



## Board Report

File #: 2017-0098, File Type: Program

Agenda Number: 9.

### AD-HOC CONGESTION, HIGHWAY AND ROADS COMMITTEE APRIL 19, 2017

**SUBJECT: MEASURE R HIGHWAY SUBREGIONAL PROGRAM SEMI-ANNUAL UPDATE**

**ACTION: APPROVE ADOPTION OF UPDATED SUBREGIONAL PROJECT LIST**

#### RECOMMENDATION

CONSIDER:

- A. APPROVING \$11.8 million of additional programming within the capacity of the **Measure R Highway Subregional Programs** and funding changes via the updated project list, as shown in Attachment A;
- Highway Operational Improvements in Arroyo Verdugo
  - Highway Operational Improvements in Las Virgenes Malibu
  - I-405, I-110, I-105 and SR-91 Ramp and Interchange Imp. (South Bay)
  - I-605 Corridor “Hot Spots” Interchange Imp. in Gateway Cities
  - I-710 South and/or Early Action Projects in Gateway Cities
- B. AUTHORIZING the CEO or his designee to negotiate and execute all necessary agreements for approved projects; and
- C. RECEIVING AND FILING the **SR-138 Capacity Enhancements** (North County) project list as shown in Attachment B.

#### ISSUE

The Measure R Highway Subregional Program update allows the Highway Program and each subregion or lead agency, to revise delivery priorities and project budgets for the proposed implementation plan of the Measure R Highway subregional projects. The attached updated project lists include projects which have already received prior Board approval, as well as proposed changes related to schedule, scope, funding allocation and the addition or removal of projects. The Board’s approval is required as the updated project lists serve as the basis for Metro to enter into agreements with the respective implementing agencies.

#### DISCUSSION

The Measure R Expenditure Plan included the following Highway Capital Project Subfunds:

- Highway Operational Improvements in Arroyo Verdugo subregion
- Highway Operational Improvements in Las Virgenes Malibu subregion
- I-405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay)
- State Route 138 Capacity Enhancements in North County
- I-605 Corridor “Hot Spots” Interchange in Gateway Cities
- I-710 South and/or Early Action Projects in Gateway Cities

These Highway Capital Projects are not fully defined in the Measure R Expenditure Plan. Definition, development, and implementation of specific projects with independent utility are advanced through collaborative efforts by Metro’s Highway Program staff, the subregional authorities/Council of Government for the subfund, the project sponsor, and Caltrans for projects on their facilities.

At the December 2016 Board meeting (File#2016-0589), revised project lists and funding allocations for the Highway Capital Subfunds were approved. This update recommends changes requested by each subregion.

The changes in this update include \$11.8 million in additional programming for 9 projects which are either new or existing, in two subregions - Arroyo Verdugo and Gateway Cities Subregions - as detailed in Attachment A. Highway Program staff will continue to work closely with each subregion and/or lead agency to identify and deliver Highway Operational Improvement Projects.

A nexus determination has been completed for each new project added to the list. All of the projects on the attached project list provide highway operational benefits and meet the Highway Operational and ramp/interchange improvements definition approved by the Board.

### **Highway Operational Improvements in Arroyo Verdugo Subregion**

Through Measure R, the subregion has completed 10 projects and expended \$24 million. The subregion has identified 44 projects and currently has agreements executed for 17 active projects which are in planning, design, or construction phases. The updated subregional project list includes funding adjustments for 5 existing projects and includes 5 new projects recommended by the Arroyo Verdugo Subregion.

#### **City of Burbank**

- Reprogram \$250,000 previously programmed in Prior Years to FY17-18 and \$3,717,000 programmed in FY 18/19 to FY20/21 for MR310.07 - the Widen Magnolia Blvd/I-5 Bridge project. The total project budget of \$3,967,000 remains unchanged. The City is reprogramming the funds for this project into later fiscal years due to the Caltrans I-5 HOV project currently in construction. Upon completion of the I-5 HOV project, the City will start work on this project.
- Reprogram \$250,000 previously programmed in Prior Years to FY17-18 and \$3,647,000

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programmed in FY18/19 to FY20-21 for MR310.10 - the Widen Olive Ave/I-5 Bridge. The total project budget of \$3,897,000 remains unchanged. The City is reprogramming the funds for this project into later fiscal years due to the Caltrans I-5 HOV project currently in construction. Upon completion of the I-5 HOV project, the City will start work on this project.

- Program an additional \$59,821 and reprogram \$600,000 previously programmed in FY18/19 into the following fiscal years: \$185,790 in FY16-17 and \$474,031 in FY17-18 for MR310.23 - the Chandler Bikeway Extension (Call Match) F7506. The total revised project budget is \$659,821. The funds are being reprogrammed into two fiscal years to align with the Call for Projects programmed years.

New Measure R Projects and Funding for City of Burbank:

- Program \$1,300,000 in FY17-18 for the SR-134 Corridor Arterial Signal Improvements Project (Riverside Dr, Magnolia Blvd, Alameda Ave), Phase 1. The total project budget is \$1,300,000 for construction support and capital. The project consists of upgrades to seven existing traffic signals: (Riverside Dr/Bob Hope Dr, Riverside Dr/Reese Pl, Riverside Dr/Main St, Magnolia Blvd/Avon St, Magnolia Blvd/Pass Ave, Alameda Ave/Bob Hope Dr and Alameda/Ave/Naomi St. The existing signal equipment is Caltrans 1964 standard poles which will be upgraded to Caltrans 2015 standard poles. These intersections are currently operating at Level of Service D or E due to high pedestrian crossing counts and high arterial volumes from diverted freeway traffic. These signals will be synchronized with adjacent signals once fiber optic connections are installed. The project will improve Level of Service on these arterials parallel to State Route 134, and will enable City streets to be used as a freeway detour.

Measure R NEXUS to Highway Operational Definition: This is a traffic signal system upgrade/timing/synchronization project which will improve level of services on these arterials which are parallel to SR-134. This is an eligible Measure R Highway Operational Improvement Project.

- Program \$1,400,000 in FY 17-18 for the Media District Traffic Signal Improvements (Olive Ave, Riverside Dr. and Alameda St) project. The total programmed budget is \$1,400,000 for construction capital and support. The project consists of upgrades to eight existing traffic signals and vehicle detectors at: Olive/Hollywood Way, Olive/Lakeside Dr, Riverside Dr/California St, Riverside Dr/Avon St, Riverside Dr/Olive, Riverside Dr/Hollywood Way, Riverside Dr/Pass Ave, and Alameda Ave/Pass Ave. These intersections are currently operating at Level of Service D or E due to high pedestrian crossing counts and high arterial volumes from diverted freeway traffic. These signals will be synchronized with adjacent signals once fiber optic connections are installed. Traffic surveillance equipment will also be installed and roadway work will be undertaken to modify center medians for increased left turn storage at three intersections.

Measure R NEXUS to Highway Operational Definition : This is a traffic signal system upgrade/timing/synchronization improvement project and will improve Level of Service for these arterials which are parallel to State Route 134. The proposed signal synchronization will

allow for the use of City streets as a freeway detour. This is an eligible Measure R Highway Operational Improvement Project.

- Program \$800,000 in FY 17-18 for the I-5 Corridor Signal Improvements (Third St, Buena Vista St, Olive Ave and Magnolia Blvd), Phase 1 project. The total programmed budget is \$800,000 for construction support and capital. The project consists of upgrades to five existing traffic signals at: 3<sup>rd</sup> St/Angeleno Ave, Buena Vista St/Tulare, Buena Vista/ Thornton, Olive Ave/Virginia and Magnolia Bl/Reese Pl. The existing signal equipment is Caltrans 1964 standard poles which will be upgraded to Caltrans 2015 standard poles. The project will also add left turn phasing at 3<sup>rd</sup> St/Angeleno Ave and Buena Vista St/Thornton, key arterials serving I-5 on/off ramps. These intersections are currently operating between Level of Service C and D due to high traffic volumes to and from Interstate 5. The project will upgrade and synchronize these signals once fiber optic connections are installed. These improvements will reduce congestion for vehicles traveling to and from I-5.

Measure R NEXUS to Highway Operational Definition : This is a traffic signal system upgrade/timing/synchronization project, which will reduce congestion for vehicles traveling to and from I-5, an eligible Measure R Highway Operational Improvement Project.

- Program \$500,000 in FY 17-18 and \$1,400,000 in FY 18-19 for the Glenoaks Ave Arterial and First Street Signal Improvements project. The total programmed budget is \$1,900,000 for PS&E and construction support and capital. The project consists of upgrading existing traffic signals and providing left-turn phasing at 11 intersections along Glenoaks Blvd (Reese Pl, Bethany Rd, Delaware Rd, Fairmont Rd, Grinell Dr, Cypress Ave, Magnolia Bl, Orange Grove Ave, Angeleno Ave, Verdugo Ave, and Alameda Ave) and an intersection on First St/Orange Grove Ave. The existing signal equipment is Caltrans 1964 standard poles, which will be upgraded to Caltrans 2015 standard poles. Glenoaks Blvd is a key arterial that is parallel to Interstate 5 and serves Burbank, Glendale, and Los Angeles. These intersections are currently operating between Level of Service C and E due to high traffic volumes, left-turn queues and the distance between the closely spaced intersections. The project will reduce left-turn vehicle queues to enhance existing synchronization during peak periods. These improvements will reduce congestion for vehicles using Glenoaks Blvd as an alternative to Interstate 5.

Measure R NEXUS to Highway Operational Definition : This is a traffic signal system upgrade/timing/synchronization project, which will synchronize Glenoaks Blvd, a key arterial that is parallel to Interstate 5 and serves Burbank, Glendale, and Los Angeles. This is an eligible Measure R Highway Operational Improvement Project.

