

## South Bay Cities Council of Governments

November 9, 2015

TO: SBCCOG Steering Committee

FROM: Jacki Bacharach, Executive Director  
Steve Lantz, Transportation Director

SUBJECT: South Bay Highway Program (SBHP) 2016-2017 Metro Budget Request (MBR)

### **Adherence to Strategic Plan:**

*Goal A: Environment, Transportation, and Economic Development.* Facilitate, implement, and/or educate members and others about environmental, transportation, and economic development programs that benefit the South Bay. Strategy 5 – Actively pursue opportunities for infrastructure funding for member agencies.

### **BACKGROUND**

Over the past four months, SBCCOG staff and consultants have worked with the SBCCOG Infrastructure Working Group and lead agencies to determine the cash flow needs for existing and new South Bay Highway Program (SBHP) projects during the upcoming fiscal year and over the life of each project. SBCCOG and South Bay lead agencies have compiled the FY 2016-17 Metro Budget Request (see Exhibit A) consistent with new policies approved by the Steering Committee and ratified by the SBCCOG Board of Directors at its October 22, 2015 meeting.

Since the SBCCOG Board of Directors does not meet in December, Board action is needed at the November 19, 2015 meeting in order to comply with Metro's submittal deadline of December 31, 2015. SBCCOG Board recommendations are subject to Metro's review and concurrence as to the eligibility of the requested projects and the Measure R SBHP funding share of project costs. Metro staff will make its recommendations to the Metro Board of Directors in the Spring of 2016. The Metro Board approved SBHP Budget Request (MBR) will be incorporated into the Metro 2016-17 budget (effective July 1, 2016.)

In addition to the MBR, SBCCOG staff and consultants have worked with lead agencies to compile a comprehensive list of project and study costs that can be anticipated between FY2017 and FY 2022 (see Exhibit B).

### **FY 2016-17 METRO BUDGET REQUEST**

The MBR (Exhibit A) identifies Measure R South Bay Highway Program cash flow requirements for FY 2016-17. The MBR includes a schedule of projected reimbursement costs for SBHP projects, studies and administrative costs. The combined total request for FY16-17 totals nearly \$40.8 million. In combination with actual and anticipated SBHP expenditures of \$103.8 million by June 30, 2016, the cumulative projected expenditure from 2011 through 2017 total more than \$144.5 million.

Consistent with the adopted SBHP Funding Policy, an incremental funding scale is being used for projects based on the size of the project. Under the new cost-sharing policies, the SBHP maximum share for projects would be calculated as follows:

- Feasibility studies, PSRs and PSREs - Reimbursed at 100% to a maximum of \$200,000;
- Projects less than \$2 million in cost - Up to 100% reimbursed for a maximum of \$2 million;
- Projects between \$2 million and \$10 million - A non-SBHP match is required. SBHP funding share is limited to \$2 million + 80% of project costs between \$2 million and \$10 million for a maximum SBHP share of \$8.4 million.
- Projects larger than \$10 million - A non-SBHP match is required. SBHP funding share is up to 100% of the first \$2 million in project costs + 80% of project costs between \$2 million and \$10 million + 50% of the remaining project costs above \$10 million.

All projects and studies in the FY 16-17 MBR are either less than \$10 million or the requests are for preparation of initial studies and PAEDs for future-year projects in which project alternatives and environmental clearance have not been completed and detailed cost estimates are not available.

#### FY2017-2022 COMPREHENSIVE PROJECT AND STUDY LIST

SBCCOG staff also has worked with lead agencies to compile a more comprehensive magnitude-of-cost estimate of the cash flow needed in future years to complete the previously-approved projects, the recommended new projects, and projects that would be requested in future years as a result of the current and recommended studies. (see Exhibit B). The estimate is helpful to understand future annual cash flow needs in the context of Metro's Measure R annual allocation forecasts in the 2008 Measure R Expenditure Plan (Line 33 – South Bay Ramps and Interchange Improvements: I-405, I-110, I-105, and SR-91).

The conceptual cost of the comprehensive list of studies and projects (Exhibit B) totals more than \$500 million by the end of FY 2021-22. The Metro Measure R Expenditure plan estimates that there will be a total of \$310 million in Measure R available over the same period. While there is sufficient funding to complete the projects and studies currently being requested and more accurate cash flow estimates will be available as the future projects are more fully developed and environmentally cleared in the next few years, it is clear that costs to complete new projects that implement current studies will greatly exceed funding capacity over the same timeframe. In reviewing the magnitude-of-cost estimates for future projects, it is likely several lead agencies will request funding for projects in excess of \$10 million. .

As a result, significant matching funds will need to be secured, project scopes will need to be modified, projects will need to be prioritized and phased over longer timeframes, and some large projects will likely need to be deferred until Measure R funding is available..

The SBCCOG will need to identify matching fund sources and adopt stringent project prioritization policies in the upcoming South Bay Highway Program Implementation Plan Update to enable the new policies to be used in future Metro Budget Request processes.

RECOMMENDATIONS

Recommend SBCCOG Board approval of the FY 2016-17 SBHP Metro Budget Request (Exhibit A) and transmittal of the request to Metro by December 31, 2015; and

Recommend that the SBCCOG Board receive and file the magnitude-of-cost cash flow funding estimates to complete existing and future SBHP projects identified in Exhibit B.

