



## Board Report

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### PLANNING AND PROGRAMMING COMMITTEE JUNE 15, 2016

**SUBJECT: MEASURE R HIGHWAY SUBREGIONAL PROGRAM (MRHSP)**

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

#### **RECOMMENDATION**

CONSIDER:

- A. APPROVING the updated **project list and changes in the funding levels for the Measure R Highway Subregional Program (MRHSP) in Arroyo Verdugo, Las Virgenes Malibu, South Bay, North County, and Gateway Cities Subregions** as shown in Attachment A.
- B. AUTHORIZING the Chief Executive Officer (CEO) to negotiate and execute all necessary agreements for approved projects.
- C. APPROVING time extension for 1 project as shown in Attachment B

#### **ISSUE**

The project lists for the MRHSP are updated to provide each subregion with the opportunity to revise the proposed Measure R Highway Program implementation plan. The updated attached 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 are the basis for Metro to enter into agreements with each respective implementing agency,

#### **DISCUSSION**

The Measure R Expenditure Plan included the following projects in the Highway Subregional Program

- 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 in South Bay
- State Route 138 Capacity Enhancements in North County
- I-605 Corridor "Hot Spots" Interchanges in Gateway Cities

- I-710 South and/or Early Action Projects in Gateway Cities

These projects are not fully defined in the Measure R Expenditure Plan. Definition, development, and implementation of specific projects are done through collaborative efforts by Metro's Highway Program staff, the respective COGs and the project sponsor.

At the December 2015 meeting, the Board approved revised project lists and funding allocations for the aforementioned projects. This update reflects the project changes recommended by each subregion. Highway Program staff is working closely with each subregion to identify and deliver Highway Operational Improvement Projects. The changes include an additional \$81 million in programming to support 12 projects, new or existing, as detailed in Attachment A.

A nexus determination has been completed for each new project added to the list. All of the projects on the attached project lists provide highway operational benefits and meet the highway operational improvement and ramp/interchange improvements definition approved by the Board in October 2009 as part of the adoption of Metro's Long Range Transportation Plan.

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

The updated list includes funding adjustments for current projects recommended by the Arroyo Verdugo Subregion. To date, through Measure R, the subregion has completed 10 projects and expended \$18.6 million into local investments. Additionally, the subregion currently has 11 active projects in various phases of project development.

The subregion is recommending the updated project list detailed in Attachment A, totaling \$61.5 million programmed.

The adjustments in the project list are as follows:

#### **City of Glendale**

- Program an additional \$185,471 in Prior Years for the City of Glendale's, SR-134 Glendale Ave. Interchange Modifications Project (MR310.16). The revised total project budget is \$1,585,471.

The City of Glendale advertised the project, and the lowest competitive bid came in above the original project estimate done in 2013.

- Deobligate \$480,000 in FY16-17 from the City of Glendale's, I-210 Soundwalls Project (MR310.25). The revised project budget is \$4,520,000. The deobligated funds will be reprogrammed to fund the Noise Barrier Scope Summary Report (NBSSR) led by Metro for the I-210 Soundwall project from Waltonia Dr. to Pennsylvania Ave. The remainder of the programmed funds will be used for future phases.

#### **County of Los Angeles**

- Deobligate \$320,000 in FY17-18 from LA County's Soundwalls on Interstate 210 in La Crescenta-Montrose project (MR310.44). The revised project budget is \$3,044,000. The deobligated funds will be reprogrammed to fund the Noise Barrier Scope Summary Report (NBSSR) led by Metro for the I-210 Soundwall project from Waltonia Dr. to Pennsylvania Ave. The remainder of the programmed funds will be used for future phases.

### Metro

- Program \$300,000 in FY16-17 and \$500,000 FY17-18, for the I-210 Soundwall Project. This project will fund an NBSSR study on I-210 from Waltonia Dr. to Pennsylvania Ave. The total project budget is \$800,000.

This project will conduct a Noise Barrier Scope Summary Report (NBSSR) on the I-210 freeway in Glendale and the unincorporated area of LA County. The study will include a noise analysis within the projects limits, and provide design considerations to mitigate traffic noise on properties adjacent to I-210.

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

This is a Soundwall project, which is an eligible operational improvement in the Arroyo Verdugo Subregion.

The subregion's project list, as detailed in Attachment A, totaling \$61.5 million, does not exceed the \$64 million forecast to be available for the subregion over FY11-20

### Highway Operational Improvements in the Las Virgenes-Malibu Subregion

The updated list includes funding adjustments for current projects recommended and approved by the Las Virgenes-Malibu Subregion. To date, through Measure R, the subregion has completed 4 projects and expended \$62.7 million into local investments. Additionally, the subregion currently has 16 active projects in various phases of project development.

The subregion is recommending the updated project list detailed in Attachment A, totaling \$128,351 million programmed.

The adjustments in the project list are as follows:

#### City of Agoura Hills

- Deobligate \$100,000 from the Kanan Road Overpass Expansion - PSR, PR, PS&E Project (MR311.14). The revised total project budget is \$150,000. The City has downscoped the project to provide funds to the Agoura Hills Multi-Modal Transportation Center Project.
- Program \$100,000 in FY16-17 for the Agoura Hills Multi-Modal Center Project. This is a new project being proposed by the City. The project budget will only be used for design and

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construction phases after review and approval of the final scope of the project by Metro and determination of eligibility for use of the Highway Operational Improvement funds.

The project will build a Regional Multi-Modal Transportation Center, which will include regional bus transit services and park and ride facilities. This project was one of the originally-identified Measure R projects for the City. However, it was not initially funded due to other priorities.

Measure R Nexus to Highway Operational Definition:

The City plans to build a transportation facility / park and ride lot that would serve as a central location for the multiple regional transit operators in the area such as Metro's 161 bus line, LA DOT's Commuter Express, Dial-A-Ride, and Kanan Shuttle and would promote mode shift resulting in less vehicles on the US-101 freeway and higher transit ridership. The goal of the project is to provide transit use options to commuters and trips to destinations outside the subregion, thereby reducing traffic volumes on the US-101. Final eligibility of the project will be determined upon finalization of the scope of the project.

City of Calabasas

- Program an additional \$7,000,000 in FY 16-17 for the City of Calabasas Lost Hills Road Overcrossing and Interchange Project (MR 311.06). The revised total project budget has increased to \$33,000,000. The City is programming additional funds to this project to address cost overruns resulting from changes in the design and increased construction costs. The project includes an increase in scope required by Caltrans to address U.S. 101 southbound on-ramp metering requirements.

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

The proposed revised project list includes funding adjustments for current projects recommended by the South Bay Cities Council of Governments. To date, through Measure R, the subregion has completed 13 projects and expended \$42 million into local investments. Additionally, the subregion currently has 29 active projects in various phases of project development.

The subregion is recommending the updated project list detailed in Attachment A, totaling \$233 million.

The adjustments in the project list are as follows:

City of Carson

- Program \$65,000 in FY16-17 and \$85,000 in FY17-18 for the City of Carson's Traffic Signal Control Upgrades at Figueroa St. and 234<sup>th</sup> St. and Figueroa St. and 228<sup>th</sup> St (MR312.46). The total project budget is \$150,000.

This project will upgrade the traffic signal equipment at the intersection of Figueroa St. and 234<sup>th</sup>

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by replacing the poles, signal heads and controllers. This project will also add left turn phases on the east and west approaches at the Figueroa St. and 228<sup>th</sup> intersection.

Measure R Nexus to Highway Operational Definition:

Figueroa St. in the City of Carson runs immediately parallel to I-110 and currently carries 10,000 cars a day. This principal arterial functions as a bypass to I-110, serving short commuter trips and longer regional trips when there are incidents on I-110. The improvements at these two intersections will improve traffic flow on Figueroa St., especially during peak hours, when traffic exiting I-110 at the Sepulveda Blvd. and 223<sup>rd</sup> St. ramps, combined with the regional north-south traffic, overwhelms the existing operational capacity of the intersections. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

- Program \$500,000 in FY16-17 and \$900,000 in FY17-18 for City of Carson's Traffic Signal Upgrades at 10 Intersections (MR312.41). The Total project budget is \$1,400,000.

