Tustin/Rose Grade Separation

Kleinfelder provided geotechnical engineering and environmental permitting services during the preliminary design, final design, and construction phases of the Tustin Avenue/Rose Drive overcrossing. The project was completed as part of the OC Bridges program. The Tustin/Rose grade separation increases driver/pedestrian safety, eliminates delays traffic delays, and improves air/noise conditions.

PROJECT RESULTS

By demonstrating to MWD that the grade separation project would not adversely affect the pipeline, no design changes were required and the project remained both on-schedule and on-budget. Additionally, by securing a Revalidation of the Environmental Document on an extremely short deadline, the team avoided significant schedule delays associated with changes to the Environmental Document.

Location:
Anaheim, California

Owner:
Orange County Transportation Authority (OCTA)

MAINTAINING TRAFFIC FLOW

This project presented several unique challenges. First, Kleinfelder identified a significant potential conflict with an existing 60-inch diameter underground water line owned by the Metropolitan Water District of Southern California (MWD) which threatened scheduling delays. The team also faced unanticipated changes to the project design—namely a temporary bypass road necessary to maintain traffic flow, which required a revalidation of the Environmental Document.

SOPHISTICATED MODELING AND TECHNICAL EXPERTISE

Based on Kleinfelder's previous experience with the MWD, the team proposed an innovative solution using a sophisticated computer model to demonstrate that construction of the grade separation project would have little or no impact on the existing pipeline. Also, potential changes to the Environmental Document threatened significant delays. However, the team tapped Kleinfelder's permitting and technical expertise to demonstrate that there would be no adverse effects from the design changes, securing a Revalidation of the Environmental Document.

KLEINFELDER
Bright People. Right Solutions.

An Employee-Owned Company | © 2016 Kleinfelder. All rights reserved.