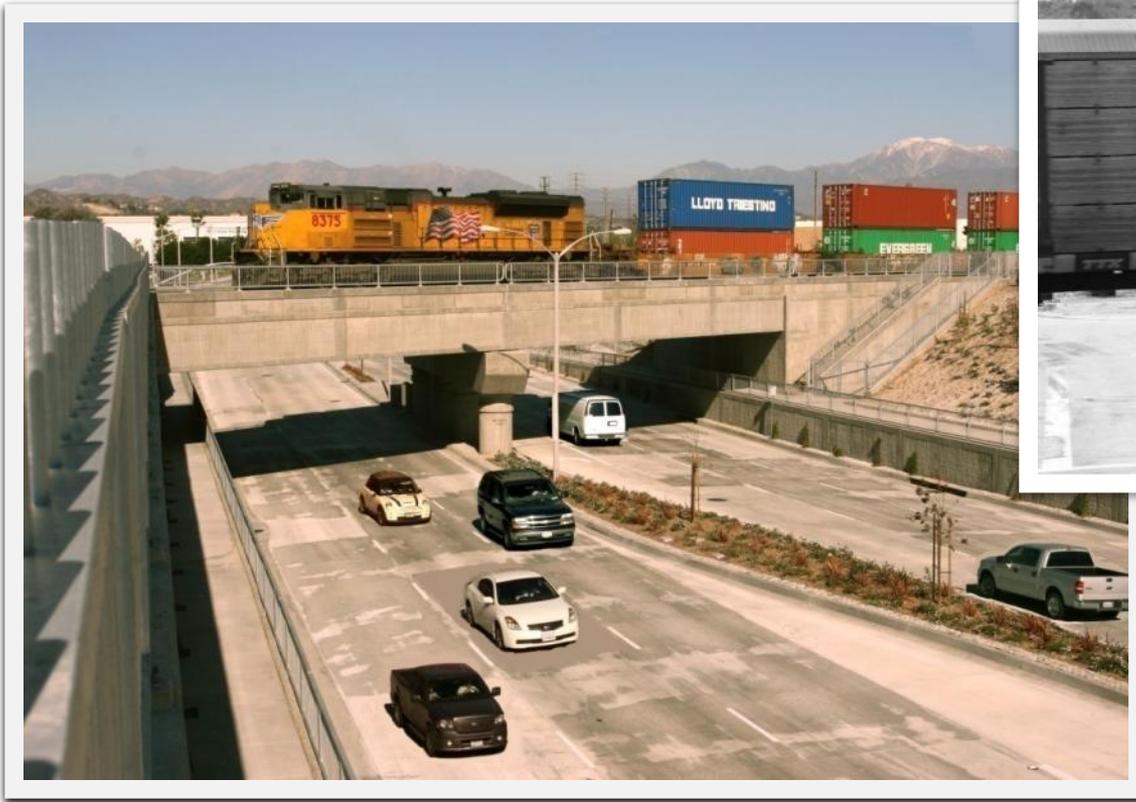


HIGHWAY-RAIL GRADE SEPARATION IN THE SCAG REGION



SCAG Transportation
Committee
October 3, 2013

Mike Jones, Senior Regional Planner
Southern California Association of Governments

Highway-Rail Grade Crossing Safety in the U.S.

- A Grade Crossing is a location where a public highway, road, street, or private roadway, including associated sidewalks, and pathways, crosses railroad tracks at grade (same level as the street).
- Grade crossings pose challenges related to congestion and harmful emissions, but safety remains a critical concern.
- Nearly every 180 minutes in America, someone is hit by a train. (FRA)
- There have been about 270 deaths a year at public and private grade crossings, but the number of fatalities has gone down by 54 percent over the last two decades.

