

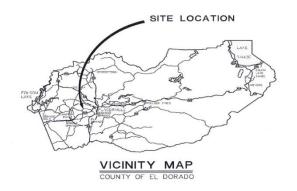
PUBLIC MEETING

PRESENTED BY:

County of El Dorado Community Development Agency Transportation Division

Matt Smeltzer, P.E.
Deputy Director, Engineering

Jon Balzer, P.E. Senior Civil Engineer





Green Valley Rd at Indian Creek Bridge



Green Valley Rd at Mound Springs Bridge



MEETING OVERVIEW

- 1. Welcome & Introduction
- 2. FHWA Highway Bridge Program Overview
- 3. Project Overview
- 4. Project Features
- 5. Schedule
- 6. Open Question & Discussion Period



HIGHWAY BRIDGE PROGRAM (HBP) OVERVIEW

- Safety program that provides federal-aid to local agencies to replace or rehabilitate deficient locally owned public highway bridges
- Program authorized by Federal Highway Administration (FHWA) & administered by State DOT's (CA – Caltrans)
- Up to 100% reimbursement for reconstruction or replacement of bridges on public roads off federal aid highways
- 11.47% local match required for "on-system" bridges
- Eligible Project Costs Preliminary Engineering, Right-of Way and Construction



BRIDGE INSPECTIONS / SUFFICIENCY RATINGS

- Each bridge is thoroughly inspected by Caltrans every two years and rated on 140 elements
- Given a Sufficiency Rating (SR) score of 0 to 100
- Rating is overall measure of the bridge condition and sufficiency to remain in service
- Used to determine eligibility for federal funds and prioritization



HBP FUNDING ELGIBILITY CRITERIA

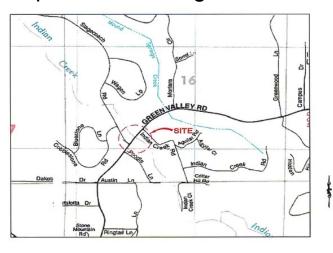
- SR ≤ 80 is eligible for **Rehabilitation**
- SR ≤ 50 is eligible for Replacement
- Must be rated either Structurally Deficient (SD) or Functionally Obsolete (FO).
- **SD**: Limitations of the structural condition of the bridge, such as weight limits or load capacity.
- **FO**: Built to standards that are not used today, such as inadequate lane widths, shoulder widths, or vertical clearances to serve current traffic demand.



GREEN VALLEY AT INDIAN CREEK BRIDGE

BACKGROUND

- •Bridge built in 1935
- •Narrow two lane (28.2 feet wide)
- \bullet SR = 68.1
- •Included in County's Capital Improvement Program





NOT TO SCALE



GREEN VALLEY AT INDIAN CREEK BRIDGE

EXISTING BRIDGE FACTS

- Built in 1935
- Widened in 1975
- Functionally obsolete
- Substandard barriers/railings
- · Deficient hydraulics
- Substandard approach roadway & geometrics
- Poor site distance at adjacent roadways
- Concrete is spalling on abutments

✓ Approved for Bridge Replacement

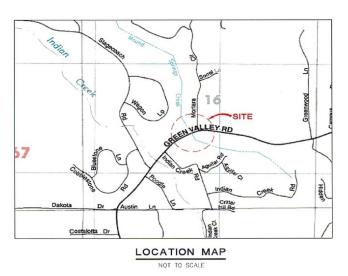






GREEN VALLEY RD AT MOUND SPRINGS BRIDGE BACKGROUND

- •Bridge built in 1935
- •Narrow two lane (22.3 feet wide)
- •SR = 68.1
- •Included in County's Capital Improvement Program







GREEN VALLEY RD AT MOUND SPRINGS BRIDGE

EXISTING BRIDGE FACTS

- Built in 1935
- Functionally obsolete
- Substandard barriers/railings
- Deficient hydraulics
- Substandard approach roadway & geometrics
- · Poor site distance at adjacent roadways
- Concrete is spalling in various locations

