



“In the Works”

Striving to be the Leading Public Works Department Through Innovative Stewardship of Infrastructure and Environment

Stanislaus County
Public Works

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Bridge Work

Over the bridges and through the country-side we go!

Written by Collin Yerzy, Deputy Director, Construction & Operations

Over the bridges and through the county-side, to work we go! Stanislaus County has over 200 bridges we own and maintain—that’s over 4 miles of bridges end-to-end!

When a bridge needs more than just maintenance and needs to be rehabilitated or replaced, it is time to find more funding. Those funds most often come through the Highway Bridge Program (HBP). This Program is used to replace or rehabilitate public highway bridges over waterways, other topographical barriers, other highways, or railroads when the State and the Federal Highway Administration determine that a bridge is significantly important and qualifies under the HBP guidelines.



Santa Fe Bridge under construction

The HBP is a safety program that provides federal-aid to local agencies to replace and rehabilitate deficient locally owned public highway bridges or complete preventive maintenance on bridges that are not deficient. This program is funded by the Federal Highway Administration (FHWA). The programming of HBP projects is managed through a 15-year plan. This multi-

year plan provides the HBP funding to be programmed in the Federal Statewide Transportation Improvement Program (FSTIP). The FSTIP provides four years of HBP programming.

The HBP has many statutory, regulatory, and policy limitations on how funds can be utilized on bridge projects. The intent of the HBP is to remove structural deficiencies from existing local highway bridges to keep the traveling public safe. The HBP goal is to keep local highway bridges in good condition through a preventive maintenance program and to fix bridges that are in fair condition. A bridge that is in poor condition must be considered for rehabilitation or replacement.

This year, Public Works Engineering and Construction has finished two bridges (Shiells and Tegner), has one under construction (Santa Fe), and two more going to bid (Hickman and Crows Landing).



Santa Fe Bridge prior to construction

Inside :

Bridge Work	Cover
Bridges	2-3
Staff Updates	4



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Bridge Work

Shiells Road Bridge at CCID

Written by: Chris Brady, Deputy Director, Design

The Shiells Road Bridge over Central California Irrigation District (CCID) Main Canal was constructed in 1928 as a continuous 3-span reinforced concrete "T" girder bridge with reinforced concrete abutments and solid pier walls on spread footings. The bridge was approximately 62 feet in length and 22 feet wide and was skewed approximately 32 degrees from a canal crossing. The existing bridge had a sufficiency rating of 52.4 and was classified as functionally obsolete. Caltrans deemed the bridge to be seismically deficient and determined that the bridge needed to be replaced to meet current seismic and geometric design standards.

The existing Shiells Road Bridge had a narrow deck width, allowing no room for shoulders on either side. The project replaced the existing bridge with a wider, cast-in-place/post tensioned concrete slab bridge consisting of two 12 feet travel lanes and 4 feet shoulders on each side for a total width of 32 feet.

The new bridge is a single-span and approximately 75 feet long with soffit raised 12 inches higher than the high-water elevation, which increased the roadway profile by about 20 inches. The roadway approaches were modified and widened to match the new bridge profile and geometric.

The project was completed by Viking Construction in May 2019 for a total cost of about \$1.51M.



After Construction (9-26-2019)



After Construction (9-26-2019)



Prior to Construction (03-09-2015)



Prior to Construction (03-09-2015)



Bridge Work

Tegner Road Bridge over TID Lateral #5

Written by: Chris Brady, Deputy Director, Design

The Tegner Road Bridge over Turlock Irrigation District (TID) Lateral No. 5 is a minor arterial road located approximately 2 miles southwest of the City of Turlock, west of State Route 65, and slightly southwest of Highway 99. The Tegner Road Bridge was constructed in 1919 as a continuous reinforced concrete (RC) slab on RC pier walls, had a sufficiency rating of 60.6, and was classified as functionally obsolete and was deemed to be seismically deficient and therefore did not meet current seismic design standards.

As a result, Caltrans determined that replacement of the bridge was a more feasible option than retrofitting the bridge to meet current seismic and geometric design standards.

The bridge was replaced by a wider, cast-in-place reinforced slab bridge consisting of two 12 feet travel lanes and 4 feet shoulders on each side for a total width of 32 feet. The intersection at West Harding Road and Tegner Road was modified and reconstructed to fit with the new profile of the replacement structure.

The project was completed by American Paving in April of 2019 for a total cost of about \$1.07M.



After Construction (9-26-2019)



After Construction (9-26-2019)



Prior to Construction (12-02-2015)



Prior to Construction (12-02-2015)



Public Works Staff Updates

New Public Works Business Manager! Tracie Madison

Tracie Madison comes to the Public Works Team after 17 years in municipal finance and management with the cities of Modesto and Manteca. Prior to this Tracie worked as a US Forest Service firefighter assigned to a helicopter and a firefighter/EMT in Santa Maria.

Tracie is an alumna of Stanislaus State and graduated with dual degrees in finance and economics. She enjoys challenging assignments and finding simple solutions to complex issues.



← Welcome Tracie! →

21 is NO Gamble BECOME A MENTOR

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get in the game
become a mentor this year
odds of making a difference are excellent...

Coordinator for Public Works:
Lynnette Henson 525-4179
employementors.com

New Employee		
<u>Name</u>	<u>Position</u>	<u>Start</u>
Mark Murphy	PSC Contract –Traffic	July 16
Chuck Covolo	Senior Civil Engineer	July 22
Laurel Sears	Transit Planner	July 29
Gary Nyquist	Road Maintenance I	August 5
Steven Lay	Assistant Engineer	August 26
Brittany Cook	Admin Assistant III	Sept 30
Promotions		
<u>Name</u>	<u>Promoted to</u>	<u>Start</u>
Bianca Rodriguez	Staff Service Analyst Account Clerk III	August 3
Valeria Martinez	(Roads)	August 31
New Baby		
Michael Maldonado	Daughter: Eden	Born 6/18
Steven Lay	Twin Daughters: Sawyer & Isla	Born 9/9