

## **MEMORANDUM**

**To:** CHAIR AND COMMISSIONERS  
CALIFORNIA TRANSPORTATION COMMISSION

**CTC Meeting:** June 24-25, 2020

**From:** STEVEN KECK, Chief Financial Officer

**Reference Number:** 4.6, Information Item

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**Subject:** **UPDATE TO CONSTRUCTION MANAGER/GENERAL CONTRACTOR (CMGC)  
SHOPP PROJECTS**

### **SUMMARY:**

At the June 2020 meeting, the California Transportation Commission (Commission) is expected to adopt updated State Highway Operation and Protection Program (SHOPP) Guidelines, under Resolution G-20-59, that will increase the California Department of Transportation's (Department)'s flexibility to use the Construction Manager/General Contractor (CMGC) method to deliver projects.

As part of these adopted SHOPP Guidelines, the Department is required to provide periodic updates on CMGC projects. This is the Department's update to the Commission on the CMGC Scofield Avenue Undercrossing (UC) bridge seismic restoration project (EA 4G891/PPNO 04-0086R).

This project is in the city of Richmond on Interstate 580 at the Scofield Avenue Undercrossing in Contra Costa County. The structure is entirely within the Chevron Richmond Refinery complex and passes over pipeline networks feeding the wharf and processing areas of the refinery complex.

The purpose of the Scofield Avenue UC project is to seismically retrofit the undercrossing and to address structural vulnerabilities such as irregular shaped columns and varying bent heights. The scope of work includes the retrofit of girder anchorages, hinges, columns, foundations, girders/cap beams, and frame braces.

This project is currently funded in the 2018 SHOPP in Fiscal Year 2019-20. The total project funding for programming is \$22,678,000; out of which one work package is requesting to be split.

*"Provide a safe, sustainable, integrated and efficient transportation system  
to enhance California's economy and livability"*

For this project, there is one early work package for initial project activities and a final work package that will complete the project. Below is a summary of work packages:

**Early Work Package 1:** Proposed SHOPP amendment and allocation to the Commission at the June 2020 Commission meeting for \$1,937,000, Early Work Package 1 includes the following:

1. Sample, test, remove and dispose of soil that is sloughing along the side of Scofield Avenue UC. Removing and retaining the soil will allow for accessibility of the bents, which will facilitate the installation of seismic retrofit elements.
2. Fabricate and weld brackets on casings to be installed at various bents along the Scofield Avenue UC structure. The fabrication and the welding are time sensitive items that are required prior to jacking the bridge.

**Final Work Package:** The final work package is expected to be allocated at the December 2020 Commission meeting for \$20,741,000 to complete the seismic retrofit of the Scofield Avenue UC. Construction is expected to be completed by March 2022.

### **BACKGROUND:**

CMGC is a project delivery method that allows the Department to select a contractor early in the project development process to act in an advisory role. The CMGC Contractor provides constructability reviews, value engineering suggestions, construction estimates, and other construction-related recommendations. When design is about 90 to 95 percent complete, the CMGC Contractor will provide a price to construct the project. If the price is acceptable, the CMGC Contractor will become the General Contractor and construct the project.

One of the benefits of CMGC is the ability to work with the CMGC Contractor to identify early work packages that can expedite construction work on the critical path and shorten the construction duration, resulting in faster delivery and reduction in cost escalation on the capital construction costs. This requires the splitting of the project in order to issue individual construction contracts for the early work. The policy adopted by the Commission allows the Department the ability to split a CMGC project in the year of delivery into early work packages.

By constructing the project in packages, the Department can award construction packages as the design is completed for those packages, and construction can occur around the various environmental, utility and right of way limitations. While some of these packages may ultimately be combined and delivered together, the flexibility to split the project in order take advantage of schedule opportunities will help to achieve success on the project.