### City of Glendale

- Program an additional \$17,123 for MR310.34 - Regional Bike Stations (Call Match) F7709. The funds will be programmed in FY17/18 for a total project budget of \$332,123. This project is a local match to F7709 and funds are being reprogrammed to align with the Call for Projects

programmed year.

- Amend the project definition for the previously titled Traffic Signal Installation and Modifications at various locations project, programmed under the November 16, 2016 Board Report to the Planning and Programming Committee. The project title is being revised to Traffic Signal Installation on Glenwood Road and Signal Modifications on La Crescenta Ave and Central Ave. The project will now consist of Installation of Signals at Glenwood Rd/Pacific Ave, and signal modifications at La Crescenta Ave/Montrose Ave, La Crescenta Ave/Honolulu Ave and Central Ave/Chevy Chase. There is no change to the programmed budget or the program year.

New Measure R Project and Funding for City of Glendale:

- Program \$400,000 in FY 17-18 for the San Fernando Road/Los Angeles St Traffic Signal Installation and Intersection Modification project. The project includes the installation of a new traffic signal and intersection modifications (realignment). San Fernando Rd is a regional arterial in Glendale, runs parallel to I-5, and is used as an alternate route when the freeway is congested. Due to pedestrians jay walking across San Fernando Rd at the Los Angeles St intersection, vehicles brake suddenly on San Fernando interrupting traffic flow and causing risk of rear-end accidents. The intersection will be redesigned and signalized to shorten pedestrian walking distance and reduce conflicts on San Fernando Rd. These improvements will reduce incident delays and provide more green time to San Fernando Rd traffic.

Measure R NEXUS to Highway Operational Definition: This is a traffic signal/ safety improvements project that reduces incident delay, and accidents on San Fernando Rd, an eligible Measure R Highway Operational Improvement Project.

**Highway Operational Improvements in Las Virgenes Malibu Subregion**

Through Measure R, the subregion has completed 5 projects and expended \$81 million. The subregion has identified 24 projects and currently has agreements executed for 17 active projects which are in planning, design, or construction phases. The updated subregional project list includes funding adjustments to 5 projects currently pursued by the Las Virgenes Malibu Subregion.

City of Agoura Hills

- Deobligate \$3,350,000 in Prior Years from the Palo Comado Interchange Project (MR311.03). The total revised project budget is \$4,000,000 programmed in Prior Years. The deobligated funds will be reprogrammed to complete construction of the Agoura Road Widening Project (MR311.05).
- Program an additional \$3,350,000 in FY16-17 for the Agoura Road Widening Project (MR311.05). The revised total project budget has increased to \$36,850,000. The City is programming additional funds to this project due to increased construction cost estimate

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because of environmental mitigation costs, costs associated with issues requiring further legal counsel related to multiple purchase and sale agreements established as part of the right-of-way phase, the installation of fiber optic communication lines, completing final punch list items and a need to address field condition variances identified during construction.

City of Westlake Village

- Deobligate \$410,000 in Prior Years from the Rte 101/Lindero Cyn. Rd. Interchange Improvements Project (MR311.10). The deobligate funds are not required to complete the traffic signal, bridge widening or turning lane improvements on Agoura Rd and Lindero Canyon Rd. The revised project budget is \$3,251,000. The deobligated funds will be reprogrammed into MR311.18 to complete construction of U.S.101/Lindero Canyon Rd Interchange Improvements from Thousand Oaks Blvd to Agoura Rd.
- Deobligate \$40,000 in Prior Years from the Highway 101 Park and Ride Lot Construction (MR311.19). The total revised project budget is \$4,943,605 programmed in Prior Years. The deobligated funds will be reprogrammed to complete construction of the Rte. 101/Lindero Cyn. Rd. Interchange Improvements, Phase 3A Construction (MR311.18).
- Program an additional \$450,000 in FY 16-17 for Rte. 101/Lindero Cyn. Rd. Interchange Improvements, Phase 3A Construction (MR311.18). The revised project budget is \$9,419,000. The city is programming additional funds for this project to complete the remaining Lindero Canyon Rd widening improvements between Thousand Oaks Blvd and Agoura Rd.

**I-405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay)**

Through Measure R, the subregion has completed 11 projects and expended \$58 million. The subregion has identified 66 projects and currently has agreements executed for 32 active projects which are in planning, design or construction phases. The updated subregional project list includes funding adjustments for 8 projects and includes 3 new projects recommended by the South Bay Subregion.

Caltrans

- Program an additional \$357,003 in FY16-17 for MR312.11, the ITS: I-405, I-110, I-105, SR-91 at Freeway Ramp/Arterial Signalized Intersections Improvement Project. The revised project budget is \$5,357,000. This project is currently in construction and should be completed Spring of 2017. Additional funds have been requested for construction support/management. The budget increase will ensure that the project and its scope are completely delivered on time.

City of El Segundo

- Deobligate \$342,424 from MR312.22 - Maple Ave. Improvements from Sepulveda Blvd to Parkview Ave. This project has been completed and project charges have been audited by Metro. Project savings are being deobligated and will be repurposed for other projects funded under line 33 of the Measure R Ordinance/Expenditure Plan.

City of Gardena

- Deobligate \$173,013 from MR312.17 - Rosecrans Ave. Improvements from Vermont Ave to Crenshaw Blvd. This project has been completed and project charges have been audited by Metro. Project savings are being deobligated and will be repurposed for other projects funded by line 33 of the Measure R Ordinance/Expenditure Plan.
- Deobligate \$282,025 from MR312.19 - Artesia Blvd at Western Ave Intersection Improvements. This project has been completed and project charges have been audited by Metro. Project savings are being deobligated and will be repurposed for other projects funded by line 33 of the Measure R Ordinance/Expenditure Plan.
- Deobligate \$259,657 from MR312.21 - Vermont Ave. Improvements from Rosecrans Ave to 182<sup>nd</sup> St. This project has been completed and project charges have been audited by Metro. Project savings are being deobligated and will be repurposed for other projects funded by line 33 of the Measure R Ordinance/Expenditure Plan.

City of Lawndale

- Reprogram \$1,039,262 for MR312.49 - Redondo Beach Blvd Mobility Improvements from Prairie to Artesia (Call Match) F9101. The funds will be programmed as follows: \$272,890 in FY16-17, and \$766,308 in FY17-18. This project is a local match to F9101 and funds are being reprogrammed to align with the Call for Projects programmed year.

New Measure R Project and Funding for City of Lawndale

- Program \$507,799 for the Manhattan Beach Blvd and Hawthorne Blvd left-turn Traffic Signal Improvements project. This project will replace and relocate existing east and westbound traffic signal support assemblies and footings, for extended mast arms with signal heads for left turn protected phasing on Manhattan Beach Blvd at Hawthorne Blvd SR-107. Due to the limited visibility of the signal heads, the configuration of the intersection, and lack of left-turn permissive phasing, motorists are being stranded in the intersection causing delays and safety issues for vehicles trying to go NB and SB on Hawthorne Blvd.

Measure R NEXUS to Highway Operational Definition: This project is signal and intersection improvements project which will install new mast arms and signal heads for left turn phasing on SR-107. This is an eligible Measure R Highway Operational Improvement.

City of Los Angeles

- Reprogram \$1,313,041 for MR312.51 - Improvements on Anaheim St. from Farragut Ave. to Dominguez Channel (Call Match) F7207. The funds will be programmed as follows: \$262,608 in FY16-17, and \$1,050,433 in FY17-18. This project is a local match to F7207 and funds are being reprogrammed to align with the Call for Projects programmed year.

New Measure R Project and Funding for City of Los Angeles

- Program \$2,875,000 in FY17-18 for the Alameda St. South widening from Anaheim St. to Harry Bridges Blvd. The project proposes to widen Alameda St on the West Side to a Major Highway Class II. Currently, Alameda St. south is a 50' 4 lane roadway, which will be widened to an 80' 6 lane facility. Alameda St. provides connections to PCH (SR-1), SR-47 and is currently operating at a deficient level of service D or F in peak hour traffic.

Measure R NEXUS to Highway Operational Definition: This project is an intersection and street widening project which provides direct access to SR-1 and SR-47. This is an eligible Measure R Highway Operational Improvement.

County of Los Angeles

- Deobligate \$3,322,000 from FY19/20 for the Del Amo Blvd Improvements Project (frm. Western Ave to Vermont Ave) MR312.16. The revised project budget is \$23,498,000. The project is wrapping up a planning study and the deobligated funds are not required for the project at this time. The funds will be reprogrammed into other projects which will commence work in the upcoming fiscal year.

City of Manhattan Beach

- Deobligate \$18,531 from MR312.04 - Sepulveda Blvd at Marine Ave Intersection Improvements. This project has been completed and project charges have been audited by Metro. Project saving are being deobligated and will be repurposed for other projects funded by line 33 of the Measure R Ordinance/Expenditure Plan.

Port of Los Angeles

New Measure R Project and Funding for Port of Los Angeles

- Program \$900,000 for the Port of Los Angeles SR-47/Vincent Thomas Bridge and Harbor Blvd/Front Street Improvements. The project proposes to improve safety and operations for vehicles entering and exiting SR-47 from the Harbor Blvd / Front St. Interchange. The on/off ramps at Harbor Blvd / Front St. interchange routinely back up during peak periods due to vehicles slowing and weaving on the ramp because of the shared terminus with I-110 and SR-47.

Measure R NEXUS to Highway Operational Definition: This project is an on/off ramps improvement project for the SR-47 and I-110 at Harbor Blvd / Frontage Rd. This is an eligible Measure R Highway Operational Improvement.