✓ Approved for Bridge Replacement



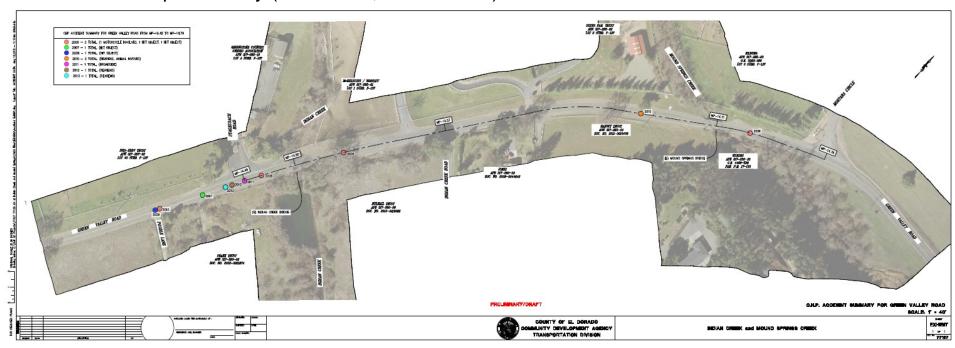




GREEN VALLEY RD - SAFETY CONSIDERATIONS

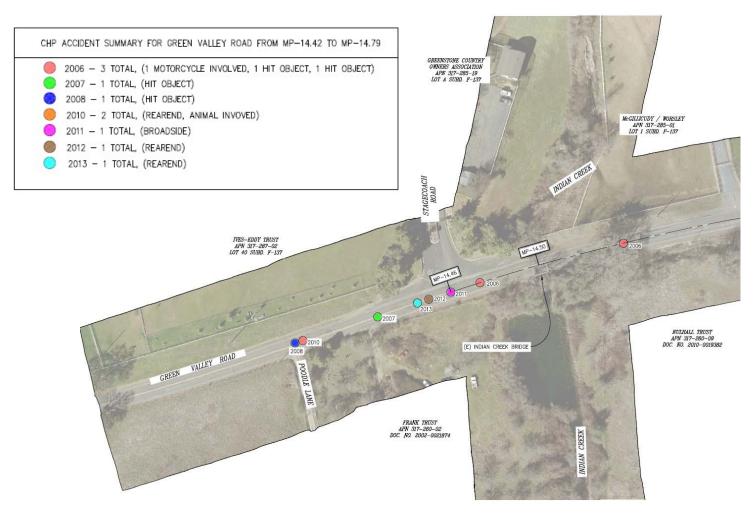
BACKGROUND

- •Average Daily Traffic (ADT) = 4200
- •Speed range = 40 to 55 mph
- Poor site distance
- Accident Report History (Rear Ends, Broad Sides)



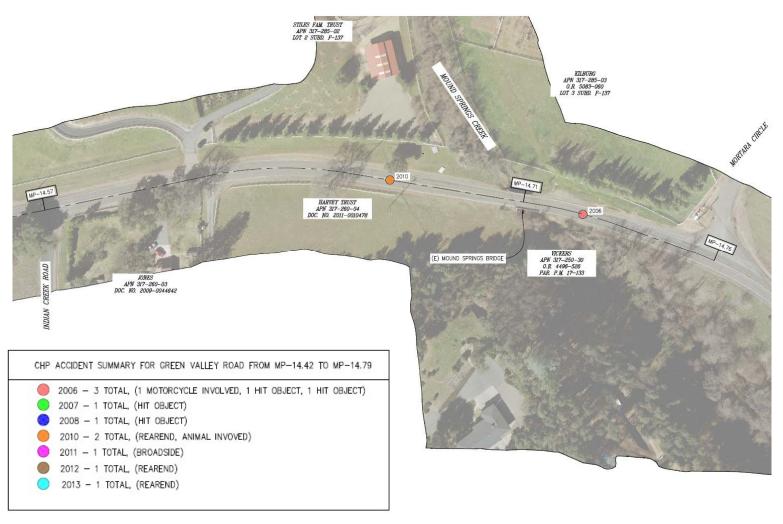


GREEN VALLEY RD - SAFETY CONSIDERATIONS





GREEN VALLEY RD - SAFETY CONSIDERATIONS

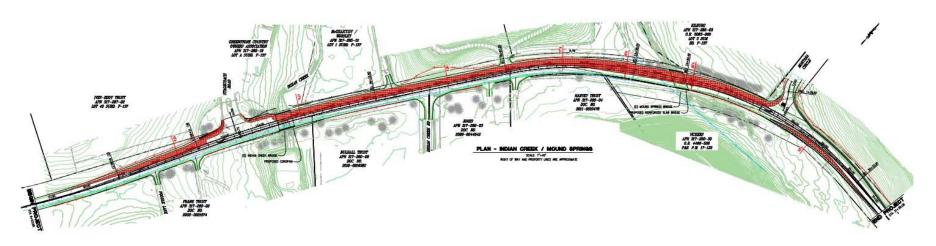




PROJECT OVERVIEW

SUMMARY (GOALS)

- •Improved Driver Safety Turn Pockets, Line of Sight, etc.
- •Bridge Improvements Barrier Rail, Widths, Hydraulics, etc.
- •Maintain Traffic (2-lanes) throughout Construction
- Minimum Impacts to Environment & Landscape
- Minimize Public Impacts
- Maintain Rural Integrity of Roadway



