I-5 Improvements in North County

American Council of Engineering Companies

November 13th, 2019
Project Overview

- 13.6 miles of median widening for HOV lane, outside widening for Auxiliary Lanes and to accommodate standard typical section
- Widening undercrossings at 7 locations
- Removal and replacement of Weldon Canyon OC
- 44,760 LF of Retaining Walls
- 12,770 LF of Sound Walls. All sound walls along the freeway
Project Limits

- HOV Improvements from SR-14 to Parker Road
- ITS Improvements from I-405 to I-210
Overview of Improvements from SR-14 to Butte Canyon
Overview of Improvements
from McBean Pkwy to Rye Canyon Rd
Overview of Improvements from Rye Canyon Ramps to Parker Rd

North
Typical Section
Existing Narrow Median

SOUTHBOUND

NORTHBOUND
Typical Section
Existing Wide Median

ROUTE 5 CENTERLINE

SOUTHBOUND

NORTHBOUND
I-5 Lane Configuration

- SBS to NB14 PM:45.6
  - EXIST 1 HOV + 3GP → 3GP
  - PROP 1 HOV + 3GP

- SBS Truck PM:46.3
  - 4GP

- Gavin Canyon PM:47.8
  - 4GP + 1 Truck

- Calgrove PM:49.0
  - 4GP + 1 Truck

- Pico/Lyons PM:50.3
  - 4GP

- McBean PM:51.44
  - 4GP

- Valencia PM:52.47
  - 4GP

- Magic Mountain PM:53.57
  - 4GP

- SB14 to NBS PM:45.9
  - EXIST 1 HOV + 3GP → 3GP
  - PROP 1 HOV + 3GP

- NBS Truck PM:46.5
  - 3GP

- Rye Canyon/Truck Scales PM:54.17
  - 4GP

- Newhall Ranch PM:55.28
  - 4GP + 1 Aux (P)

- Biscailuz PM:56.12
  - 4GP + 1 Aux

- Hasley Canyon PM:56.60
  - 4GP

- Parker PM:59.01
  - 4GP

See Below Left

See Above Right

SOUTHBOUND

NORTHBOUND

I-5
I-5 at Rye Canyon Rd (Existing)
I-5 at Rye Canyon Rd (Proposed)
I-5 at McBean Pkwy
Looking North (Existing)
I-5 at McBean Pkwy
Looking North (Proposed)
Existing Aesthetics

Barrier Aesthetics
Existing Aesthetics
Retaining Wall Aesthetics
PIF – Public Interest Finding for Transparent Panels.
Special Design for 2 Sound Walls 20’ High, and 18’ High – both with 4’ high transparent panels

Sound Walls
Sound Walls
Sound Walls
Sound Walls
ITS/ Ramp Metering/ Staging / ROW / Utilities/ Permits
ITS/ Hub Building

- Communication Hub Building at the I-5/I-405 Interchange
- Back Office Work at TMC
- Fiber Optics
- For I-405 to I-210 New Fiber in Existing Conduits
- Count Stations
- CCTV
- Extinguishable Message Signs
- Weigh in Motion Stations
Lighting

Median Lighting at HOV Ingress/Egress Locations
General Stage Construction Concept

- Widen outside first in Segment 1 (since median is already constructed)
- Widen in median area first in Segments 2 & 3
- Bridge widening done with roadway widening
- TMP for Detours
Freeway Closures

• Entire Freeway: Weldon Canyon Bridge Demolition and Falsework Erection/Removal
• SB Freeway for Lowering at Lyons Ave/Pico Canyon
• NB or SB Freeway for Existing OH Sign Bridge Structure Removal and New OH Sign Bridge Construction
<table>
<thead>
<tr>
<th>No.</th>
<th>CALTRANS CPN</th>
<th>APN</th>
<th>OWNERSHIP</th>
<th>TCE AREA (SQ. FT.)</th>
<th>PERM ESMT. AREA (SQ. FT.)</th>
<th>FEE ACQ AREA (SQ. FT.)</th>
<th>Type of Business/Use</th>
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<td>80856-1</td>
<td>2861-071-009</td>
<td>Excel Buena Park, LP</td>
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<td>Falstrom Family Trust et al</td>
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<td>Sunvair Inc./Landing Gear Overhaul</td>
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<td>967</td>
<td>767</td>
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<td>2826-005-801</td>
<td>Pacific Bell</td>
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<td>Existing Industrial Building- owned by Pacific Bell</td>
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<td>County of Los Angeles</td>
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<td>Hotel under construction</td>
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## Utility Relocations