City of Torrance



- Deobligate \$280,130 from MR312.18 - Maple Ave at Sepulveda Blvd Intersection Improvements. This project has been completed and project charges have been audited by Metro. Project saving are being deobligated and will be repurposed for other projects funded by line 33 of the Measure R Ordinance/Expenditure Plan.

### **State Route 138 Capacity Enhancements**

Through Measure R, the subregion has expended \$21 million and identified and executed 11 agreements for projects which are in planning, design or construction phases. The subregional project list (Attachment B) does not include any funding or schedule adjustments.

### **I-605 Corridor “Hot Spots” Interchanges**

Through Measure R, the Gateway Cities subregion has expended \$36 million, identified 34 projects and currently has agreements executed for 24 active projects, which are in planning, design or construction phases. The updated subregional project list includes funding adjustments to 1 project and the addition of 2 new projects recommended by the 91/605/405 Technical Advisory Committee.

#### **Metro**

- Deobligate \$9,500,000 from MR312.50 - The Freeway Early Action Projects strategic reserve line item. Funds are being deobligated to complete the project approval/environmental document and project specifications and estimates of two projects on I-605.

#### **New Measure R Projects for Metro**

- Program \$3,000,000 for the I-605 Southbound Beverly Blvd on/off ramp Interchange Improvements Project. This project will complete a Project Report (PR) and Plans, Specifications, and Estimates (PS&E) for the Beverly Blvd Interchange Improvements. The funds will be programmed over two fiscal years: \$100,000 in FY16-17 and \$2,900,000 in FY17-18. The total project budget for the PR and PS&E is \$3,000,000.

**Measure R NEXUS to Highway Operational Definition** : This project will environmentally clear and reconfiguring the I-605 Southbound Beverly Blvd Interchange on/off ramps. This is an eligible Measure R Highway Operational Improvement.

- Program \$5,500,000 for the I-605 Southbound from SR-91 to South Street Improvements Project. This project will develop a Project Report (PR) and Plans, Specifications, and Estimates (PS&E) for the improvements. The funds will be programmed over two fiscal years: \$200,000 in FY16-17 and \$5,400,000 in FY17-18. The total project budget for PR and PS&E is \$5,500,000.

**Measure R NEXUS to Highway Operational Definition** : This project will environmentally clear

and design an auxiliary lane to allow for additional merging distance for vehicles entering southbound I-605 from both WB and EB SR-91. The project will reduce congestion and improve freeway operations (both mainline and ramps), improve safety and the local and system interchange operations. This is an eligible Measure R Highway Operational Improvement.

### Caltrans

#### New Measure R Projects for Caltrans

- Program \$500,000 for the I-605 Southbound Beverly on/off ramp Interchange Improvements Project. Caltrans will prepare the environmental clearance documentation for the Beverly Blvd on/off ramp improvements. The funds will be programmed over two fiscal years, \$100,000 in FY16-17 and \$400,000 in FY17-18. The total project budget is \$500,000.

Measure R NEXUS to Highway Operational Definition: This project will environmentally clear and reconfiguring the I-605 Southbound Beverly Blvd Interchange on/off ramps. This is an eligible Measure R Highway Operational Improvement.

- Program \$500,000 for the I-605 Southbound from SR-91 to South Street Improvements Project. Caltrans will prepare the environmental clearance documentation for the I-605 Southbound from SR-91 to South Street Improvements. The funds will be programmed over two fiscal years, \$100,000 in FY16-17 and \$400,000 in FY17-18. The total project budget is \$500,000.

Measure R NEXUS to Highway Operational Definition: This project will environmentally clear and design an auxiliary lane to allow for additional merging distance for vehicles entering southbound I-605 from both WB and EB SR-91. The project will reduce congestion and improve freeway operations (both mainline and ramps), improve safety and the local and system interchange operations. This is an eligible Measure R Highway Operational Improvement.

### County of Los Angeles

- Reprogram \$800,000 into two fiscal years for the South Whittier Bikeway Access Improvements Project (Call Match) F9511. Funds will be programmed as follows: \$155,000 in FY17/18 and \$645,000 in FY19/20. This project is a local match to F9511 and funds are being reprogrammed to align with the Call for Projects programmed year.

### City of Long Beach

- Program an additional \$53,000 for the Park or Ride project (Call Match) F9808. The revised project budget will be \$213,000 and will be programmed as follows: \$14,900 in FY16-17, \$49,341 in FY17-18, \$62,486 in FY18/19, \$71,780 in FY19/20 and \$14,097 in FY20/21. This

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project is a local match to F9808 and funds are being reprogrammed to align with the Call for Projects programmed year.

### **I-710 South and/or Early Action Project**

Through Measure R, the Gateway Cities subregion has completed 2 projects and expended \$71 million. The subregion has identified 14 projects and currently has agreements executed for 9 active projects which are in planning, design, or construction phases. The updated subregional project list includes funding adjustments for 3 projects and includes 2 new projects recommended by the I-710 Technical Advisory Committee.

#### **City of Bell**

- Program an additional \$23,602 for MR306.37 - Eastern Ave. At Bandini Rickenbacker Project (Call Match) F9200. The funds will be programmed in FY16/17 for a total project budget of \$178,602. This project is a local match to F9200 and funds are being reprogrammed to align with the Call for Projects programmed year.

#### **City of Bell Gardens**

- Reprogram \$258,000 into two fiscal years for MR306.35 - Florence/Jaboneria Intersection Project (Call Match) F9111. Funds will be programmed as follows: \$100,403 in FY19/20 and \$183,045 in FY20/21. The project budget remains unchanged. This project is a local match to F9111 and funds are being reprogrammed to align with the Call for Projects programmed year.

#### **City of Downey**

- Deobligate \$223,000 from MR306.20 - the Paramount Blvd/Firestone Blvd Improvements Project. The revised project budget is \$3,169,000. The project has been completed and project savings are being deobligate and reprogrammed into another Operational Improvements Project.

#### **New Measure R Project for Downey**

- Program \$223,000 for Firestone Blvd Improvement Project (Old River Road and west city limit). These funds are direct savings from the Paramount Blvd/Firestone Blvd Improvements Project. Funds will be used for PS&E and construction of Firestone Improvements, which will increase the number of arterial lanes from two to three in each direction; construct a raised median island to increase vehicle throughput; and, installation a new traffic signal. This project addresses long term traffic projections identified in the I-710 South EIR/EIS.

#### **Measure R Nexus to Highway Operational Definition**

This is a street widening project which will improve operations on Firestone Blvd, a major east/west arterial and one of the most important truck routes in the Gateway Cities. The

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improvements are located within a mile of I-710 and are eligible Measure R Highway Operational Improvements.

City of South Gate

New Measure R Project and Funding for South Gate

- Program \$5,700,000 for construction of the I-710 Soundwalls Early Action Projects, Package 1: Outside of Caltrans right-of-way. The design is expected to be complete early summer with advertising of the project this fall. The funds will be programmed over three fiscal years, \$200,000 in FY16-17, \$4,500,000 in FY17-18, and \$1,000,000 in FY 18-19. The total project budget is \$5,700,000.

Measure R Nexus to Highway Operational Definition:

This is an early action soundwall project of the I-710 Corridor Project, currently in PA&ED phase. The improvements are located in the City of South Gate and within a mile of I-710 Freeway. This is an eligible Measure R Highway Operational Improvement Project.

Metro

- Deobligate \$3,000,000 from the I-710 ITS/Air Quality Early Action (grant match) strategic reserve project line. Funds have been deobligated and reprogrammed for grants that have been awarded to Metro. The revised project budget is \$8,760,000.

New Measure R Project for Metro

- Program \$3,000,000 in FY17-18 for the FRATIS Modernization Project. Metro was successful in obtaining a grant for this project from the Advanced Transportation and Congestion Management Technology Deployment (ATCMTD) Program through the Federal Highway Administration (FHWA). The project will provide a transparent optimization method for truck and terminal operations. FRATIS will exchange information between drayage operators and marine terminal operators regarding container and truck status to enhance truck and terminal efficiencies. The project will build upon past and current FRATIS projects in Los Angeles County. This project would enable FRATIS to be scaled beyond a pilot phase into actual implementation and commercialization. The project entails integration for 500 existing drayage trucks serving the Ports of Los Angeles and Long Beach (POLA/POLB). Measure R funds will be used as matching funds for the ATCMTD grant as outlined in the I-710 ITS/Air Quality Early Action Project.

Measure R Nexus to Highway Operational Definition: The project will improve the movement of people, goods, reduce congestion, and improve air quality on I-710 and adjacent arterials. Also, this project will demonstrate advanced freight transportation information systems for drayage trucks.

Port of Los Angeles

- Amend the assigned project sponsor from Metro to the Port of Los Angeles for the Port of Los Angeles' I-710 Eco-FRATIS Drayage Truck Efficiency Project (MR306.40). POLA and Metro were successful in obtaining a grant for this project through the California Energy Commission (CEC). Measure R funds will be used as matching funds for the CEC grant. The project will reduce truck fuel consumption and greenhouse gas emissions by using the most eco-friendly truck routes, increase marine terminal throughput and optimize truck dispatch and arrival times at the marine terminal. The project entails integration for 100 existing drayage trucks serving the Ports of Los Angeles and Long Beach (POLA/POLB).

Measure R Nexus to Highway Operational Definition: The project will improve the movement of people, goods, reduce congestion, and improve air quality on I-710 freeway and adjacent arterials. This project will demonstrate advanced freight transportation information systems for drayage trucks.

### **DETERMINATION OF SAFETY IMPACT**

The recertification of the project lists and funding allocations will have no adverse impact on the safety of Metro's patrons and employees and the users of the referenced transportation facilities.