Federal Railroad Administration (FRA)

Web Accident Prediction System

- Generates report listing highway-rail grade crossings ranked by predicted collisions per year.
- Does not rank grade-crossings in terms of most dangerous to least dangerous
- Intended to assist decision-makers in determining where scarce highway-rail grade crossing resources can best be directed
- Not the sole indicator of the condition of a specific public highway-rail intersection

Predicted Collisions per Year

- Of the Top 100 grade crossings, 8 are in the SCAG region
- 4 of the 6 SCAG have a grade crossing listed in the Top 100 (Los Angeles, Orange, Riverside, and Ventura)
- Of those 8, three are in the top 50, and 1 is the third-most dangerous (Nogales St.)

RANK	PRED. COLLIS	RR	COUNTY	CITY	ROAD
3	0.4635	UP	LOS ANGELES	LOS ANGELES	NOGALES ST.
42	0.245081	BNSF	LOS ANGELES	SANTA FE SPRINGS	LOS NIETOS RD.
49	0.234305	BNSF	RIVERSIDE	RIVERSIDE	CHICAGO AVE.
53	0.226187	UP	VENTURA	OXNARD	RICE ROAD
62	0.217115	BNSF	LOS ANGELES	SANTA FE SPRINGS	ROSECRANS/MAR Q
64	0.216157	BNSF	RIVERSIDE	RIVERSIDE	ADAMS ST.
65	0.207159	SCAX	ORANGE	SANTA ANA	GRAND AVE.
73	0.20364	BNSF	ORANGE	ANAHEIM	TUSTIN AVE.

ACTUAL COLLISIONS

- Between 2008-2011, the 8 grade crossings in the SCAG region had 23 total collisions.
- The Nogales St. had the most (6) followed by Rice Road (4).

	NUMBER OF COLLISIONS (TOP 100 Most Dangerous Crossings)				Total
	2011	2010	2009	2008	
U.S.	63	80	73	66	282
SCAG Region	6	9	5	3	23
Percentage	10%	11%	7%	5%	8%

MEETING THE CHALLENGE

- SCAG and its partners have assessed and included 71 grade-separation projects in the Constrained Plan of the 2010-2035 RTP/SCS.
- These projects are estimated to eliminate 5,782 vehicle hours of delay, reduce safety concerns, and decrease emissions from idling vehicles

CROSSING COLLISIONS

sgvtribune.com
SAN GABRIEL VALLEY

Freight train strikes tractor trailer in Rowland Heights

By Ruby Gonzales, Staff Writer @RubyGonzales2 on Twitter San Gabriel Valley Tribune

Posted: 08/01/2013 09:36:47 PM PDT

Updated: 08/02/2013 02:11:39 PM PDT



Metrolink train hits pedestrian in Pomona

By [Liset Marquez](#), Inland Valley Daily Bulletin

and [Monica Rodriguez](#), Inland Valley Daily Bulletin

09/06/13

POMONA >> A male pedestrian died Thursday morning after being hit by a Metrolink train in the area of Hamilton Boulevard and First Street, Pomona police said.