Exhibit A: FY 2016/2017 South Bay Highway Program Metro Budget Request

Metro Project ID FA Type		Phase	Lead Agency / Description	Phase Cost	Measure R Share	Est. Reimburse. by 6/30/16	2016-2017 (FY 17)				16-17 TOTAL
						Q1 16-17 July- Sept	Q2 16-17 Oct-Dec	Q3 16-17 Jan-March	Q4 16-17 April-June		
<b>ADMINISTRATIVE</b>											
Administration & Miscellaneous Expense				\$869,071	\$869,071	\$840,931	\$7,035	\$7,035	\$7,035	\$7,035	\$28,140
Program Development and Misc. Expenses (development, oversight, and intergovernmental relation)				\$2,958,009	\$2,958,009	\$2,439,624	\$129,595	\$129,596	\$129,597	\$129,597	\$518,385
Feasibility Studies (previous reimbursement)				\$496,661	\$496,661	\$496,661					\$0
<b>ACTIVE FEASIBILITY/PLANNING STUDIES</b>											
EXECUTED MR312.57 PD	Feasibility Study	City of El Segundo Park Place from Nash St. to Allied Way. Roadway extension and railroad grade separation	\$350,000	\$350,000	\$150,000		\$150,000				\$150,000
EXECUTED FEAS STUDY SBHP TO 2015-1	Feasibility Study	Port of LA Vincent Thomas Bridge (SR-47) I-110 Connector	\$1,000,000	\$1,000,000	\$112,000	\$290,000	\$314,000	\$234,000	\$50,000		\$888,000
EXECUTED MR312.24	PA/ED	Caltrans PAED I-110 Auxiliary lane from SR-91 to Torrance Blvd Auxiliary lane & 405/110 Connector	\$1,500,000	\$1,500,000	\$1,500,000						\$0
EXECUTED MR312.25	PA/ED	Caltrans PAED I-405 at 182nd St./Crenshaw Boulevard	\$1,700,000	\$1,700,000	\$1,700,000						\$0
EXECUTED MR312.56	PA/ED	City of Los Angeles Review of Feas. Study on Del Amo Blvd from Western Ave to Vermont Ave.	\$100,000	\$100,000	\$3,277	\$24,181	\$24,181	\$24,181	\$24,181		\$96,723
EXECUTED MR312.16	PA/ED	Los Angeles County Del Amo Boulevard from Normandie Boulevard to Vermont Ave	\$1,900,000	\$1,900,000	\$1,900,000						\$0
<b>COMMITTED FEASIBILITY/PLANNING STUDIES</b>											
COMMITTED MR312.30	Feasibility Study	Caltrans I-405 from I-110 to I-105 and I-105 from I-405 to Crenshaw. Corridor Refinement Studies	\$700,000	\$700,000		\$75,000	\$75,000	\$75,000	\$75,000		\$300,000
COMMITTED MR312.45	PA/ED	Caltrans PAED/Implement an Integrated Corridor Management System along the SR-110 Corridor between Artesia Boulevard and the I-405. The project will integrate freeway, arterial and transit operations, implement a Decision Support System for coordinated agency operations and traveler information systems.	\$1,000,000	\$1,000,000							\$0
COMMITTED SBHP TO 2014-1	Feasibility Study	City of El Segundo Aviation Blvd, Douglas St. and El Segundo Blvd. Commuter Bikeways Study	\$150,000	\$150,000			\$150,000				\$150,000
COMMITTED FEAS STUDY SBHP TO #.#	Feasibility Study	City of Torrance Pacific Coast Highway (SR-1) / Hawthorne Blvd. (SR-107) Park & Ride Feasibility Study	\$150,000	\$150,000							\$0
COMMITTED FEAS STUDY SBHP TO #.#	Feasibility Study	City of Torrance 182nd St from Kingsdale Ave to Harbor Gateway Transit Center (e/o Vermont Ave.); feasibility of study various corridor improvements (intersection improvements, ITS, bicycle facilities, etc.).	\$300,000	\$300,000				\$300,000			\$300,000
<b>NEW REQUEST FOR FEASIBILITY/PLANNING STUDIES</b>											
Requested	Feasibility Study	Caltrans I-405 from I-110 to I-105 (including a mile on either side of the freeway); Identify and prioritize operational improvements (aux. lanes, interchange configuration) to reduce travel delay.	\$700,000	\$0		\$50,000	\$50,000	\$75,000	\$75,000		\$250,000
Requested	PSR	Caltrans SR-1 from eastern boundary of Carson to eastern boundary of Torrance - PSR	\$170,000	\$170,000				\$85,000	\$85,000		\$170,000
Requested	PSR	Caltrans Western Ave. (SR-213) from Palos Verdes Drive North to northern boundary of Gardena - PSR	\$170,000	\$170,000				\$85,000	\$85,000		\$170,000
Requested	Feasibility Study	City of Carson Avalon Boulevard Bridge over the Dominguez Channel; Investigate feasibility of an additional lane on the west side for a bike lane and widening of the east side sidewalk to improve flow in a constrained location.	\$60,000	\$0							\$0
Requested	PA/ED	City of El Segundo PA/ED Park Place from Nash St to Allied Way- Roadway extension and railroad grade separation, including utility and railroad relocation and construction.	TBD	TBD				\$1,000,000			\$1,000,000
Requested	PA/ED + Est Const/ ROW funding	City of Hermosa Beach PA/ED Aviation Bl from PCH to Prospect Ave - Arterial Improvements.	\$1,800,000 PA/ED, \$42m Cost/ROW	\$1,800,000				\$1,800,000			\$1,800,000
Requested	PA/ED	City of Inglewood PA/ED for Florence Ave at La Brea Ave - Construct new Downtown Inglewood Transit Center at La Brea Station of Crenshaw Line	\$1,500,000	\$0		\$30,000	\$30,000	\$30,000	\$30,000		\$120,000
Requested	PA/ED	Port of LA PA/ED for SR-47/Vincent Thomas Bridge and Front St/Harbor Bl Interchange Reconfiguration.	\$0	\$0							\$0
Requested	Feasibility Study	City of Rancho Palos Verdes Western Ave (SR-213) from Palos Verdes Drive North to 25th St.; Feasibility study for improvements in coordination with Lomita, LADOT, and Caltrans.	\$90,000	\$90,000		\$25,000	\$15,000	\$30,000	\$20,000		\$90,000
<b>ACTIVE PROJECTS</b>											
EXECUTED MR312.11	Design/ Construction	Caltrans ITS: I-405, I-110, I-105, SR-91 at freeways ramp/arterial signalized intersections - DCOM	\$5,000,000	\$5,000,000	\$5,000,000						\$0
EXECUTED MR312.29	Design/ Construction	Caltrans Pacific Coast Highway (SR-1) ITS with parallel arterials from I-105 to I-110	\$9,000,000	\$9,000,000	\$5,472,000	\$1,250,000	\$850,000	\$728,000	\$700,000		\$3,528,000
EXECUTED MR312.37	Design/ Construction	City of Carson Sepulveda Boulevard widening from Alameda Street to ICTF Driveway	\$1,158,000	\$0	\$1,158,000						\$0
EXECUTED MR312.17	Design/ Construction	City of Gardena Rosecrans Ave Arterial Improvements From Vermont Ave to Crenshaw Blvd.	\$5,140,000	\$5,140,000	\$1,907,759	\$808,060	\$808,060	\$808,060	\$808,060		\$3,232,241
EXECUTED MR312.33	Design/ Construction	City of Hawthorne Aviation Bl at Marine Ave; construct westbound right-turn lane.	\$3,600,000	\$3,600,000	\$155,000	\$145,000	\$125,000	\$25,000	\$50,000		\$345,000
EXECUTED MR312.05	Design/ Construction	City of Hermosa Beach Pacific Coast Highway (SR-1) between Anita St and Artesia Blvd; Improvements	\$304,000	\$304,000	\$202,936	\$101,063					\$101,063
EXECUTED MR312.12	Design/ Construction	City of Inglewood Citywide ITS Phase IV	\$3,500,000	\$3,500,000	\$3,500,000						\$0
EXECUTED MR312.15	Design/ Construction	City of Lawndale Inglewood Ave From 156th st to I-405 SB On Ramp Improvements	\$500,000	\$500,000	\$500,000						\$0
EXECUTED MR312.36	Construction	City of Lawndale Traffic Signal Improvements Citywide	\$1,500,000	\$1,500,000	\$1,500,000						\$0

EXECUTED	MR312.43	Design/ Construction	City of Lomita Intersection Improvements at Western (SR-213) /Palos Verdes Dr. & Pacific Coast Highway (SR-1)/Walnut	\$900,000	\$900,000	\$800,000	\$100,000					\$100,000
EXECUTED	MR312.28	Construction	City of Manhattan Beach Seismic retrofit of Sepulveda Blvd (SR-1) bridge 53-62	\$9,100,000	\$9,100,000	\$6,461,664	\$1,319,168	\$1,319,168				\$2,638,336
EXECUTED	MR312.04	Construction	City of Manhattan Beach Sepulveda Blvd at Marine Ave (WB Left Turn Lane)	\$365,000	\$365,000	\$364,500	\$500					\$500
EXECUTED	MR312.06	Design/ Construction	City of Redondo Beach Pacific Coast Highway (SR-1) Arterial Improvements from Anita St to Palos Verdes Blvd	\$1,400,000	\$1,400,000	\$150,000	\$75,000	\$115,000	\$30,000	\$280,000		\$500,000
EXECUTED	MR312.07	Construction	City of Redondo Beach Pacific Coast Highway (SR-1) at Torrance Blvd Intersection Improvements	\$585,000	\$585,000	\$127,000	\$10,000	\$148,000	\$150,000	\$150,000		\$458,000
EXECUTED	MR312.08	Design/ Construction	City of Redondo Beach Pacific Coast Highway (SR-1) at Palos Verdes Blvd Intersection Improvements	\$320,000	\$320,000	\$320,000						\$0
EXECUTED	MR312.20	Design/ Construction	City of Redondo Beach Aviation Blvd at Artesia Blvd Intersection Improvements	\$847,000	\$847,000	\$350,000	\$165,000	\$172,000	\$160,000			\$497,000
EXECUTED	MR312.42	Design/ Construction	City of Redondo Beach Inglewood Ave at Manhattan Beach Bl: Add SB right-turn lane south of railroad tracks to Manhattan Beach Bl	\$5,175,000	\$5,175,000	\$117,000	\$70,000	\$68,000	\$733,000	\$782,000		\$1,653,000
EXECUTED	MR312.10	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) at Hawthorne Blvd (SR-107) Intersection Improvements	\$19,600,000	\$19,600,000	\$9,600,000	\$500,000	\$500,000	\$500,000	\$8,500,000		\$10,000,000
EXECUTED	MR312.23	Design/ Construction	City of Torrance Torrance Park and Ride Regional Terminal	\$18,100,000	\$18,100,000	\$10,000,000	\$3,000,000	\$3,000,000	\$2,100,000			\$8,100,000
EXECUTED	MR312.26	Design/ Construction	City of Torrance I-405 at 182nd St. /Crenshaw Blvd. operational improvements	\$15,300,000	\$15,300,000	\$5,300,000	\$5,000,000					\$5,000,000
EXECUTED	MR312.40	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) at Vista Montana/Anza Ave Intersection Improvement	\$2,900,000	\$2,900,000	\$900,000	\$500,000	\$500,000	\$500,000	\$500,000		\$2,000,000
EXECUTED	MR312.58	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) from Calle Mayor to Janet Ln. safety improvement.	\$852,000	\$852,000	\$200,000	\$200,000	\$200,000	\$252,000			\$652,000
EXECUTED	MR312.59	Design/ Construction	City of Torrance PCH at Madison Ave- Signal Upgrades to provide left-turn phasing	\$500,000	\$500,000	\$100,000	\$400,000					\$400,000
EXECUTED	MR312.60	Design/ Construction	City of Torrance Crenshaw Blvd. from Del Amo to Dominguez; three Southbound turn lanes at 1) Del Amo Blvd; 2) extension of 208th St; 3) Transit Center Entrance. Signal Improvements at two existing and new signal at Transit Center and extension of 208th St.	\$3,300,000	\$3,300,000	\$1,300,000	\$1,000,000	\$1,000,000				\$2,000,000
<b>COMMITTED PROJECTS</b>												
COMMITTED	MR312.47	Construction	City of Hawthorne Prairie Ave from 118th St to Marine Ave- Signal Improvements	\$1,237,000	\$1,237,000					\$204,114		\$204,114
COMMITTED	MR312.50	Construction	City of Inglewood Citywide ITS Phase V- Communication gap closure on various locations, TS upgrade and arterial detection	\$384,000	\$384,000							\$0
COMMITTED	MR312.53	Construction	City of Lawndale Redondo Beach Blvd. Mobility Improvements from Prairie to Artesia (PSRE) at I-405, from Hawthorne Bl. to Prairie Ave- PS&E / ROW Acquisition; Signal upgrades, concrete pads for transit, ADA ramps	\$1,039,262	\$1,039,262							\$0
COMMITTED	MR312.51	Construction	City of Los Angeles Anahiem St from Farragut Ave to Dominguez Channel- Widen from 78' to 84' and restripe to accommodate an additional lane in each direction	\$3,141,450	\$3,141,450		\$150,000	\$150,000	\$150,000	\$150,000		\$600,000
COMMITTED	MR312.52	Construction	Los Angeles County 2013 CFP South Bay Forum systemwide operational improvements, coordination and timing, and ITS improvements	\$1,021,000	\$1,021,000							\$0
COMMITTED	MR312.34	Construction	City of Manhattan Beach Construct SB and WB right-turn lanes on Aviation at Artesia. The project will include right-of-way acquisition, utility relocation, street widening and restriping of the northwest corner of the Aviation Blvd. and Artesia Blvd. intersection.	\$1,500,000	\$1,500,000	\$151,000	\$369,000	\$78,000	\$602,000	\$300,000		\$1,349,000
COMMITTED	MR312.35	Construction	City of Manhattan Beach Sepulveda Blvd (SR-1) at Manhattan Beach Blvd Intersection Improvement. Add left-turn lanes. The project will include right-of-way acquisition, utility relocation, street widening and restriping of the intersection.	\$980,000	\$980,000		\$11,000	\$54,800	\$34,000	\$50,000		\$149,800
COMMITTED	MR312.09	PD/EA and PS&E	City of Torrance Pacific Coast Highway (SR-1) and Crenshaw Ave- Preliminary Design, EIR and P.S.&E. for operational improvements	\$1,300,000	\$1,300,000					\$1,300,000		\$1,300,000
COMMITTED	MRE312.#	PS&E	City of Torrance Hawthorne Bl (SR-107) at: 182nd Street, Spencer Street, Emerald Street, and Lomita Blvd. PS&E for roadway widening to construct new northbound right turn lanes	\$810,000	\$810,000							\$0
<b>NEW REQUEST FOR PROJECTS</b>												
Requested		Design/ Construction	City of Carson Widen Sepulveda Blvd for 1,475 linear feet to provide three lanes of traffic in both directions and a raised median, the project involves widening the bridge over the Dominguez Channel.	\$6,375,903	\$2,000,000		\$250,000	\$178,571	\$1,000,000	\$571,429		\$2,000,000
Requested		Design/ Construction	City of Carson Victoria St at Tamcliff Ave - Installation of left-turn phases.	\$120,000	\$0		\$30,000	\$30,000	\$30,000	\$30,000		\$120,000
Requested		Design/ Construction	City of Carson 223rd St from Lucerne Ave to Alameda St.; widening roadway and install median.	\$3,601,766	\$2,000,000		\$250,000	\$250,000	\$250,000	\$250,000		\$1,000,001
Requested		Design/ Construction	City of Carson Figueroa St. at 234th St. - Upgrade the traffic signal equipment to modernize the controller and signal lights	\$150,000	\$0		\$37,500	\$37,500	\$37,500	\$37,500		\$150,000
Requested			City of Carson Traffic Signal Upgrade at Intersection of 213th Street and Dolores Street	\$150,000	\$0							\$0