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<tr>
<th>Owner</th>
<th>Disposition</th>
<th>Utility</th>
<th>Location</th>
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<tr>
<td>AT&amp;T</td>
<td>Relocate</td>
<td>Buried Communications Conduits</td>
<td>Weldon Canyon Rd.</td>
<td>U-6</td>
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<td>SCE</td>
<td>Relocate</td>
<td>Power Poles, OH wires, &amp; Utility Vault</td>
<td>At Weldon Canyon Rd.</td>
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<tr>
<td>SCE</td>
<td>Relocate</td>
<td>Street Lights &amp; Poles</td>
<td>The Old Road</td>
<td>U-12</td>
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<tr>
<td>AT&amp;T</td>
<td>Relocate</td>
<td>OH Communications</td>
<td>South of I-5 and the Old Road</td>
<td>U-12</td>
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<tr>
<td>AT&amp;T</td>
<td>Relocate</td>
<td>Buried Communication Cable</td>
<td>The Old Road</td>
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<tr>
<td>Verizon (wireless)</td>
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<td>OH Fiber Optic</td>
<td>The Old Road</td>
<td>U-12</td>
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<tr>
<td>Spectrum</td>
<td>Relocate</td>
<td>OH Fiber Optic</td>
<td>The Old Road</td>
<td>U-12</td>
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<tr>
<td>SCE</td>
<td>Relocate</td>
<td>Street Light Pole</td>
<td>The Old Road</td>
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<tr>
<td>SCG</td>
<td>Potential Relocation, pending Ut. Policy Exh. request</td>
<td>2&quot; Gas</td>
<td>Crossing I-5</td>
<td>U-21</td>
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<td>SCG</td>
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<td>Crossing I-5</td>
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<td>UG 16 kV Power</td>
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<td>Rye Canyon</td>
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<td>AT&amp;T</td>
<td>Relocate</td>
<td>Buried Comm. Conduits</td>
<td>Crossing I-5 near Biscailuz</td>
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<td>LA County</td>
<td>Relocate</td>
<td>12&quot; Water</td>
<td>Crossing I-5 at Castaic Creek</td>
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<td>CLWA</td>
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<td>24&quot; Water in 42&quot; Csg</td>
<td>Crossing I-5</td>
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<td>SCG</td>
<td>Potential Abandonment, pending Ut. Policy Exh. Request</td>
<td>4&quot; Gas</td>
<td>Crossing I-5</td>
<td>U-56</td>
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Environmental Permits

- United States Army Corps of Engineers Clean Water Act Section 404 Nationwide Permit 14
- Clean Water Act Section 401 Water Quality Certification.
- California Fish and Wildlife Code Section 1602 Lake or Streambed Alteration Notification
- Caltrans Statewide Stormwater Permit
Overview of Constructability Review Process

- Quantity Take-Offs – per Caltrans BEES Items
- Unit Costs reviewed vs. current bids
- Current Bidding Climate considerations
- Caltrans review, recommendations on unit costs
- Constructability Analysis
- Resource Driven Scheduling Analysis
- Implemented Quality Management Plan
Current Project Status

- Roadway Plans – pending resolution of ADL
- Structures Plans – Approved
- Permits
- Right of Way
- Utility Cert. Approved
- Env. Reval, ECR
- Supplemental Project Report
Milestone Schedule

- 35% Design: March 2017
- 65% Design: Dec. 2017
- 95% Design: June 2019
- 100% Design: November 2019
- RTL: May 2020
- Start of Construction: Fall 2020
- Construction Duration: 52 Months

Duration: 52 Months