Alameda Corridor-East Corridors

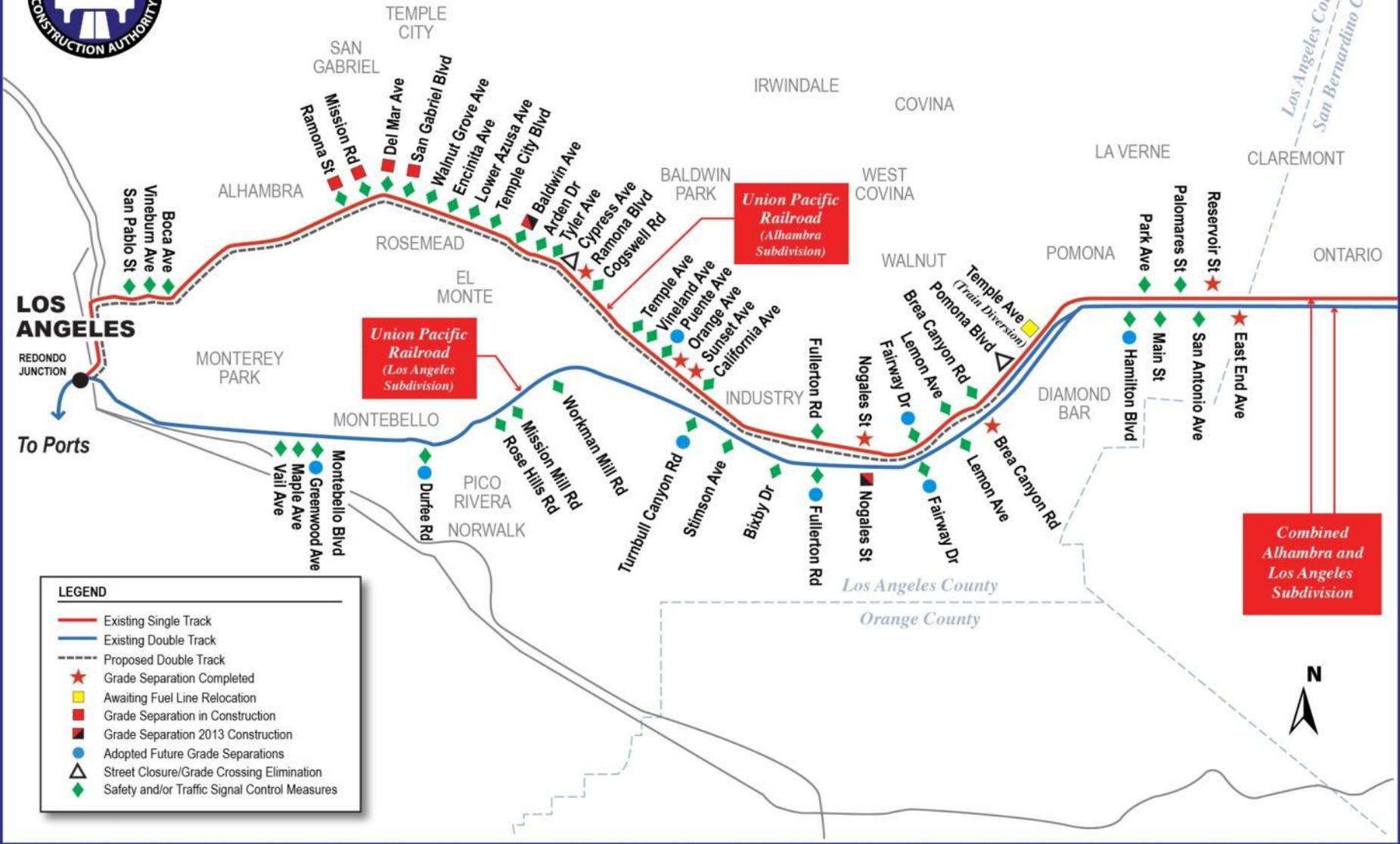


N
Map not to scale

- Union Pacific Railroad
- Alameda Corridor Transportation Authority
- East LA Yard
- Burlington Northern Santa Fe Rail Lines
- ACE Project, San Gabriel Valley
- Hobart Yard
- Alameda Corridor-East Corridors

Alameda Corridor-East Construction Authority

Los Angeles County, CA



Alameda Corridor-East Project Area

UNDER CONSTRUCTION

Construction started in May 2013. 40 freight & 12 Metrolink trains daily—will increase to 91 trains by 2025. 43,000 vehicles. 9 crossing collisions over the last 10 years (three in 2013).



Nogales Street Grade Separation
City of Industry/County of Los Angeles

UNDER CONSTRUCTION

Baldwin Avenue Grade Separation

City of El Monte



Construction started
in January 2013.

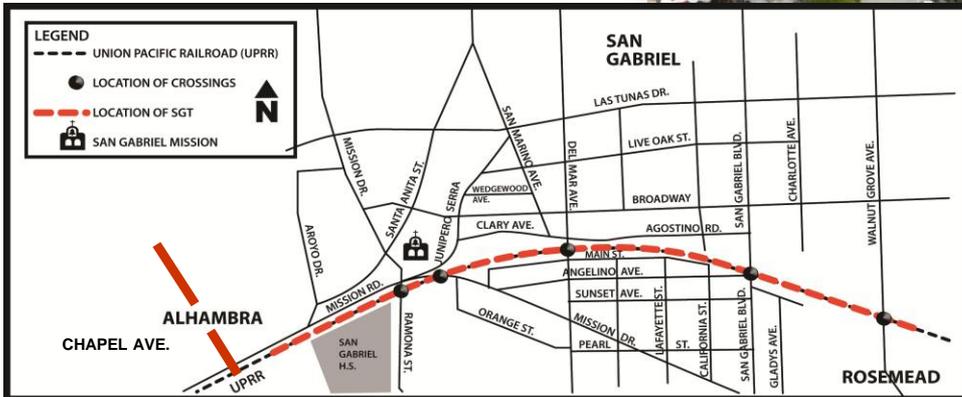
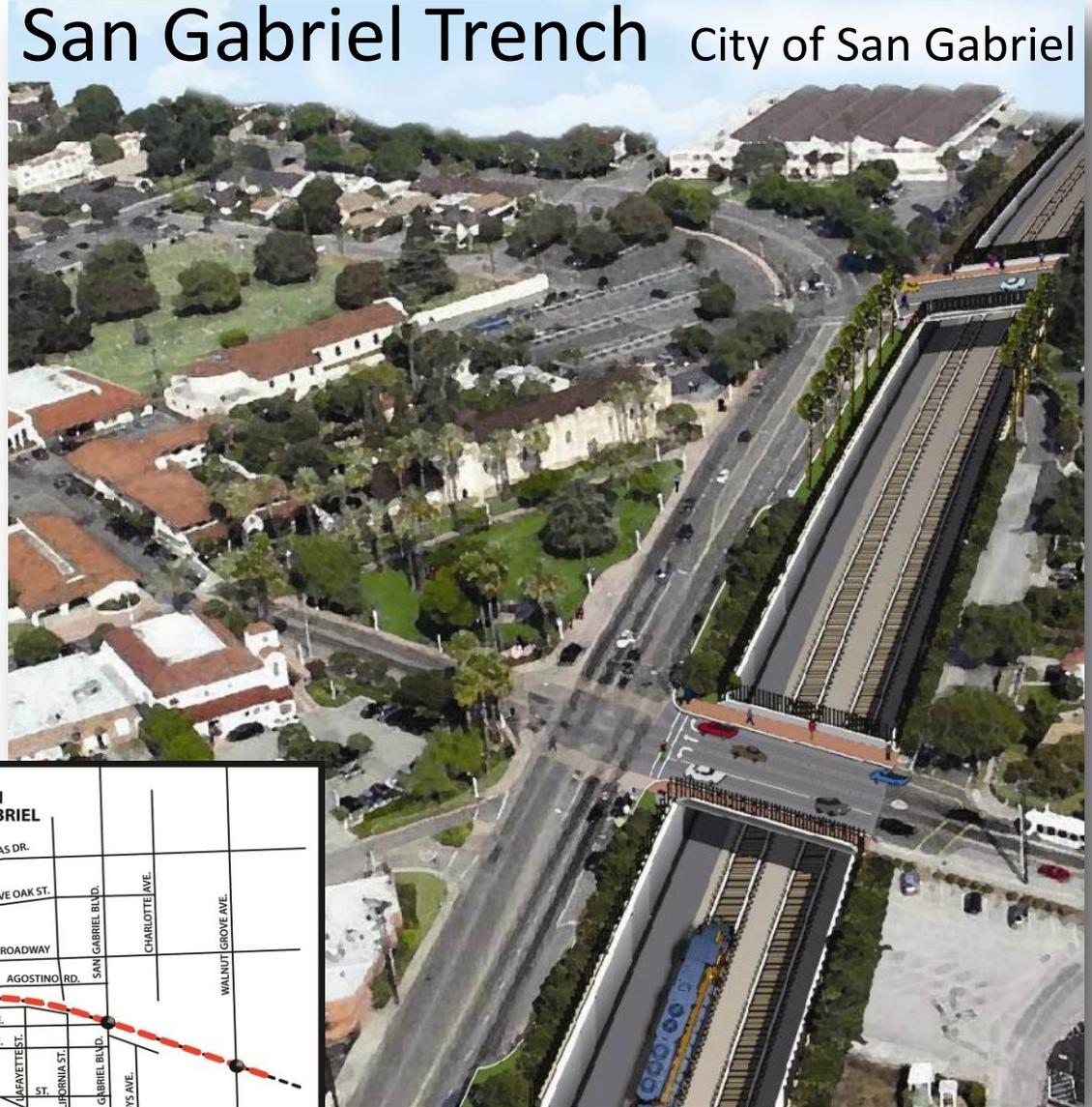
Two train-vehicle
collisions at the
crossing in the past 10
years.