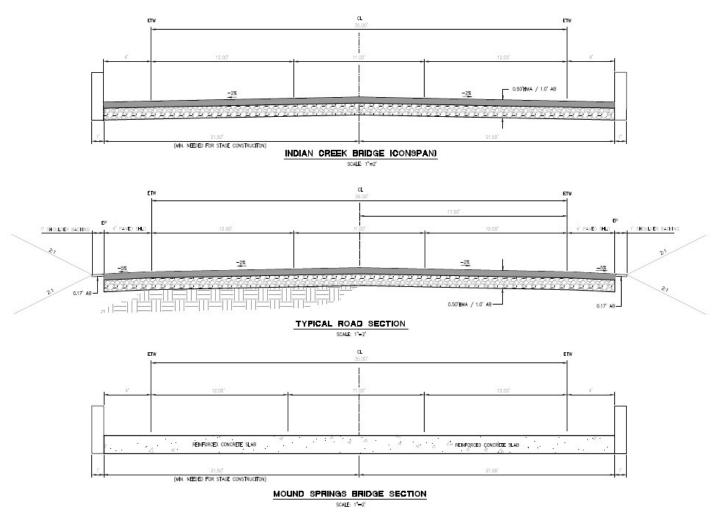


PROJECT OVERVIEW

- Both Bridge Replacements in same project
- Wider Bridges to accommodate 2-Stage Construction
- •2-way Turn Pocket in roadway center
- Minimum Roadway Standards for Lane and Shoulder widths
- Improved Line of Sight
- Minimum tree removals and grading improvements (widening to north)
- Minimize Public Impacts
- Minimum ROW impacts
- Opportunities to incorporate natural landscape (rock wall features, etc.)
- •50 mph Design Speed (maintaining corridor speeds but improving line of sight and refuge areas)

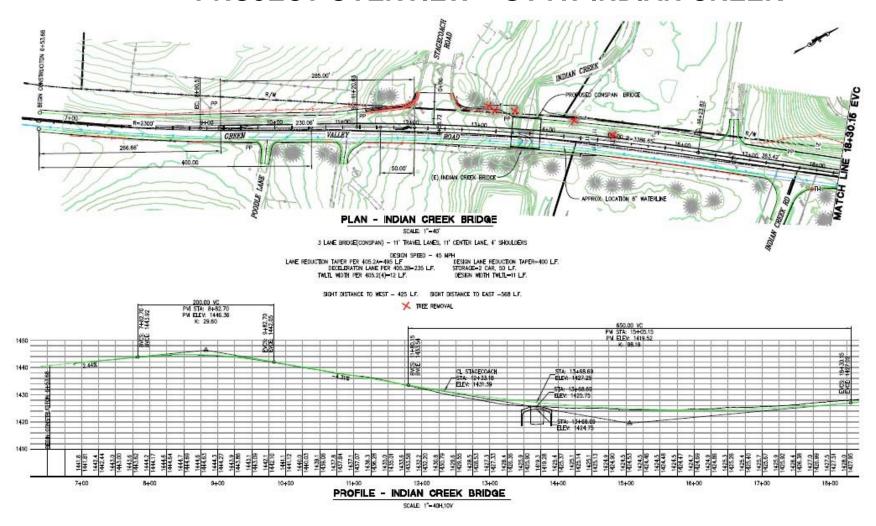


PROJECT OVERVIEW





PROJECT OVERVIEW – GV AT INDIAN CREEK





PROJECT OVERVIEW – GV AT INDIAN CREEK

STAGECOACH ROAD INTERSECTION





EXISTING

PROPOSED



PROJECT OVERVIEW – GV AT INDIAN CREEK

EAST OF INDIAN CREEK BRIDGE





EXISTING

PROPOSED

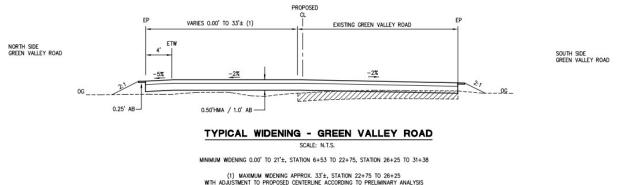


PROJECT OVERVIEW - GV AT MOUND SPRINGS



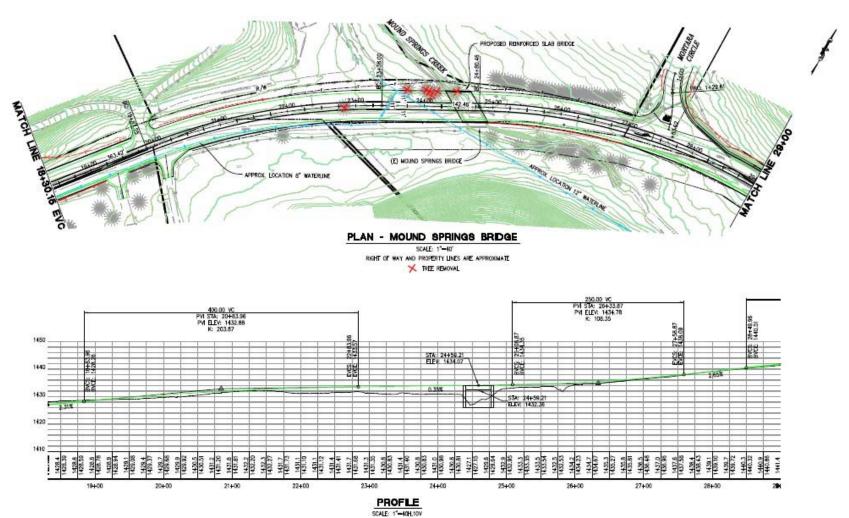
INCORPORATING THE LANDSCAPE

- Opportunities for Rock Walls
- Minimum design standards for roadway widths
- Minimum tree removals
- Minimum ROW impacts





PROJECT OVERVIEW - GV AT MOUND SPRINGS





PROJECT OVERVIEW – GV AT MOUND SPRINGS

MOUND SPRINGS BRIDGE



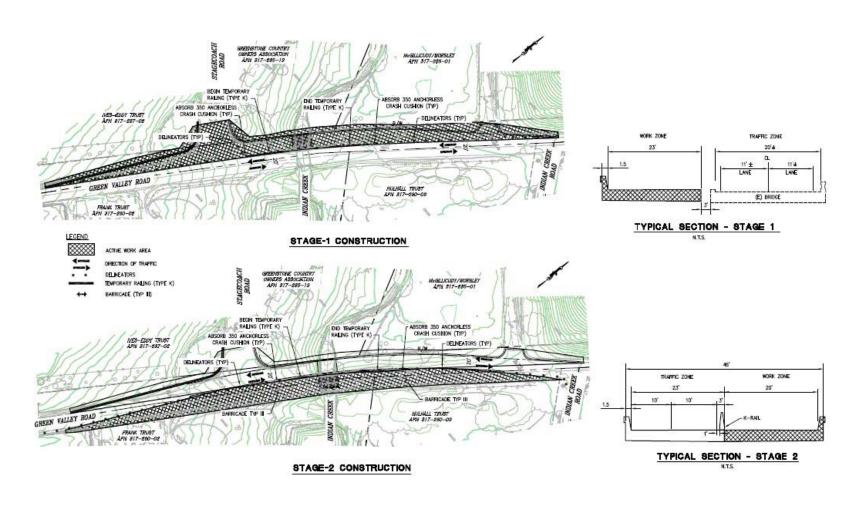


EXISTING

PROPOSED

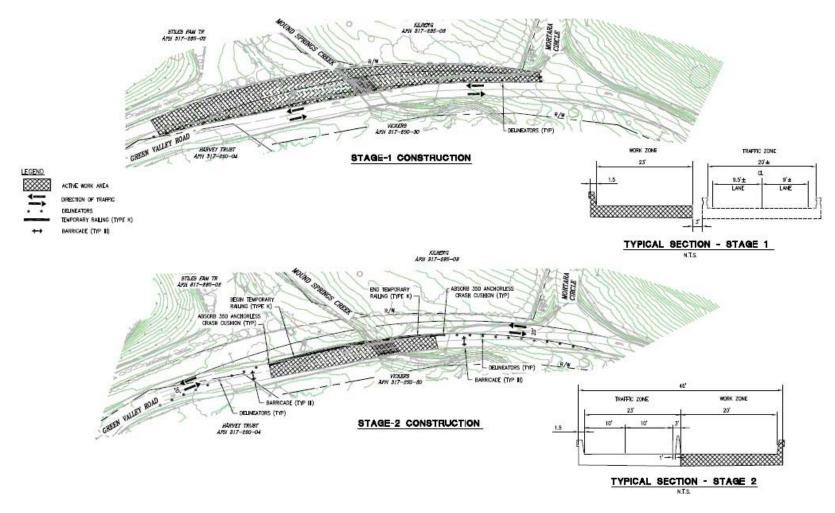


PROJECT OVERVIEW – 2 STAGE CONSTRUCTION





PROJECT OVERVIEW - 2 STAGE CONSTRUCTION





SCHEDULE

Next Steps:

•Design (2015 – 2019)

•Environmental (2016 - 2017)

•Right of Way (2017 - 2018)

•Utility Relocations (2017 – 2019)

•Construction (2020)



CLOSING REMARKS



Green Valley Rd at Indian Creek Bridge

Questions?



Green Valley Rd at Mound Springs Bridge