Requested	Design/ Construction	City of Carson Traffic Signal upgrades at 10 Intersections: Figueroa St. at Victoria St., Main St. at 220th St., Main St. at Victoria St., Main St. at Albertoni St., Figueroa St. at 223rd St., Broadway at Victoria St., Albertoni St., Gardena Blvd., Alondra Blvd. and a midblock crossing south of Albertoni Blvd.	\$1,400,000	\$0	\$187,500	\$37,500	\$37,500	\$37,500	\$300,000
Requested	Design/ Construction	City of Gardena Crenshaw Bl from El Segundo Bl to Redondo Beach Bl Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$1,900,000	\$0			\$58,000	\$58,000	\$116,000
Requested	Design/ Construction	City of Gardena Redondo Beach Bl from Crenshaw Bl to Vermont Ave - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$3,600,000	\$2,000,000				\$15,556	\$15,556
Requested	Design/ Construction	City of Gardena Normandie Ave from El Segundo Bl to 177th St - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization, transit access.	\$4,000,000	\$2,000,000			\$60,500	\$60,500	\$121,000
Requested	Design/ Construction	City of Gardena Van Ness Ave from El Segundo Bl to Redondo Beach Bl - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$3,000,000	\$2,000,000			\$88,667	\$93,333	\$182,000
Requested	Design/ Construction	City of Gardena Artesia Bl from Western Ave to Vermont Ave - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets, traffic channelization.	\$2,654,000	\$2,000,000			\$61,040	\$60,286	\$121,326
Requested	Design/ Construction	City of Gardena Rosecrans Ave at Vermont Ave & Redondo Beach Bl at Vermont Ave - Traffic Signal upgrades and synchronization, add turn pockets, traffic channelization.	\$1,500,000	\$0			\$20,000	\$38,000	\$58,000
Requested	Design/ Construction	City of Hawthorne Inglewood Ave at El Segundo Bl, Crenshaw Bl at Rocket Road & Crenshaw Bl at Jack Northrop - Intersection widening improvements & traffic signal modifications	\$2,000,000	\$0	\$500,000		\$600,000	\$900,000	\$2,000,000
Requested	Design/ Construction	City of Hawthorne Hawthorne Bl from 120th St to 111th St - Arterial Improvements	\$5,000,000	\$2,000,000			\$400,000	\$700,000	\$1,100,000
Requested	Design/ Construction	City of Hawthorne El Segundo Blvd. from Hawthorne Blvd. to Crenshaw Bl - Upgrade signals, improve right and left-turn lanes	\$3,000,000	\$2,000,000			\$100,000	\$400,000	\$500,000
Requested	Design/ Construction	City of Manhattan Beach Sepulveda Bl at Rosecrans Ave, 33rd St, Cedar Ave, 14th St & 2nd St - Operational Improvements.	\$900,000	\$0	\$30,000		\$30,000	\$30,000	\$90,000
Requested	Design/ Construction	Los Angeles County Wilmington Ave north of Del Amo Blvd.: Construct safety improvements at railroad crossing	\$600,000	\$0			\$25,000	\$25,000	\$50,000
<b>COMPLETED FEASIBILITY/PLANNING STUDIES</b>									
Completed TO 2014-3 A-F	Feasibility Study	City of Gardena Feasibility Studies for 2015 Metro CFP	\$42,632	\$42,632	\$42,632				\$0
Completed SBHP TO 9.5	Feasibility Study	City of Gardena PSRE for three park and ride facilities	\$11,920	\$11,920	\$11,920				\$0
Completed SBHP TO 9.2	Feasibility Study	City of Hawthorne PSRE for Signal and associated improvements on Prairie Ave from 158th St. to Marine Ave.	\$32,643	\$32,643	\$32,643				\$0
Completed SBHP TO 2014-5	Feasibility Study	City of Hermosa Beach PSR for Pacific Coast Highway (SR-1) / Aviation Blvd. Mobility Improvements Project	\$190,000	\$190,000	\$190,000				\$0
Completed SBHP TO 9.3	Feasibility Study	City of Inglewood PSRE for geometric improvements on La Cienega Blvd and Manchester Blvd.	\$31,664	\$31,664	\$31,664				\$0
Completed SBHP TO 9.4	Feasibility Study	City of Inglewood PSRE for Phase V of Inglewood's ITS Upgrades	\$24,434	\$24,434	\$24,434				\$0
Completed SBHP TO 2014-4	Feasibility Study	City of Inglewood PSR for Manchester/La Cienega Bundled Projects: channelize and raise median Manchester Boulevard from Ash Avenue to La Cienega Boulevard, improve turn radii La Cienega Boulevard at Manchester Boulevard, improve turn radii and through-right lane La Cienega Boulevard at Florence Avenue	\$23,625	\$23,625	\$23,625				\$0
Completed SBHP TO 2014-6	Feasibility Study	City of Lawndale PSRE for Redondo Beach Blvd. Mobility Improvements from Prairie Ave. to Artesia Blvd. at I-405, from Hawthorne Bl. to Prairie Ave. Signal upgrades, concrete pads for transit, ADA ramps	\$47,360	\$47,360	\$47,360				\$0
Completed SBHP TO 2014-7	Feasibility Study	City of Manhattan Beach PSR for 7 intersections along Sepulveda Blvd (SR-1) corridor that were identified in the 2009 PCH Study conducted by SCAG and the SBCCOG: at Rosecrans., Marine Ave. / Cedar Ave., Valley Dr., 33rd St., 30th St., 14th St., and 2nd St.	\$43,043	\$43,043	\$43,043				\$0
Completed Feas Study	Feasibility Study	Metro South Bay Baseline Arterial Performance Monitoring Implementation Study	\$250,000	\$250,000	\$250,000				\$0
Completed SBHP TO 9.1	Feasibility Study	City of Torrance PSRE for additional turn lanes on Western Ave. (SR-213) at Sepulveda Blvd.	\$37,921	\$37,921	\$37,921				\$0
Completed SBHP TO 2014-2A	Feasibility Study	City of Torrance Western Ave (SR-213) at Sepulveda Blvd Intersection Improvements	\$80,000	\$80,000	\$80,000				\$0
Completed SBHP TO 2014-2B	Feasibility Study	City of Torrance PSR for Hawthorne Blvd. (SR-107) Corridor Improvements at Lomita Blvd, Emerald, Spencer, and 182nd Streets	\$70,000	\$70,000	\$70,000				\$0
<b>COMPLETED PROJECTS</b>									
Completed MR312.22 D, C	Construction	City of El Segundo Maple Ave Arterial Improvements from Sepulveda Blvd to Parkview Ave	\$2,500,000	\$2,500,000	\$2,157,575				\$0
Completed MR312.19 PD, D, C	Construction	City of Gardena Artesia Blvd at Western Ave Intersection Improvements (WB Left Turn Lanes)	\$600,000	\$600,000	\$431,825				\$0
Completed MR312.21	Construction	City of Gardena Vermont Arterial Improvement From Rosecrans Ave to 182nd Street	\$2,350,000	\$2,350,000	\$2,350,000				\$0
Completed MR312.03	Construction	City of Hawthorne Rosecrans Ave Arterial Improvements from I-405 SB Off-Ramp to Isis Ave	\$2,100,000	\$2,100,000	\$2,100,000				\$0

Completed MR312.44		City of Hawthorne Hawthorne Blvd From El Segundo Blvd. to Rosecrans Ave	\$7,551,000	\$7,551,000	\$7,551,000					\$0
Completed MR312.13	Construction	City of Redondo Beach Aviation Blvd at Artesia Blvd Intersection Imp.	\$22,000	\$22,000	\$19,281					\$0
Completed MR312.14	Construction	City of Redondo Beach Inglewood Ave at Manhattan Beach Blvd Intersection Improvements	\$30,000	\$30,000	\$27,122					\$0
Completed MR312.18	Construction	City of Torrance Maple Ave at Sepulveda Blvd. Intersection Improvements	\$540,000	\$540,000	\$319,870					\$0
<b>TOTALS</b>			<b>\$192,752,364</b>	<b>\$167,182,695</b>	<b>\$80,621,268</b>	\$16,559,602	\$11,096,412	\$13,445,080	\$17,662,091	<b>\$58,763,185</b>

Exhibit B: Life of Project Cost Magnitudes

Metro Project ID FA Type	Phase	Lead Agency / Description	Phase Cost	Measure R Share	Est. Reimburse. by 6/30/16	16-17 TOTAL	17-18 TOTAL	Future Years				Total Project Est. Cost		
								18-19 TOTAL	19-20 TOTAL	20-21 TOTAL	21-22 TOTAL	Total Project Est. Cost (All Phases and Sources)	Total Cost Est. Source	
<b>ADMINISTRATIVE</b>														
Administration & Miscellaneous Expense			\$1,022,959	\$1,022,959	\$840,931	\$28,140	\$28,988	\$29,852	\$30,752	\$31,672	\$32,624			
Program Development and Misc. Expenses (development, oversight, and intergovernmental)			\$5,696,599	\$5,696,599	\$2,439,624	\$518,385	\$560,536	\$487,906	\$545,489	\$523,306	\$621,353	\$17,577,216	All Admin	
Feasibility Studies (previous reimbursement)			\$1,696,661	\$1,696,661	\$496,661	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000			
<b>ACTIVE FEASIBILITY/PLANNING STUDIES</b>														
EXECUTED MR312.57 PD	Feasibility Study	City of El Segundo Park Place from Nash St. to Allied Way, Roadway extension and railroad grade separation	\$350,000	\$350,000	\$150,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$35,850,000	From Lead Agency	
EXECUTED FEAS STUDY SBHP TO 2015-1	Feasibility Study	Port of LA Vincent Thomas Bridge (SR-47) I-110 Connector	\$1,000,000	\$1,000,000	\$112,000	\$888,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000	Construction Separate	
EXECUTED MR312.24	PA/ED	Caltrans PAED I-110 Auxiliary lane from SR-91 to Torrance Blvd Auxiliary lane & 405/110 Connector	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,000	Placeholder Est.	
EXECUTED MR312.25	PA/ED	Caltrans PAED I-405 at 182nd St./Crenshaw Boulevard	\$1,700,000	\$1,700,000	\$1,700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$34,000,000	Placeholder Est.	
EXECUTED MR312.56	PA/ED	City of Los Angeles Review of Feas. Study on Del Amo Blvd from Western Ave to Vermont Ave.	\$100,000	\$100,000	\$3,277	\$96,723	\$0	\$0	\$0	\$0	\$0	\$3,000,000	Placeholder Est.	
EXECUTED MR312.16	PA/ED	Los Angeles County Del Amo Boulevard from Normandie Boulevard to Vermont Ave	\$1,900,000	\$1,900,000	\$1,900,000	\$0	\$0	\$0	\$0	\$0	\$0	\$26,000,000	Placeholder Est.	
<b>COMMITTED FEASIBILITY/PLANNING STUDIES</b>														
COMMITTED MR312.30	Feasibility Study	Caltrans I-405 from I-110 to I-105 and I-105 from I-405 to Crenshaw: Corridor Refinement Studies	\$700,000	\$700,000		\$300,000	\$400,000	\$0	\$0	\$0	\$0	\$14,000,000	Placeholder Est.	
COMMITTED MR312.45	PA/ED	Caltrans PAED/Implement an Integrated Corridor Management System along the SR -110 Corridor between Artesia Boulevard and the I-405. The project will integrate freeway, arterial and transit operations, implement a Decision Support System for coordinated agency operations and traveler information systems.	\$1,000,000	\$1,000,000		\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$20,000,000	Placeholder Est.	
COMMITTED SBHP TO 2014-1	Feasibility Study	City of El Segundo Aviation Blvd, Douglas St. and El Segundo Blvd. Commuter Bikeways Study	\$150,000	\$150,000		\$150,000	\$0	\$0	\$0	\$0	\$0	\$3,000,000	Placeholder Est.	
COMMITTED FEAS STUDY SBHP TO #	Feasibility Study	City of Torrance Pacific Coast Highway (SR-1) / Hawthorne Blvd. (SR 107) Park & Ride Feasibility Study	\$150,000	\$150,000		\$0	\$150,000	\$0	\$0	\$0	\$0	\$3,000,000	Placeholder Est.	
COMMITTED FEAS STUDY SBHP TO #	Feasibility Study	City of Torrance 182nd St from Kingsdale Ave to Harbor Gateway Transit Center (e/o Vermont Ave.): feasibility of study various corridor improvements (intersection improvements, ITS, bicycle facilities, etc.)	\$300,000	\$300,000		\$300,000	\$0	\$0	\$0	\$0	\$0	\$6,000,000	Placeholder Est.	
<b>NEW REQUEST FOR FEASIBILITY/PLANNING STUDIES</b>														
Requested	Feasibility Study	Caltrans I-405 from I-110 to I-105 (including a mile on either side of the freeway): Identify and prioritize operational improvements (aux. lanes, interchange configuration) to reduce travel delay.	\$700,000	\$700,000		\$250,000	\$300,000	\$150,000	\$0	\$0	\$0	\$14,000,000	Placeholder Est.	
Requested	PSR	Caltrans SR-1 from eastern boundary of Carson to eastern boundary of Torrance - PSR	\$170,000	\$170,000		\$170,000	\$0	\$0	\$0	\$0	\$0	\$3,400,000	Placeholder Est.	
Requested	PSR	Caltrans Western Ave. (SR-213) from Palos Verdes Drive North to northern boundary of Gardena - PSR	\$170,000	\$170,000		\$170,000	\$0	\$0	\$0	\$0	\$0	\$3,400,000	Placeholder Est.	
Requested	Feasibility Study	City of Carson Avalon Boulevard Bridge over the Dominguez Channel: Investigate feasibility of an additional lane on the west side for a bike lane and widening of the east side sidewalk to improve flow in a constrained location.	\$60,000	\$60,000		\$0	\$60,000	\$0	\$0	\$0	\$0	\$5,000,000	Placeholder Est.	
Requested	PA/ED	City of El Segundo PAED Park Place from Nash St to Allied Way- Roadway extension and railroad grade separation, including utility and railroad relocation and construction.	TBD	TBD		\$1,000,000	\$0	\$0	\$0	\$0	\$0	-	Design/Const Separate	
Requested	PA/ED + Est Const./ ROW funding	City of Hermosa Beach PAED Aviation Bl from PCH to Prospect Ave - Arterial Improvements.	\$1,800,000 PA/ED, \$42m Cost/ROW	\$22,300,000		\$1,800,000	\$0	\$2,334,000	\$3,608,000	\$7,280,000	\$7,278,000	\$44,599,000	From Lead Agency	
Requested	PA/ED	City of Inglewood PAED for Florence Ave at La Brea Ave - Construct new Downtown Inglewood Transit Center at La Brea Station of Crenshaw Line	\$1,500,000	\$1,500,000		\$120,000	\$671,250	\$708,750	\$0	\$0	\$0	\$1,500,000	Total Cost	
Requested	PA/ED	Port of LA PA/ED for SR-47/Vincent Thomas Bridge and Front St/Harbor Bl Interchange Reconfiguration.	\$12,078,500	\$12,078,500		\$0	\$352,500	\$750,000	\$750,000	\$5,125,000	\$5,101,000	\$23,452,000	From Lead Agency	
Requested	Feasibility Study	City of Rancho Palos Verdes Western Ave (SR-213) from Palos Verdes Drive North to 25th St.: Feasibility study for improvements in coordination with Lomita, LADOT, and Caltrans.	\$90,000	\$90,000		\$90,000	\$0	\$0	\$0	\$0	\$0	\$1,800,000	Placeholder Est.	
<b>ACTIVE PROJECTS</b>														
EXECUTED MR312.11	Design/ Construction	Caltrans ITS: I-405, I-110, I-105, SR-91 at freeways ramp/arterial signalized intersections - DCCM	\$5,000,000	\$5,000,000	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000,000	Placeholder Est.	
EXECUTED MR312.29	Design/ Construction	Caltrans Pacific Coast Highway (SR-1) ITS with parallel arterials from I-105 to I-110	\$9,000,000	\$9,000,000	\$5,472,000	\$3,528,000	\$0	\$0	\$0	\$0	\$0	\$9,000,000	Total Cost	
EXECUTED MR312.37	Design/ Construction	City of Carson Sepulveda Boulevard widening from Alameda Street to ICTF Driveway	\$1,158,000	\$1,158,000	\$1,158,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,158,000	Total Cost	
EXECUTED MR312.17	Design/ Construction	City of Gardena Rosecrans Ave Arterial Improvements From Vermont Ave to Crenshaw Blvd.	\$5,140,000	\$5,140,000	\$1,907,759	\$3,232,241	\$0	\$0	\$0	\$0	\$0	\$5,140,000	Total Cost	
EXECUTED MR312.33	Design/ Construction	City of Hawthorne Aviation Bl at Marine Ave; construct westbound right-turn lane.	\$3,600,000	\$3,600,000	\$155,000	\$345,000	\$300,000	\$1,800,000	\$1,000,000	\$0	\$0	\$3,600,000	Total Cost	
EXECUTED MR312.05	Design/ Construction	City of Hermosa Beach Pacific Coast Highway (SR-1) between Anita St and Artesia Blvd: Improvements	\$304,000	\$304,000	\$202,936	\$101,063	\$0	\$0	\$0	\$0	\$0	\$304,000	Total Cost	
EXECUTED MR312.12	Design/ Construction	City of Inglewood Citywide ITS Phase IV	\$3,500,000	\$3,500,000	\$3,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000	Total Cost	
EXECUTED MR312.15	Design/ Construction	City of Lawndale Inglewood Ave From 156th st to I-405 SB On Ramp Improvements	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	Total Cost	
EXECUTED MR312.36	Construction	City of Lawndale Traffic Signal Improvements Citywide	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	Total Cost	
EXECUTED MR312.43	Design/ Construction	City of Lomita Intersection Improvements at Western (SR-213) /Palos Verdes Dr. & Pacific Coast Highway (SR-1)/Walnut	\$900,000	\$900,000	\$800,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$900,000	Total Cost	
EXECUTED MR312.28	Construction	City of Manhattan Beach Seismic retrofit of Sepulveda Blvd (SR-1) bridge 53-62	\$9,100,000	\$9,100,000	\$6,461,664	\$2,638,336	\$0	\$0	\$0	\$0	\$0	\$9,100,000	Total Cost	
EXECUTED MR312.04	Construction	City of Manhattan Beach Sepulveda Blvd at Marine Ave (WB Left Turn Lane)	\$365,000	\$365,000	\$364,500	\$500	\$0	\$0	\$0	\$0	\$0	\$365,000	Total Cost	
EXECUTED MR312.06	Design/ Construction	City of Redondo Beach Pacific Coast Highway (SR-1) Arterial Improvements from Anita St to Palos Verdes Blvd	\$1,400,000	\$1,400,000	\$150,000	\$500,000	\$750,000	\$0	\$0	\$0	\$0	\$1,400,000	Total Cost	
EXECUTED MR312.07	Construction	City of Redondo Beach Pacific Coast Highway (SR-1) at Torrance Blvd Intersection Improvements	\$585,000	\$585,000	\$127,000	\$458,000	\$0	\$0	\$0	\$0	\$0	\$585,000	Total Cost	
EXECUTED MR312.08	Design/ Construction	City of Redondo Beach Pacific Coast Highway (SR-1) at Palos Verdes Blvd Intersection Improvements	\$320,000	\$320,000	\$320,000	\$0	\$0	\$0	\$0	\$0	\$0	\$320,000	Total Cost	
EXECUTED MR312.20	Design/ Construction	City of Redondo Beach Aviation Blvd at Artesia Blvd Intersection Improvements	\$847,000	\$847,000	\$350,000	\$497,000	\$0	\$0	\$0	\$0	\$0	\$847,000	Total Cost	
EXECUTED MR312.42	Design/ Construction	City of Redondo Beach Inglewood Ave at Manhattan Beach Bl: Add SB right-turn lane south of railroad tracks to Manhattan Beach Bl	\$5,175,000	\$5,175,000	\$117,000	\$1,653,000	\$1,540,000	\$1,125,000	\$740,000	\$0	\$0	\$5,175,000	Total Cost	
EXECUTED MR312.10	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) at Hawthorne Blvd (SR-107) Intersection Improvements	\$19,600,000	\$19,600,000	\$9,600,000	\$10,000,000	\$0	\$0	\$0	\$0	\$0	\$19,600,000	Total Cost	
EXECUTED MR312.23	Design/ Construction	City of Torrance Torrance Park and Ride Regional Terminal	\$18,100,000	\$18,100,000	\$10,000,000	\$8,100,000	\$0	\$0	\$0	\$0	\$0	\$18,100,000	Total Cost	
EXECUTED MR312.26	Design/ Construction	City of Torrance I-405 at 182nd St./Crenshaw Blvd. operational improvements	\$15,300,000	\$15,300,000	\$5,300,000	\$5,000,000	\$5,000,000	\$0	\$0	\$0	\$0	\$15,300,000	Total Cost	
EXECUTED MR312.40	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) at Vista Montana/Anza Ave Intersection Improvement	\$2,900,000	\$2,900,000	\$900,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,900,000	Total Cost	
EXECUTED MR312.58	Design/ Construction	City of Torrance Pacific Coast Highway (SR-1) from Calle Mayor to Janet Ln. safety improvement.	\$852,000	\$852,000	\$200,000	\$652,000	\$0	\$0	\$0	\$0	\$0	\$852,000	Total Cost	
EXECUTED MR312.59	Design/ Construction	City of Torrance PCH at Madison Ave- Signal Upgrades to provide left-turn phasing	\$500,000	\$500,000	\$100,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$500,000	Total Cost	
EXECUTED MR312.60	Design/ Construction	City of Torrance Crenshaw Blvd. from Del Amo to Dominguez; three Southbound turn lanes at 1) Del Amo Blvd; 2) extension of 208th St; 3) Transit Center Entrance. Signal Improvements at two existing and new signal at Transit Center and extension of 208th St.	\$3,300,000	\$3,300,000	\$1,300,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$3,300,000	Total Cost	
<b>COMMITTED PROJECTS</b>														
COMMITTED MR312.47	Construction	City of Hawthorne Prairie Ave from 118th St to Marine Ave- Signal Improvements	\$1,237,000	\$1,237,000		\$204,114	\$816,456	\$0	\$0	\$0	\$0	\$1,237,000	Total Cost	
COMMITTED MR312.50	Construction	City of Inglewood Citywide ITS Phase V- Communication gap closure on various locations, TS upgrade and arterial detection	\$384,000	\$384,000		\$0	\$151,000	\$233,000	\$0	\$0	\$0	\$384,000	Total Cost	
COMMITTED MR312.53	Construction	City of Lawndale Redondo Beach Blvd. Mobility Improvements from Prairie to Artesia (PSRE) at I-405, from Hawthorne Bl. to Prairie Ave- PS&E / ROW Acquisition; Signal upgrades, concrete pads for transit, ADA ramps	\$1,039,262	\$1,039,262		\$0	\$519,632	\$519,632	\$0	\$0	\$0	\$1,039,262	Total Cost	



Exhibit B: Life of Project Cost Magnitudes

		Updated: 10/20/15				Future Years						Total Project Est. Cost	
Metro Project ID FA Type	Phase	Lead Agency / Description	Phase Cost	Measure R Share	Est. Reimburse. by 6/30/16	16-17 TOTAL	17-18 TOTAL	18-19 TOTAL	19-20 TOTAL	20-21 TOTAL	21-22 TOTAL	Total Project Est. Cost (All Phases and Sources)	Total Cost Est. Source
COMMITTED MR312.51	Construction	City of Los Angeles Anaheim St from Farragut Ave to Dominguez Channel- Widen from 78' to 84' and restripe to accommodate an additional lane in each direction	\$3,141,450	\$3,141,450		\$600,000	\$600,000	\$1,941,450	\$0	\$0	\$0	\$3,141,450	Total Cost
COMMITTED MR312.52	Construction	Los Angeles County 2013 CFP South Bay Forum systemwide operational improvements, coordination and timing, and ITS improvements	\$1,021,000	\$1,021,000		\$0	\$0	\$100,000	\$240,000	\$500,000	\$180,681	\$1,021,000	Total Cost
COMMITTED MR312.34	Construction	City of Manhattan Beach Construct SB and WB right-turn lanes on Aviation at Arteria. The project will include right-of-way acquisition, utility relocation, street widening and restriping of the northwest corner of the Aviation Blvd. and Artesia Blvd. intersection.	\$1,500,000	\$1,500,000	\$151,000	\$1,349,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000	Total Cost
COMMITTED MR312.35	Construction	City of Manhattan Beach Sepulveda Blvd (SR-1) at Manhattan Beach Blvd Intersection Improvement. Add left-turn lanes. The project will include right-of-way acquisition, utility relocation, street widening and restriping of the intersection.	\$980,000	\$980,000		\$149,800	\$586,000	\$244,200	\$0	\$0	\$0	\$980,000	Total Cost
COMMITTED PROJECT MR312.09	PD/EA and PS&E	City of Torrance Pacific Coast Highway (SR-1) and Crenshaw Ave- Preliminary Design, EIR and P.S.&E. for operational improvements	\$1,300,000	\$1,300,000		\$1,300,000	\$0	\$0	\$0	\$0	\$0	\$6,500,000	Placeholder Est.
COMMITTED MRE312.#	PS&E	City of Torrance Hawthorne Bl (SR-107) at: 182nd Street, Spencer Street, Emerald Street, and Lomita Blvd. P.S.&E for roadway widening to construct new northbound right turn lanes	\$810,000	\$810,000		\$0	\$810,000	\$0	\$0	\$0	\$0	-	Construction Cost Est. Separate
<b>NEW REQUEST FOR PROJECTS</b>													
Requested	Design/ Construction	City of Carson Widen Sepulveda Blvd for 1,475 linear feet to provide three lanes of traffic in both directions and a raised median, the project involves widening the bridge over the Dominguez Channel.	\$6,375,903	\$5,500,722		\$5,500,723	\$0	\$0	\$0	\$0	\$0	\$6,375,903	Total Cost
Requested	Design/ Construction	City of Carson Victoria St at Tamcliff Ave - Installation of left-turn phases.	\$120,000	\$120,000		\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000	Total Cost
Requested	Design/ Construction	City of Carson 223rd St from Lucerne Ave to Alameda St.: widening roadway and install median.	\$3,601,766	\$3,281,413		\$1,640,707	\$1,640,707	\$0	\$0	\$0	\$0	\$3,601,766	Total Cost
Requested	Design/ Construction	City of Carson Figueroa St. at 234th St. - Upgrade the traffic signal equipment to modernize the controller and signal lights	\$150,000	\$150,000		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	Total Cost
Requested	Design/ Construction	City of Carson Traffic Signal Upgrade at Intersection of 213th Street and Dolores Street	\$150,000	\$150,000		\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000	Total Cost
Requested	Design/ Construction	City of Carson Traffic Signal upgrades at 10 intersections: Figueroa St. at Victoria St., Main St. at 220th St., Main St. at Victoria St., Main St. at Albertoni St., Figueroa St. at 223rd St., Broadway at Victoria St., Albertoni St., Gardena Blvd., Alondra Blvd. and a midblock crossing south of Albertoni Blvd.	\$1,400,000	\$1,400,000		\$300,000	\$150,000	\$150,000	\$800,000	\$0	\$0	\$1,400,000	Total Cost
Requested	Design/ Construction	City of Gardena Crenshaw Bl from El Segundo Bl to Redondo Beach Bl - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$1,900,000	\$1,900,000		\$116,000	\$1,784,000	\$0	\$0	\$0	\$0	\$1,900,000	Total Cost
Requested	Design/ Construction	City of Gardena Redondo Beach Bl from Crenshaw Bl to Vermont Ave - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$3,600,000	\$3,280,000		\$25,511	\$210,467	\$2,050,000	\$994,022	\$0	\$0	\$3,600,000	Total Cost
Requested	Design/ Construction	City of Gardena Normandie Ave from El Segundo Bl to 177th St - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization, transit access.	\$4,000,000	\$3,600,000		\$217,800	\$2,564,100	\$818,100	\$0	\$0	\$0	\$4,000,000	Total Cost
Requested	Design/ Construction	City of Gardena Van Ness Ave from El Segundo Bl to Redondo Beach Bl - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets where feasible, traffic channelization.	\$3,000,000	\$2,800,000		\$254,800	\$2,545,200	\$0	\$0	\$0	\$0	\$3,000,000	Total Cost
Requested	Design/ Construction	City of Gardena Artesia Bl from Western Ave to Vermont Ave - Arterial Improvements, traffic signal upgrades and synchronization, add turn pockets, traffic channelization.	\$2,654,000	\$2,523,200		\$153,065	\$2,350,170	\$19,965	\$0	\$0	\$0	\$2,654,000	Total Cost
Requested	Design/ Construction	City of Gardena Rosecrans Ave at Vermont Ave & Redondo Beach Bl at Vermont Ave - Traffic Signal upgrades and synchronization, add turn pockets, traffic channelization.	\$1,500,000	\$1,500,000		\$58,000	\$987,000	\$455,000	\$0	\$0	\$0	\$1,500,000	Total Cost
Requested	Design/ Construction	City of Hawthorne Inglewood Ave at El Segundo Bl, Crenshaw Bl at Rocket Road & Crenshaw Bl at Jack Northrop - Intersection widening improvements & traffic signal modifications	\$2,000,000	\$2,000,000		\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000	Total Cost
Requested	Design/ Construction	City of Hawthorne Hawthorne Bl from 120th St to 111th St - Arterial Improvements	\$5,000,000	\$4,400,000		\$1,100,000	\$3,300,000	\$0	\$0	\$0	\$0	\$5,000,000	Total Cost
Requested	Design/ Construction	City of Hawthorne El Segundo Blvd. from Hawthorne Blvd. to Crenshaw Bl - Upgrade signals, improve right and left-turn lanes	\$3,000,000	\$2,800,000		\$500,000	\$2,300,000	\$0	\$0	\$0	\$0	\$3,000,000	Total Cost
Requested	Design/ Construction	City of Manhattan Beach Sepulveda Bl at Rosecrans Ave, 33rd St, Cedar Ave, 14th St & 2nd St - Operational Improvements.	\$900,000	\$900,000		\$90,000	\$550,000	\$260,000	\$0	\$0	\$0	\$900,000	Total Cost
Requested	Design/ Construction	Los Angeles County Wilmington Ave north of Del Amo Blvd.: Construct safety improvements at railroad crossing	\$600,000	\$600,000		\$50,000	\$550,000	\$0	\$0	\$0	\$0	\$600,000	Total Cost
<b>COMPLETED FEASIBILITY/PLANNING STUDIES</b>													
Completed TO 2014-3 A-F	Feasibility Study	City of Gardena Feasibility Studies for 2015 Metro CFP	\$42,632	\$42,632	\$42,632	\$0	\$0	\$0	\$0	\$0	\$0	\$852,640	Placeholder Est.
Completed SBHP TO 9.5	Feasibility Study	City of Gardena PSRE for three park and ride facilities	\$11,920	\$11,920	\$11,920	\$0	\$0	\$0	\$0	\$0	\$0	\$238,400	Placeholder Est.
Completed SBHP TO 9.2	Feasibility Study	City of Hawthorne PSRE for Signal and associated improvements on Prairie Ave from 118th St. to Marine Ave.	\$32,643	\$32,643	\$32,643	\$0	\$0	\$0	\$0	\$0	\$0	\$652,860	Placeholder Est.
Completed SBPH TO 2014- 5	Feasibility Study	City of Hermosa Beach PSR for Pacific Coast Highway (SR-1) / Aviation Blvd. Mobility Improvements Project	\$190,000	\$190,000	\$190,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800,000	Placeholder Est.
Completed SBPH TO 9.3	Feasibility Study	City of Inglewood PSRE for geometric improvements on La Cienega Blvd and Manchester Blvd.	\$31,664	\$31,664	\$31,664	\$0	\$0	\$0	\$0	\$0	\$0	\$3,166,400	Placeholder Est.
Completed SBHP TO 9.4	Feasibility Study	City of Inglewood PSRE for Phase V of Inglewood's ITS Upgrades	\$24,434	\$24,434	\$24,434	\$0	\$0	\$0	\$0	\$0	\$0	-	Construction Cost Separate
Completed SBHP TO 2014- 4	Feasibility Study	City of Inglewood PSR for Manchester/La Cienega Bundled Projects: channelize and raise median Manchester Boulevard from Ash Avenue to La Cienega Boulevard, improve turn radii La Cienega Boulevard at Manchester Boulevard, improve turn radii and through-right lane La Cienega Boulevard at Florence Avenue	\$23,625	\$23,625	\$23,625	\$0	\$0	\$0	\$0	\$0	\$0	\$2,362,500	Placeholder Est.
Completed SBHP TO 2014- 6	Feasibility Study	City of Lawndale PSRE for Redondo Beach Blvd. Mobility Improvements from Prairie Ave. to Artesia Blvd. at I-405, from Hawthorne Bl. to Prairie Ave. Signal upgrades, concrete pads for transit, ADA ramps	\$47,360	\$47,360	\$47,360	\$0	\$0	\$0	\$0	\$0	\$0	\$4,736,000	Placeholder Est.
Completed SBHP TO 2014- 7	Feasibility Study	City of Manhattan Beach PSR for 7 intersections along Sepulveda Blvd (SR-1) corridor that were identified in the 2009 PCH Study conducted by SCAG and the SBCCOG: at Rosecrans., Marine Ave. / Cedar Ave., Valley Dr., 33rd St., 30th St., 14th St., and 2nd St.	\$43,043	\$43,043	\$43,043	\$0	\$0	\$0	\$0	\$0	\$0	\$4,304,300	Placeholder Est.
Completed Feas Study	Feasibility Study	Metro South Bay Baseline Arterial Performance Monitoring Implementation Study	\$250,000	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	Complete
Completed SBHP TO 9.1	Feasibility Study	City of Torrance PSRE for additional turn lanes on Western Ave. (SR-213) at Sepulveda Blvd.	\$37,921	\$37,921	\$37,921	\$0	\$0	\$0	\$0	\$0	\$0	\$1,896,050	Placeholder Est.
Completed SBHP TO 2014- 2A	Feasibility Study	City of Torrance Western Ave (SR-213) at Sepulveda Blvd Intersection Improvements	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000	Placeholder Est.
Completed SBHP TO 2014- 2B	Feasibility Study	City of Torrance PSR for Hawthorne Blvd. (SR-107) Corridor Improvements at Lomita Blvd, Emerald, Spencer, and 182nd Streets	\$70,000	\$70,000	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000	Placeholder Est.
<b>COMPLETED PROJECTS</b>													
Completed MR312.22 D, C	Construction	City of El Segundo Maple Ave Arterial Improvements from Sepulveda Blvd to Parkview Ave	\$2,500,000	\$2,500,000	\$2,157,575	\$0	\$0	\$0	\$0	\$0	\$0	\$2,157,575	Final Cost
Completed MR312.19 PD, D, C	Construction	City of Gardena Artesia Blvd at Western Ave Intersection Improvements (WB Left Turn Lanes)	\$600,000	\$600,000	\$431,825	\$0	\$0	\$0	\$0	\$0	\$0	\$431,825	Final Cost
Completed MR312.21	Construction	City of Gardena Vermont Arterial Improvement From Rosecrans Ave to 182nd Street	\$2,350,000	\$2,350,000	\$2,350,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,350,000	Final Cost
Completed MR312.03	Construction	City of Hawthorne Rosecrans Ave Arterial Improvements from I-405 SB Off-Ramp to Isis Ave	\$2,100,000	\$2,100,000	\$2,100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,100,000	Final Cost
Completed MR312.44	Construction	City of Hawthorne Hawthorne Blvd From El Segundo Blvd. to Rosecrans Ave	\$7,551,000	\$7,551,000	\$7,551,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,551,000	Final Cost
Completed MR312.13	Construction	City of Redondo Beach Aviation Blvd at Artesia Blvd Intersection Imp.	\$22,000	\$22,000	\$19,281	\$0	\$0	\$0	\$0	\$0	\$0	\$19,281	Final Cost
Completed MR312.14	Construction	City of Redondo Beach Inglewood Ave at Manhattan Beach Blvd Intersection Improvements	\$30,000	\$30,000	\$27,122	\$0	\$0	\$0	\$0	\$0	\$0	\$27,122	Final Cost
Completed MR312.18	Construction	City of Torrance Maple Ave at Sepulveda Blvd. Intersection Improvements	\$540,000	\$540,000	\$319,870	\$0	\$0	\$0	\$0	\$0	\$0	\$319,870	Final Cost
<b>TOTALS</b>			<b>\$253,522,342</b>	<b>\$228,177,008</b>	<b>\$80,621,268</b>	<b>\$63,115,909</b>	<b>\$32,528,006</b>	<b>\$14,826,855</b>	<b>\$9,608,263</b>	<b>\$13,859,978</b>	<b>\$13,613,658</b>	<b>\$519,994,421</b>	

Exhibit B: Life of Project Cost Magnitudes

Metro Project ID FA Type	Phase	Updated: 10/20/15				Future Years					Total Project Est. Cost	
		Lead Agency / Description	Phase Cost	Measure R Share	Est. Reimburse. by 6/30/16	16-17 TOTAL	17-18 TOTAL	18-19 TOTAL	19-20 TOTAL	20-21 TOTAL	21-22 TOTAL	Total Project Est. Cost (All Phases and Sources)
		FY 11 - FY 17 Request	\$63,115,909									
		FY 11 - FY 17 Total (to date requests)	\$143,737,177									
		FY 11 - FY 22 total (estimate to 2022)	\$228,173,936									