FTIP #: LA0G720 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay)

# AMENDMENT No. 8 TO MEASURE R FUNDING AGREEMENT

Project#: MR312.06

Amendment No. 8

This Amendment No. 8 to the Funding Agreement (this "Amendment"), is dated as of January 31, 2024, by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

BETWEEN CITY OF REDONDO BEACH AND THE LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

### **RECITALS:**

- A. WHEREAS, the Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06 dated August 15, 2011, which was amended on January 30, 2017, December 1, 2017, March 25, 2019, August 31, 2019, August 25, 2020, July 29, 2021, and August 15, 2022, (the "Existing FA"), which Existing FA provides for the Plans, Specifications, and (PS&E), Right-of-Way, and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project"); and
- B. WHEREAS, at its June 22, 2023 meeting, the LACMTA Board of Directors approved an additional \$1,000,000 for a total budget of \$2,400,000 to fund PS&E, ROW, and Construction of the Project; and
- C. WHEREAS, the Funds are currently programmed for the Project as follows \$1,400,000 in Measure R Funds in FY 2011-12, \$1,000,000 in Measure R Funds in FY 2023-24. The total designated amount for the Project is \$2,400,000; and
- D. WHEREAS, the LACMTA Board on January 26, 2023 delegated administrative authority to staff to extend funding lapse dates to meet PAED, PS&E, ROW, and Construction time frames; and
- E. WHEREAS, the Grantee and LACMTA desire to extend the lapsing date of FY 2011-12 funds to June 30, 2025; and
- F. WHEREAS, the Grantee and LACMTA desire to amend the Existing FA as provided herein.

Rev: 10.26.2022

FTIP #: LA0G720 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay)

Project#: MR312.06 Amendment No. 8 FA# MOU.MR312.06 A-8

### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- Part I, Paragraph 2.2 of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "To the extent the Measure R funds are available, LACMTA shall make to GRANTEE a grant of the Measure R funds in the amount of \$2,400,000 (the "Funds") for the Project. LACMTA Board of Directors actions on February 24, 2011, and June 22, 2023, granted the Measure R Funds for the Project. The Funds are currently programmed in Fiscal Years: \$1,400,000 in FY 2011-12; and \$1,000,000 in FY 2023-24."
- Part II, Section 9.1 of the Existing FA is hereby amended by deleting it in its 2. entirety and replacing it with the following:
  - GRANTEE must demonstrate timely use of the Funds by: "9.1
    - executing this FA within **ninety (90) days** of receiving formal (i) transmittal of the FA from LACMTA, or by December 31 of the first Fiscal Year in which the Funds are programmed, whichever date is later: and
    - meeting the Project milestone due dates as agreed upon by the (ii) LACMTA and GRANTEE in Attachment C-7 (Scope of Work) of this FA. Contracts for construction or capital purchase shall be executed within nine (9) months from the date of completion of design: and
    - (iii) submitting the Quarterly Progress/Expenditure Reports as described in Part II. Section 6.1 of this FA; and
    - (iv) expending the Funds granted under this FA for allowable costs by the lapsing date. All Funds programmed for FY2011-12 are subject to lapse by June 30, 2025. All Funds programmed for FY2023-24 are subject to lapse by June 30, 2026."
- Attachment A of the Existing FA is hereby replaced by Attachment A-1, 3. attached.
- 4. Attachment B1-7 of the Existing FA is hereby replaced by Attachment B1-8, attached.
- 5. Attachment C-6 of the Existing FA is hereby replaced by Attachment C-7, attached.
- Attachment E-TIP Sheet of the Existing FA is hereby replaced by Attachment 6. E-1, attached.

Rev: 10.26.2022

FTIP #: LA0G720 Project#: MR312.06 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Amendment No. 8 Ramp and Interchange Improvements (South Bay) FA# MOU.MR312.06 A-8

7. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

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FTIP #: LA0G720

Rev.: 03.08.2023

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

Project#: MR312.06 Amendment No. 8 FA# MOU.MR312.06 A-8

IN WITNESS WHEREOF, the parties have caused this Amendment No. 8 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:	
By:  Stephanie N. Wiggins Chief Executive Officer	Date: 5 23 2004
APPROVED AS TO FORM:	
DAWYN R. HARRISON County Counsel	
By: Eggno Deputy	Date: 03/29/24
GRANTEE:	
CITY OF REDONDO BEACH	
By: Journal Docusigned by: 6BC0853B8F644F1  Jim Light Mayor	5/15/2024   2:00 AM PDT Date:
APPROVED AS TO FORM:	
By: Michael W. Webb City Attorney	5/14/2024   11:24 PM PD Date:
ATTEST:	
By: Cleanor Manyano  Eleanor Manzano  Eleanor Manzano	5/15/2024   10:07 AM PDT Date:
City Clerk	

### ATTACHMENT A-1 - PROJECT FUNDING

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-8

Project Title: Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard Project#: MR312.06

### PROGRAMMED BUDGET - SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Years	FY2011-12	FY2022-23	FY2023-24	FY2024-25	FY2025-26		Total Budget	% of Budget
LACMTA PROGRAMMED FUNDING									
MEASURE R FUNDS		\$ 1,400,000		\$ 1,000,000			\$	2,400,000	
LACMTA PROGRAMMED FUNDS BY YEAR SUBTOTAL		\$ 1,400,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$	2,400,000	100%
OTHER SOURCES OF FUNDING:									
LOCAL:							\$	-	0%
STATE:							\$		0%
STATE.									070
FEDERAL:							\$	-	0%
DDWATE OF OTHER							6		00/
PRIVATE OR OTHER:							\$	<u>-</u>	0%
OTHER FUNDING SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	0%
TOTAL PROJECT FUNDS	\$ -	\$ 1,400,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$	2,400,000	100%

### ATTACHMENT B1-8 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-8

Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#: MR312.06

### PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Expenditures	FY 2022-23 Qtr 3	FY 2022-23 Qtr 4	FY 2023-24 Qtr 1	FY 2023-24 Qtr 2	FY 2023-24 Qtr 3	FY 2023-24 Qtr 4	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:								
MEASURE R FUNDS:								
PAED								\$0
PS&E	\$339,226			\$10,000	\$10,000	\$10,774	\$10,000	\$380,000
RW Support	\$13,300	\$3,400	\$3,300	\$4,000	\$4,000	\$3,000	\$3,000	\$34,000
Const. Support								\$0
RW								\$0
Construction								\$0
Total MEASURE R	\$352,526	\$3,400	\$3,300	\$14,000	\$14,000	\$13,774	\$13,000	\$414,000
SUM PROG LACMTA FUNDS:	\$352,526	\$3,400	\$3,300	\$14,000	\$14,000	\$13,774	\$13,000	\$414,000
SUM NON-LACMTA FUNDS :	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT FUNDING FY22-23 and FY23-24	\$352,526	\$3,400	\$3,300	\$14,000	\$14,000	<b>\$</b> 13,774	\$13,000	\$414,000
SOURCES OF FUNDS	FY 2024-25 Qtr 1	FY 2024-25 Qtr 2	FY 2024-25 Qtr 3	FY 2024-25 Qtr 4	FY 2025-26 Qtr 1	FY 2025-26 Qtr 2	FY 2025-26 Qtr 3	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:								
MEASURE R FUNDS:								
PAED								\$0
PS&E	\$5,000	\$5,000	\$5,000	\$5,000				\$20,000
RW Support	\$3,000	\$3,000	\$3,000	\$3,000				\$6,000
Const. Support	, , , , , ,	\$10,000	\$50,000	\$50,000	\$30,000	\$10,000		\$150,000
RW	\$500,000	\$500,000						\$1,000,000
Construction			\$200,000	\$400,000	\$210,000			\$810,000
Total MEASURE R	\$508,000	\$518,000	\$255,000	\$455,000	\$240,000	\$10,000	\$0	\$1,986,000
SUM PROG LACMTA FUNDS:	\$508,000	\$518,000	\$255,000	\$455,000	\$240,000	\$10,000	\$0	\$1,986,000
SUM NON-LACMTA FUNDS :	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT FUNDING	***	40	40	\$0	40	30		40
FY24-25 and FY25-26	\$508,000	\$518,000	\$255,000	\$455,000	\$240,000	\$10,000	\$0	\$1,986,000
SUMMARY OF ALL FUNDS								
	#0	**	**	#0	**	**	#0	**
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$344,226	\$5,000	\$5,000	\$15,000	\$10,000	\$10,774	\$10,000	\$400,000
RW Support	\$16,300	\$6,400	\$3,300	\$4,000	\$4,000	\$3,000	\$3,000	\$40,000
Const. Support	\$0	\$10,000	\$50,000	\$50,000	\$30,000	\$10,000	\$0	\$150,000
RW	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Construction	\$0	\$0	\$200,000	\$400,000	\$210,000	\$0	\$0	\$810,000
TOTAL MILESTONES	\$860,526	\$521,400	\$258,300	\$469,000	\$254,000	\$23,774	\$13,000	\$2,400,000
SUM PROG LACMTA FUNDS	\$860,526	\$521,400	\$258,300	\$469,000	\$254,000	\$23,774	\$13,000	\$2,400,000
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$860,526	\$521,400	\$258,300	\$469,000	\$254,000	\$23,774	\$13,000	\$2,400,000

