San Antonio Bridge Replacement Project
Agenda

• Introductions – Agency Roles
• Project Overview
• Why Is The New Bridge Needed?
• Proposed Improvements
• What We Heard At Last Public Meeting
• When Will The Bridge Be Built?
• Q & A
• Open House
• **County of Marin** is the sponsor (lead) agency
• **TAM** was engaged by County of Marin to help manage initial development of the project
• **Sonoma County** is a partner in the project and a half owner of the bridge
• **Caltrans** is the environmental compliance lead agency for the project. Also, their Local Assistance Division administers the funding and ensures that the HBP requirements are met and that projects are delivered in accordance with the Federal and State requirements
• Replace 100-Year Old Bridge
• Resolve Flooding Problem
• Provide Safe Passage
• County Project
• Environmentally Cleared
• Highway Bridge Program Funds
Why Is The New Bridge Needed?

San Antonio Creek Flooding, Jan 2017
Proposed Improvements

Legend
- Bicycle Facility
- Original MSN Alignment
- Environmental Study Limit
- Retaining Wall
- R/W Right of Way
- Flood Bypass Structure
Project Footprint - EIR vs Final Design

Final Design Footprint

EIR Footprint

San Antonio Road

101

900 ft
Proposed Improvements – Typical Sections

Section A-A
Existing San Antonio Road

Section A-A
Proposed San Antonio Road

Section B-B
San Antonio Bridge
Cast-in-place Prestressed Concrete Box Girder

Section C-C
Bike Path at Existing San Antonio Road Bridge
Structure Aesthetic Treatments

Open Bridge Railing with Dry Stack Rock

BARRIER TYPE 8 ELEVATION

DETAIL A
What We Heard At Last Public Meeting

• Flooding Concerns
• Visibility of New Bridge
• Traffic Volumes
• Traffic Safety At Bridge Crossing
**Why Does The New Bridge Need To Be Raised Higher Than The Existing Bridge?**

<table>
<thead>
<tr>
<th></th>
<th>Lowest Bridge Soffit Elev.</th>
<th>Water Surface Elev. (100-year)</th>
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<tbody>
<tr>
<td>EXISTING</td>
<td>18.8’</td>
<td>28.3’</td>
</tr>
<tr>
<td>PROPOSED</td>
<td>28.7’</td>
<td>28.6’</td>
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</tbody>
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**ROADWAY PROFILE**

* Grade similar to a sidewalk cross slope

Note: Roadway profile drawn to 5x vertical exaggeration

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<tr>
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<th>Peak Discharges (cubic feet per second)</th>
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<tr>
<td><strong>USGS Regional Flood-Frequency</strong></td>
<td></td>
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<tr>
<td>100-Year Storm</td>
<td>6,910</td>
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<tr>
<td>50-Year Storm</td>
<td>5,920</td>
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Marin County Ordinance, 100-year Flood Elevation + 2’ = 30.6’

Federal Standard, 100-year or 50-year + 2’ (whichever is greater) Flood Elevation = 30.6’

100-year Flood Elevation = 28.6’

50-year Flood Elevation = 28.0’
How Will The Project Prevent The New Roadway From Flooding

100-year floodplain limits maintained upstream new bridge
How Will The Visibility Of The New Bridge Be Addressed?
Traffic Volumes

- Traffic Counts Prior to Changing Access To San Antonio Rd
- Recent Traffic Counts
- Project will maintain two-lane roadway
Traffic Safety At Bridge Crossing

- Traffic Speed Limit and Speed Survey
- Safety Measures
  - Smooth speed transition on new SAR alignment
  - Speed warning signs
  - Enhanced signing and striping to improve visibility for nighttime drivers
  - Clear openings in the bridge railing to improve visibility for drivers
When Will The Project Be Built?

- Preliminary Engineering – Summer 2015
- Community Outreach Fall 2015/ Spring 2017
- Initiate Detailed Design – Spring 2017
- Final Design Plans – Spring 2018
- Right-of-Way & Permits – Spring 2017 – Spring 2019
- Begin Construction – Spring 2019