UNDER CONSTRUCTION

San Gabriel Trench City of San Gabriel



Construction started in 2012. Four crossing collisions over the last 10 years, with two motorists killed and two injured.

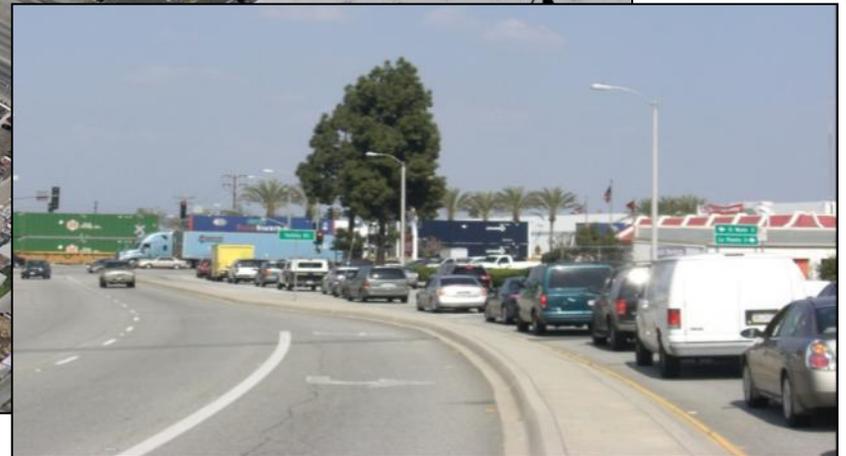


CONSTRUCTION IN 2014

Puente Avenue Grade Separation City of Industry/Los Angeles County



Five train-vehicle collisions at the crossing in the past 10 years.



CONSTRUCTION IN 2014

Fairway Drive Grade Separation City of Industry/Los Angeles County



Two train-vehicle collisions at the crossing in the past 10 years.



CONSTRUCTION IN 2016

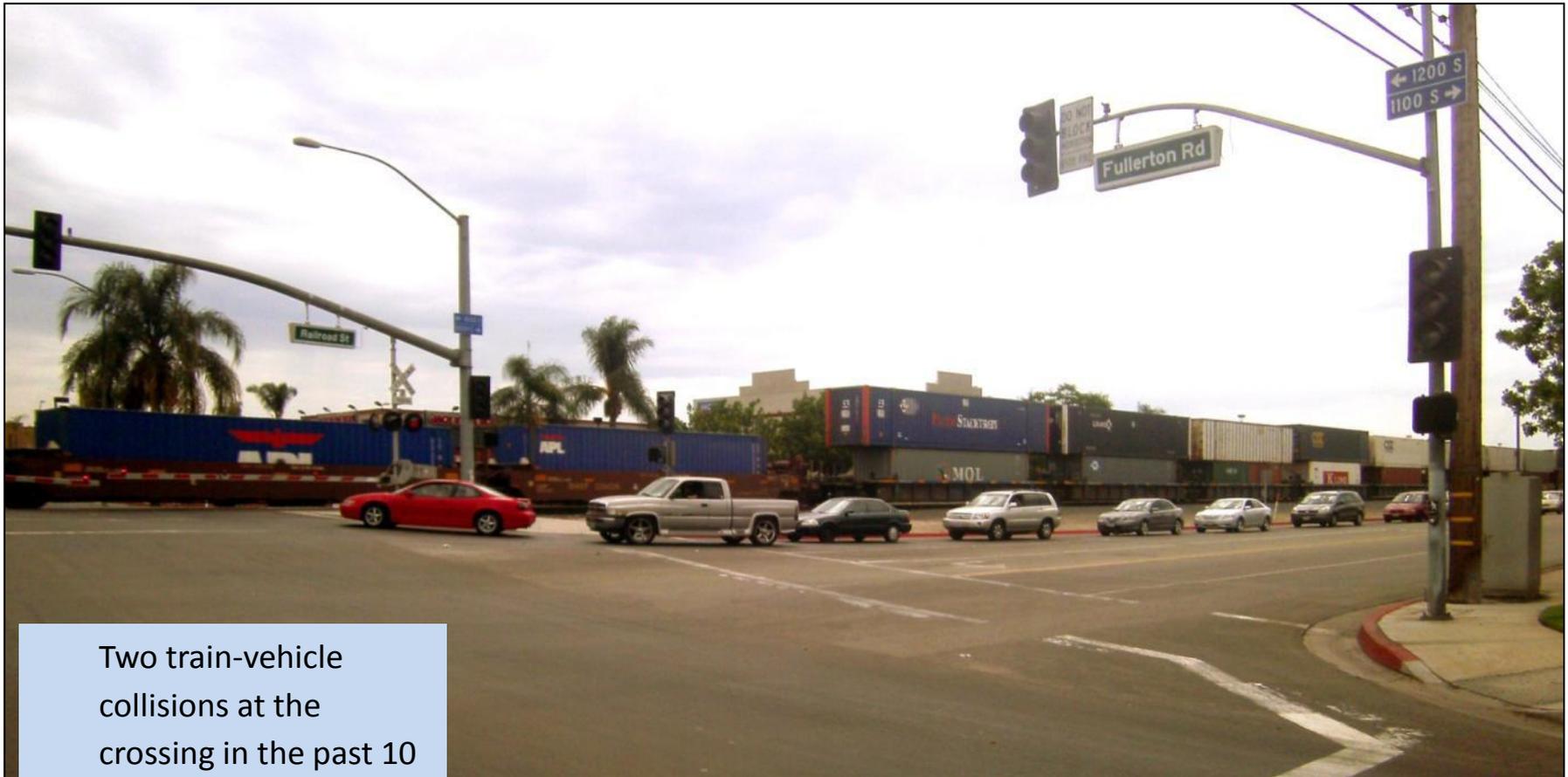
Durfee Avenue Grade Separation Pico Rivera



One train-vehicle collision at the crossing in the past 10 years.