### ATTACHMENT C-7 SCOPE OF WORK

PROJECT TITLE: F46 - Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street to the north and Palos Verdes Boulevard to the south.

### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street and Palos Verdes Boulevard.

### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the City of Redondo Beach Traffic Circulation Element (City of Redondo Beach, 2009) approved in 2012 and User-Based Microanalysis of State Route 1. Pacific Coast Highway (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 milelong project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.

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### **PROJECT SCOPE:**

### Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes **Boulevard**

### Phase I: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 0
R/W Capital	\$ 0
Construction Support	\$ 0
Construction	\$ 0
Total Phase I	\$ 150,000

### Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street	Signalized
2.	Pacific Coast Highway at Catalina Avenue	Signalized
3.	Pacific Coast Highway at Irena Avenue	Signalized
4.	Pacific Coast Highway at Agate Street	Unsignalized
5.	Pacific Coast Highway at N. Guadalupe Avenue	Unsignalized
6.	Pacific Coast Highway at Beryl Street	Signalized
7.	Pacific Coast Highway at Carnelian Street	Signalized
8.	Pacific Coast Highway at Diamond Street	Signalized
9.	Pacific Coast Highway at Vincent Street	Signalized
10.	Pacific Coast Highway at Emerald Street	Signalized
11.	Pacific Coast Highway at Garnet Street	Signalized
12.	Pacific Coast Highway at Torrance Boulevard	Signalized
13.	Pacific Coast Highway at Pearl Street	Signalized
14.	Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized
15.	Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized
16.	Pacific Coast Highway at Topaz Street	Unsignalized
	Pacific Coast Highway at Knob Hill Avenue	Signalized
18.	Pacific Coast Highway at Avenue A	Unsignalized

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19. Pacific Coast Highway at Avenue B	Unsignalized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
Traffic Analysis Report	11/23/2015	4/19/2018
Bid for Traffic Analysis	11/23/2015	1/18/2016
Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report Version 1	12/21/2016	4/13/2017
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

### Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

### Phase II: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 250,000
R/W Support	\$ 40,000
R/W Capital	\$ 1,000,000
Construction Support	\$ 150,000
Construction	\$ 810,000
Total Phase II	\$ 2,250,000

### Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process.
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

### Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		
Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017
Structural Design	January 1, 2017	March 31, 2017

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Scope of Work

Detailed Design ITS Drawings System Plans Communications Plans Software Specifications Project Review & Comments 65% PS&E Intelligent Transportation System (ITS) Detailed Design Plans System Intelligent Transportation System (ITS) Detailed Design ITS Drawings System Plans System Sheeps & Comments Intelligent Transportation System (ITS) Detailed Design ITS Drawings System Plans System Specifications Software Specifications Software Specifications Software Specifications System Plans	Intelligent Transportation System (ITS)		
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Intelligent Transportation System (ITS   Detailed Design   ITS Drawings   System Plans   System Plans   System Integrations Plans   Systems Integrations   Systems Integrations   Systems Integrations   Systems Integrations   Systems Integrations   Systems Integrations   System (ITS)   System Plans   System Integrations Plans   Systems Integrations Plans   Systems Integrations Plans   Submittals & Reviews   Submit Final PS&E   November 1, 2018   December 31, 2018   Submit Final PS&E   November 17, 2018   September 30, 2024   RIGHT OF WAY SUPPORT   Sertification/Mapping   Submit Final PS&E   February 1, 2019   September 30, 2024   RIGHT OF WAY ACQUISITION Phase II   February 1, 2019   February 28, 2019   Appraisal   March 15, 2019   Environmental Investigation   September 31, 2024   October 31, 2024   Right Of Way Suppraisal   March 16, 2024   October 31, 2024   Semediation   Utility Relocation   Third Party Coordination   Design Utilities   September 30, 2024   October 31, 2024   Oc			
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Third Party Coordination Design Utilities			
Design Utilities			

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	November 1, 2024	January 31, 2025
Develop Solicitation Package	November 1, 2024	November 15, 2024
Solicitation Response	November 16, 2024	December 15, 2024
Evaluations	November 10, 2024	December 15, 2024
Selection		
	December 16, 2024	lonuoni 15, 2025
Board Approval	December 16, 2024	January 15, 2025
Contract Award	January 16, 2025	January 23, 2025
Fully Executed Contract	January 24, 2025	January 31, 2025
Excavation	February 1, 2025	February 7, 2025
Clear/Grub		
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete	Mar 1, 2025	Mar 31, 2025
Form Work		
Rebar Placement		
Pole Placement	Apr 15, 2025	Apr 22, 2025
Traffic Control	Feb 1, 2025	May 31, 2025
TMP		
Structural	Apr 1, 2025	Apr 15, 2025
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	May 8, 2025	May 15, 2025
LADOT	May 8, 2025	May 15, 2025
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	May 20, 2025	May 25, 2025
A/G Testing/Acceptance	May 20, 2025	May 25, 2025
Landscape		
Clearing	Jun 16, 2025	Jun 30, 2025
Planting	Jul 1, 2025	Jul 15, 2025
Plant Establishment	, , , , , , , , , , , , , , , , , , , ,	-, -=-
Irrigation	Aug 8, 2025	Aug 15, 2025
Testing	Aug 8, 2025	Aug 15, 2025

Change Orders	Aug 16, 2025	Aug 31, 2025
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

### A. <u>Preliminary Design Development for the Entire Project</u>

- (a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.
- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.
- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic

Rev: 11.1.14 7 FA Attachment C-7 Scope of Work

- counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

### B. Construction Documents for PCH at Torrance Boulevard with Full Design

- (a) Utility Research & Coordination. Consultant will research for information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the City in a report including the following:

- Thickness of pavement section
- Site soil characterization
- R-Value of subgrade soils
- Pavement section recommendations

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Scope of Work

- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.

#### C. Support Services through Bid, Award & Construction Phases

(a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.

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- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.

## D. Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)

- (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
- (b) Phase II (ESA) Environmental Site Assessment. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.

- i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.
- Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of

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Scope of Work

soil and soil gas for analysis utilizing the methodologies used industrywide.

Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

### **Right of Way Acquisition:**

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

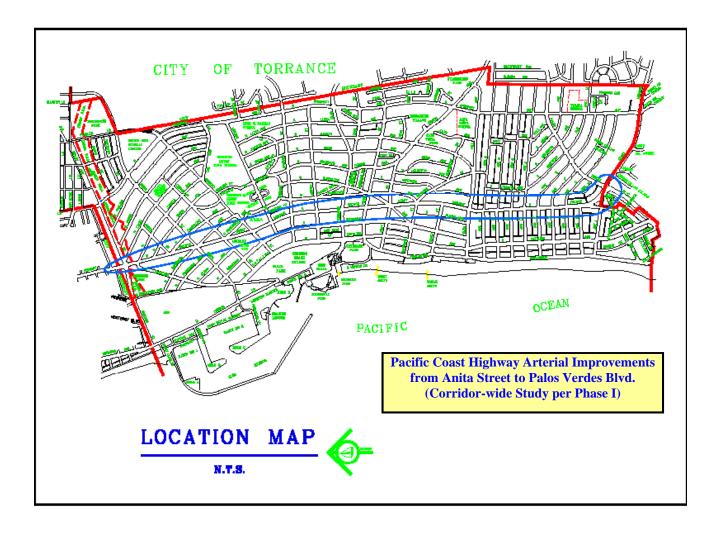
### Construction:

Construction for Phase II: Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

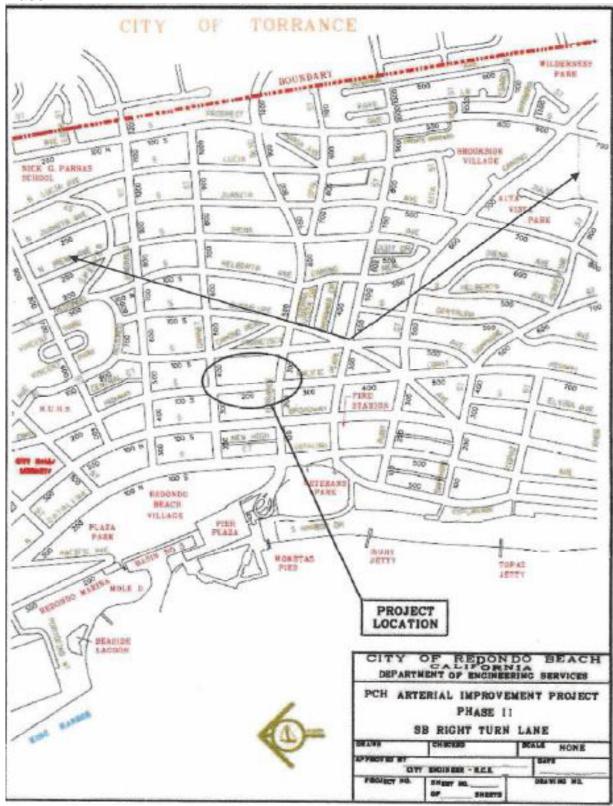
Rev: 11.1.14 11

### ATTACHMENT C-7 -Location Maps

### Phase I



### Phase II



### Attachment E-1

## Los Angeles Metropolitan Transportation Authority 2025 Federal Transportation Improvement Program (\$000)

Project Description: F46 Pacific Coast Highway Arterial Improvobtain right of way and construct roadway improvements, stripi improvements. Project No. MR312.06, FA No. MOU.MR312.06	ng/signal enha						Study:N PM: Jao Email: j LS: N	ck Rydell - ( ack.rydell@ LS GROL	lel: NO Mode (310) 318-06 )redondo.org	61 J
System :State Hwy Route :1 Postmile: 18.09 to 21.25	Distance: 3.1	6 Phase: R	OW Acqui	sition				Comple	etion Date 12	:/31/2027
Lane # Extd: Lane # Prop: Imprv Desc:					Air Basin: SC	AB Envir D	oc: CATEGO	RICALLY E	XEMPT - 06	/28/2011
Toll Rate: Toll Colc Loc: Toll Method: 0.00	Hov ac	s eg loc:			Uza: Los Ango Beach-Santa		Sub-Area:	Sub-R COG	tegion: South	Bay Cities
					CTIPS ID:		EA #:		PPNO:	
Program Code: NCRH1 - INTERSECTION IMPROVEMENTS	S/CHANNELIZ	ZATION Stop	Loc:							
	PHASE	PRIOR	24/25	25/26	26/27	27/28	28/29	29/30	BEYOND	PROG TOTA
IR20H - Measure R 20% Highway	PE		\$0							\$0
	RW		\$0							\$0
	CON		\$2,000							\$2,000
	SUBTOTAL		\$2,000							\$2,000
leasure R	PE	\$300								\$300
	RW	\$100								\$100
	CON	\$0								\$0
	SUBTOTAL	\$400								\$400
	TOTAL	\$400	\$2,000							\$2,40
	TOTAL PE:	\$300	TOTAL	_RW: \$	100	TOTAL CO	N: \$2,000	TOTAL	PROGRAMN	IED: \$2,400
- General Comment: - Modeling Comment: - TCM Comment: - Amendment Comment: - CMP Comment:										

Change reason: Carry over from 23TIP

Last Revised Adoption 25-00 - Accepted

**Total Project Cost** 

\$2,400

FTIP #: LA0G720 Project#: MR312.06 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Amendment No. 7

Funding Agreement # MOU.MR312.06 A-7

Ramp and Interchange Improvements (South Bay)

## AMENDMENT No. 7 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 7 to the Funding Agreement (this "Amendment"), is dated as of August 15, 2022 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

### **RECITALS:**

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06 dated August 15, 2011, which was amended on January 30, 2017, December 1, 2017, March 25, 2019, August 31, 2019, August 25, 2020 and July 29, 2021, (as amended the "Existing FA"), which Existing FA provides for the Plans, Specifications, and Estimates (PS&E), Right-of-Way, and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project"); and
- B. WHEREAS, the LACMTA Board in October 25, 2018 delegated administrative authority to staff to extend funding lapse dates to meet PAED, PS&E, ROW and Construction time frames; and
- C. WHEREAS, the Grantee and LACMTA desire to extend the lapsing date of the Project to June 30, 2024; and
- D. WHEREAS, the Grantee and LACMTA desire to amend the Existing FA as provided herein.

Rev: 04.29.2022

FTIP #: LA0G720 Project#: MR312.06 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Amendment No. 7

Funding Agreement # MOU.MR312.06 A-7

Ramp and Interchange Improvements (South Bay)

### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (vii) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "(vii) Expending the Funds granted under this FA for allowable costs by the lapsing date. All Funds programmed for FY2011-12 are subject to lapse by June 30, 2024."
- 2. Attachment B1-6 of the Existing FA is hereby replaced by Attachment B1-7, attached.
- 3. Attachment C-5 of the Existing FA is hereby replaced by Attachment C-6, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

Rev: 04.29.2022

FTIP #: LA0G720

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

Project#: MR312.06 Amendment No. 7 Funding Agreement # MOU.MR312.06 A-7

IN WITNESS WHEREOF, the parties have caused this Amendment No.7 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA: LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY Stephanie N. Wiggins Chief Executive Officer APPROVED AS TO FORM: DAWYN R. HARRISON Interim County Counsel Date: 1/13/2023 GRANTEE: CITY OF REDONDO BEACH Mls H. Mhrenheim 2/9/2023 | 4:18 PM PST -- DC2A3D6CA98045B... William C. Brand City Mayor Nils H. Nehrenheim, Mayor Pro Tempore APPROVED AS TO FORM: Michael W. Webb 2/9/2023 | 3:14 PM PST -- 669049EDE03D402... Date: \_\_ Michael W. Webb City Attorney ATTEST: Classon Mangano 2/9/2023 | 5:51 PM PST -72F2AC716C214CF...

Eleanor Manzano

City Clerk

Date:

### ATTACHMENT B1-7 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-7

Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#: MR312.06

### PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Expenditures	FY 2022-23 Qtr 1	FY 2022-23 Qtr 2	FY 2022-23 Qtr 3	FY 2022-23 Qtr 4	FY 2023-24 Qtr 1	FY 2023-24 Qtr 2	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:								
MEASURE R FUNDS:								
PAED								\$0
PS&E	\$331,362							\$331,362
RW Support	\$9,500	\$7,500	\$3,000					\$20,000
Const. Support				\$15,000	\$35,000	\$25,000	\$5,000	\$80,000
RW								\$0
Construction				\$266,638	\$415,000	\$237,000	\$50,000	\$968,638
Total MEASURE R	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000
PROP C 25%								
PAED								\$0
PS&E								\$0
RW Support								\$0
Const. Support								\$0
RW								\$0
Construction								\$0
Total PROP C 25%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SUM PROG LACMTA FUNDS:	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000
PROJECT FUNDING FY22-23 and FY23-24	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000
SUMMARY OF ALL FUNDS								
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$331,362	\$0	\$0	\$0	\$0	\$0	\$0	\$331,362
RW Support	\$9,500	\$7,500	\$3,000	\$0	\$0	\$0	\$0	\$20,000
Const. Support	\$0	\$0	\$0	\$15,000	\$35,000	\$25,000	\$5,000	\$80,000
RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$266,638	\$415,000	\$237,000	\$50,000	\$968,638
TOTAL MILESTONES	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000
GUIM DROCK A CHETA TURES	\$240,000	<b>67 500</b>	<b>#2.000</b>	\$201.C20	#4E0.000	#2/2 000	<b>#</b> EE 000	#4 400 655
SUM PROG LACMTA FUNDS	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$340,862	\$7,500	\$3,000	\$281,638	\$450,000	\$262,000	\$55,000	\$1,400,000

### **ATTACHMENT C-6** SCOPE OF WORK

PROJECT TITLE: F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street to the north and Palos Verdes Boulevard to the south.

### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street and Palos Verdes Boulevard.

### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the City of Redondo Beach Traffic Circulation Element (City of Redondo Beach, 2009) approved in 2012 and User-Based Microanalysis of State Route 1. Pacific Coast Highway (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 milelong project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.

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### **PROJECT SCOPE:**

### <u>Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes</u> Boulevard

### Phase I: Funding

Component	Amount
PA/ED	\$0
PS and E	\$ 150,000
R/W Support	\$0
R/W Capital	\$0
Construction Support	\$0
Construction	\$0
Total Phase I	\$ 150,000

### Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street	Signalized
2.	Pacific Coast Highway at Catalina Avenue	Signalized
3.	Pacific Coast Highway at Irena Avenue	Signalized
4.	Pacific Coast Highway at Agate Street	Unsignalized
5.	Pacific Coast Highway at N. Guadalupe Avenue	Unsignalized
6.	Pacific Coast Highway at Beryl Street	Signalized
7.	Pacific Coast Highway at Carnelian Street	Signalized
8.	Pacific Coast Highway at Diamond Street	Signalized
9.	Pacific Coast Highway at Vincent Street	Signalized
10.	Pacific Coast Highway at Emerald Street	Signalized
11.	Pacific Coast Highway at Garnet Street	Signalized
12.	Pacific Coast Highway at Torrance Boulevard	Signalized
13.	Pacific Coast Highway at Pearl Street	Signalized
14.	Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized
15.	Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized
16.	Pacific Coast Highway at Topaz Street	Unsignalized
	Pacific Coast Highway at Knob Hill Avenue	Signalized
18.	Pacific Coast Highway at Avenue A	Unsignalized

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19. Pacific Coast Highway at Avenue B	Unsignalized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
Traffic Analysis Report	11/23/2015	4/19/2018
Bid for Traffic Analysis	11/23/2015	1/18/2016
Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report	12/21/2016	4/13/2017
Version 1		
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

### Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

### Phase II: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 181,362
R/W Support	\$ 20,000
R/W Capital	\$ 0
Construction Support	\$ 80,000
Construction	\$ 968,638
Total Phase II	\$ 1,250,000

### Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

### Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		
Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017

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Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	March 1, 2017	October 18, 2017
Civil Design Plans	11101111, 2011	00.000. 10, 2011
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments		
95% PS&E	October 18, 2017	October 19, 2018
Civil Design Plans	000001 10, 2011	2010201 10, 2010
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E	November 1, 2018	December 31, 2018
Outside Agency Review	December 17, 2018	September 30, 2022
RIGHT OF WAY SUPPORT		
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION Phase II	February 1, 2019	April 30, 2019
Certification/Mapping	, , , , , , , , , , , , , , , , , , , ,	, , , , , , ,
Title Report		
Meet with Property Owners	February 1, 2019	February 28, 2019
Appraisal	March 1, 2019	March 15, 2019
Environmental Investigation	111111111111111111111111111111111111111	
Closing/Acquire Property/Relocation	March 16, 2019	October 31, 2022
Physical Possession	March 16, 2019	October 31, 2022
Remediation		
Utility Relocation		
Third Party Coordination		
Design Utilities		

|--|

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	November 1, 2022	January 31, 2023
Develop Solicitation Package	November 1, 2022	November 15, 2022
Solicitation Response	November 16, 2022	December 15, 2022
Evaluations		
Selection		
Board Approval	December 16, 2022	January 15, 2023
Contract Award	January 16, 2023	January 23, 2023
Fully Executed Contract	January 24, 2023	January 31, 2023
Excavation	February 1, 2023	February 7, 2023
Clear/Grub	,	,
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete	Mar 1, 2023	Mar 31, 2023
Form Work	,	,
Rebar Placement		
Pole Placement	Apr 15, 2023	Apr 22, 2023
Traffic Control	Feb 1, 2023	May 31, 2023
TMP	,	
Structural	Apr 1, 2023	Apr 15, 2023
False Work	•	•
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	May 8, 2023	May 15, 2023
LADOT	May 8, 2023	May 15, 2023
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	May 20, 2023	May 25, 2023
A/G Testing/Acceptance	May 20, 2023	May 25, 2023
		-
	START DATE	COMPLETION DATE
Landscape		
Clearing	Jun 16, 2023	Jun 30, 2023
Planting	Jul 1, 2023	Jul 15, 2023
Plant Establishment		
Irrigation	Aug 8, 2023	Aug 15, 2023

Testing	Aug 8, 2023	Aug 15, 2023
Change Orders	Aug 16, 2023	Aug 31, 2023
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

### A. Preliminary Design Development for the Entire Project

- (a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.
- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.

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- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

### B. <u>Construction Documents for PCH at Torrance Boulevard with Full Design</u>

- (a) Utility Research & Coordination. Consultant will research for information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the City in a report including the following:

- Thickness of pavement section
- Site soil characterization
- R-Value of subgrade soils

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Scope of Work

### Pavement section recommendations

- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.

### C. Support Services through Bid, Award & Construction Phases

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- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.
- D. <u>Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)</u>
  - (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
  - (b) <u>Phase II (ESA) Environmental Site Assessment</u>. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.

i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.

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- ii. Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

### **Right of Way Acquisition:**

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

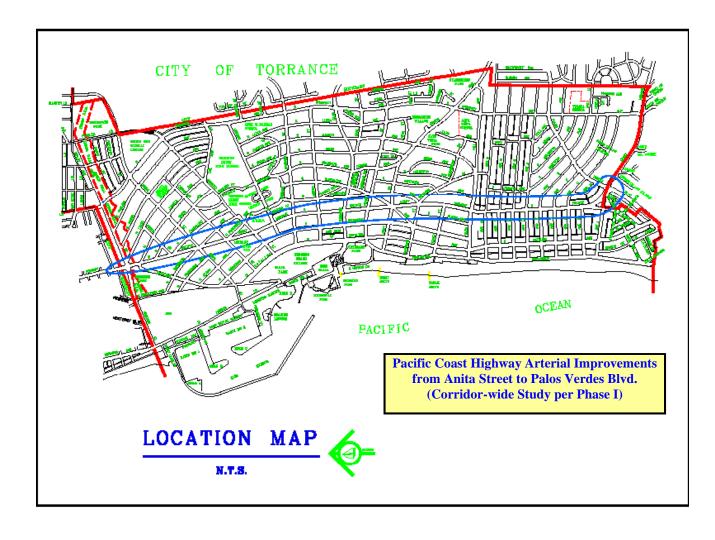
### Construction:

**Construction for Phase II:** Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

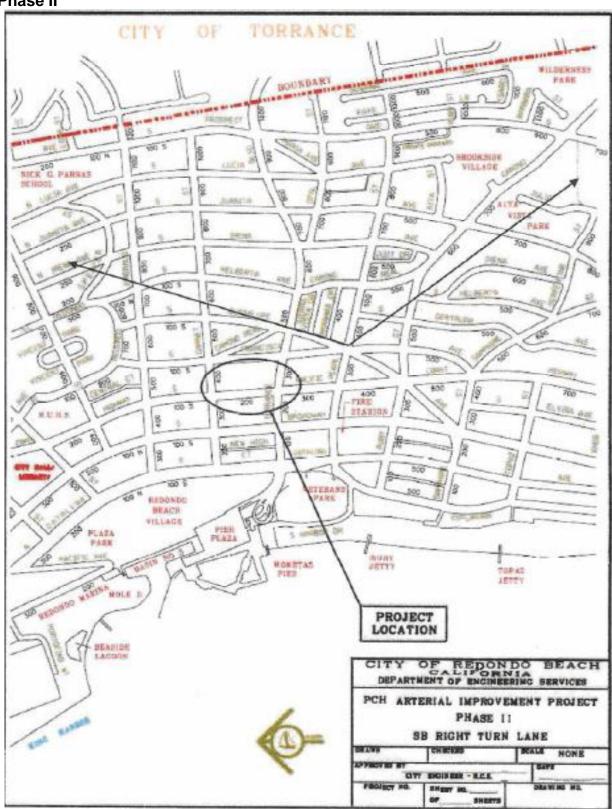
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Scope of Work

### ATTACHMENT C-6 -Location Maps

### Phase I



# Phase II



Project#: MR312.06 Amendment No. 6 Funding Agreement # MOU.MR312.06 A-6

# AMENDMENT No. 6 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 6 to the Funding Agreement (this "Amendment"), is dated as of July 29, 2021 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### RECITALS:

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06 dated August 15, 2011, which was amended on January 30, 2017, December 1, 2017, March 25, 2019, August 31, 2019 and August 25, 2020 ,(as amended, the "Existing FA"), which Existing FA provides for the Plans, Specifications, and Estimates (PS&E), Right-of-Way, and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project"); and
- B. WHEREAS, the LACMTA Board in October 25, 2018 delegated administrative authority to staff to extend funding lapse dates to meet PAED, PS& E, ROW and Construction time frames; and
- C. WHEREAS, the Grantee and LACMTA desire to extend the lapsing date of the Project to June 30, 2022; and
- D. WHEREAS, the Grantee and LACMTA desire to amend the Existing FA as provided herein.

Rev: 06.01.2021

FTIP #: LA0G720 Project#: MR312.06 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Amendment No. 6 Ramp and Interchange Improvements (South Bay) Funding Agreement # MOU.MR312.06 A-6

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (vii) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "(vii) All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2022."
- 2. Attachment B1-5 of the Existing FA is hereby replaced by Attachment B1-6, attached.
- 3. Attachment C-4 of the Existing FA is hereby replaced by Attachment C-5, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

FTIP #: LA0G720 Subregion ID: Interchange 405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay) Project#: MR312.06 Amendment No. 6 Funding Agreement # MOU.MR312.06 A-5

IN WITNESS WHEREOF, the parties have caused this Amendment No.6 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:	
LOS ANGELES COUNTY METROPOLITAN TRANSPO	1 1
By: Stephanie N. Wiggins Chief Executive Officer	Date: 2 4 2022
APPROVED AS TO FORM:	
RODRIGO A. CASTRO-SILVA County Counsel	
By:Deputy	Date: 129 2021
GRANTEE:	
CITY OF REDONDO BEACH	
By: William C. Brand City Mayor	Date:
APPROVED AS TO FORM:	
By: Michael W. Webb City Attorney	Date: 2/2/2022
By: Eleanor Manzane  City Clerk	Date: 2/4/2022

#### ATTACHMENT B1-6 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-6

Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#: MR312.06

# PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Expenditures	FY 2021-22 Qtr 1	FY 2021-22 Qtr 2	FY 2021-22 Qtr 3	FY 2021-22 Qtr 4	FY 2022-23 Qtr 1	FY 2022-23 Qtr 2	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:								
MEASURE R FUNDS:								
PAED								\$0
PS&E	\$312,621							\$312,621
RW Support	\$8,500	\$7,500	\$4,000					\$20,000
Const. Support		\$25,000	\$35,000	\$15,000	\$5,000			\$80,000
RW								\$0
Construction			\$285,379	\$415,000	\$287,000			\$987,379
Total MEASURE R	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000
PROP C 25%								
PAED								\$0
PS&E								\$0
RW Support								\$0
Const. Support								\$0
RW								\$0
Construction								\$0
Total PROP C 25%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SUM PROG LACMTA FUNDS:	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000
PROJECT FUNDING FY21-22 and FY22-23	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000
SUMMARY OF ALL FUNDS								
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$312,621	\$0	\$0	\$0	\$0	\$0	\$0	\$312,621
RW Support	\$8,500	\$7,500	\$4,000	\$0	\$0	\$0	\$0	\$20,000
Const. Support	\$0	\$25,000	\$35,000	\$15,000	\$5,000	\$0	\$0	\$80,000
RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$285,379	\$415,000	\$287,000	\$0	\$0	\$987,379
TOTAL MILESTONES	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000
TOTAL MILLSTONES	Ψ321,121	432,300	₩J21,J/J	<b>\$130,000</b>	4272,000	<b>4</b> 0	40	<b>\$1,100,000</b>
SUM PROG LACMTA FUNDS	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$321,121	\$32,500	\$324,379	\$430,000	\$292,000	\$0	\$0	\$1,400,000

# **ATTACHMENT C-5** SCOPE OF WORK

PROJECT TITLE: F46 - Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

#### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

#### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street to the north and Palos Verdes Boulevard to the south.

#### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190th Street and Palos Verdes Boulevard.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the City of Redondo Beach Traffic Circulation Element (City of Redondo Beach, 2009) approved in 2012 and User-Based Microanalysis of State Route 1. Pacific Coast Highway (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 mile long project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.

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#### **PROJECT SCOPE:**

# <u>Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes</u> Boulevard

# Phase I: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$0
R/W Capital	\$0
Construction Support	\$0
Construction	\$0
Total Phase I	\$ 150,000

# Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

#### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street	Signalized
2.	Pacific Coast Highway at Catalina Avenue	Signalized
3.	Pacific Coast Highway at Irena Avenue	Signalized
4.	Pacific Coast Highway at Agate Street	Unsignalized
5.	Pacific Coast Highway at N. Guadalupe Avenue	Unsignalized
6.	Pacific Coast Highway at Beryl Street	Signalized
7.	Pacific Coast Highway at Carnelian Street	Signalized
8.	Pacific Coast Highway at Diamond Street	Signalized
9.	Pacific Coast Highway at Vincent Street	Signalized
10.	Pacific Coast Highway at Emerald Street	Signalized
11.	Pacific Coast Highway at Garnet Street	Signalized
12.	Pacific Coast Highway at Torrance Boulevard	Signalized
13.	Pacific Coast Highway at Pearl Street	Signalized
14.	Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized
15.	Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized
16.	Pacific Coast Highway at Topaz Street	Unsignalized
17.	Pacific Coast Highway at Knob Hill Avenue	Signalized
18.	Pacific Coast Highway at Avenue A	Unsignalized

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19. Pacific Coast Highway at Avenue B	Unsignalized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
Traffic Analysis Report	11/23/2015	4/19/2018
Bid for Traffic Analysis	11/23/2015	1/18/2016
Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report	12/21/2016	4/13/2017
Version 1		
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

# Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

# Phase II: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 40,000
R/W Capital	\$ 60,000
Construction Support	\$ 150,000
Construction	\$ 850,000
Total Phase II	\$ 1,250,000

# Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

### Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		
Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017

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Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)	canaary 1, 2011	
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	March 1, 2017	October 18, 2017
Civil Design Plans	maren i, zem	00.000. 10, 2011
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments		
95% PS&E	October 18, 2017	October 19, 2018
Civil Design Plans	, , , , , , , , , , , , , , , , , , , ,	
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E	November 1, 2018	December 31, 2018
Outside Agency Review	December 17, 2018	August 31, 2021
RIGHT OF WAY SUPPORT		
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION Phase II	February 1, 2019	April 30, 2019
Certification/Mapping		
Title Report		
Meet with Property Owners	February 1, 2019	February 28, 2019
Appraisal	March 1, 2019	March 15, 2019
Environmental Investigation		
Closing/Acquire Property/Relocation	March 16, 2019	September 30, 2021
Physical Possession	March 16, 2019	September 30, 2021
Remediation		
Utility Relocation		
Third Party Coordination		
Design Utilities		