### **FINANCIAL IMPACT**

Funding for the Highway projects is from the Measure R 20% Highway Capital Subfund earmarked for the subregions. Funds are available for Arroyo Verdugo (Project No. 460310), LasVirgenes/Malibu (Project No. 460311), and South Bay (Project No. 460312) subregions in the FY17 budget. These three programs are under Cost Center 0442 in Account 54001 (Subsidies to Others).

Funding for the SR-138 Project Approval and Environmental Document (September 2012 Board Action) is included in the FY17 budget under project No. 461330, Cost Center 4720 in Account 50316. The remaining funds are distributed from the Measure R 20% Highway Capital Subfund via funding agreements to Caltrans, and the Cities of Palmdale and Lancaster under Cost Center 0442 in (Project No. 460330), Account 54001 (Subsidies to Others).

Funding for Projects in the I-605 Corridor "Hot Spots" (Project No. 460314) is included in Cost Center 0442, account 54001, and under 461314, task 5.2.100, 462314, task 5.2.100, 463314, task 5.2.100, 464314, task 5.1.100, 467314, task 5.2.100, 468314, task 5.3.100, 469314, task 5.3.100, I-710 Early Action Projects (Project No. 460316) and also under 462316, task 5.2.100, 463316, task 5.3.100, 463416, task 5.3.100 and 463516, task 5.3.100 are included in the FY17 budget.

Moreover, programmed funds are based on estimated revenues. Since each MRSHP is a multi-year program with various projects, the cost center managers and the Senior Executive Officer of the Highway Program will be responsible for budgeting the costs in current and future years. Adjustments in programmed funds, as necessary, will be made for future years if required.

### **Impact to Budget**

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The source of funds for these projects is Measure R 20% Highway. This fund sources is not eligible for Bus and Rail Operations or Capital expenses and will have no impact on the FY17 budget.

**ALTERNATIVES CONSIDERED**

The Board may choose to not approve the revised project lists and funding allocations. However, this option is not recommended as it will be inconsistent with Board direction given at the time of the 2009 L RTP adoption and may delay the development and delivery of projects.

**NEXT STEPS**

Metro Highway Program Staff will continue to work with the subregions to identify new and deliver existing projects. As work progresses, updates will be provided to the Board on a semi-annual basis and as necessary.

**ATTACHMENTS**

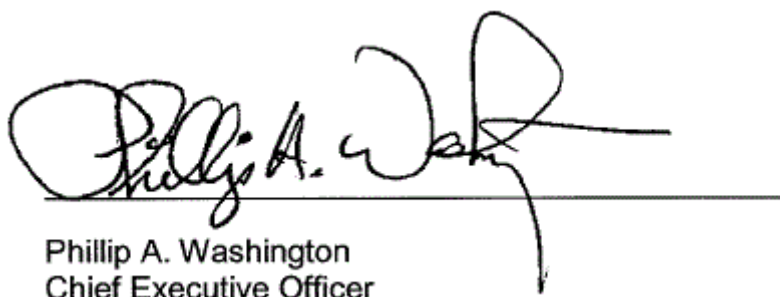
Attachment A - Measure R Highway Subregional Project List

Attachment B - SR-138 Capacity Enhancements Project List

Prepared by: Isidro Panuco, Manager, Transportation Planning, (213) 922-7984

Abdollah Ansari, Senior Executive Officer (213) 922-4781

Reviewed by: Richard F. Clarke, Chief Program Management Officer, (213) 922-7557



Phillip A. Washington  
Chief Executive Officer

**ATTACHMENT A**

**Measure R Highway Operational Improvements Project List**  
**Arroyo Verdugo Subregion Measure R Highway Operational Improvements Project List**

*Programmed Dollars in Thousands*

(C)hange (A)dd (D)elate	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
			<b>Arroyo Verdugo Operational Improvements (44 projects - 5 new)</b>	<b>67,051</b>	<b>39,566</b>	<b>3,721</b>	<b>14,700</b>	<b>1,400</b>	<b>0</b>	<b>7,364</b>
	Burbank	MR310.06	San Fernando Blvd. / Burbank Blvd. Intersection	2,325	2,325					
C	Burbank	MR310.07	Widen Magnolia Blvd / I-5 Bridge for center-turn lane	3,967			250			3,717
	Burbank	MR310.08	I-5 Corridor Arterial Signal Improvements	2,600	2,600					
	Burbank	MR310.09	SR-134 Corridor Arterial Signal Improvements	2,975	2,975					
C	Burbank	MR310.10	Widen Olive Ave / I-5 Bridge for center-turn lane	3,897			250			3,647
	Burbank	MR310.11	Olive Ave. / Verdugo Ave. Intersection Improvement	1,600	1,600					
C	Burbank	MR310.23	Chandler Bikeway Extension (call match) F7506	659,821		185,790	474,031			
A	Burbank	TBD	SR-134 Corridor Arterial Signal Improvements - Phase 1	1,300			1,300			
A	Burbank	TBD	Media District Traffic Signal Improvements	1,400			1,400			
A	Burbank	TBD	I-5 Corridor Arterial Signal Improvements - Phase 1	800			800			
A	Burbank	TBD	Glencoe Blvd Arterial and First St Signal Improvements	1,900			500	1,400		
			<b>TOTAL BURBANK</b>	<b>23,424</b>	<b>9,500</b>	<b>186</b>	<b>4,974</b>	<b>1,400</b>	<b>0</b>	<b>7,364</b>
	Glendale	MR310.01	Fairmont Ave. Grade Separation at San Fernando Rd. (Construction) (Completed)	1658.7	1,659					
	Glendale	MR310.02	Fairmont Ave. Grade Sep. at San Fernando -- Design (FA canceled and funds previously moved to MR310.01)	0						
	Glendale	MR310.04	San Fernando/Grandview At-Grade Rail Crossing Imp. (Completed)	1,850	1,850					
	Glendale	MR310.05	Central Ave Improvements / Broadway to SR-134 EB Offramp (Completed)	3,250	3,250					
	Glendale	MR310.13	Glendale Narrows Bikeway Culvert	876.5	876.50					
	Glendale	MR310.14	Verdugo Road Signal Upgrades (Completed)	557	557					
	Glendale	MR310.16	SR-134 / Glendale Ave. Interchange Modification	1,585	1,585					
	Glendale	MR310.17	Ocean Blvd. Project -- from Verdugo Rd. to N'ly City Boundaries	1,000	1,000					
	Glendale	MR310.18	Sonora Avenue At-Grade Rail Crossing Safety Upgrade (Completed)	2,700	2,700					
	Glendale	MR310.19	Traffic Signal Sync Brand / Colorado-San Fernando / Glendale-Verdugo (Completed)	1,250	1,250					
	Glendale	MR310.20	Verdugo Rd / Honolulu Ave / Verdugo Blvd Intersection Modification (Completed)	400	400					
	Glendale	MR310.21	Colorado St. Widening between Brand Blvd. and East of Brand Blvd. (Completed)	350	350					
	Glendale	MR310.22	Glendale Narrows Riverwalk Bridge	600	600					

**ATTACHMENT A**

(C)change (A)dd (D)lete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Glendale	MR310.24	Construction of Bicycle Facilities	300	300					
	Glendale	MR310.25	210 Soundwalls Project	4,520		1,520	3,000			
	Glendale	MR310.26	Bicycle Facilities, Phase 2 (Class III Bike Routes)	165		165				
	Glendale	MR310.28	Pennsylvania Ave Signal at I-210 On/Off-Ramps	400		400				
	Glendale	MR310.32	Regional Arterial Performance Measures	100			100			
C	Glendale	MR310.34	Regional Bike Stations (Call Match) F7709	332,123			332,123			
	Glendale	MR310.36	Signalizations of SR-2 Fwy Ramps @ Holly	600		100	500			
	Glendale	MR310.35	Signal Installations at Various Locations	1,500	1,500					
	Glendale	MR310.37	Verdugo Boulevard Traffic Signal Modification at Vahili Way and SR-2	600		600				
	Glendale	MR310.39	Widening of SR-2 Fwy Ramps @ Mountain	1,200	0	150	1,050			
	Glendale	MR310.40	Pacific Ave: Colorado to Glenoaks & Burchett St: Pacific To Central Street Improve	3,315	3,315					
	Glendale	MR310.41	Doran St. (From Brand Bold. To Adams St.)	1,200	1,200					
	Glendale	MR310.42	Arden Ave. (From Highland Ave. to Kenilworth St.) (Completed)	900	900					
	Glendale	MR310.43	Verdugo Rd. Street Improvements Project (Traffic Signal Modification)	585	585					
C	Glendale	TBD	Traffic Signals on Glenwood Rd. and Modifications on La Crescenta and Central Ave.	1,200			1,200			
A	Glendale	TBD	San Frenando Rd and Los Angeles Street Traffic Signal Installation & Intersection Modification	400			400			
			<b>TOTAL GLENDALE</b>	<b>33,395</b>	<b>23,878</b>	<b>2,935</b>	<b>6,582</b>	<b>0</b>	<b>0</b>	<b>0</b>
	La Canada Flintridge	MR310.03	Soundwalls on Interstate I-210 (Completed)	4,588	4,588					
	La Canada Flintridge	MR310.45	Soundwalls on Interstate I-210 in La Canada-Flintridge (phase 2)	1,800	600	600	600			
			<b>TOTAL LA CANADA FLINTRIDGE</b>	<b>6,388</b>	<b>5,188</b>	<b>600</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>
	LA County	MR310.44	Soundwalls on Interstate I-210 in LA Crescenta-Montrose	3,044	1,000		2,044			
			<b>TOTAL LA COUNTY</b>	<b>3,044</b>	<b>1,000</b>	<b>0</b>	<b>2,044</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Metro	MR310.29	NBSSR Soundwalls on I-210 Glendale/La Crescenta-Montrose	800	0	300	500			
			<b>METRO</b>	<b>800</b>	<b>0</b>	<b>300</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>
			<b>TOTAL ARROYO VERDUGO</b>	<b>67,051</b>	<b>39,566</b>	<b>4,021</b>	<b>14,700</b>	<b>1,400</b>	<b>0</b>	<b>7,364</b>

**Legend (C)change (A)dd (D)lete\***

Change = project budget adjustment, reprogramming, scope adjustment

Add = addition of new project to the subregional list

Delete = removal of project from subregional list



ATTACHMENT A

Measure R Highway Operational Improvements Project List

Las Virgenes/Malibu Operational Improvements

(Programmed Dollars in Thousands)

Change (A)dd (D)delete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
			<b>Las Virgenes/Malibu Operational Improvements (24 projects)</b>	<b>141,851</b>	<b>104,901</b>	<b>21,550</b>	<b>10,400</b>			
	Westlake Village	MR311.01	Lindero Canyon Road Interchange, Phase 3A Design	343,745	343,745					
	Westlake Village	MR311.02	Highway 101 Park and Ride Lot (Design)	243,650	243,650					
C	Westlake Village	MR311.10	Rte 101/Lindero Cyn. Rd. Interchange Improvements, Phase 3B,4B Construction (completed)	3,251	3,251					
C	Westlake Village	MR311.18	Rte 101/Lindero Cyn. Rd. Interchange Improvements, Phase 3A Construction	9,419	8,969,000	450				
C	Westlake Village	MR311.19	Highway 101 Park and Ride Lot (Construction)	4,943,605	4,943,605					
			<b>TOTAL WESTLAKE VILLAGE</b>	<b>18,201,000</b>	<b>17,751,000</b>	<b>450</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	Agoura Hills	MR311.03	Palo Comando Interchange	4,000	4,000					
	Agoura Hills	MR311.04	Agoura Road/Kanan Road Intersection Improvements	1,000	1,000					
C	Agoura Hills	MR311.05	Agoura Road Widening (completed)	36,850	32,000,000	4,850				
	Agoura Hills	MR311.14	Kanan Road Overpass Expansion -- PSR, PR, PS&E	150	150,000					
	Agoura Hills	MR311.15	Agoura Hills Multi-Modal Center	100	0,000	100				
			<b>TOTAL AGOURA HILLS</b>	<b>42,100</b>	<b>37,150</b>	<b>4,950</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Calabasas	MR311.06	Lost Hills Overpass and Interchange	33,000	26,000,000	7,000				
	Calabasas	MR311.07	Mulholland Highway Scenic Corridor Completion (completed)	4,389.8	4,389,800					
	Calabasas	MR311.08	Las Virgenes Scenic Corridor Widening	5,746.2	5,746,200					
	Calabasas	MR311.09	Parkway Calabasas/US 101 SB Offramp	214	214,000					
	Calabasas	MR311.20	Off-Ramp for US 101 at Las Virgenes Road	500	500,000					
	Calabasas	MR311.33	Park and Ride Lot on or about 23577 Calabasas Road (near Route 101) (completed)	3,700	3,700,000					
			<b>TOTAL CALABASAS</b>	<b>47,550</b>	<b>40,550</b>	<b>7,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Malibu	MR311.24	Malibu/Civic Center Way Widening	3,000	2,250,000	750				
	Malibu	MR311.26	PCH-Raised Median and Channelization from Webb Way to Corral Canyon Road	6,950	3,050,000	900	3,000			
	Malibu	MR311.27	PCH Intersections Improvements	1,000	0,000	1,000				
	Malibu	MR311.28	Kanan Dume Road Arrestor Bed Improvements and Intersection with PCH (Construction) (completed)	900	900,000					
	Malibu	MR311.29	PCH Regional Traffic Message System (CMS)	2,500	500,000	500	1,000	500		
	Malibu	MR311.30	PCH Roadway and Bike Route Improvements fr. Busch Dr. to Western City Limits	500	500,000					
	Malibu	MR311.32	PCH and Big Rock Dr. Intersection and at La Costa Area Pedestrian Improvements	950	950,000					
	Malibu	MR311.35	Pacific Coast Highway Shoulder Improvements (Various Locations)	3,500	500,000	1,500	1,500			
	Malibu	MR311.11	PCH Signal System Improvements from John Tyler Drive to Topanga Canyon Blvd	13,700	300,000	4,000	4,900	4,500		
			<b>TOTAL MALIBU</b>	<b>33,000</b>	<b>8,950</b>	<b>8,650</b>	<b>10,400</b>	<b>5,000</b>	<b>0</b>	<b>0</b>
	Hidden Hills	MR311.34	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	1,000	500,000	500				
			<b>TOTAL HIDDEN HILLS</b>	<b>1,000</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
			<b>TOTAL LAS VIRGENES/MALIBU</b>	<b>141,851</b>	<b>104,901</b>	<b>21,550</b>	<b>10,400</b>	<b>5,000</b>	<b>0</b>	<b>0</b>

\*Legend (C)hange (A)dd (D)delete

Change = project budget adjustment, reprogramming, scope adjustment

Add = addition of new project to the subregional list

Delete = removal of project from subregional list

ATTACHMENT A

Measure R Highway Operational Improvements Project List  
 Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (SOUTH BAY)

(Programmed Dollars in Thousands)

(C)hange (A)dd (D)elate	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	SBCCOG	MR312.01	<b>I-405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY) (66 projects - 3 new)</b> South Bay Cities COG Program Development & Oversight and Program Administration <i>(Project Development Budget Included)</i>	<b>233,024</b>	<b>140,588</b>	<b>25,008</b>	<b>36,078</b>	<b>23,946</b>	<b>6,415</b>	<b>0</b>
			<b>TOTAL SBCCOG</b>	<b>13,375</b>	<b>9,764</b>	<b>1,900</b>	<b>500</b>	<b>594</b>	<b>617</b>	<b>0</b>
C	Caltrans	MR312.11	ITS: I-405, I-110, I-105, SR-91 at Freeway Ramp/Arterial Signalized Intersections	5,357	5,000	357				
	Metro/ Caltrans	MR312.24	I-110 Aux lane from SR-91 to Torrance Blvd Aux lane & I-405/I-110 Connector	20,000	3,450	5,900	5,900	4,750	0	
	Metro/ Caltrans	MR312.25	I-405 at 182nd St. / Crenshaw Blvd Improvements	20,000	2,000	2,000	5,900	5,900	4,200	
	Caltrans	MR312.29	ITS: Pacific Coast Highway and Parallel Arterials From I-105 to I-110	9,000	9,000					
	Caltrans	MR312.45	PAED Integrated Corridor Management System (ICMS) on I-110 from Artesia Blvd and I-405	1,000	0			1,000		
			<b>TOTAL CALTRANS</b>	<b>55,357</b>	<b>19,450</b>	<b>8,257</b>	<b>11,800</b>	<b>11,650</b>	<b>4,200</b>	<b>0</b>
	Carson	MR312.37	Sepulveda Blvd widening from Alameda Street to ICTF Driveway	1,158	1,158					
	Carson	MR312.46	Upgrade Traffic Control Signals at the Intersection of Figueroa St and 234th St. and Figueroa and 228th st.	150	0	65	85			
	Carson	MR312.41	Traffic Signal Upgrades at 10 Intersections	1,400	0	500	900			
			<b>TOTAL CARSON</b>	<b>2,708</b>	<b>1,158</b>	<b>565</b>	<b>985</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	El Segundo	MR312.22	Maple Ave Improvements from Sepulveda Blvd to Parkview Ave. (Completed)	2,500	2,500					
	El Segundo	MR312.27	PCH Improvements from Imperial Highway to El Segundo Boulevard	400	400					
	El Segundo	MR312.57	Park Place Roadway Extension and Railroad Grade Separation Project	350	350					
			<b>TOTAL EL SEGUNDO</b>	<b>3,250</b>	<b>3,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	Gardena	MR312.17	Rosecrans Ave Improvements from Vermont Ave to Crenshaw Blvd (Completed)	4,967	4,967					
C	Gardena	MR312.19	Artesia Blvd at Western Ave Intersection Improvements (Westbound left turn lanes) (Completed)	393	393					
C	Gardena	MR312.21	Vermont Ave Improvements from Rosecrans Ave to 182nd Street (Completed)	2,090	2,090					
	Gardena	MR312.02	Traffic Signal Reconstruction on Vermont at Redondo Beach Blvd and at Rosecrans Ave.	1,500		40	1,460			
	Gardena	MR312.09	Artesia Blvd Arterial Improvements from Western Ave to Vermont Ave	2,523		80	180	2,263		
			<b>TOTAL GARDENA</b>	<b>11,473</b>	<b>7,450</b>	<b>120</b>	<b>1,640</b>	<b>2,263</b>	<b>0</b>	<b>0</b>

**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Hawthorne	MR312.03	Rosecrans Ave Widening from I-405 SB off ramp to Isis Ave (Completed)	2,100	2,100					
	Hawthorne	MR312.33	Aviation Blvd at Marine Ave Intersection Improvements (Westbound right turn lane)	3,600	3,600					
	Hawthorne	MR312.44	Hawthorne Blvd Improvements from El Segundo Blvd to Rosecrans Ave (Completed)	7,551	7,551					
	Hawthorne	MR312.47	Signal Improvements on Prairie Ave from 118th St. to Marine Ave.	1,237	0	200	418	619		
	Hawthorne	MR312.54	Intersection Widening & Traffic Signal Modifications on Inglewood Ave at El Segundo Blvd; on Crenshaw Blvd At Rocket Road; on Crenshaw at Jack Northop; and on 120th St. from Prairie Ave to Felton Ave	2,000	0	1,000	1,000			
	Hawthorne	MR312.61	Hawthorne Blvd Arterial Improvements, from 126th St to 111th St.	4,400	0	600	1,000	2,800		
	Hermosa Beach	MR312.05	<b>TOTAL HAWTHORNE</b>	<b>20,888</b>	<b>13,251</b>	<b>1,800</b>	<b>2,418</b>	<b>3,419</b>	<b>0</b>	<b>0</b>
	Hermosa Beach	MR312.38	PCH (SR-1/PCH) Improvements between Anita St. and Artesia Boulevard (Southbound left turn lanes)	304	304					
	Hermosa Beach	MR312.63	Pacific Coast Highway at Aviation Blvd Intersection Improvements	872	872					
			PAVED on PCH from Aviation Blvd to Prospect Ave	1,800	0	400	1,400			
			<b>TOTAL HERMOSA BEACH</b>	<b>2,976</b>	<b>1,176</b>	<b>400</b>	<b>1,400</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Inglewood	MR312.12	Intelligent Transportation System (ITS): City of Inglewood Citywide ITS Master Plan	3,500	3,500					
	Inglewood	MR312.50	ITS: Phase V - Communication Gap Closure on Various Locations, ITS Upgrade and Arterial Detection	384			192	192		
			<b>TOTAL INGLEWOOD</b>	<b>3,884</b>	<b>3,500</b>	<b>0</b>	<b>192</b>	<b>192</b>	<b>0</b>	<b>0</b>
	LA City	MR312.56	Del Amo Blvd Improvements from Western Ave to Vermont Ave Project Oversight	100	100					
C	LA City	MR312.51	Improve Anaheim St. from Farragut Ave. to Dominguez Channel (Call Match) F7207	1,313.04		262,608	1050,433			
A	LA City	TBD	Alameda St. (South) Widening firm. Anaheim St. to Harry Bridges Blvd	2,875			2875			
			<b>TOTAL LA CITY</b>	<b>4,288</b>	<b>100</b>	<b>263</b>	<b>3,925</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	LA County	MR312.16	Del Amo Blvd improvements from Western Ave to Vermont Ave	23,498	6,900	5,000	5,000	5,000	1,598	
	LA County	MR312.52	ITS: Improvements on South Bay Arterials	1,021	0		401	620		
			<b>TOTAL LA COUNTY</b>	<b>24,519</b>	<b>6,900</b>	<b>5,000</b>	<b>5,401</b>	<b>5,620</b>	<b>1,598</b>	<b>0</b>

**ATTACHMENT A**

(C)hange (A)dd (D)elate	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Lawndale	MR312.15	Inglewood Ave Widening from 156th Street to I-405 Southbound on-ramp	500	500					
	Lawndale	MR312.36	ITS: City of Lawndale Citywide Improvements (Completed)	1,500	1,500					
C	Lawndale	MR312.49	Redondo Beach Blvd Mobility Improvements from Prairie to Artesia (Call Match) F9701	1,039,262		272,954	766,308			
A	Lawndale	TBD	Manhattan Bch Blvd at Hawthorne Blvd Left Turn Signal Improvements	508			300	208		
			<b>TOTAL LAWDALE</b>	3,547	2,000	273	1,066	208	0	0
	Lomita	MR312.43	Intersection Improvements at Western/Palos Verdes Dr and PCH/Walnut	900	900					
			<b>TOTAL LOMITA</b>	900	900	0	0	0	0	0
C	Manhattan Beach	MR312.04	Sepulveda Blvd at Marine Ave Intersection Improvements (West Bound left turn lanes) (Completed)	346	346					
	Manhattan Beach	MR312.28	Seismic retrofit of widened Bridge 53-62 from Sepulveda Blvd from 33rd Street to south of Rosecrans Ave	9,100	9,100					
	Manhattan Beach	MR312.34	Aviation Blvd at Artesia Blvd Intersection Improvements (Southbound right turn lane)	1,500	1,500					
	Manhattan Beach	MR312.35	Sepulveda Blvd at Manhattan Beach Blvd Intersection Improvements (NB, WB, EB left turn lanes and SB right turn lane)	980	980					
	Manhattan Beach	MR312.62	Sepulveda Blvd Operational Improvements at Rosecrans Ave, 33rd St, Cedar Ave, 14th St and 2nd St.	900	0	50	850			
			<b>TOTAL MANHATTAN BEACH</b>	12,826	11,926	50	850	0	0	0
	Metro/Caltrans	MR312.30	Feasibility Study for I-405 from I-110 to I-105 and I-105 from I-405 to I-110	400			400			
	Metro/Caltrans	TBD	Feasibility Study for I-405 from I-110 to I-105 and I-105 from I-405 to I-110	300			300			
	Metro/Caltrans	MR312.48	Western Ave. (SR-213) from Palos Verdes Drive North to Gardena – PSR	170		70	100			
	Metro/Caltrans	MR312.32	SR-1 from Eastern Boundary of Carson to Eastern Boundary of Torrance – PSR	170		70	100			
	Metro	PS4010-2540	South Bay Arterial Baseline Conditions Analysis (Completed)	250	250					
	Metro	MR312.31	Inglewood Transit Center at Florence/La Brea	1,500	260	1,240				
			<b>TOTAL METRO</b>	2,790	510	1,380	900	0	0	0

ATTACHMENT A

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Rancho Palos Verdes	MR312.39	Western Ave. (SR-213) from Palos Verdes Drive North to 25th street -- PSR	90		30	60			
			<b>TOTAL RANCHO PALOS VERDES</b>	90		30	60			
A	POLA	TBD	SR-47/Vincent Thomas Bridge on/off ramp Improvements at Harbor Blvd	900		900				
			<b>PORT OF LOS ANGELES</b>	900		900				
	Redondo Beach	MR312.06	Pacific Coast Highway improvements from Anita Street to Palos Verdes Blvd	1,400	1,400					
	Redondo Beach	MR312.07	Pacific Coast Highway at Torrance Blvd intersection improvements (Northbound right turn lane)	586	586					
	Redondo Beach	MR312.08	Pacific Coast Highway at Palos Verdes Blvd intersection improvements (WB right turn lane)	320	320					
	Redondo Beach	MR312.13	Aviation Blvd at Artesia Blvd intersection improvements (Completed) (Eastbound right turn lane)	22	22					
	Redondo Beach	MR312.14	Inglewood Ave at Manhattan Beach Blvd intersection improvements (Eastbound right turn lane) (Completed)	30	30					
	Redondo Beach	MR312.20	Aviation Blvd at Artesia Blvd intersection improvements (Northbound right turn lane)	847	847					
	Redondo Beach	MR312.42	Inglewood Ave at Manhattan Beach Blvd intersection improvements (Southbound right turn lane)	5,175	5,175					
			<b>TOTAL REDONDO BEACH</b>	8,380	8,380	0	0	0	0	0
	Torrance	MR312.10	Pacific Coast Highway at Hawthorne Blvd intersection improvements	19,600	19,600					
	Torrance	MR312.18	Maple Ave at Sepulveda Blvd Intersection Improvements (Completed) (Southbound right turn lane)	320	320					
	Torrance	MR312.23	Torrance Transit Park and Ride Regional Terminal Project 465 Crenshaw Blvd	18,100	18,100					
	Torrance	MR312.26	I-405 at 182nd St. / Crenshaw Blvd Operational Improvements	15,300	5,300	5,000	5,000			
	Torrance	MR312.40	Pacific Coast Highway at Vista Montana/Anza Ave Intersection Improvements	2,900	2,900					
	Torrance	MR312.58	Pacific Coast Highway from Calle Mayor to Janet Lane Safety Improvements	852	852					
	Torrance	MR312.59	Pacific Coast Highway at Madison Ave Signal upgrades to provide left-turn phasing	500	500					
	Torrance	MR312.60	Crenshaw from Del Amo to Dominguez - 3 SB turn lanes at Del Amo Blvd, 208th St., Transit Center Entrance, Signal Improvements at 2 new signal at Transit Center	3,300	3,300					
			<b>TOTAL TORRANCE</b>	60,872	50,872	5,000	5,000	0	0	0
			<b>TOTAL SOUTH BAY</b>	233,024	140,588	25,008	36,078	23,946	6,415	0

\*Legend (C)hange (A)dd (D)elete\*

Change = project budget adjustment, reprogramming, scope adjustment

Add = addition of new project to the subregional list

Delete = removal of project from subregional list

ATTACHMENT A

Measure R Highway Operational Improvements Project List  
 I-605/SR-91/I-405 Corridors "Hot Spots" (Gateway Cities)

(Programmed Dollars in Thousands)

Change (Add/Delete)	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
			<b>INTERSTATE 605/STATE ROUTE 91/INTERSTATE 405 CORRIDOR "HOT SPOTS" (34 projects -- 1 new)</b>	<b>191,713</b>	<b>88,074</b>	<b>45,803</b>	<b>27,664</b>	<b>18,940</b>	<b>9,517</b>	<b>1,714</b>
	GCCOG	MOU.306.03	GCCOG Engineering Support Services	300	300					
	GCCOG	MR315.29	Gateway Cities Third Party Support	100	100					
			<b>TOTAL GCCOG</b>	<b>400</b>	<b>400</b>					
	Metro	PS4720-3334	Program/Project Management Support of Measure R Funds	200	200					
	Metro	PS4720-3252	I-605 Arterial Hot Spots in the City of Whittier: PAED for Santa Fe Springs/Whittier, Painter/Whittier, & Colima Whittier Intersection Improvements	680	680					
	Metro	PS4720-3250	Arterial Hot Spots in the Cities of Long Beach, Bellflower, and Paramount: PAED for Lakewood/Alondra, Lakewood/Spring, and Bellflower Spring Intersection & PS&E for Lakewood/Alondra Intersection Improvements	573	573					
	Metro	PS4720-3251	Arterial Hot Spots in the Cities of Cerritos, La Mirada, and Santa Fe Springs: PAED for Valley View/Rosecrans, Valley View/Alondra, Carmenita/South, and Bloomfield/Artesia Intersection Improvements	561	561					
	Metro	AE25081	Arterial Hot Spots in the Cities of Cerritos: PS&E for Carmenita/South and Bloomfield/Artesia Intersection Improvements	100	100					
	Metro	AE25083	Arterial Hot Spots in the Cities of La Mirada and Santa Fe Springs: PS&E for Valley View/Rosecrans and Valley View/Alondra Intersection Improvements	100	100					
	Metro	PS4603-2582	Professional Services for I-605 Feasibility Study (Completed)	6,170	6,170					
	Metro	PS4603-2582	Professional Services for PSR/PDS: I-5/I-605 and I-605/SR-91 (Completed)	3,121	3,121					
	Metro	PS4720-3235	Professional Services for 605/60 PSR/PDS	3,040	3,040					
	Metro	AE2259	Professional Services for 605/60 PA/ED	34,000	3,000	7,000	8,000	8,000	8,000	
	Metro	PS47203004	Professional Services for the Gateway Cities Strategic Transportation Plan	10,430	9,339	1,091				
	Metro	AE333410011375	Professional Services for the I-605/I-5 PA/ED	20,698	3,000	5,000	5,000	7,698		
	Metro	AE476110012334	Professional Services for the I-605/SR-91 PA/ED	8,026	263	3,200	3,100	1,463		
	Metro	AE322940011372	Professional Services for 710/91 PSR/PDS	2,340	1,590	750				
	Metro	MR315.49	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development (Gateway Cities, SCE, LA County)	300	300					
C	Metro	MR315.50	Freeway Early Action Projects (PA/ED & PS&E)	14,500		14,500				
A	Metro	TBD	I-605 Beverly Interchange Improvements (PR & PS&E)	3,000		100	2,900			
A	Metro	TBD	I-605 from SR-91 to South Street Improvements Project (PR & PS&E)	5,500		100	5,400			
			<b>TOTAL METRO</b>	<b>113,338</b>	<b>32,036</b>	<b>31,741</b>	<b>24,400</b>	<b>17,161</b>	<b>8,000</b>	<b>0</b>

**ATTACHMENT A**

(Change Add Delete)	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Caltrans	MR315.28	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-60 PSR-PDS	260	260					
	Caltrans	MR315.47	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-60 PAVED	3,650	400	850	800	800	800	
	Caltrans	MR315.24	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/I-5 PAVED	2,070	300	500	500	770		
	Caltrans	MR315.08	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-91 PAVED	803	26	320	310	146		
	Caltrans	MR315.48	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605 Intersection Improvements	60	60					
	Caltrans	MR315.13	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-710/SR-91 PSR-PDS	234	159	75				
A	Caltrans	TBD	I-605 Beverly Interchange Improvements (Env. Doc.)	500		100	400			
A	Caltrans	TBD	I-605 from SR-91 to South Street Improvements Project (Env. Doc.)	500		100	400			
			<b>TOTAL CALTRANS</b>	<b>8,076</b>	<b>1,205</b>	<b>1,945</b>	<b>2,410</b>	<b>1,716</b>	<b>800</b>	<b>0</b>
	Bellflower	MR315.16	Bellflower Blvd- Artesia Blvd Intersection Improvement Project	7,310	6,210	1,100				
	Bellflower	MR315.33	Lakewood - Alondra Intersection Improvements: Construction	644	644					
			<b>TOTAL BELLFLOWER</b>	<b>7,954</b>	<b>6,854</b>	<b>1,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Cerritos	MR315.38	Carmenita - South Intersection Improvements, Construction	292	292					
	Cerritos	MR315.39	Bloomfield - Artesia Intersection Improvements, ROW & Construction	1,756	1,756					
			<b>TOTAL CERRITOS</b>	<b>2,048</b>	<b>2,048</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Downey	MR315.03	Lakewood - Telegraph Intersection Improvements	2,120	2,120					
	Downey	MR315.14	Lakewood - Imperial Intersection Improvements	2,760	2,760					
	Downey	MR315.27	Lakewood - Florence Intersection Improvements	1,310	1,310					
	Downey	MR315.18	Bellflower - Imperial Highway Intersection Improvements	2,740	2,740					
			<b>TOTAL DOWNEY</b>	<b>8,930</b>	<b>8,930</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	LA County	MR315.07	Painter - Mulberry Intersection Improvements	2,410	760	1,650				
	LA County	MR315.11	Valley View - Imperial Intersection Improvements	1,640	1,640					
	LA County	MR315.15	Norwalk-Whittier Intersection Improvements	2,830	1,050	1,780				
	LA County	MR315.23	Carmenita - Telegraph Intersection Improvements	1,400	800	600				
	LA County	MR315.22	Norwalk-Washington Intersection Improvements	550	550					
C	LA County	TBD	South Whittier Bikeway Access Improvements (Call Match) F9511	800			155	645		
			<b>TOTAL LA COUNTY</b>	<b>9,630</b>	<b>4,800</b>	<b>4,030</b>	<b>155</b>	<b>0</b>	<b>645</b>	<b>0</b>
	Lakewood	MR315.36	Lakewood Blvd Regional Capacity Enhancement	3,600	1,000	2,600				
	Lakewood	MR315.04	Lakewood - Del Amo Intersection Improvements	5,504	5,504					
			<b>TOTAL LAKEWOOD</b>	<b>9,104</b>	<b>6,504</b>	<b>2,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

ATTACHMENT A

(Change Add Delete)	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Long Beach	TBD	2015 CFP - Artesia Complete Blvd (Call Match) F9130	900						900
	Long Beach	TBD	2015 CFP - Atherton Bridge & Campus Connection (Call Match) F9532	800						800
C	Long Beach	TBD	Park or Ride (Call Match) F9808	213		15	49	62	72	14
	Long Beach	MR315.60	Soundwall on I-605 near Spring Street, PAED and PSE	250	50	100	100			
	Long Beach	MR315.61	Lakewood - Spring Intersection Improvements, PSE and Construction	454	454					
	Long Beach	MR315.62	Bellflower - Spring Intersection Improvements, PSE and Construction	493	493					
			<b>TOTAL LONG BEACH</b>	<b>3,110</b>	<b>997</b>	<b>115</b>	<b>149</b>	<b>62</b>	<b>72</b>	<b>1,714</b>
	Norwalk	MR315.06	Studebaker - Rosecrans Intersection Improvements	1,670	1,670					
	Norwalk	MR315.10	Bloomfield - Imperial Intersection Improvements	920	920					
	Norwalk	MR315.17	Pioneer - Imperial Intersection Improvements	1,509	1,509					
	Norwalk	MR315.26	Studebaker - Alondra Intersection Improvements	480	480					
	Norwalk	MR315.43	Imperial Highway ITS Project, from San Gabriel River to Shoemaker Rd. (PAED, PS&E, CON)	3,380	3,380					
			<b>TOTAL NORWALK</b>	<b>7,959</b>	<b>7,959</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Pico Rivera	MR315.05	Rosemead - Beverly Intersection Improvements	8,474	4,251	4,223				
	Pico Rivera	MR315.09	Rosemead - Whittier Intersection Improvements	1,388	1,388					
	Pico Rivera	MR315.21	Rosemead - Washington Intersection Improvements	40	40					
	Pico Rivera	MR315.19	Rosemead - Slautson Intersection Improvements	2,195	2,195					
			<b>TOTAL PICO RIVERA</b>	<b>12,097</b>	<b>7,874</b>	<b>4,223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Santa Fe Springs	MR315.40	Valley View - Rosecrans Intersection Improvements, Construction	524	524					
	Santa Fe Springs	MR315.41	Valley View - Alondra Intersection Improvements, ROW & Construction	2,967	2,967					
	Santa Fe Springs	MR315.42	Florence Avenue Widening Project, from Orr & Day to Pioneer Blvd (PAED, PSE, ROW)	600	0	50	550			
			<b>TOTAL SANTA FE SPRINGS</b>	<b>4,091</b>	<b>3,491</b>	<b>50</b>	<b>550</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Whittier	MR315.44	Santa Fe Springs Whittier Intersection Improvements: PSE, ROW, Construction	1,568	1,568					
	Whittier	MR315.45	Painter Ave - Whittier Intersection Improvements: PSE, ROW, Construction	1,760	1,760					
	Whittier	MR315.46	Colima Ave - Whittier Intersection Improvements: PSE, ROW, Construction	1,646	1,646					
			<b>TOTAL WHITTIER</b>	<b>4,974</b>	<b>4,974</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
			<b>TOTAL I-605/SR-91/I-405 CORRIDORS "HOT SPOTS"</b>	<b>191,713</b>	<b>88,074</b>	<b>45,803</b>	<b>27,664</b>	<b>18,940</b>	<b>9,517</b>	<b>1,714</b>

\*Legend (C)change (A)dd (D)delete

Change = project budget adjustment, reprogramming, scope adjustment

Add = addition of new project to the subregional list

Delete = removal of project from subregional list



ATTACHMENT A

Measure R Highway Operational Improvements Project List  
I-710 South and/or Early Action Project List (Gateway Cities)

(Programmed Dollars in Thousands)