This project is at the intersections of: 1) Figueroa and Victoria St, 2) Main St. and 220<sup>th</sup>, 3) Main St and Victoria St, 4) Main St and Albertoni, 5) Broadway at Victoria St., 6) Broadway and Albertoni St, 7) Broadway and Gardena, 8) Broadway at Alondra 9) Mid Block Cross Walk on Broadway south of Albertoni St. and 10) Figueroa and 223<sup>rd</sup> St.

Measure R Nexus to Highway Operational Definition:

The 10 intersections improvements are immediately adjacent or in very close proximity to five of the major freeway on/off-ramps serving the City of Carson: 1) I-110 on/off ramps located on 190<sup>th</sup> /Victoria Avenue, 2) SR-91 on/off ramps on Main St., 3) SR-91 on/off ramps on Albertoni St. and 4) I-405 on/off ramps at S. Main St., and 5) I-405 on/off ramps at 220<sup>th</sup> St. Traffic from freeways at local interchanges adversely impacts the operations of these intersections. Improving traffic flow at the 10 arterial intersections in close proximity to the freeway on/off ramps will help distribute traffic coming from SR-91, I-110 and I-405. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

City of Gardena

- Deobligate \$720,000 in FY20-21 from the Redondo Beach Blvd. Arterial Improvements Project from Crenshaw Blvd. to Vermont Ave. (Call Match). This project did not receive funding through the 2015 Call For Projects program.
- Deobligate \$380,000 in FY20-21 from the Crenshaw Blvd. Arterial Improvements Project from Redondo Beach Blvd. to El Segundo Blvd. (Call Match). This project did not receive funding through the 2015 Call For Projects program.
- Deobligate \$1,140,000 in FY20-21 for the Park and Ride Lots on the SW Corners of El Segundo Blvd. at Vermont Ave. and at Western Ave. (Call Match). This project did not receive funding through the 2015 Call For Projects program.

- Deobligate \$1,200,000 in FY20-21 from the Normandie Ave. Arterial Improvements Project from El Segundo Blvd. to 177<sup>th</sup> Street (Call Match). This project did not receive funding through the 2015 Call For Projects program.
- Program \$40,000 in FY16-17 and \$1,460,000 in FY17-18 for the City of Gardena's Traffic Signal Reconstruction on Vermont Ave Project, at Redondo Beach Blvd and Rosecrans Ave (MR312.02). The total project budget is \$1,500,000.

The proposed project will include traffic signal upgrades, turning pockets and channelization at Rosecrans Ave and Vermont Ave and Redondo Beach Blvd. and Vermont Ave. These intersections are projected to operate at LOS F in the future. The proposed improvements will improve the two intersections to a LOS D.

Measure R Nexus to Highway Operational Definition:

Vermont Ave. runs immediately parallel to I-110 and currently carries 21,000 cars a day. This principal arterial is a bypass to I-110, serving both short commuter trips and longer regional trips when there are incidents on I-110. The proposed improvements will improve traffic flow on Vermont Ave. at two intersections currently operating at a LOS E during the peak hours, when traffic from the I-110 on/off ramps at Rosecrans Ave. and Redondo Beach Blvd. (adjacent to these intersections) overwhelms the existing operational capacity. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

- Program \$80,000 in FY16-17, \$180,000 in FY17-18, and \$2,263,000 in FY18-19 for the City of Gardena's Artesia Blvd. Arterial Improvement Project, from Western Ave to Vermont Ave (MR312.09). The total project budget is \$2,523,000.

The proposed project will include traffic signal upgrades on Artesia Blvd at Normandie and Western, turn pockets where feasible and traffic channelization. The Normandie Ave and Vermont Ave intersections currently operate at a level of service (LOS) E and are projected to operate at a LOS F in the future. The proposed improvements will improve the LOS to D.

Measure R Nexus to Highway Operational Definition:

Artesia Blvd. is the western terminus of SR-91. Therefore, Artesia Blvd. functions as a collector for regional traffic in route to or coming from SR-91. Current Average Daily Traffic (ADT) on Artesia Blvd. is 50,000 cars. The proposed improvements will reduce vehicle hours of delay at the three major intersections closest to the SR-91 terminus, thereby helping better disperse regional traffic coming from SR-91. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

City of Hawthorne

- Reprogram \$200,000 from FY17-18 to FY16-17 for the City of Hawthorne Signal Improvements Project from 118<sup>th</sup> St. to Marine Ave. (MR312.47). The project budget will remain unchanged. However, the City of Hawthorne is ready to commence work on the

project.

- Program \$1,000,000 in FY16-17 and \$1,000,000 in FY17-18 for the City of Hawthorne's Intersection Widening & Traffic Signal Modifications project (MR312.54). The project budget is \$2,000,000.

The proposed project will install and upgrade traffic signals at multiple intersections, construct left turn lanes at the intersection of Crenshaw Blvd. and Rocket Road, and construct right hand turn lanes at Inglewood and El Segundo Blvd - both principal arterials. Each of the intersection is less than ¼ of a mile from I-105 or I-405. The proposed improvements address geometric deficiencies in the intersections which currently are operating deficiently due to the speed, volume of traffic, and the high volume of turning movements.

#### Measure R Nexus to Highway Operational Definition

The proposed intersection improvements are located in very close proximity to the I-405 on/off ramps at El Segundo Blvd, and the I-105 on/off ramps at Crenshaw Blvd. Crenshaw Blvd. currently carries 33,000 cars a day and El Segundo Blvd. currently carries 32,000 cars a day in the City of Hawthorne. These intersection improvements will help improve traffic flow on these principal arterials, especially during the peak hours when traffic coming from the I-105 or I-405 on/off ramps overwhelms the operational capacity of the intersections. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

- Program \$600,000 in FY16-17, \$1,000,000 in FY17-18 and \$2,800,000 in FY18-19 for the City of Hawthorne's, Hawthorne Blvd Arterial Improvements project from 120<sup>th</sup> St. to 111<sup>th</sup> St. (MR312.61). The total project budget is \$4,400,000.

The proposed project will reduce vehicular delays and improve pedestrian crossings by adding bulb outs at intersections, reducing pedestrian crossing distance to enable shorter cycle lengths. The project will also modify on street parking along Hawthorne Blvd. to provide storage pockets for left-turn traffic. Traffic signals will also be upgraded.

#### Measure R Nexus to Highway Operational Definition

Within City limits, Hawthorne Blvd. is a major arterial carrying 30,000 cars a day and providing a vital connection to SR-107 and I-105. The proposed improvements will reduce vehicle hours of delay at a number of intersections adjacent to the I-105 on/off ramps, thereby improving traffic flow on Hawthorne Blvd and the on/off ramps, especially during the peak hours when traffic

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coming from I-105 overwhelms the operational capacity of the intersections. Based on the City's traffic analysis, the intersections are currently operating at a deficient level of service.

### City of Hermosa Beach

- Program \$400,000 in FY16-17 and \$1,400,000 in FY17-18 for the City of Hermosa Beach's PCH/Aviation Blvd Improvements Project (MR312.63). The total project budget is \$1,800,000.

This project will reduce vehicle hours of delay on PCH in the City of Hermosa Beach. The proposed improvements will include only those scope elements that can be validated through a traffic analysis, do not significantly impact ROW and reduce delay and increase throughput without degrading the existing capacity of the facility. This corridor currently carries approximately 53,000 cars a day on PCH within the City of Hermosa and is one of the poorest performing corridors in the South Bay.

### Measure R Nexus to Highway Operational Definition

This project will reduce vehicle hours of delay on PCH in the City of Hermosa Beach, a State Highway. Intersection improvements, signal upgrades, and left-turn lanes are all viable options considered to increase throughput on PCH.

### City of Manhattan Beach

- Program \$50,000 in FY16-17 and \$850,000 in FY17-18 for the City of Manhattan Beach's Sepulveda Blvd Improvements (MR312.62). The total project budget is \$900,000.

This project will improve the traffic flow and LOS on Sepulveda Blvd. The project will provide operational improvements at 5 intersections along Sepulveda Blvd: Rosecrans Ave, 33rd St, Cedar Ave, 14th St & 2nd St. Each of these intersections are deficient and the turning movements impact the flow on Sepulveda Blvd (SR-1).

### Measure R Nexus to Highway Operational Definition

This project will provide turnouts at 5 intersections on Sepulveda Blvd to allow a more efficient flow of traffic on Sepulveda Blvd (SR-1). All of the intersections are located on (SR-1).

