

**Appendix U No BUILD ALTERNATIVE TRAVEL DEMAND
FORECASTING ASSUMPTIONS**

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Freeway System – Projects Relevant to the I-710 RDEIR/SDEIS Area of Interest

Route	Project Limits	Description
I-710	At Firestone Blvd.	<ul style="list-style-type: none"> • Modify the southbound on-ramp
I-5	Orange County Line to I-605	<ul style="list-style-type: none"> • Widen by 1 HOV lane and 1 mixed flow lane in each direction (widen from 3 to 5 lanes each direction). • Reconstruct Carmenita interchange.
I-10	Westbound-Santa Anita to I-710; Eastbound I-710 to Baldwin Ave.	<ul style="list-style-type: none"> • Expand capacity of the I-10 HOT lane (restriping to add a second lane for HOT lane on I-10 with buffer changes)
I-10	Alameda St./Union Station to I-605	<ul style="list-style-type: none"> • Conversion of HOV lanes to HOT lane
I-10	I-605 to Puente Avenue	<ul style="list-style-type: none"> • Widen by 1 HOV lane in each direction
I-10	Puente Avenue to Citrus	<ul style="list-style-type: none"> • Widen by 1 HOV lane in each direction
I-10	Citrus to Route 57/71	<ul style="list-style-type: none"> • Widen by 1 HOV lane in each direction
I-110	182 St./Artesia Transit Center to Adams Blvd	<ul style="list-style-type: none"> • Conversion of HOV lanes to HOT lane
I-110	At John S. Gibson Blvd. interchange	<ul style="list-style-type: none"> • Extend the existing off-ramp at John S. Gibson Blvd. • Modify to a 2-lane exit and re-stripe to accommodate 1 shared through and left- turn lane and 1 exclusive right lane • Create an additional left turn lane on southbound John S. Gibson Blvd. for traffic destined to port terminals
I-405	At Wilmington Ave./223 rd St.	<ul style="list-style-type: none"> • Add 1 lane on Wilmington Ave. northbound from 223rd St. to I-405 northbound off-ramp (widen from 3 to 4 lanes) • Construct new 2 lane northbound on-ramp from southbound Wilmington Ave. • Add 1 lane to I-405 southbound on and off ramps (widen from 2 to 3 lanes)

Freeway System – Projects Relevant to the I-710 RDEIR/SDEIS Area of Interest

Route	Project Limits	Description
I-405	At Avalon Blvd.	<ul style="list-style-type: none"> • Add 1 lane in northbound direction on Avalon Blvd. under I-405 (widen from 3 to 4 lanes) • Construct new 2 lane on-ramp to southbound I-405 • Add 2 lanes to northbound off-ramp (widen from 1 to 3 lanes), 2 lanes to southbound off-ramp (widen from 1 to 3 lanes) • Construct 5 lane connector road from southbound off-ramp to Avalon Blvd. (widening from 2 to 3 lanes within existing Caltrans right of way)
I-405	Euclid Ave. to I-605, in Orange Co.	<ul style="list-style-type: none"> • Add 1 General Purpose (GP) Lane in Each Direction
SR-710	Valley Blvd. to California Blvd.	<ul style="list-style-type: none"> • Extend 710; Construct 4 GP Toll Lanes in each Direction, in Tunnel
I-605 / I-405 / SR-22	SR-22 to I-605, in Orange Co.	<ul style="list-style-type: none"> • Add HOV Connectors from SR-22 to I-405 • Add HOV Connectors between I-405 and I-605 • Additional HOV lane on I-405 between SR-22 and I-605 • Widen Seal Beach Blvd and add additional thru lane and on off ramp • Widen Seal Beach Blvd in each direction from Old Ranch Pkwy to St. Cloud Dr.

Freeway System – Projects Relevant to the I-710 RDEIR/SDEIS Area of Interest

Route	Project Limits	Description
SR-22	SR-55 to I-405, in Orange Co.	<ul style="list-style-type: none">• Add 1 HOV Lane in each direction

Arterial Roadway System –Projects Relevant to the I-710 RDEIR/SDEIS Area of Interest

