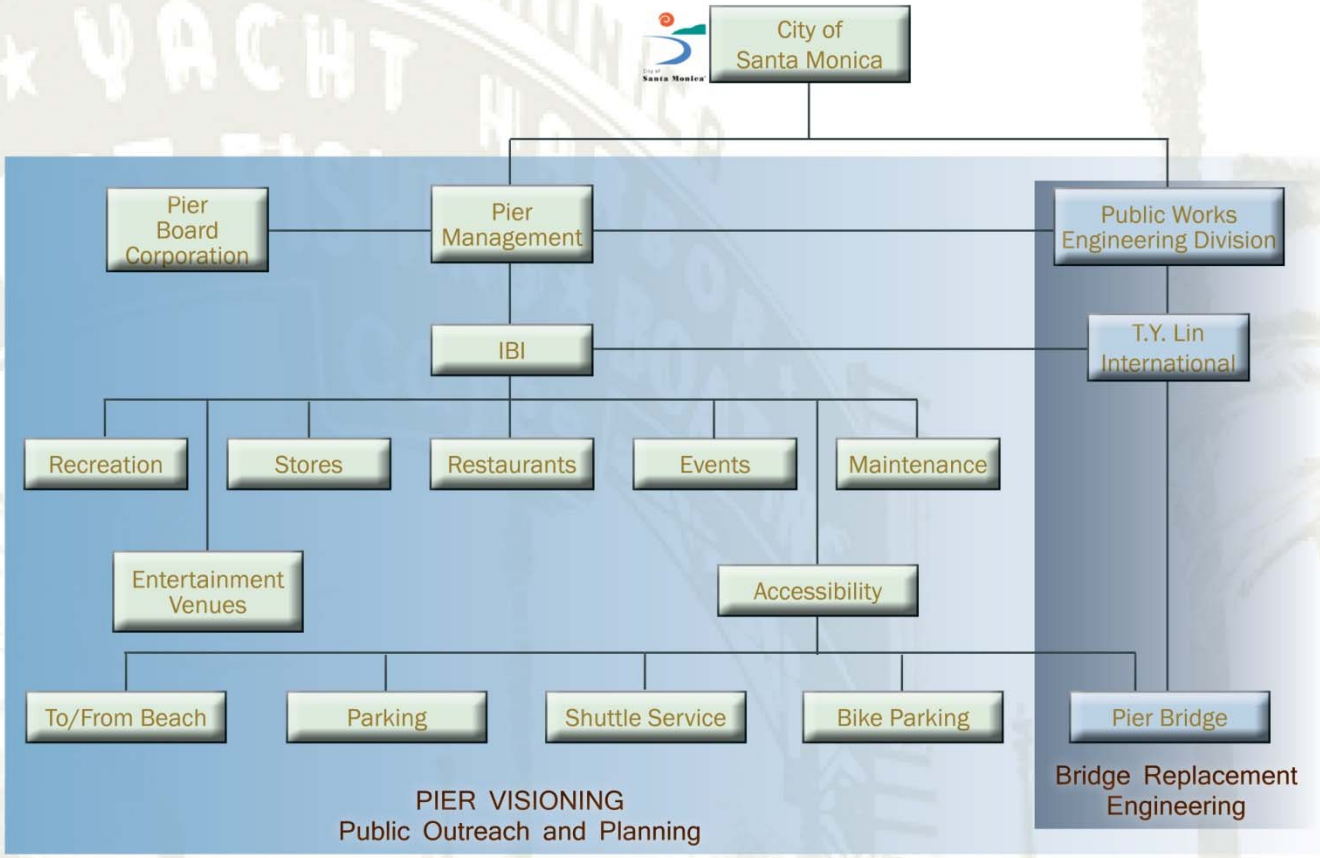
PUBLIC PROCESS

- Early Public Engagement
  - Pier Board
  - Landmarks Commission
  - Community Stakeholders
    - ✓ Pier Visioning
- Online and Onsite Surveys
- Public Workshops & Meetings

PUBLIC PROCESS



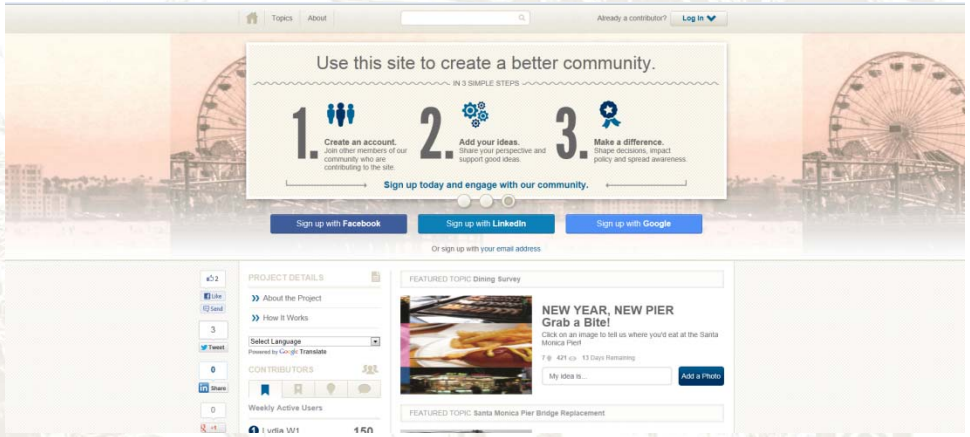
PUBLIC PROCESS

- Project Workshops
  - Innovative Technique to Expedite Consensus
  - Documents Decisions/Backup for HBP Justification
  - Allows for Comprehensive and Balanced Solution
  - Proven on Recent Caltrans Projects

Workshop #1 Define the Criteria → Workshop #2 Define the Alternatives → Workshop #3 Evaluate the Alternatives

PUBLIC PROCESS - Websites

- www.smconstructs.org/smpierbridge
- Facebook
- www.Facebook.com/SMConstructs
- Twitter www.Twitter.com/SMConstructs
- http://pier.santamonicatownhall.org/



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NEXT STEPS

- Evaluate Input from Stakeholders and Community
- Establish Environmental Framework for NEPA
- Develop Bridge Concepts
- Present Concepts

NEXT STEPS

PROJECT SCHEDULE	
Concept Selection	May 2013
Environmental Document	January 2015
Final Design	April 2016
Bid/Award	August 2016
Start Construction	September 2016