

Fact Sheet for EA: 0M350_

Extend the second auxiliary lane on SB Route 405 from Culver Drive off-ramp to University Drive/Jeffrey Road. Replace existing temporary railing in the median with permanent concrete barrier.

ORA - 405 – PM (2.6-6.5)

Project Description/Information:

Location and Limits:

Southbound (SB) Route 405 from 1,700 ft south of Sand Canyon Avenue overcrossing (PM 2.6) to 2,100 ft south of Jamboree Road overcrossing (PM 6.5) in the city of Irvine in Orange County.

Background:

Route 405 was built in 1964-1969, and quickly became a heavily-traveled by commuters and freight haulers along the entire length. It serves as the backbone of the Southern California Transportation Network, providing access to recreational attractions, shopping malls, medical centers, universities and airports, etc. The average annual daily traffic (AADT) varies from 260,000 to over 400,000 vehicles. There were a total of 212 accidents, Data from Caltrans Traffic Accident Surveillance and Analysis System (TASAS) – TSAR printout shows that 70.8% accidents occurred during the daylight hours, 96.7% of the accidents occurred during dry conditions. The existing freeway configuration on SB Route 405 at Culver Drive reduces the general-purpose lanes from 6 to 4 lanes within relatively a short distance. The termination of the existing two auxiliary-lane system on the SB Route 405 at the Culver Drive off-ramp causes the motorists to queue-jump from the trapped-lane condition at off-ramp through the gore area to mainline freeway. This condition has resulted in a concentration of traffic accidents. The existing 12,700 feet of temporary median railing (Type K) on Route 405 between Sand Canyon Avenue OC and Culver Drive OC has been used for over 15 years and eventually exceeded its design service life of 5 years.

What the Work Involves:

Remove and replace 12,700 ft existing temporary railing (Type K) in the median with permanent concrete barrier (Type 60/60C), Pave median area, Extend existing second auxiliary lane from SB Route 405 Culver Drive off-ramp to University Drive/Jeffrey Road OC, Construct tie-back wall and soil nail walls under Culver Drive overcrossing on SB Route 405 and Replace seven overhead signs.

Project Benefits:

Extending the second auxiliary lane from Culver Drive off-ramp to a logical termini at Jeffrey Road / University Drive interchange is expected to reduce traffic accidents by eliminating the trapped-lane condition and allowing a smoother lane transition past the Culver Drive Interchange.

Lead Agency: Caltrans

Project

Schedule:

Est. Construction Start: Winter 2016/2017

Est. Completion Date: Winter 2018/2019

Project Cost: \$18.8M Capital

Funding Source: SHOPP

Project Contact(s):

Project Manager:

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Map:

