

Project EA: 04-3G442

Project ID: 0412000042

Type of Project: Rehabilitation

Description:

Replace Seismic Dampeners on the San Francisco-Oakland Bay Bridge (SFOBB) West Span.

Scope:

Replacement of leaking dampers with new modified dampers and damper brackets on the West Span of SFOBB.

Location:

In the city and county of San Francisco, at SFOBB on Route 80 PM R5.6/R7.6



Need for the Project:

Dampers are an essential part of the SFOBB to absorb seismic force and impact. As the dampers are dependent on silicon fluid to provide an internal pressure to function properly, any leakage of fluid could compromise the performance of the damper and therefore the seismic performance of the bridge. Dampers on SFOBB were replaced 15 years ago and more than 1/3 of them are leaking. This project will replace all the dampers with improved and updated technology.

Schedule:

PID:	07/03/12 A
PS&E:	08/30/16 A
RTL:	09/13/16 A
Advertisement:	11/27/2017 A
Award:	03/22/18 A
Begin Construction:	04/15/18 A
CCA:	9/01/22 T

Project Funding:

Bridge Rehabilitation. 100% funded by the Bay Area Toll Authority (BATA) for \$23,000,000 in capital construction and \$8,741,000 for support cost.

Program Year: 2016/2017

Environmental:

Categorical Exemption approved on 06/20/2012

PROJECT NOTES:

Sole-Source and usage of trade name, Taylor Devices, was approved.

A total of six prototype dampers with Lost Motion Device (LMD) were independently proof tested at UCSD prior to the actual replacement of the 96 dampers with the construction contract. Taylor Devices offered 25 year warranty with the installed dampers.

Project Manager:	Kenneth S. Young
Design Manager:	Gordon Jeong
DES Manager:	Randy Bains