(Change (A)Add (D)Delete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
			<b>INTERSTATE 710 SOUTH EARLY ACTION PROJECT (14 projects -- 2 new)</b>	<b>148,082</b>	<b>97,788</b>	<b>41,256</b>	<b>7,500</b>	<b>0</b>	<b>0</b>	<b>183</b>
	GCCOG	MOU.306.03	GCCOG Engineering Support Services	1,700	1,600	100				
			<b>TOTAL GCCOG</b>	<b>1,700</b>	<b>1,600</b>	<b>100</b>				
	Metro	PS4720-3334	Program/Project Management Support of Measure R Funds	200	200					
	Metro	PS-4010-2540-02-17	I-710/I-5 Interchange Project Development	600	600					
	Metro	various	Professional Services contracts for I-710 Utility Studies (North, Central, South)	25,046	16,237	8,809				
	Metro	PS4340-1939	Professional Services contract for I-710 Corridor Project EIR/EIS	32,521	18,750	13,771				
	Metro	PS4710-2744	Professional Services contract for I-710 Soundwall Project Development	10,878	8,678	2,200				
	Metro	MOU.Calstart2 010	Professional Services contract for development of zero emission technology report	150	150					
C	Metro	TBD	I-710 ITS/Air Quality Early Action (Grant Match)	8,760		8,760				
A	Metro	TBD	FRATIS Modernization (Grant Match)	3,000			3,000			
	Metro	MR306.38	Sustainable Transportation Planning Grant (Grant Match)	64.78		64.78				
			<b>TOTAL METRO</b>	<b>81,220</b>	<b>44,615</b>	<b>33,605</b>	<b>3,000</b>			
C	POLA	MR306.40	I-710 Eco-FRATIS Drayage Truck Efficiency Project (Grant Match)	240		240				
			<b>TOTAL POLA</b>	<b>240</b>		<b>240</b>				
	Metro	USACE	Third Party Support Services for I-710 Corridor Project (US Army Corp of Eng)	100	100					
			<b>TOTAL USACE</b>	<b>100</b>	<b>100</b>					
	Metro	MR306.5B Edison	Third Party Support Services for I-710 Corridor Project (So Cal Edison)	1,623	1,223	400				
	Metro	MR306.39	I-710 Soundwall Project - SCE Utility Relocation Engineering Advance	75	0	75				
			<b>TOTAL SCE</b>	<b>1,698</b>	<b>1,223</b>	<b>475</b>				
	Caltrans	MR306.24	Reconfiguration of Firestone Blvd On-Ramp to I-710 S/B Freeway	1,450	1,450					
	Caltrans	MR306.27	Third Party Support for I-710 Corridor Project EIR/EIS Enhanced IQA	3,500	2,500	1,000				

ATTACHMENT A

(Change Add/ Delete)	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Caltrans	MR306.29	I-710 Early Action Project - Soundwall PA/ED Phase - Noise Study Only	100	100					
	LA County	MR306.16	TOTAL CALTRANS Staff Support for the Review of the Draft I-710 South EIR/EIS	5,050	4,050	1,000				
	Bell	MR306.37	TOTAL LA COUNTY Eastern at Bandini Rickenbacker Project (Call Match) F9200	98	98					
C	Bell	MR306.07	Staff Support for the Review of the Draft I-710 South EIR/EIS	178,602	150	178,602				
	Bell Gardens	MR306.08	TOTAL BELL Staff Support for the Review of the Draft I-710 South EIR/EIS	329	150	179				
	Bell Gardens	MR306.35	Florence/Jaboneria Intersection Project (Call Match) F9111	154	154					
C	Bell Gardens	MR306.30	Florence Ave/Eastern Ave Intersection Widening (Call Match) F7120	283	0	348		100		183
	Commerce	MR306.23	TOTAL BELL GARDENS Washington Blvd Widening and Reconstruction Project	348	0	348				
	Commerce	MR306.09	Staff Support for the Review of the Draft I-710 South EIR/EIS	785	154	348			100	183
	Compton	MR306.10	TOTAL COMMERCE Staff Support for the Review of the Draft I-710 South EIR/EIS	13,500	10,500	3,000				
	Downey	MR306.18	TOTAL COMPTON Staff Support for the Review of the Draft I-710 South EIR/EIS	75	75					
C	Downey	MR306.20	Paramount Blvd/Firestone Intersection Improvements (Complete)	13,575	10,575	3,000				
A	Downey	TBD	Firestone Blvd Improvement Project (Old River Rd. to West City Limits)	35	35					
	Downey	MR306.31	Lakewood Blvd Improvement Project	35	35					
	Huntington Park	MR306.36	TOTAL DOWNNEY Staff Support for the Review of the Draft I-710 South EIR/EIS	130	130					
	Long Beach	MR306.19	TOTAL HUNTINGTON PARK Shoemaker Bridge Replacement Project	3,169	3,169	1,500				
	Long Beach	MR306.11	Staff Support for the Review of the Draft I-710 South EIR/EIS	200	200					
	Long Beach	MR306.22	Atlantic Ave/Willow St Intersection Improvements	223	223					
	Maywood	MR306.12	TOTAL LONG BEACH Staff Support for the Review of the Draft I-710 South EIR/EIS	5,000	5,000	1,500				
			TOTAL MAYWOOD	8,522	8,522					

**ATTACHMENT A**

(C)change (A)dd (D)delete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
	Paramount	MR306.13	Staff Support for the Review of the Draft I-710 South EIR/EIS	130	130					
	Paramount	MR306.32	Garfield Ave Improvements	2,075	2,075					
			<b>TOTAL PARAMOUNT</b>	2,205	2,205					
	South Gate	MR306.14	Staff Support for the Review of the Draft I-710 South EIR/EIS	200	200					
	South Gate	MR306.17	Atlantic Ave/Firestone Blvd Intersection Improvements (Complete)	12,400	12,400					
	South Gate	MR306.33	Firestone Blvd Regional Corridor Capacity Enhancement Project	6,000	6,000					
A	South Gate	TBD	I-710 Soundwall Project - Package 1 Construction Phase	5,700		200	4,500	1,000		
			<b>TOTAL SOUTH GATE</b>	24,300	18,600	200	4,500	1,000		
	Vernon	MR306.15	Staff Support for the Review of the Draft I-710 South EIR/EIS	75	75					
	Vernon	MR306.25	Atlantic Blvd Bridge Widening and Rehabilitation	2,070	1,220	850				
			<b>TOTAL VERNON</b>	2,145	1,295	850				
			<b>TOTAL I-710 SOUTH AND EARLY ACTION PROJECTS</b>	<b>148,082</b>	<b>97,788</b>	<b>41,256</b>	<b>7,500</b>			<b>183</b>

**\*Legend (C)change (A)dd (D)delete\***

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Delete = removal of project from subregional list

**ATTACHMENT B**

Measure R Highway Operational Improvements Project List

**SR-138 Capacity Enhancements (North County)**

*(Programmed Dollars in Thousands)*

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	PROJECT/LOCATION	Total Allocation	Prior Years	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21
<b>SR-138 Capacity Enhancements (11 projects)</b>				<b>200,000</b>	<b>72,900</b>	<b>33,800</b>	<b>20,100</b>	<b>28,000</b>	<b>45,200</b>	
<b>10 Year Forecasted Funds In Long Range Plan (cumulative)</b>				<b>200,000</b>						
	Metro	MR330.01	SR-138 (AvenueD) PA/ED (I-5 to SR-14)	19,400	18,000	1,400				
	Caltrans	MR330.12	SR 138 Segment 6 Construction	5,600				5,600		
<b>TOTAL METRO</b>				<b>25,000</b>	<b>18,000</b>	<b>1,400</b>	<b>0</b>	<b>5,600</b>	<b>0</b>	<b>0</b>
	Lancaster	MR330.02	SR-138 (SR-14) Avenue K Interchange	15,000	5,000	10,000				
	Lancaster	MR330.03	SR-138 (SR-14) Avenue G Interchange	15,000	3,100				11,900	
	Lancaster	MR330.04	SR-138 (SR-14) Avenue J Interchange	10,000	2,300	1,000			6,700	
	Lancaster	MR330.05	SR-138 (SR-14) Avenue L Interchange	5,000	200	100	900		3,800	
	Lancaster	MR330.06	SR-138 (SR-14) Avenue M Interchange	20,000	3,900	500		15,600		
<b>TOTAL LANCASTER</b>				<b>65,000</b>	<b>14,500</b>	<b>11,600</b>	<b>900</b>	<b>15,600</b>	<b>22,400</b>	
	Palmdale	MR330.07	SR-138 Palmdale Blvd. (SR-138) 5th to 10th St. East	25,000	25,000					
	Palmdale	MR330.08	SR-138 Palmdale Blvd. SB 14 Ramps	25,000	4,100	2,500		6,800	11,600	
	Palmdale	MR330.09	SR-138 10th St. West Interchange	15,000	3,900	7,000	4,100			
	Palmdale	MR330.10	SR-138 (SR-14) Widening Rancho Vista Blvd. to Palmdale Blvd	25,000	6,600	8,800	9,600			
	Palmdale	MR330.11	SR-138 Avenue N Overcrossing	20,000	800	2,500	5,500		11,200	
<b>TOTAL PALMDALE</b>				<b>110,000</b>	<b>40,400</b>	<b>20,800</b>	<b>19,200</b>	<b>6,800</b>	<b>22,800</b>	
<b>TOTAL SR-138 CAPACITY ENHANCEMENTS</b>				<b>200,000</b>	<b>72,900</b>	<b>33,800</b>	<b>20,100</b>	<b>28,000</b>	<b>45,200</b>	

*Change = project budget adjustment, reprogramming, scope adjustment*

*Add = addition of new project to the subregional list*

*Delete = removal of project from subregional list*