### Metro

- Program \$70,000 in FY16-17 and \$100,000 in FY17-18 for the Western Ave (SR-213), from Palos Verdes Drive North to Gardena, Project Study Report (PSR). The total project budget is \$170,000.
- Program \$70,000 in FY16-17 and \$100,000 in FY17-18 for the Pacific Coast Highway (SR-1) from the Eastern Boundary of Carson to Eastern Boundary of Torrance, PSR. The total project budget is \$170,000.



The PSR will identify deficiencies on the corridors, and prescribe improvements that will reduce congestion and operational deficiencies.

#### Measure R Nexus to Highway Operational Definiton

These are planning studies on State Highways that will analyze the existing conditions of the corridors and prescribe improvements.

#### City of Rancho Palos Verdes

- Program \$30,000 in FY16-17 and \$60,000 in FY17-18 for City of Rancho Palos Verdes' Western Ave. (SR-213) from Palos Verdes Drive North to 25th street - PSR (MR312.39). The total project budget is \$90,000.

The PSR will identify deficiencies on the corridors, and prescribe improvements that will reduce congestion and operational deficiencies.

#### Measure R Nexus to Highway Operational Definiton

This is a planning study on State Highways that will analyze the existing conditions of the corridors and prescribe improvements.

#### City of Torrance

- Deobligate \$3,500,000 in FY20-21 for the Western Ave at Sepulveda Blvd Intersection Improvements Project (Call Match). This project did not receive funding through the 2015 Call For Project program.
- Deobligate \$740,000 in FY20-21 for the Hawthorne Blvd Corridor Intersection Improvements Project (Lomita Blvd, Emerald, Spencer, and 182<sup>nd</sup> St.) (Call Match). This project did not receive funding through the 2015 Call for Projects program.

#### State Route 138 Capacity Enhancements

The project list for State Route 138 Capacity Enhancements does not include adjustments. There are currently 11 active projects in various phases of project development. The implementing agencies in the North County have expended \$14 million in local investments.

#### I-605 Corridor "Hot Spots" Interchanges

The proposed revised project list includes adjustments in schedules, scopes, funding for current projects and Third Party support services, and the addition of two new projects within the Gateway Cities. To date, through Measure R, the subregion has invested \$25 million in local improvements

and has 21 active projects.

The I-605/SR-91/I-405 Technical Advisory Committee (TAC) is recommending the revised project list detailed in Attachment A totaling \$188.7 million.

The project list adjustments are as follows:

Metro

- Program an additional \$28,000,000 for the I-605/SR-60 Project Approval and Environmental Document (PA/ED) (AE2259). The funds will be programmed over 5 fiscal years as follows; \$1,000,000 in FY15-16, \$7,000,000 in FY-16-17, \$8,000,000 in FY 17-18, \$8,000,000 in FY18-19, and \$8,000,000 in FY 19-20. Previously \$2,000,000 in FY15-16 had been programmed. The total project budget is \$34,000,000.
- Program an additional \$6,763,000 for the SR-91/I-605 (PA/ED) (AE476110012334). The funds will be programmed over 4 fiscal years as follows; \$263,000 in FY15-16, \$3,200,000 in FY16-17, \$3,100,000 in FY17-18, and \$1,200,000 in FY18-19. The previous \$1,000,000 programmed in Prior Years will be reprogrammed into FY15-16. The total project budget is \$7,763,000.
- Program \$24,000,000 for I-605 Freeway Early Action Projects. Metro will initiate multiple consultant contracts to complete environmental and design services for selected I-605 Freeway Hot Spots. These projects have independent utility and can be advanced ahead of the freeway-to-freeway interchange projects. Construction of these projects can begin within three years. The funds will be programmed in one Fiscal Year, FY16-17.

Caltrans

- Program \$3,650,000 for the I-605/SR-60 PA/ED for Enhanced Independent Quality Assurance. The funds will be programmed over 5 fiscal years: \$400,000 in FY15-16, \$850,000 in FY16-17, \$800,000 in FY17-18, and \$800,000 in FY18-19, \$800,000 in FY19-20.
- Program an additional \$1,919,000 for Third Party Support Services of the I-605/I-5 Interchange PA/ED to perform Enhanced Independent Quality Assurance reviews. The funds will be programmed over 4 fiscal years as follows, \$150,000 in FY16-17, \$500,000 in FY17-18, \$500,000 in FY18-19, and \$770,000 in FY19-20. The \$150,000 programmed in Prior Years will

be reprogrammed into FY15-16. The total project budget is \$2,069,800.

- Program an additional \$676,000 for Third Party Support Services of the SR-91/I-605 PA/ED to perform Enhanced Independent Quality Assurance reviews. The funds will be programmed over 4 fiscal years as follows; \$26,300 in FY15-16, \$220,000 in FY16-17, \$310,000 in FY17-18, and \$120,000 in FY18-19. Additionally, reprogram \$100,000 from Prior Years to FY16-17. The total project budget is \$776,300.

#### City of Artesia

- Deobligate \$360,000 in FY20-21 from the City of Artesia's Norwalk Blvd Bicycle and Pedestrian Improvement Project (Call Match). This project did not receive funding through the 2015 Call For Projects program.

#### City of Downey

- Program an additional \$840,444 in FY15-16 for the City of Downey's Belflower-Imperial Highway Intersection Improvements Project (MR315.18). The revised total project budget is \$2,740,444.

The City of Downey advertised the project, and the lowest competitive bid came in above the original project estimate. The additional funds will be used to pay for higher than expected costs for completing Final Design, Right-Of-Way acquisitions, litigation, and to award the construction contract to the lowest bidder.

#### County of Los Angeles

- Deobligate \$700,000 in FY20-21 for the County of Los Angeles' Indiana St. to Paramount Blvd Project (Call Match). The County did not receive funding through the 2015 Call For Projects program.

#### City of Lakewood

- Program an additional \$2,274,300 for the Del Amo Blvd at Lakewood Blvd Intersection Improvement Project (MR315.04). The additional funds will be programmed in FY15-16, the total budget is \$5,504,300.

This project was included in the initial 33 arterial “hot spots” of the I-605 Program, approved by the SR-91/I-605/I-405 Corridors Cities Committee and the Metro Board. The initial programming of funds was based on conceptual plans (for various improvements, including two additional right-turn pockets) developed and contained in the I-605 Hot Spot Feasibility Report (2013). As the City of Lakewood completed PA/ED, preliminary engineering revealed that additional widening would be needed on Lakewood Blvd, on a storm drain channel bridge, in order to accommodate the additional lanes. The structures work for the bridge widening, in addition to other unanticipated project costs, require more funding.

### City of Norwalk

- Program \$3,380,400 for the Imperial Highway ITS Project, from San Gabriel River to Shoemaker Road. Funding will be programmed over one Fiscal Year, FY 15-16. This is a new highway operational improvement project.

The project will improve arterial traffic signal operations on Imperial Highway, within the City of Norwalk. The major project components consist of closing a Fiber Optic gap, upgrading traffic signal poles to existing standards, upgrading curb ramps to meet ADA requirements, adding CCTV cameras to enhance corridor monitoring, adding new system detectors (where existing ones have deteriorated) and upgrading the central traffic signal control servers that connect to the County’s Information Exchange Network and Traffic Management Center. This project will be compatible with the County of LA’s Traffic Signal Synchronization (TSSP) and Intelligent Transportation System (ITS) subregional plan. With the funding that is being programmed, the City of Norwalk will complete the PAED, PS&E and Construction of the project.

### Measure R Nexus to Highway Operational Definition

Because of its location in close proximity to the I-5/I-605 interchange, Imperial Blvd. functions as an alternative connector between the two freeways. Furthermore, because I-105 terminates on Imperial Hwy., and does not connect to I-5, Imperial Hwy. also functions as a connector for NB I-5 traffic connecting to WB I-105, and EB I-105 traffic connecting to I-5 South. During the peak hours, traffic from I-5, I-605 and I-105 freeways utilizes Imperial Blvd. as a by-pass. The improvements to traffic flow on Imperial Blvd. will help improve traffic flow and relief congestion for traffic coming to and from these three freeways.

### City of Pico Rivera

- Program an additional \$4,434,000 for the Rosemead Blvd. at Beverly Intersection Improvement Project (MR315.05). The revised project budget is \$8,474,000. The initial

programming of funds was based on conceptual plans developed and contained in the I-605 Hot Spot Feasibility Report (2013). As the City of Pico Rivera completed PAED, the preliminary engineering revealed that additional funds were needed to complete PS&E and to obtaining the Right of Way necessary for the project. This project was included in the initial 33 arterial “hot spots” of the I-605 Program, approved by the SR-91/I-605/I-405 Corridors Cities Committee and the Metro Board.

- Program an additional \$788,000 to the Rosemead Blvd. at Whittier Blvd. (SR-72) Intersection Improvement Project (MR315.09). The revised project budget is \$1,388,000. The initial programming of funds was based on conceptual plans developed and contained in the I-605 Hot Spot Feasibility Report (2013). As the City of Pico Rivera completed PAED, the preliminary engineering revealed that additional funds are needed to complete the project. This project was included in the initial 33 arterial “hot spots” of the I-605 Program, approved by the SR-91/I-605/I-405 Corridors Cities Committee and the Metro Board.
- Program an additional \$425,000 to the Rosemead Blvd. at Slauson Ave. Intersection Improvement Project (MR315.19). The revised project budget is \$2,195,000. The initial programming of funds was based on conceptual plans developed and contained in the I-605 Hot Spot Feasibility Report (2013). As the City of Pico Rivera completed PAED, the preliminary engineering revealed that additional funds are needed to complete the project. This project was included in the initial 33 arterial “hot spots” of the I-605 Program, approved by the SR-91/I-605/I-405 Corridors Cities Committee and the Metro Board.

#### City of Santa Fe Springs

- Program \$600,000 for the Florence Avenue Widening Project, from Orr & Day Rd. to Pioneer Blvd. Funds will be programmed in two fiscal years: \$50,000 in FY 16-17 and \$550,000 in FY 17-18. This is a new highway operational improvement project.

This project will widen Florence Avenue for approximately ½ mile, and will use portions of the adjacent frontage roads to accomplish the widening with minimal Right of Way impacts. There will also be a new signal installation at Ringwood Ave./Lake center Park Lane, which will facilitate vehicular turn movement and pedestrian access. The funds will be used to complete PAED, PS&E, and Right of Way Acquisition.

#### Measure R nexus to Highway Operational Definition

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The Florence Ave. on/off ramps at I-5 and I-605 are less than ¼ mile apart. Traffic from coming to and from both I-5 and I-605 overwhelms the operational capacity at the adjacent intersections and roadway segments. The proposed street widening will improve traffic flow through this segment, immediately adjacent to the freeway on/off ramps.

The subregion's project list, as detailed in Attachment A, totaling \$184 million, exceeds the \$164.8 million forecast to be available for the subregion over FY11-20. Due to project delays, staff verified that there is enough cash flow to stay within the first decade programming allocation. Staff will return to the Board with periodic updates on the status of cash flow availability.

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

The proposed revised project list includes adjustments in schedules, scopes, funding for current projects and Third Party support services, and the addition of one new project within the Gateway Cities. To date, through Measure R, the subregion has invested \$57 million in local improvements and has 21 active projects.

The I-710 South Technical Advisory Committee (TAC) and I-710 South Project Committee are recommending the revised project list detailed in Attachment A totaling \$142.3 million.

The project list adjustments are as follows:

#### **Metro**

- Programming an additional \$2,800,000 in FY16-17 for additional utility and structures studies required for all three of the I-710 Utility Studies (North, Central, and South segments). The revised project budget is \$25,046. Due to changes to the I-710 South EIR/EIS, the three utility studies will also require a scope modification to reflect all the changes in the project alternatives; the modification amount was approved by the Board at its September and October 2015 meetings.
- Programming an additional \$8,700,000 in FY16-17 for the I-710 Corridor Project EIR/EIS. The revised project budget is \$32,521,000. Due to significant project alternative changes, the contract scope required a modification to conduct additional studies. The modification amount was approved by the Board at its October 2015 meeting.
- Programmed an additional \$12,000,000 in FY16-17 as match funding to current and upcoming ITS/Zero Emission Technology grant opportunities. The total project budget is \$12 million. The grant opportunities will be for projects that can be delivered as part of the early action program for the I-710 Corridor.
- Program \$75,000 in FY16-17 for engineering and environmental review services to Southern California Edison (SCE) for their support of the I-710 Soundwall Early Action Program. The total project budget is \$75,000. SCE will work on utility relocation designs of their facilities.

County of Los Angeles

- Deobligate \$700,000 in FY20-21 from Los Angeles County's Whittier Blvd (Indiana to Paramount) Corridor Project (Call Match). This project did not receive funding through the 2015 Call For Projects program.

City of Bell

- Deobligate \$155,000 in FY20-21 from the City of Bell's Eastern at Bandini Rickernbacker Project. This project did not receive funding through the 2015 Call For Projects program.

City of Bell Gardens

- Reprogram \$348,000 from FY17-18 to FY16-17, for the City of Bell Gardens Florence/Eastern Ave Intersection Project. This project was included in the initial I-710 Early Action arterial program, approved by the I-710 Project Committee and the Metro Board.

City of Long Beach

- Deobligate \$1,200,000 in FY20-21 from the City of Long Beach's, Great 7<sup>th</sup> St - Connectivity Project (Call Match). This project did not receive funding through the 2015 Call For Projects program.
- Deobligate \$160,000 in FY20-21 from the City of Long Beach's, LA River Gap Closures Project (Call Match). This project did not receive funding through the 2015 Call For Projects program.

City of South Gate

- Deobligate \$600,000 in FY20-21 from the City of South Gate's, South Gate Regional Bikeway Connectivity Program (Call Match). This project did not receive funding through the 2015 Call For Projects program.

City of Vernon

- Program an additional \$18,000 in FY16-17 for Staff Support Services of the Draft I-710 South EIR/EIS, to the City of Vernon, increasing the programmed amount to \$75,000. The funds are requested for the cost of review of Draft I-710 South EIR/EIS documents, including meetings with the I-710 Project Team, the I-710 TAC, I-710 Project Committee and other related I-710 meetings. The Staff Support Services work is only for the I-710 EIR/EIS. Funding for staff time in support of the I-710 EIR/EIS was originally approved by the Board in 2012.

The proposed updates to the I-710 South and / or Early Action projects list exceed the \$101.9 million forecasted to be available for the I-710 South and / or Early Action over FY11-20. Due to project

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delays, staff verified that there is enough cash flow to stay within the first decade programming allocation. Staff will return to the Board with periodic updates on the status of cash flow availability.

### **DETERMINATION OF SAFETY IMPACT**

The recertification of project list and funding allocations will have no adverse impact on the safety of Metro's patrons and employees.

### **FINANCIAL IMPACT**

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

Funding for Metro's portion of 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 20% Measure R Highway Capital Funds via funding agreements to Caltrans, and the Cities of Palmdale and Lancaster under Cost Center 0442 in Account 54001 (Subsidies to Others).

Funding for projects in the I-605/SR-91/I-405 Corridor "Hot Spots" and I-710 Early Action Project lists are included in the FY17 budget.

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

#### **Impact to Budget**

The source of funds for these projects is Measure R 20% Highway. This fund source is not eligible for Bus and Rail Operations or Capital expenses.

### **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 LRTP adoption and may delay project delivery.

### **NEXT STEPS**

Metro Highway Program staff will continue to work with the subregions to continue to identify new and deliver their existing projects. As the work progresses, updates will be provided to the board on a periodic basis.

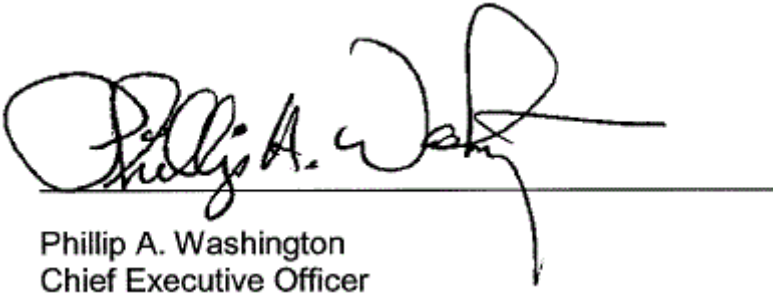
### **ATTACHMENTS**



Attachment A - Measure R Highway Subregional Project lists

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Phillip A. Washington  
Chief Executive Officer

## ATTACHMENT A

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

Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget process)

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
<b>Arroyo Verdugo Operational Improvements (38 projects - 3 New)</b>				<b>61,510</b>	<b>34,974</b>	<b>6,735</b>	<b>2,428</b>	<b>9,109</b>	<b>7,964</b>	<b>0</b>
<b>10 Year Forecasted Funds In Long Range Plan (cumulative)</b>				<b>64,000</b>						
	Burbank	MR310.06	San Fernando Blvd. / Burbank Blvd. Intersection	2,325	2,325					
	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					
	Burbank	MR310.07	Widen Magnolia Blvd / I-5 Bridge for center-turn lane, standard lanes, shoulders	3,967		250			3,717	
	Burbank	MR310.11	Olive Ave. / Verdugo Ave. Intersection Improvement	1,600	1,600					
	Burbank	MR310.10	Widen Olive Ave / I-5 Bridge for center-turn lane, standard width lanes, shoulders	3,897		250			3,647	
	Burbank	MR310.23	Chandler Bikeway Extension (Call for Projects Local Match)	600					600	
<b>TOTAL BURBANK</b>				<b>17,964</b>	<b>9,500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>7,964</b>	<b>0</b>
	Glendale	MR310.12	Glendale FWY Ramps/Space 134	293	93	200				
	Glendale	MR310.22	Glendale Narrows Riverwalk Bridge	600	600					
	Glendale	MR310.24	Construction of Bicycle Facilities	300	300					
	Glendale	MR310.01	Fairmont Ave. Grade Separation at San Fernando Rd. (Construction) <b>(Completed)</b>	1658.7	1,658.7					
	Glendale	MR310.04	San Fernando/Grandview At-Grade Rail Crossing Imp. <b>(Completed)</b>	1,850	1,850					
	Glendale	MR310.13	Glendale Narrows Bikeway Culvert	876.5	876.5					
C	Glendale	MR310.16	SR-134 / Glendale Ave. Interchange Modification	1,585	1,585.5					
	Glendale	MR310.14	Verdugo Road Signal Upgrades <b>(Completed)</b>	557	557					
	Glendale	MR310.19	Traffic Signal Sync Brand / Colorado-San Fernando / Glendale-Verdugo <b>(Completed)</b>	1,250	1,250					
	Glendale	MR310.20	Verdugo Rd / Honolulu Ave / Verdugo Blvd Intersection Modification <b>(Completed)</b>	400	400					
	Glendale	MR310.05	Central Ave Improvements / Broadway to SR-134 EB Offramp <b>(Completed)</b>	3,250	3,250					
	Glendale	MR310.18	Sonora Avenue At-Grade Rail Crossing Safety Upgrade <b>(Completed)</b>	2,700	2,700					
	Glendale	MR310.21	Colorado St. Widening between Brand Blvd. and East of Brand Blvd. <b>(Completed)</b>	350	350					
	Glendale	MR310.37	Verdugo Boulevard Rehabilitation (Verdugo Road to E'ly City Boundary)	1,000		1,000				
	Glendale	MR310.36	Signalizations of SR-2 Fwy Ramps @ Holly	600			100	500		
	Glendale	MR310.39	Widening of SR-2 Fwy Ramps @ Mountain	1,200			150	1,050		
C	Glendale	MR310.25	210 Soundwalls Project	4,520			1,520	3,000		
	Glendale	MR310.35	Signal Installations at Various Locations	1,500	750	750				

## ATTACHMENT A

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
	Glendale	MR310.30	North Brand Boulevard Rehabilitation (Freeway 134 to Mountain Street)	1,000				1,000		
	Glendale	MR310.32	Regional Arterial Performance Measures	100				100		
	Glendale	MR310.34	Regional Bike Stations (Call Match)	315				315		
	Glendale	MR310.40	Pacific Ave: Colorado to Glenoaks & Burchett St: Pacific To Central Street Improvements	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.) <b>(Completed)</b>	900	900					
	Glendale	MR310.43	Verdugo Rd. Street Improvements Project (Traffic Signal Modification)	585		585				
	Glendale	MR310.27	Verdugo Wash: Cycle Track	408	50	300	58			
	Glendale	MR310.17	Ocean Blvd. Project -- from Verdugo Rd. to N'ly City Boundaries	1,000		1,000				
<b>TOTAL GLENDALE</b>				<b>33,314</b>	<b>20,486</b>	<b>5,035</b>	<b>1,828</b>	<b>5,965</b>	<b>0</b>	<b>0</b>
	La Canada Flintridge	MR310.03	Soundwalls on Interstate I-210 <b>(Completed)</b>	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>4,588</b>	<b>600</b>	<b>600</b>	<b>600</b>	<b>0</b>	<b>0</b>
C	LA County	MR310.44	Soudwalls on Interstate I-210 in LA Crescenta-Montrose	3,044	400	600		2,044		
<b>TOTAL LA COUNTY</b>				<b>3,044</b>	<b>400</b>	<b>600</b>	<b>0</b>	<b>2,044</b>	<b>0</b>	<b>0</b>
A	Metro		NBSSR Soundwalls on I-210 Glendale/La Crescenta-Montrose	800			300	500		
<b>METRO</b>				<b>800</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>500</b>	<b>0</b>	<b>0</b>
<b>TOTAL ARROYO VERDUGO</b>				<b>61,510</b>	<b>34,974</b>	<b>6,735</b>	<b>2,728</b>	<b>9,109</b>	<b>7,964</b>	<b>0</b>

5 Year Allocation

**ATTACHMENT A**

**Las Virgenes/Malibu Operational Improvements**

Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Eleven-Year Allocation (Fiscal Years subject to MTA priority setting & budget process)

(C)hange (A)dd	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
<b>Las Virgenes/Malibu Operational Improvements</b>				<b>128,351</b>	<b>77,270</b>	<b>31,431</b>	<b>13,250</b>	<b>6,400</b>		
<b>10 Year Forecasted Funds In Long Range Plan (cumulative)</b>				<b>128,351</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					
	Westlake Village	MR311.10	Rte 101/ Lindero Cyn. Rd. Interchange Improvements, Phase 3B,4B Construction	3,661	3,591.000	70				
	Westlake Village	MR311.18	Rte 101/ Lindero Cyn. Rd. Interchange Improvements, Phase 3A Construction	8,969	8,969.000					
	Westlake Village	MR311.19	Highway 101 Park and Ride Lot (Construction)	4,983.605	4,558.250	425.355				
<b>TOTAL WESTLAKE VILLAGE</b>				<b>18,201.000</b>	<b>17,705.65</b>	<b>495</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Agoura Hills	MR311.03	Palo Comando Interchange	7,350	5,600	1,750				
	Agoura Hills	MR311.04	Aguora Road/Kanan Road Intersection Improvements	1,000	1,000					
	Agoura Hills	MR311.05	Agoura Road Widening	32,000	20,250	11,750				
C	Agoura Hills	MR311.14	Kanan Road Overpass Expansion -- PSR, PR, PS&E	150	150					
A	Agoura Hills	MR311.15	Agoura Hills Multi-Modal Center	100			100			
<b>TOTAL AGOURA HILLS</b>				<b>40,600</b>	<b>27,000</b>	<b>13,500</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	Calabasas	MR311.06	Lost Hills Overpass and Interchange	33,000	21,000	5,000	7,000			
	Calabasas	MR311.07	Mulholland Highway Scenic Corridor Completion	4,389.8	2,250	2,139.8				
	Calabasas	MR311.08	Las Virgenes Scenic Corridor Widening	5,746.2	2,350	3,396.2				
	Calabasas	MR311.09	Parkway Calabasas/US 101 SB Offramp	214	214					
	Calabasas	MR311.20	Off-Ramp for US 101 at Las Virgenes Road	500	500					
	Calabasas	MR311.33	Park and Ride Lot on or about 23577 Calabasas Road (near Route 101)	3,700	3,200	500				
<b>TOTAL CALABASAS</b>				<b>47,550</b>	<b>29,514</b>	<b>11,036</b>	<b>7,000</b>	<b>0</b>	<b>0</b>	<b>0</b>

## ATTACHMENT A

(C)hange (A)dd	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
	Malibu	MR311.24	Malibu/Civic Center Way Widening	3,000	150	2,100	750			
	Malibu	MR311.26	PCH-Raised Median and Channelization from Webb Way to Corral Canyon Road	6,950	550	2,500	900	3,000		
	Malibu	MR311.27	PCH Intersections Improvements	1,000	0		1,000			
	Malibu	MR311.28	Kanan Dume Road Arrestor Bed Improvements and Intersection with PCH (Construction)	900	900					
	Malibu	MR311.29	PCH Regional Traffic Message System (CMS)	500	0	500				
	Malibu	MR311.30	PCH Roadway and Bike Route Improvements fr. Busch Dr. to Western City Limits	500	500					
	Malibu	MR311.32	PCH and Big Rock Dr. Intersection and at La Costa Area Pedestrian Improvements	950	950					
	Malibu	MR311.35	Pacific Coast Highway Shoulder Improvements (Various Locations)	3,500	0	500	1,500	1,500		
	Malibu	MR311.11	PCH Signal System Improvements from John Tyler Drive to Topanga Canyon Blvd	3,700	0	300	1,500	1,900		
<b>TOTAL MALIBU</b>				<b>21,000</b>	<b>3,050</b>	<b>5,900</b>	<b>5,650</b>	<b>6,400</b>	<b>0</b>	<b>0</b>
	Hidden Hills	MR311.34	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	1,000	0	500	500			
<b>TOTAL HIDDEN HILLS</b>				<b>1,000</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL LAS VIRGENES/MALIBU</b>				<b>128,351</b>	<b>77,270</b>	<b>31,431</b>	<b>13,250</b>	<b>6,400</b>	<b>0</b>	<b>0</b>
5 Year Allocation										

**ATTACHMENT A**

INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)												
Measure R Highway Operational Improvements Project List						(Programmed Dollars in Thousands)						
Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority settings & budget processes)												
(C)hange (A)dd (D)elete	Lead	Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
<b>INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)</b>					<b>233,024</b>	<b>120,064</b>	<b>21,698</b>	<b>24,549</b>	<b>32,438</b>	<b>23,738</b>	<b>10,537</b>	<b>0</b>
<b>10 Year Forecasted Funds In Long Range Plan (Cumulative)</b>					<b>237,000</b>							
	SBCCOG	MR312.01	South Bay Cities COG Program Development & Oversight and Program Administration <b>(Project Development Budget Included)</b>		13,375	8,904	860	1,900	500	594	617	
<b>TOTAL SBCCOG</b>					<b>13,375</b>	<b>8,904</b>	<b>860</b>	<b>1,900</b>	<b>500</b>	<b>594</b>	<b>617</b>	<b>0</b>
	Caltrans	MR312.11	ITS: I-405, I-110, I-105, SR-91 at Freeway Ramp/Arterial Signalized Intersections		5,000	5,000						
	Metro/ Caltrans	MR312.24	I-110 Aux lane from SR-91 to Torrance Blvd Aux lane & I-405/I-110 Connector		20,000	1,450	2,000	5,900	5,900	4,750	0	
	Metro/ Caltrans	MR312.25	I-405 at 182nd St. / Crenshaw Blvd Improvements		20,000	1,700	300	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					1,000		
<b>TOTAL CALTRANS</b>					<b>55,000</b>	<b>17,150</b>	<b>2,300</b>	<b>7,900</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						
A	Carson	MR312.46	Upgrade Traffic Control Signals at the Intersection of Figueroa St and 234th St. and Figueroa and 228th st.		150			65	85			
A	Carson	MR312.41	Traffic Signal Upgrades at 10 Intersections		1,400			500	900			
<b>TOTAL CARSON</b>					<b>2,708</b>	<b>1,158</b>	<b>0</b>	<b>565</b>	<b>985</b>	<b>0</b>	<b>0</b>	<b>0</b>
	El Segundo	MR312.22	Maple Ave Improvements from Sepulveda Blvd to Parkview Ave. <b>(Completed)</b>		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>	<b>0</b>
	Gardena	MR312.17	Rosecrans Ave Improvements from Vermont Ave to Crenshaw Blvd <b>(Completed)</b>		5,140	5,140						
	Gardena	MR312.19	Artesia Blvd at Western Ave Intersection Improvements (Westbound left turn lanes) <b>(Completed)</b>		675	675						
	Gardena	MR312.21	Vermont Ave Improvements from Rosecrans Ave to 182nd Street <b>(Completed)</b>		2,350	2,350						
D	Gardena		Redondo Beach Blvd Arterial Improvements from Crenshaw Blvd to Vermont Ave <b>(Call Match)</b>		0							
D	Gardena		Crenshaw Blvd Arterial Improvements from Redondo Beach Blvd to El Segundo Blvd <b>(Call Match)</b>		0							
D	Gardena		Park and Ride Lots at Southwest corners of El Segundo Blvd at Vermont Ave and at Western ave <b>(Call Match)</b>		0							
D	Gardena		Normandie Ave Arterial Improvements from El Segundo Blvd to 177th Street <b>(Call Match)</b>		0							

**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
C	Gardena	MR312.02	Traffic Signal Reconstruction on Vermont at Redondo Beach Blvd and at Rosecrans Ave.	1,500			40	1,460			
C	Gardena	MR312.09	Artesia Blvd Arterial Improvements from Western Ave to Vermont Ave	2,523			80	180	2,263		
<b>TOTAL GARDENA</b>				<b>12,188</b>	<b>8,165</b>	<b>0</b>	<b>120</b>	<b>1,640</b>	<b>2,263</b>	<b>0</b>	<b>0</b>
	Hawthorne	MR312.03	Rosecrans Ave Widening from I-405 SB off ramp to Isis Ave <b>(Completed)</b>	2,100	2,100						
	Hawthorne	MR312.33	Aviation Blvd at Marine Ave Intersection Improvements (Westbound right turn lane)	3,600	600	3,000					
	Hawthorne	MR312.44	Hawthorne Blvd Improvements from El Segundo Blvd to Rosecrans Ave <b>(Completed)</b>	7,551	7,551						
C	Hawthorne	MR312.47	Signal Improvements on Prairie Ave from 118th St. to Marine Ave.	1,237			200	418	619		
A	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			1,000	1,000			
A	Hawthorne	MR312.61	Hawthorne Blvd Arterial Improvements, from 120th St to 111th St.	4,400			600	1,000	2,800		
<b>TOTAL HAWTHORNE</b>				<b>20,888</b>	<b>10,251</b>	<b>3,000</b>	<b>1,800</b>	<b>2,418</b>	<b>3,419</b>	<b>0</b>	<b>0</b>
	Hermosa Beach	MR312.05	PCH (SR-1/PCH) Improvements between Anita St. and Artesia Boulevard	304	304						
	Hermosa Beach	MR312.38	Pacific Coast Highway at Aviation Blvd Intersection Improvements (Southbound left turn lanes)	872		872					
C	Hermosa Beach	MR312.63	PA/ED on PCH from Aviation Blvd to Prospect Ave	1,800			400	1,400			
<b>TOTAL HERMOSA BEACH</b>				<b>2,976</b>	<b>304</b>	<b>872</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>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						
	LA City	MR312.51	Improve Anaheim St. from Farragut Ave. to Dominguez Channel <b>(Call Match)</b> F7207	1,100		148.54	133.89	817.07			
<b>TOTAL LA CITY</b>				<b>1,200</b>	<b>100</b>	<b>149</b>	<b>134</b>	<b>817</b>	<b>0</b>	<b>0</b>	<b>0</b>
	LA County	MR312.16	Del Amo Blvd improvements from Western Ave to Vermont Ave	26,820	1,900	5,000	5,000	5,000	5,000	4,920	
	LA County	MR312.52	ITS: Improvements on South Bay Arterials	1,021				401	620		
<b>TOTAL LA COUNTY</b>				<b>27,841</b>	<b>1,900</b>	<b>5,000</b>	<b>5,000</b>	<b>5,401</b>	<b>5,620</b>	<b>4,920</b>	<b>0</b>
	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	1,500	1,500						
	Lawndale	MR312.49	Redondo Beach Blvd Mobility Improvements from Prairie to Artesia <b>(Call Match)</b>	1,600				800		800	
	Lawndale	MR312.53	Bike Lanes on Hawthorne Blvd. frm Rosecrans Ave to Manchester Beach Blvd	47		12		35			
<b>TOTAL LAWDALE</b>				<b>3,647</b>	<b>2,000</b>	<b>12</b>	<b>0</b>	<b>835</b>	<b>0</b>	<b>800</b>	<b>0</b>

**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	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	0
	Manhattan Beach	MR312.04	Sepulveda Blvd at Marine Ave Intersection Improvements (West Bound left turn lanes) <b>(Completed)</b>	365	365						
	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					
A	Manhattan Beach	MR312.62	Sepulveda Blvd Operational Improvements at Rosecrans Ave, 33rd St, Cedar Ave, 14th St and 2nd St.	900			50	850			
<b>TOTAL MANHATTAN BEACH</b>				12,845	9,465	2,480	50	850	0	0	0
	Metro/Caltran	MR312.30	Feasibility Study for I-405 from I-110 to I-105 and I-105 from I-405 to I-110	700			300	400			
A	Metro/Caltran	MR312.48	Western Ave. (SR-213) from Palos Verdes Drive North to Gardena -- PSR	170			70	100			
A	Metro/Caltran	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 <b>(Completed)</b>	250	250						
	Metro	MR312.31	Inglewood Transit Center at Florence/La Brea	1,500		260	1,240				
<b>TOTAL METRO</b>				2,790	250	260	1,680	600	0	0	0
A	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			
	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 <b>(Completed)</b> (Eastbound right turn lane)	22	22						
	Redondo Beach	MR312.14	Inglewood Ave at Manhattan Beach Blvd intersection improvements (Eastbound right turn lane) <b>(Completed)</b>	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	310	4,865					
<b>TOTAL REDONDO BEACH</b>				8,380	3,515	4,865	0	0	0	0	0



**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	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 <b>(Completed)</b> (Southbound right turn lane)	600	600						
	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	100	400					
	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	1,800	1,500					
D	Torrance		Western Ave at Sepulveda Blvd Intersection Improvements <b>(Call Match)</b>	0							0
D	Torrance		Hawthorne Blvd Corridor Intersection Improvements (Lomita Blvd, Emerald, Spencer, and 182nd St) <b>(Call Match)</b>	0							
<b>TOTAL TORRANCE</b>				<b>61,152</b>	<b>49,252</b>	<b>1,900</b>	<b>5,000</b>	<b>5,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL SOUTH BAY</b>				<b>233,024</b>	<b>120,064</b>	<b>21,698</b>	<b>24,549</b>	<b>32,438</b>	<b>23,738</b>	<b>10,537</b>	<b>0</b>
Second 5 Year Allocation											

**ATTACHMENT A**

**SR-138 Capacity Enhancements**

Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget process)

(C)hange (A)dd	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
<b>SR-138 Capacity Enhancements</b>				<b>200,000</b>	<b>42,700</b>	<b>30,200</b>	<b>36,400</b>	<b>23,100</b>	<b>22,400</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)	25,000	13,000	5,000	4,000	3,000		
<b>TOTAL METRO</b>				<b>25,000</b>	<b>13,000</b>	<b>5,000</b>	<b>4,000</b>	<b>3,000</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	800	2,300				11,900
	Lancaster	MR330.04	SR-138 (SR-14) Avenue J Interchange	10,000	300	2,000	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	1,100	2,800	500		15,600	
<b>TOTAL LANCASTER</b>				<b>65,000</b>	<b>7,200</b>	<b>7,300</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	14,500	10,500				
	Palmdale	MR330.08	SR-138 Palmdale Blvd. SB 14 Ramps	25,000	1,600	2,500	2,500		6,800	11,600
	Palmdale	MR330.09	SR-138 10th St. West Interchange	15,000	2,400	1,500	7,000	4,100		
	Palmdale	MR330.10	SR-138 (SR-14) Widening Rancho Vista Blvd. to Palmdale Blvd	25,000	3,600	3,000	8,800	9,600		
	Palmdale	MR330.11	SR-138 Avenue N Overcrossing	20,000	400	400	2,500	5,500		11,200
<b>TOTAL PALMDALE</b>				<b>110,000</b>	<b>22,500</b>	<b>17,900</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>42,700</b>	<b>30,200</b>	<b>36,400</b>	<b>23,100</b>	<b>22,400</b>	<b>45,200</b>
5 Year Allocation										

**ATTACHMENT A**

I-605/SR-91/I-405 Corridors "Hot Spots"											
Measure R Highway Operational Improvements Project List											
Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority settings & budget processes)											
(Programmed Dollars in Thousands)											
(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
<b>INTERSTATE 605/STATE ROUTE 91/INTERSTATE 405 CORRIDOR "HOT SPOTS"</b>				<b>188,770</b>	<b>46,416</b>	<b>39,968</b>	<b>54,264</b>	<b>18,085</b>	<b>18,588</b>	<b>8,800</b>	<b>2,650</b>
<b>10 Year Forecasted Funds In Long Range Plan (Cumulative)</b>				<b>164,800</b>							
	GCCOG	MOU.306.03	GCCOG Engineering Support Services	300	200	100					
	GCCOG	MR315.29	Gateway Cities Third Party Support	100	100						
<b>TOTAL GCCOG</b>				<b>400</b>	<b>300</b>	<b>100</b>					
	Metro	PS4720-3334	Program/Project Management Support of Measure R Funds	200	100	100					
	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	473	100					
	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						
C	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		
C	Metro	AE476110012334	Professional Services for the I-605/SR-91 PA/ED	7,763		263	3,200	3,100	1,200		
	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	200	100					
A	Metro	MR315.50	Freeway Early Action Projects (PA/ED & PS&E)	24,000			24,000				
<b>TOTAL METRO</b>				<b>114,075</b>	<b>23,683</b>	<b>8,353</b>	<b>41,041</b>	<b>16,100</b>	<b>16,898</b>	<b>8,000</b>	<b>0</b>
	Caltrans	MR315.28	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-60 PSR-PDS	260	260						
A	Caltrans	MR315.47	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-60 PA/ED	3,650		400	850	800	800	800	
C	Caltrans	MR315.24	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/I-5 PA/ED	2,070		300	500	500	770		
C	Caltrans	MR315.08	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I-605/SR-91 PA/ED	776		26	320	310	120		
	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				
<b>TOTAL CALTRANS</b>				<b>7,050</b>	<b>320</b>	<b>885</b>	<b>1,745</b>	<b>1,610</b>	<b>1,690</b>	<b>800</b>	<b>0</b>

**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Previous Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
D	Artesia		2015 CFP- Norwalk Blvd Bicycle and Pedestrian Improvement Project (Call Match)	0							
<b>TOTAL ARTESIA</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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>0</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>0</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						
C	Downey	MR315.18	Bellflower - Imperial Highway Intersection Improvements	2,740	1,900	840					
<b>TOTAL DOWNEY</b>				<b>8,930</b>	<b>8,090</b>	<b>840</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	585	175	1,650				
	LA County	MR315.11	Valley View - Imperial Intersection Improvements	1,640	475	1,165					
	LA County	MR315.15	Norwalk-Whittier Intersection Improvements	2,830	750	300	1,780				
	LA County	MR315.23	Carmenita - Telegraph Intersection Improvements	800	325	475					
	LA County	MR315.22	Norwalk-Washington Intersection Improvements	550	250	300					
	LA County	F9511	South Whittier Bikeway Access Improvements (Call Match)	800							800
D	LA County		Whittier Blvd - Indiana St to Paramount Blvd (Call Match)	0							
<b>TOTAL LA COUNTY</b>				<b>9,030</b>	<b>2,385</b>	<b>2,415</b>	<b>3,430</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800</b>
	Lakewood	MR315.36	Lakewood Blvd Regional Capacity Enhancement	3,600		1,000	2,600				
C	Lakewood	MR315.04	Lakewood -Del Amo Intersection Improvements	5,504	3,230	2,274					
<b>TOTAL LAKEWOOD</b>				<b>9,104</b>	<b>3,230</b>	<b>3,274</b>	<b>2,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Long Beach	F9130	2015 CFP - Artesia Complete Blvd (Call Match)	900							900
	Long Beach	F9532	2015 CFP - Atherton Bridge & Campus Connection (Call Match)	800							800
	Long Beach	F9808	Park or Ride (Call Match)	150							150
	Long Beach	MR315.60	Soundwall on I-605 near Spring Street, PAED and PSE	250		50	100	100			
	Long Beach	MR315.61	Lakewood - Spring Intersction 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>3,047</b>	<b>0</b>	<b>997</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>1,850</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	308	1,201					
	Norwalk	MR315.26	Studebaker - Alondra Intersection Improvements	480	100	380					
A	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>4,579</b>	<b>2,998</b>	<b>1,581</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
C	Pico Rivera	MR315.05	Rosemead - Beverly Intersection Improvements	8,474	3,000	1,251	4,223				
C	Pico Rivera	MR315.09	Rosemead - Whittier Intersection Improvements	1,388	600	788					
	Pico Rivera	MR315.21	Rosemead - Washington Intersection Improvements	40	40						
C	Pico Rivera	MR315.19	Rosemead - Slauson Intersection Improvements	2,195	1,770	425					
<b>TOTAL PICO RIVERA</b>				<b>12,097</b>	<b>5,410</b>	<b>2,464</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					
A	Santa Fe Springs	MR315.42	Florence Avenue Widening Project, from Orr & Day to Pioneer Blvd (PAED, PSE, ROW)	600			50	550			
<b>TOTAL SANTA FE SPRINGS</b>				<b>3,491</b>	<b>0</b>	<b>3,491</b>	<b>0</b>	<b>0</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>0</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>188,770</b>	<b>46,416</b>	<b>39,968</b>	<b>54,264</b>	<b>18,085</b>	<b>18,588</b>	<b>8,800</b>	<b>2,650</b>

