

## I-15 Managed Lanes

A HOCHTIEF Company

### Owner

California Department of Transportation

### Location

San Diego, CA

### Value

\$420,000,000

### Market

Highways & Interchanges

### Start - Completion Dates

9/2004 - 9/2011

- Eight managed lane projects along Interstate 15
- New managed lanes, moveable median barriers and direct access ramps for buses and carpools
- Retaining wall and foundation construction, lane widening, and roadway excavation

## Project Description

Flatiron is responsible for the construction of eight managed lanes contracts, totaling approximately \$420 million, which comprise a new 20-mile section of new High Occupancy Toll (HOT) lanes stretching from State Route 163 north to State Route 78 along Interstate 15 in San Diego, Calif.

According to the California Department of Transportation, the I-15 Express Lanes is the first adaptable, high-tech transportation facility configured to meet the diverse needs of local travelers, commuters and commerce in the San Diego region. The concept involves constructing managed lanes within the existing median and providing direct “rapid” access for buses by allowing buses to enter and exit the highway via dedicated on and off ramps. Additionally, highway authorities can “manage” lanes by using a moveable median barrier to change the number of lanes in each direction, depending on the flow of traffic.

Construction along the I-15 corridor was divided into three segments, which were further divided into units. Flatiron has completed Units 2-5 in the Middle Segment and is currently working on Units 1 and 3 in the South Segment and Unit 1 in the North Segment.

North Segment (Centre City Parkway to SR-78): Flatiron is upgrading a 2.6-mile portion of Interstate 15 at Unit 1, which stretches from South Centre City Parkway to 9th Avenue. This project includes nine bridge widenings, five earth retaining walls, five masonry block soundwalls, storm drain and water system improvements, 110,000 cubic meters of exported material and 22,600 cubic meters of concrete pavement. When complete in 2011, this stretch of interstate will contain four new HOV lanes.

Middle Segment (SR-56 to Centre City Parkway): At Unit 2, Flatiron constructed 20 retaining walls, five new bridges and five direct access ramps between Camino del Norte and Rancho Bernardo Drive. Unit 3 consisted of a 2.5-mile stretch of managed lane construction and a bridge reconstruction over Lake Hodges. This project included eight post-tensioned box girder bridges, 9,000 cubic meters of retaining wall concrete, 32,000 cubic meters of PCC pavement, and 251,000 cubic meters of roadway excavation.



Flatiron constructed 1.5 miles of I-15 lanes from Poway Road to Carmel Mountain Road to complete Unit 4. Flatiron installed moveable barriers along a 1.5-mile stretch of managed lanes and used 13 different types of retaining walls at Unit 5, which ran from Via Rancho Parkway to Center City Parkway.

South Segment (SR-163 to SR-56): Unit 1 is a 4.5-mile segment of lanes stretching from Miramar to Escondido, where Flatiron is widening I-15 to accommodate managed lanes. At Unit 3, Flatiron is widening two miles of interstate from Mira Mesa Boulevard to Route 56 and reconstructing the bridges over Poway and Mercy Roads. Flatiron is producing all of the aggregate and structure backfill needed for the Poway bridge reconstruction directly on site.

### **Company Role**

Flatiron is the prime contractor for all contracts except for Units 2 and 3 along the Middle Segment, for which Flatiron is the managing joint venture partner.

### **Awards**

- American Public Works Association, San Diego Imperial Chapter - Project of the Year, 2011
- California Transportation Foundation - Tranny Award, Freeway Project of the Year, 2009
- *Roads and Bridges* - Top 10 Roads, Ranked #4, 2009