CONSTRUCTION IN 2016

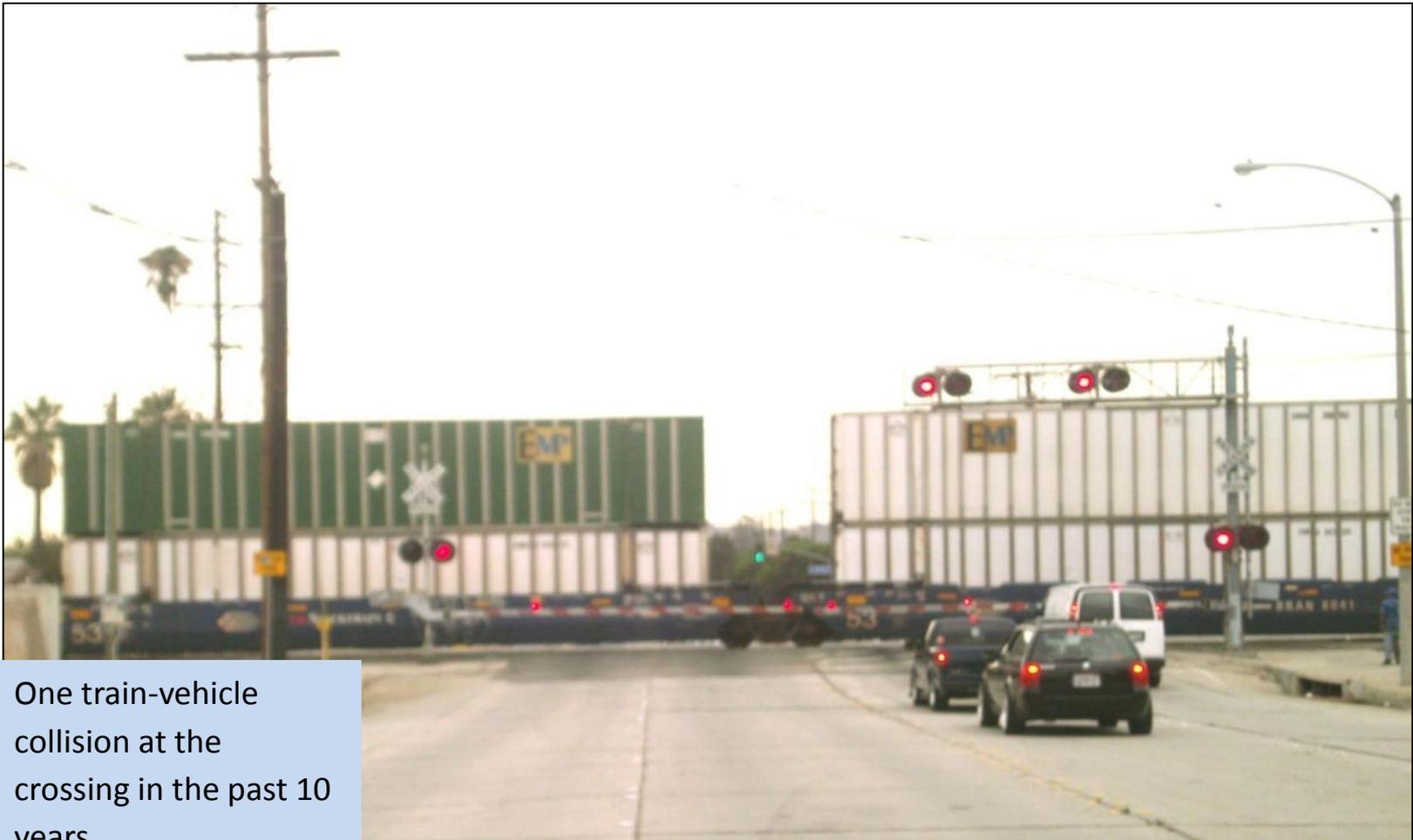
Fullerton Road Grade Separation City of Industry/Los Angeles County



Two train-vehicle collisions at the crossing in the past 10 years.

