NICASIO VALLEY ROAD BRIDGE REPLACEMENT PROJECT
Tonight’s Meeting

6:45 – 7:30 pm Presentation and Q&A
• Learn about the project
• Review project elements, community survey results and schedule

7:30 – 8:00 pm Open House
• View informational exhibits
• Discuss questions with project team
• Give feedback
Marin County Bridges

- Responsible for maintaining 56 bridges
- Average age = 65 years (1952)
- Average Sufficiency Rating = 92.5 (out of 100)
- Local bridge projects funded through Caltrans Highway Bridge Program
Nicasio Valley Road Bridge

- Constructed in 1928
- Sufficiency Rating = 58.0
- Functionally Obsolete
Why Does it Need to be Replaced?

- Design life has been exceeded
- Continued maintenance cost, including seismic retrofit in 2001
- Narrow bridge deck does no meet current safety standards for two directional traffic and cyclists
- Multiple traffic impacts to substandard railings
Proposed Project Elements

- Existing structure will be replaced
- Intersection will be improved
Work Completed to Date

2014
Authorization to Proceed
Right of Entry Requests

2015
Caltrans Coordination
Environmental Field Surveys
Topographic Surveys

2016
Hydraulic Modeling
Preliminary Engineering
Community Survey
Community Survey

• Sent out to 80 residents/community groups in July 2016
• Posted on County webpage
• Invited community input on construction impacts and bridge width
Survey Results

Responses for “Very Important”

The bridge will be built in multiple stages in order to maintain traffic along Nicasio Valley Road. There will be periods of one-lane, one-way only traffic.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>57%</td>
<td>Minimize construction duration</td>
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<tr>
<td>50%</td>
<td>Minimize impact to the creek and environment</td>
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<tr>
<td>36%</td>
<td>Minimize one-lane only traffic duration</td>
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<tr>
<td>21%</td>
<td>Minimize construction cost</td>
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Environmental Field Surveys

- Wildlife Habitat Assessment
- Vegetation Typing
- Wetland Delineation
- Rare Plant Survey
- Tree Survey
- Bat Reconnaissance
Preliminary Engineering

- Roadway Cross Section
- Stage Construction
- Intersection Improvement
- Structure Length and Type
- Barrier Rails
Roadway Cross-Section

- Existing Bridge Width = 21 feet
  - 10-foot wide travel lanes
  - 0.5-foot wide shoulders
- Recommended Bridge Width per AASHTO Standards = 40 feet
  - 12-foot wide travel lanes
  - 8-foot wide shoulders
Stage Construction

**Year 1**
- Traffic operates similar to existing
- Portion of replacement bridge is constructed adjacent to existing bridge

**Year 2**
- Single-lane, two-way alternating traffic with signalized stop control in place
- Existing bridge removed
- Remainder of replacement bridge constructed
Intersection Improvement
Intersection Improvement
Structure Length and Type

• 110-foot, clear span structure
  – Eliminate supports in creek
  – Faster construction due to less foundation work

• Evaluated three alternatives
  – Recommendation = Precast, Prestressed Concrete Wide-Flanged Girders
Bridge Railings

- Minimum height for bikes/peds = 42”
Target Project Timeline
Open House

• View informational exhibits
• Speak with County and technical team
• Provide input on bridge elements
  – Construction (staging, duration, work hours)
  – Width