Route	Project Limits	Description
Ocean Boulevard/ Gerald Desmond Bridge	Gerald Desmond Bridge over entrance channel	<ul style="list-style-type: none"> • Replace existing 5 lane Gerald Desmond Bridge with new 6 lane bridge (3 lanes in each direction) • Construct the Terminal Island East Interchange and I-710 connector ramps
Harry S. Bridges Boulevard	Figueroa St. to Alameda St.	<ul style="list-style-type: none"> • Relocation/consolidation of streets, street intersections, traffic channelization and signalization • Widening will be accommodated (exact number of lanes yet to be determined)
C Street	At I-110 Fwy on/off-ramps	<ul style="list-style-type: none"> • Consolidate two closely spaced intersections into one (Figueroa St./C St. and Figueroa St./Harry Bridges Blvd.)
Anaheim Street	Farragut Ave. to Dominguez Channel	<ul style="list-style-type: none"> • Widen existing roadway from 4 to 6 lanes
Del Amo Boulevard	At I-405	<ul style="list-style-type: none"> • Construct new 6 lane overcrossing
Sepulveda Boulevard	Alameda St. to Eastern City Limits of Carson	<ul style="list-style-type: none"> • Add 1 lane in each direction (widen from 2 to 4 lanes)
Firestone Boulevard	Firestone Blvd. Bridge over the Los Angeles River	<ul style="list-style-type: none"> • Widen on the south side and add a lane in the eastbound direction • Retrofit the bridge for compliance with the latest seismic standards
Washington Boulevard	Commerce/Vernon city boundary (just west of Indiana St.) to I-5 Fwy at Telegraph Rd.	<ul style="list-style-type: none"> • Reconstruct and add 1 lane in each direction on Washington Blvd. from Commerce/Vernon city boundary at Vernon to I-5 fwy. at Telegraph Rd. (widen from 2 to 3 lanes) • Increase turn radius and medians • Upgrade traffic signals
Lakewood Boulevard	Florence to Telegraph Rd.	<ul style="list-style-type: none"> • Widen to provide 3 travel lanes in each direction.
Del Amo Blvd.	Normandie Ave. to New Hampshire Ave.	<ul style="list-style-type: none"> • Widen to provide 2 travel lanes in each direction.
Beverly Blvd.	Montebello Blvd. to west of Rea Dr.	<ul style="list-style-type: none"> • Widen to provide 2 travel lanes in each direction.

Arterial Roadway System –Projects Relevant to the I-710 RDEIR/SDEIS Area of Interest

Route	Project Limits	Description
SR-91/I-605/I-405 Study Area	28 Arterial Highway Intersection Improvements	<ul style="list-style-type: none">• As identified in Table A-2 (Revised 3/26/13); Arterial Highway Improvement Hot Spots Initial Projects; SR-91/I-605/I-405; Early Action Analysis

Rail / Transit System –Projects Relevant to the I-710 RDEIR/SDIES Area of Interest

Route	Project Limits	Description
Exposition Line Light Rail Transit	7 th St./Metro Station to Venice/Robertson Station	<ul style="list-style-type: none"> • Construct Light Rail Transit Project Phase I (Metro)
Exposition Line Light Rail Transit	Venice/Robertson Station to Santa Monica	<ul style="list-style-type: none"> • Construct Light Rail Transit Project Phase II (Metro)
Eastside Gold Line	Union Station to Atlantic Blvd	<ul style="list-style-type: none"> • Construct Light Rail Transit Project (Metro)
Gold Line Foothill Extension	Sierra Madre Villa Station to Azuza Citrus Station	<ul style="list-style-type: none"> • Construct Light Rail Transit Project (Metro)
Blue Line Light Rail Transit	Spot Locations	<ul style="list-style-type: none"> • Build a parking structure on First St. near southerly terminus of the Long Beach Blue Line in downtown Long Beach • Construct a park and ride facility in Long Beach at 3rd St. and Pacific Ave. south of the Metro Blue Line Pacific Station—include 300 to 500 parking spaces and residential/commercial development • Torrance Transit Line #6—Blue Line feeder service
Regional Connector Light Rail Transit	Alameda/1st Street to 7th Street/Metro Center	<ul style="list-style-type: none"> • Light Rail in tunnel allowing through movements of trains, Blue, Gold, Expo Lines
HOT Lane Bus Service	I-10 HOT Lane Corridor I-110 HOT Lane Corridor	<ul style="list-style-type: none"> • Implement new bus services to expand transit for I-10 and I-110 High Occupancy Toll (HOT) lanes
Crenshaw – LAX Transit Corridor	Crenshaw & Exposition Station to LAX/Aviation Station	<ul style="list-style-type: none"> • Construct Light Rail Transit Project (Metro)
Metrolink System (SCRRA)	Positive Train Control	<ul style="list-style-type: none"> • Implement Positive Train Control on 216 miles of Metrolink ROW (note: largely safety, operational improvement)
Westside Purple Line Subway Extension	Wilshire & Western Station to La Cienega	<ul style="list-style-type: none"> • Construct Segment 1 of Westside Purple Line Subway Extension

Traffic Systems and Operations / Intelligent Transportation Systems – I-710 RDEIR/SDEIS

Project	Project Limits / Description
I-710 Communication System and Closed Circuit TV System (CCTV)	Project Limits: On I-710 from PCH to I-405 <ul style="list-style-type: none"> • Install facilities for traffic monitoring system and closed circuit TV system
Advanced Traffic Management Information System (ATMIS)	Project Limits: Ports of Long Beach and Los Angeles <ul style="list-style-type: none"> • Implement an Advanced Transportation Management System (ATMS) and Advanced Traveler Information System (ATIS) to improve traffic operations on I-710, I-110, and SR 47/103.
Atlantic Avenue Signal Synchronization and Enhancement Project / TSSP	Project Limits: On Atlantic Avenue between Ocean Blvd. and Willow St. <ul style="list-style-type: none"> • Major reconstruction and minor upgrades of traffic signals along Atlantic improve traffic flow
Ocean Boulevard / Shoreline Drive Signal Synchronization and Enhancement Project / TSSP	Project Limits: On Ocean Boulevard between Biona Ct. and Livingston Dr.; on Livingston Drive between Ocean Blvd. and 2 nd St.; on Shoreline Drive between Golden Shore and Alamitos Ave., on Alamitos Avenue between Ocean Blvd. and 6 th Street <ul style="list-style-type: none"> • Reconstruct, upgrade and synchronize traffic signals along the corridor to reduce traffic congestion
Gateway Cities Forum – Carson Street Signal Synchronization / TSSP	Project Limits: On Carson Street between Long Beach Blvd. to Bloomfield Ave. <ul style="list-style-type: none"> • Provide time-based traffic signal synchronization and upgrades to improve the overall progression of traffic along and crossing these routes
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	Phase II: Project Limits: On Pacific Boulevard/Long Beach Boulevard between Florence Ave. and Willow St. <ul style="list-style-type: none"> • Provide time-based traffic signal synchronization and upgrades to improve the overall progression of traffic along and crossing these routes
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	Phase III: Project Limits: On Artesia Boulevard between Alameda Blvd. and Valley View Ave.; on Central Avenue between El Segundo Blvd. to Victoria St.; on Gage Avenue between Central Ave. to Slauson Ave.; on Whittier Boulevard between Paramount Blvd. to Valley Home Ave.; on Wilmington Avenue between Imperial Highway to Sepulveda Blvd. <ul style="list-style-type: none"> • Provide time-based traffic signal synchronization and upgrades to improve the overall progression of traffic along and crossing these routes

Traffic Systems and Operations / Intelligent Transportation Systems – I-710 RDEIR/SDEIS

Project	Project Limits / Description
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	<p>Phase IV: Project Limits: On 38th Street/37th Street/Bandini Boulevard between Alameda St. and Garfield Ave.; on Garfield Avenue between Olympic Blvd. and Eastern Ave.; on Studebaker Road between Florence Ave. to Del Amo Blvd.</p> <ul style="list-style-type: none"> • Provide time-based traffic signal synchronization and ITS improvements to enhance intersection operations, increase traffic mobility and relieve existing traffic congestion on surface arterials
Florence Avenue Traffic Signal Communications System	<p>Project Limits: On Florence Avenue between Old River School Rd. and Fairford Ave.</p> <ul style="list-style-type: none"> • Develop Ethernet based communication network
Southeast Los Angeles County - Traffic Signal Synchronization Program (TSSP)	<p>Project Limits: I-710/Atlantic Boulevard Corridor; I-5/Telegraph Road Corridor; Lakewood/Rosemead Boulevard & Paramount Boulevard Corridor</p> <ul style="list-style-type: none"> • Implement a real-time traffic signal synchronization system to effectively managed high traffic volumes and reduce traffic congestion • Provide additional lane capacity through minor roadway widening and peak hour parking restrictions
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	<p>Project Limits: I-105 Corridor ITS Project, (arterials within the Corridor include Firestone Blvd., Imperial Highway and Rosecrans Ave.)</p> <ul style="list-style-type: none"> • Implement a traffic signal management and control system which allows jurisdictions to respond more efficiently to traffic congestion
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	<p>Phase V: Project Limits: On Alameda Street between Nadeau St. to Auto Drive South; on Florence Avenue/Mills Avenue from Central Ave. to Scout Ave.; on South Street between Atlantic Ave. to Carmenita Rd.; on Washington Boulevard between Atlantic Blvd. and Whittier Blvd.</p> <ul style="list-style-type: none"> • Provide time-based traffic signal synchronization and ITS improvements to enhance intersection operations, increase traffic mobility and relieve existing traffic congestion on surface arterials
Gateway Cities Forum Traffic Signal Corridor Projects / TSSP	<p>Phase VI: Design and construct multijurisdictional traffic signal synchronization, intersection operational improvements and ITS components on regional arterials in Gateway Cities Area. [RTP ID: LAF3309]</p>

Traffic Systems and Operations / Intelligent Transportation Systems – I-710 RDEIR/SDEIS

Project	Project Limits / Description
Wilmington Automated Traffic Surveillance and Control System/ Adaptive Traffic Control System (ATSAC/ATCS) Project	Project Limits: Southern portion of the City of LA, bounded by Sepulveda Blvd. on the north, the City of Long Beach on the east, Seaside Ave./Ocean Blvd. on the south, Western Ave. on the west. <ul style="list-style-type: none">• Implement a real-time traffic signal synchronization system to effectively managed high traffic volumes and reduce traffic congestion at 70 signalized intersections
Harbor-Gateway Automated Traffic Surveillance and Control System/ Adaptive Traffic Control System (ATSAC/ATCS) Project	Project Limits: Southerly portion of the City of LA, bounded by Manchester Ave. on the north, Alameda St. on the east, Imperial Highway on the south, Vermont Ave. on the west <ul style="list-style-type: none">• Implement a real-time traffic signal synchronization system to effectively manage high traffic volumes and reduce traffic congestion at 109 signalized intersections