CONSTRUCTION IN 2016

Hamilton Avenue Grade Separation City of Pomona

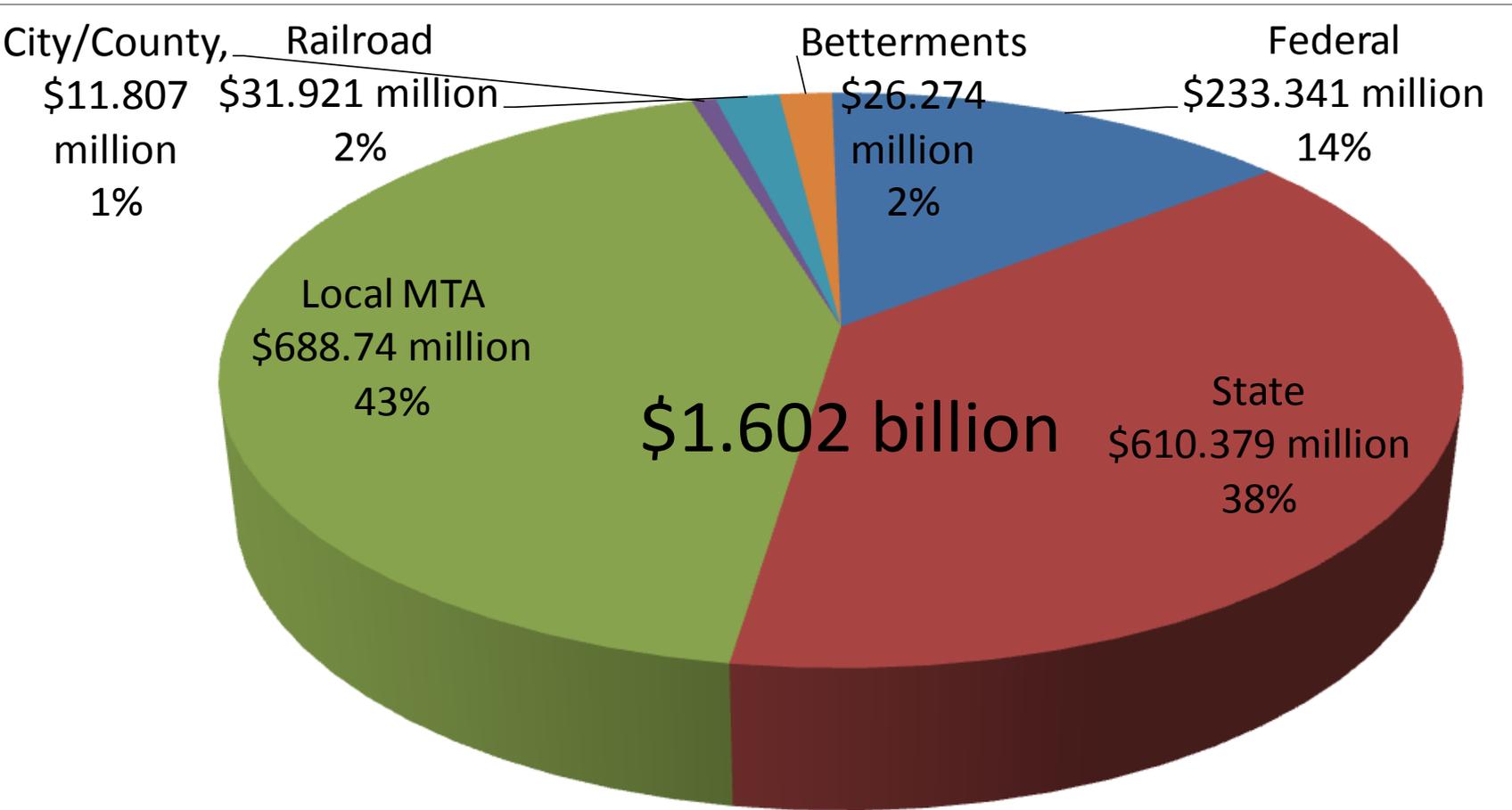


One train-vehicle collision at the crossing in the past 10 years.

ADOPTED FUTURE PROJECTS

LOCATION	JOBS CREATED	LOCATION	COST (EST. IN MILLIONS)	STATUS
Greenwood Ave. Grade Separation	1,253	Montebello	\$69.6	Concept Plans
Fairway Dr. (Alhambra Sub.) Grade Separation – Flyover	1,519	Industry/Walnut	\$84.4	Concept Plans
Turnbull Canyon Rd. Grade Separation	1,728	Industry/LA County	\$96.0	Concept Plans
TOTAL	4,500		\$250	
UNALLOCATED FUNDS AVAILABLE			\$85.0	
FUNDING SHORTFALL			\$165.0	

FUNDS COMMITTED TO DATE



Total: \$1.602 billion