5 Year Allocation

**ATTACHMENT A**

I-710 South and/or Early Action Project List											
Measure R Highway Operational Improvements Project List											
(Programmed Dollars in Thousands)											
Proposed Project List and Ten-Year Program (Fiscal Years subject to MTA priority settings & budget processes)											
(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
<b>INTERSTATE 710 SOUTH EARLY ACTION PROJECT</b>				<b>142,112</b>	<b>67,095</b>	<b>30,690</b>	<b>44,053</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>258</b>
<b>10 Year Forecasted Funds In Long Range Plan (Cumulative)</b>				<b>101,900</b>							
	GCCOG	MOU.306.03	GCCOG Engineering Support Services	1,600	1,300	300					
<b>TOTAL GCCOG</b>				<b>1,700</b>	<b>1,300</b>	<b>300</b>	<b>100</b>				
	Metro	PS4720-3334	Program/Project Management Support of Measure R Funds	200	100	100					
	Metro	PS-4010-2540-02-17	I-710/I-5 Interchange Project Development	600	600						
C	Metro	various	Professional Services contracts for I-710 Utility Studies (North, Central, South)	25,046	14,497	1,740	8,809				
C	Metro	PS4340-1939	Professional Services contract for I-710 Corridor Project EIR/EIS	32,521	15,442	3,308	13,771				
	Metro	PS4710-2744	Professional Services contract for I-710 Soundwall Project Development	10,878	6,424	2,254	2,200				
	Metro	MOU.Calstart 2010	Professional Services contract for development of zero emission technology report	150	150						
A	Metro	TBD	I-710 ITS/Air Quality Early Action <b>(Grant Match)</b>	12,000			12,000				
<b>TOTAL METRO</b>				<b>81,395</b>	<b>37,213</b>	<b>7,402</b>	<b>36,780</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	Third Party Support Services for I-710 Corridor Project (So Cal Edison)	1,623	1,023	200	400				
A	Metro	TBD	I-710 Soundwall Project - SCE Utility Relocation Engineering Advance	75			75				
<b>TOTAL SCE</b>				<b>1,698</b>	<b>1,023</b>	<b>200</b>	<b>475</b>				
	Caltrans	MR306.24	Reconfiguration of Firestone Blvd On-Ramp to I-710 S/B Freeway	1,450	250	1,200					
	Caltrans	MR306.27	Third Pary Support for I-710 Corridor Project EIR/EIS Enhanced IQA	3,500	600	1,900	1,000				
	Caltrans	MR306.29	I-710 Early Action Project - Soundwall PA/ED Phase - Noise Study Only	100	100						
<b>TOTAL CALTRANS</b>				<b>5,050</b>	<b>950</b>	<b>3,100</b>	<b>1,000</b>				
D	LA County		Whittier Blvd (Indiana to Paramount) Corridor Project <b>(Call Match)</b>	0							
	LA County	MR306.16	Staff Support for the Review of the Draft I-710 South EIR/EIS	98	98						
<b>TOTAL LA COUNTY</b>				<b>98</b>	<b>98</b>						<b>0</b>
D	Bell	TBD	Eastern at Bandini Rickenbacker Project <b>(Call Match)</b>	0							
	Bell	MR306.07	Staff Support for the Review of the Draft I-710 South EIR/EIS	150	150						
<b>TOTAL BELL</b>				<b>150</b>	<b>150</b>						
	Bell Gardens	MR306.08	Staff Support for the Review of the Draft I-710 South EIR/EIS	154	154						
	Bell Gardens	MR306.35	Florence/Jaboneria Intersection Project <b>(Call Match)</b>	258							258
C	Bell Gardens	MR306.30	Florence Ave/Eastern Ave Intersection Widening	348			348				
<b>TOTAL BELL GARDENS</b>				<b>760</b>	<b>154</b>		<b>348</b>				<b>258</b>

**ATTACHMENT A**

(C)hange (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	Commerce	MR306.23	Washington Blvd Widening and Reconstruction Project	13,500	3,500	7,000	3,000				
	Commerce	MR306.09	Staff Support for the Review of the Draft I-710 South EIR/EIS	75	75						
<b>TOTAL COMMERCE</b>				<b>13,575</b>	<b>3,575</b>	<b>7,000</b>	<b>3,000</b>				
	Compton	MR306.10	Staff Support for the Review of the Draft I-710 South EIR/EIS	35	35						
<b>TOTAL COMPTON</b>				<b>35</b>	<b>35</b>						
	Downey	MR306.18	Staff Support for the Review of the Draft I-710 South EIR/EIS	130	130						
	Downey	MR306.20	Paramount Blvd/Firestone Intersection Improvements	3,390	3,390						
	Downey	MR306.31	Lakewood Blvd Improvement Project	5,000	1,500	3,500					
<b>TOTAL DOWNEY</b>				<b>8,520</b>	<b>5,020</b>	<b>3,500</b>					
	Huntington Park	MR306.36	Staff Support for the Review of the Draft I-710 South EIR/EIS	15	15						
<b>TOTAL HUNTINGTON PARK</b>				<b>15</b>							
	Long Beach	MR306.19	Shoemaker Bridge Replacement Project	5,500	1,000	3,000	1,500				
	Long Beach	MR306.11	Staff Support for the Review of the Draft I-710 South EIR/EIS	200	200						
D	Long Beach		2015 CFP - Great 7th St - Connectivity <b>(Call Match)</b>	0							
D	Long Beach		2015 CFP - LA River Gap Closures <b>(Call Match)</b>	0							
	Long Beach	MR306.22	Atlantic Ave/Willow St Intersection Improvements	300	300						
<b>TOTAL LONG BEACH</b>				<b>6,000</b>	<b>1,500</b>	<b>3,000</b>	<b>1,500</b>				<b>0</b>
	Maywood	MR306.12	Staff Support for the Review of the Draft I-710 South EIR/EIS	65	65						
<b>TOTAL MAYWOOD</b>				<b>65</b>	<b>65</b>						
	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	1,625	450					
<b>TOTAL PARAMOUNT</b>				<b>2,205</b>	<b>1,755</b>	<b>450</b>					
	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	12,400	12,400						
D	South Gate		South Gate Regional Bikeway Connectivity Program <b>(Call Match)</b>	0							
	South Gate	MR306.33	Firestone Blvd Regional Corridor Capacity Enhancement Project	6,000	1,500	4,500					
<b>TOTAL SOUTH GATE</b>				<b>18,600</b>	<b>14,100</b>	<b>4,500</b>					
C	Vernon	MR306.15	Staff Support for the Review of the Draft I-710 South EIR/EIS	75	57	18					
	Vernon	MR306.25	Atlantic Blvd Bridge Widening and Rehabilitation	2,070		1,220	850				
<b>TOTAL VERNON</b>				<b>2,145</b>	<b>57</b>	<b>1,238</b>	<b>850</b>				
<b>TOTAL I-710 SOUTH AND EARLY ACTION PROJECTS</b>				<b>142,112</b>	<b>67,095</b>	<b>30,690</b>	<b>44,053</b>	<b>0</b>			<b>258</b>
						5 Year Allocation					