Relocate Utilities	
Troiseans emines	

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	October 1, 2021	December 31, 2021
Develop Solicitation Package	October 1, 2021	October 15, 2021
Solicitation Response	October 16, 2021	November 15, 2021
Evaluations		
Selection		
Board Approval	November 16, 2021	December 15, 2021
Contract Award	December 16, 2021	December 23, 2021
Fully Executed Contract	December 24, 2021	December 31, 2021
Excavation	Jan 1, 2022	Jan 7, 2022
Clear/Grub		
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete	Feb 1, 2022	Feb 28, 2022
Form Work		
Rebar Placement		
Pole Placement	Mar 15, 2022	Mar 22, 2022
Traffic Control	Jan 1, 2022	Apr 30, 2022
TMP		
Structural	Mar 1, 2022	Mar 15, 2022
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	Mar 8, 2022	Mar 15, 2022
LADOT	Mar 8, 2022	Mar 15, 2022
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	Mar 15, 2022	Mar 15, 2022
A/G Testing/Acceptance	Mar 15, 2022	Mar 15, 2022
	START DATE	COMPLETION DATE
Landagana	START DATE	COMPLETION DATE
Clearing	Mor 46, 2022	April 7, 2022
Clearing	Mar 16, 2022	April 7, 2022
Planting Plant Establishment	Mar 16, 2022	April 7, 2022
Plant Establishment	April 9, 2022	April 45, 2000
Irrigation	April 8, 2022	April 15, 2022

Testing	April 8, 2022	April 15, 2022
Change Orders	April 16, 2022	April 30, 2022
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

Design and Study: Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

#### A. Preliminary Design Development for the Entire Project

- (a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.
- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.

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- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

#### В. Construction Documents for PCH at Torrance Boulevard with Full Design

- (a) Utility Research & Coordination. Consultant will research all information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the City in a report including the following:

- Thickness of pavement section
- Site soil characterization
- R-Value of subgrade soils

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#### Pavement section recommendations

- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.
- C. Support Services through Bid, Award & Construction Phases

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- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.
- Optional Environmental Services, ESA I and ESA II (City's Sole D. Discretion)
  - (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
  - (b) Phase II (ESA) Environmental Site Assessment. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.

i. Consultant shall ensure its representative will provide the field investigation reporting services follows. and as

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- ii. Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

# **Right of Way Acquisition:**

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

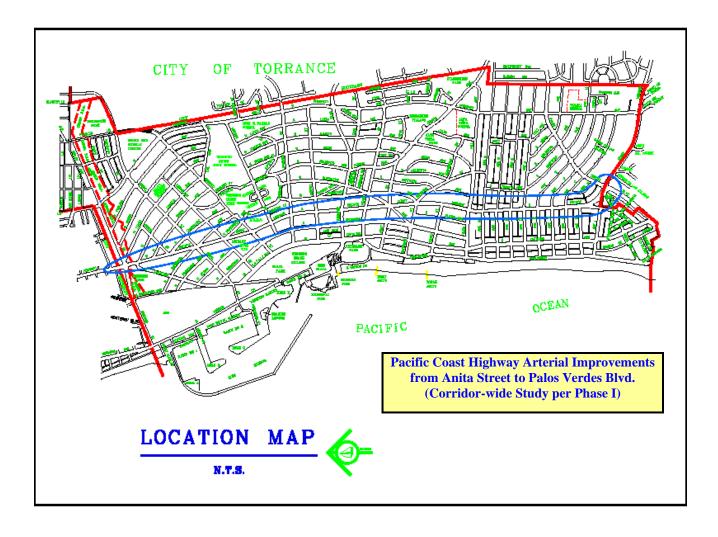
#### Construction:

Construction for Phase II: Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

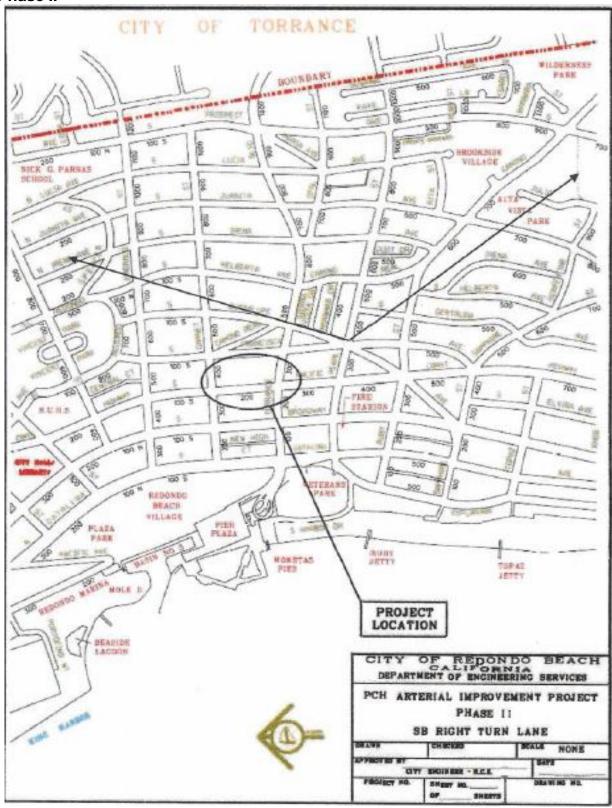
Rev: 11.1.14 11

# ATTACHMENT C-4 -Location Maps

# Phase I



# Phase II



Project# MR312.06 Amendment No. 5 Funding Agreement # MOU.MR312.06 A-5

# AMENDMENT No. 5 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND

#### THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 5 to the Funding Agreement (this "Amendment"), is dated as of August 25, 2020 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### **RECITALS:**

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06 dated August 15, 2011, which was amended on January 30, 2017, December 1, 2017, March 25, 2019, and August 31, 2019, (as amended, the "Existing FA"), which Existing FA provides for the Plans, Specifications, and Estimates (PS&E), Right-of-Way, and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project"); and
- B. WHEREAS, the LACMTA Board in October 25, 2018 delegated administrative authority to staff to extend funding lapse dates to meet PAED, PS&E, ROW and Construction time frames; and
- C. WHEREAS, the Grantee and LACMTA desire to extend the lapsing date of FY 2011-12 funds to June 30, 2021; and
- D. WHEREAS, the Grantee and LACMTA desire to amend the Existing FA as provided herein.

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (vii) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "(vii) All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2021."
- 2. Attachment B1-4 of the Existing FA is hereby replaced by Attachment B1-5, attached.
- 3. Attachment C-3 of the Existing FA is hereby replaced by Attachment C-4, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

Rev: 08.13.19

IN WITNESS WHEREOF, the parties have caused this Amendment No.5 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:	
By:  Phillip A. Washington Chief Executive Officer	Date: 4/5/2021
APPROVED AS TO FORM:	
RODRIGO CASTRO-SILVA Acting County Counsel  By:	Date:
GRANTEE:	
CITY OF REDONDO BEACH  Docusigned by:  William C. Brand  William C. Brand  City Mayor	2/22/2021   11:51 AM PST Date:
APPROVED AS TO FORM:  Michael W. Webb  City Attorney	2/22/2021   10:55 AM PST Date:
ATTEST:DocuSigned by:	
By:Eleanor Manzano City Clerk	2/22/2021   12:05 PM PST Date:

# ATTACHMENT B1-5 EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-5
Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06
PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Years	FY 2020-21 Qtr 1	FY 2020-21 Qtr 2	FY 2020-21 Qtr 3	FY 2020-21 Qtr 4	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:						
MEASURE R FUNDS:						
PAED						\$0
PS&E	\$258,181	\$31,819	\$10,000			\$300,000
RW Support		\$8,000	\$12,000			\$20,000
RW						\$0
Const. Support		\$39,000	\$41,000			\$80,000
Construction			\$310,000	\$400,000	\$290,000	\$1,000,000
Total MEASURE R	\$258,181	\$78,819	\$373,000	\$400,000	\$290,000	\$1,400,000
SUM PROG LACMTA FUNDS:	\$258,181	\$78,819	\$373,000	\$400,000	\$290,000	\$1,400,000
SUM NON-LACMTA FUNDS :	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT FUNDING FY19-20 and FY20-21	\$258,181	\$78,819	\$373,000	\$400,000	\$290,000	\$1,400,000
SUMMARY OF ALL FUNDS						
PAED	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$258,181	\$31,819	\$10,000	\$0	\$0	\$300,000
RW Support	\$0	\$8,000	\$12,000	\$0	\$0	\$20,000
RW	\$0	\$0	\$0	\$0	\$0	\$0
Const. Support	\$0	\$39,000	\$41,000	\$0	\$0	\$80,000
Construction	\$0	\$0	\$310,000	\$400,000	\$290,000	\$1,000,000
TOTAL MILESTONES	\$258,181	\$78,819	\$373,000	\$400,000	\$290,000	\$1,400,000
SUM PROG LACMTA FUNDS	\$258,181	\$78,819	\$373,000	\$400,000	\$290,000	\$0
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$258,181	<b>\$</b> 78,819	\$373,000	\$400,000	\$290,000	\$1,400,000

# ATTACHMENT C-4 SCOPE OF WORK

**PROJECT TITLE**: F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

#### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

#### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street to the north and Palos Verdes Boulevard to the south.

#### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 mile long project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.

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#### **PROJECT SCOPE:**

# <u>Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes</u> Boulevard

# Phase I: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 0
R/W Capital	\$ 0
Construction Support	\$ 0
Construction	\$ 0
Total Phase I	\$ 150,000

# Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

#### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street	Signalized
2.	Pacific Coast Highway at Catalina Avenue	Signalized
3.	Pacific Coast Highway at Irena Avenue	Signalized
4.	Pacific Coast Highway at Agate Street	Unsignalized
5.	Pacific Coast Highway at N. Guadalupe Avenue	Unsignalized
6.	Pacific Coast Highway at Beryl Street	Signalized
7.	Pacific Coast Highway at Carnelian Street	Signalized
8.	Pacific Coast Highway at Diamond Street	Signalized
9.	Pacific Coast Highway at Vincent Street	Signalized
10.	Pacific Coast Highway at Emerald Street	Signalized
11.	Pacific Coast Highway at Garnet Street	Signalized
	Pacific Coast Highway at Torrance Boulevard	Signalized
13.	Pacific Coast Highway at Pearl Street	Signalized
14.	Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized
15.	Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized
	Pacific Coast Highway at Topaz Street	Unsignalized
	Pacific Coast Highway at Knob Hill Avenue	Signalized
18.	Pacific Coast Highway at Avenue A	Unsignalized

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19. Pacific Coast Highway at Avenue B	Unsignalized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
Traffic Analysis Report	11/23/2015	4/19/2018
Bid for Traffic Analysis	11/23/2015	1/18/2016
Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report	12/21/2016	4/13/2017
Version 1		
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

# Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

#### Phase II: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 40,000
R/W Capital	\$ 60,000
Construction Support	\$ 150,000
Construction	\$ 850,000
Total Phase II	\$ 1,250,000

# Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

#### Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		
Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating	_	
Civic Design	January 1, 2017	March 31, 2017

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Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)	canaary 1, 2011	a.e e 1, 2e 11
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	March 1, 2017	October 18, 2017
Civil Design Plans	Watch 1, 2017	October 10, 2017
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design ITS Drawings		
System Plans Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments	O-t-b40 0047	O-t-b40, 0040
95% PS&E	October 18, 2017	October 19, 2018
Civil Design Plans		
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E	November 1, 2018	December 31, 2018
Outside Agency Review	December 17, 2018	October 31, 2020
RIGHT OF WAY SUPPORT		
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION Phase II	February 1, 2019	April 30, 2019
Certification/Mapping		
Title Report		
Meet with Property Owners	February 1, 2019	February 28, 2019
Appraisal	March 1, 2019	March 15, 2019
Environmental Investigation		
Closing/Acquire Property/Relocation	March 16, 2019	December 31, 2020
Physical Possession	March 16, 2019	December 31, 2020
Remediation		
Utility Relocation		
Third Party Coordination		
Design Utilities		

Relocate Utilities	

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	January 1, 2021	March 31, 2021
Develop Solicitation Package	January 1, 2021	January 15, 2021
Solicitation Response	January 16, 2021	February 15, 2021
Evaluations		, , , , , , , , , , , , , , , , , , ,
Selection		
Board Approval	February 16, 2021	March 15, 2021
Contract Award	February 16, 2021	March 15, 2021
Fully Executed Contract	March 16, 2021	March 31, 2021
Excavation	April 1, 2021	April 7, 2021
Clear/Grub	7,0111 1, 2021	7,51117,2021
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete		
Form Work		
Rebar Placement		
Pole Placement		
Traffic Control	April 1, 2021	April 7, 2021
TMP	, , -	, , ,
Structural	April 1, 2021	April 15, 2021
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	April 8, 2021	April 15, 2021
LADOT	April 8, 2021	April 15, 2021
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	April 16, 2021	May 15, 2021
A/G Testing/Acceptance	April 16, 2021	May 15, 2021
	START DATE	COMPLETION DATE
Landscape		
Clearing	May 16, 2021	June 7, 2021
Planting	May 16, 2021	June 7, 2021

Plant Establishment		
Irrigation	June 8, 2021	June 15, 2021
Testing	June 8, 2021	June 15, 2021
Change Orders	June 16, 2021	June 30, 2021
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

#### A. Preliminary Design Development for the Entire Project

- (a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.
- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.

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- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

### B. Construction Documents for PCH at Torrance Boulevard with Full Design

- (a) Utility Research & Coordination. Consultant will research all information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the City in a report including the following:

- Thickness of pavement section
- Site soil characterization

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- R-Value of subgrade soils
- Pavement section recommendations
- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.
- C. Support Services through Bid, Award & Construction Phases

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- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.
- D. <u>Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)</u>
  - (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
  - (b) <u>Phase II (ESA) Environmental Site Assessment</u>. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.

i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.

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- ii. Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

# **Right of Way Acquisition:**

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

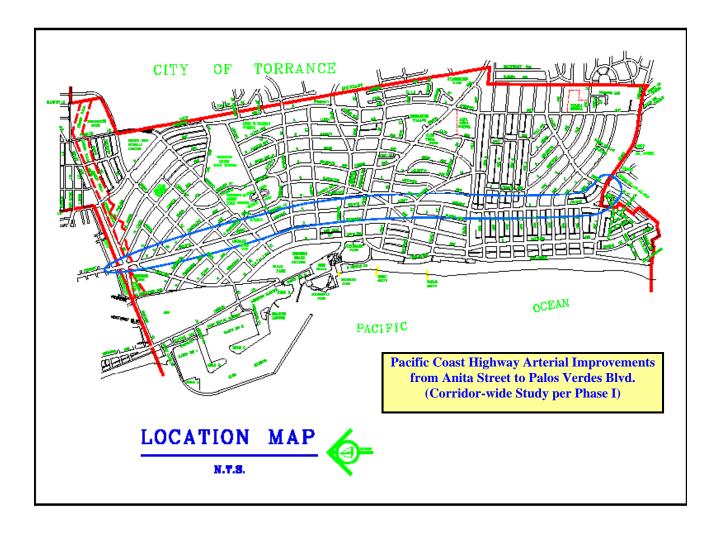
#### Construction:

Construction for Phase II: Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

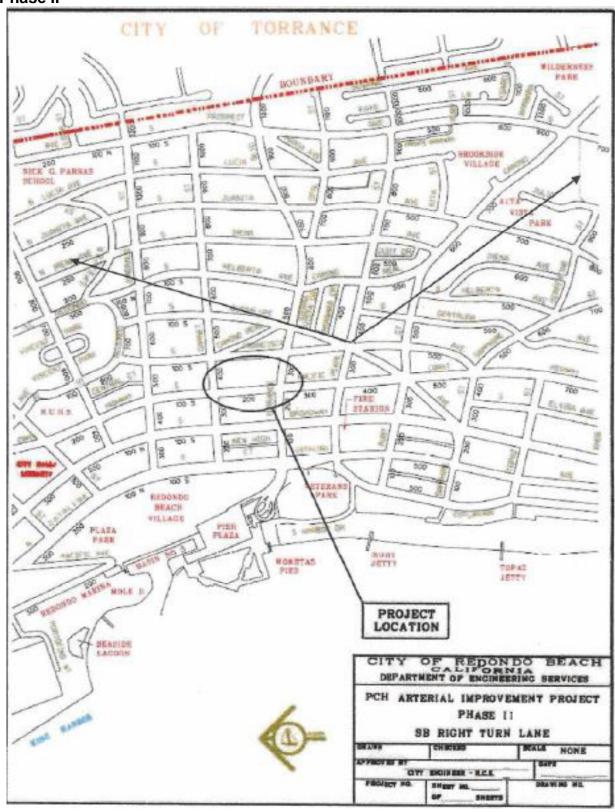
Rev: 11.1.14 11

# ATTACHMENT C-4 -Location Maps

# Phase I



# Phase II



Project# MR312.06 Amendment No. 4 Funding Agreement# MOU.MR312.06 A-4

# AMENDMENT No. 4 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND

### THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 4 to Funding Agreement (this "Amendment"), is dated as of August 31, 2019 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### **RECITALS:**

- A. WHEREAS, the Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06, dated August 15, 2011, (the "Existing FA"), which was amended on January 30, 2017, December 1, 2017, and March 25, 2019, (as amended, the "Existing FA"), which Existing FA provides for Plans, Specifications and Estimates (PS&E), Right-of-Way, and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project"); and
- B. WHEREAS, the LACMTA Board on October 25, 2018, desires to extend the lapsing date of the Project funds to June 30, 2020; and
- C. WHEREAS, the Grantee and LACMTA desire to amend the Existing FA as provided herein.

Rev: 12.07.16

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (iv) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2020."
- 2. Attachment B1-3 of the Existing FA is hereby replaced by Attachment B1-4, attached.
- 3. Attachment C-2 of the Existing FA is hereby replaced by Attachment C-3, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

Rev: 12.07.16

Amendment Measure R Funding Agreement

HIGHWAY PROGRAM

IN WITNESS WHEREOF, the parties have caused this Amendment No. 4 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:

Rev: 12.07.16

LOS ANGELES COUNTY METROPOLITAN TRA	ANSPORTATION AUTHORITY
By: Phillip A. Washington Chief Executive Officer	Date: 34 3430
APPROVED AS TO FORM:	
MARY C. WICKHAM County Counsel  By:  Deputy	Date: 10/11/19
GRANTEE:	
CITY OF REDONDO BEACH  By: William C. Brand City Mayor	Date: 1/15/20
APPROVED AS TO FORM:  By: Michael W. Webb  City Attorney	Date: 4/4/20
By: Manuarano  City Clerk	Date: 1/15/20

# ATTACHMENT B1-4 EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-4
Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06

# PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Years	FY 2019-20 Qtr 1	FY 2019-20 Qtr 2	FY 2019-20 Qtr 3	FY 2019-20 Qtr 4	FY 2020-21 Qtr 1	FY 2020-21 Qtr 2	FY 2020-21 Qtr 3	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:									
MEASURE R FUNDS:									
PAED									\$0
PS&E	\$204,437	\$52,427	\$43,136						\$300,000
RW Support		\$8,000	\$12,000						\$20,000
RW									\$0
Const. Support		\$34,000	\$46,000						\$80,000
Construction		\$30,000	\$400,000	\$285,000	\$285,000				\$1,000,000
Total MEASURE R	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$1,400,000
SUM PROG LACMTA FUNDS:	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$1,400,000
SUM NON-LACMTA FUNDS :	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT FUNDING FY19-20 and FY20-21	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$1,400,000
SUMMARY OF ALL FUNDS									
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$204,437	\$52,427	\$43,136	\$0	\$0	\$0	\$0	\$0	\$300,000
RW Support	\$0	\$8,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$20,000
RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Const. Support	\$0	\$34,000	\$46,000	\$0	\$0	\$0	\$0	\$0	\$80,000
Construction	\$0	\$30,000	\$400,000	\$285,000	\$285,000	\$0	\$0	\$0	\$1,000,000
TOTAL MILESTONES	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$1,400,000
SUM PROG LACMTA FUNDS	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$0
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$204,437	\$124,427	\$501,136	\$285,000	\$285,000	\$0	\$0	\$0	\$1,400,000

FTIP #: LA0G720 Subregion ID: Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay)

# ATTACHMENT C-3 SCOPE OF WORK

**PROJECT TITLE**: F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

#### **PROJECT LOCATION:**

The project is located in the City of Redondo Beach, County of Los Angeles.

#### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street to the north and Palos Verdes Boulevard to the south.

#### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 mile long project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.

#### PROJECT SCOPE:

# <u>Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes</u> Boulevard

# Phase I: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 0
R/W Capital	\$ 0
Construction Support	\$ 0
Construction	\$ 0
Total Phase I	\$ 150,000

## Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

#### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street		Signalized
2.	Pacific Coast Highway at Catalina Avenue		Signalized
3.	Pacific Coast Highway at Irena Avenue		Signalized
4.	Pacific Coast Highway at Agate Street		Unsignalized
5.	Pacific Coast Highway at N. Guadalupe Avenue		Unsignalized
6.	Pacific Coast Highway at Beryl Street	<b>1</b> -	Signalized
	Pacific Coast Highway at Carnelian Street		Signalized
	Pacific Coast Highway at Diamond Street	\$ •	Signalized
	Pacific Coast Highway at Vincent Street	t.	Signalized
	Pacific Coast Highway at Emerald Street	š	Signalized
	Pacific Coast Highway at Garnet Street	Īs.	Signalized
	Pacific Coast Highway at Torrance Boulevard	ţ.	Signalized
	Pacific Coast Highway at Pearl Street		Signalized
	Pacific Coast Highway at Ruby Street / S. Guadalupe A		Signalized
15.	Pacific Coast Highway at Sapphire Street /S. Francisca	Avenue	Signalized
	Pacific Coast Highway at Topaz Street		Unsignalized
17.	Pacific Coast Highway at Knob Hill Avenue		Signalized
18.	Pacific Coast Highway at Avenue A		Unsignalized

FTIP #: LA0G720 Subregion ID: Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay)

19. Pacific Coast Highway at Avenue B	Unsignalized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: City of Redondo Beach Traffic Circulation Element (City of Redondo Beach, 2009) approved in 2012 and User-Based Microanalysis of State Route 1, Pacific Coast Highway (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
Traffic Analysis Report	11/23/2015	4/19/2018
Bid for Traffic Analysis	11/23/2015	1/18/2016
Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report Version 1	12/21/2016	4/13/2017
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

# Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

# Phase II: Funding

Component	Amount
PA/ED	\$ 0
PS and E	\$ 150,000
R/W Support	\$ 40,000
R/W Capital	\$ 60,000
Construction Support	\$ 150,000
Construction	\$ 850,000
Total Phase II	\$ 1,250,000

# Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

# Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		<u>,                                     </u>
Strategy		
ADL Review		-
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017

Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)	bandary 1, 2017	171011011011
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	March 1, 2017	October 18, 2017
Civil Design Plans	IVIAICIT 1, 2011	October 10, 2011
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans	<del> </del>	
Equipment Specifications		
Software Specifications		
Project Review & Comments	0.1.1.00017	0.11.10.0010
95% PS&E	October 18, 2017	October 19, 2018
Civil Design Plans		
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E	November 1, 2018	December 31, 2018
Outside Agency Review	December 17, 2018	March 31, 2019
RIGHT OF WAY SUPPORT		
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION Phase II	February 1, 2019	April 30, 2019
Certification/Mapping		
Title Report		
Meet with Property Owners	February 1, 2019	February 28, 2019
Appraisal	March 1, 2019	March 15, 2019
Environmental Investigation		
Closing/Acquire Property/Relocation	March 16, 2019	April 30, 2019
Physical Possession	March 16, 2019	April 30, 2019
Remediation		
Utility Relocation		-
Third Party Coordination		
Design Utilities		
	<u> </u>	

FTIP #: LA0G720 Subregion ID: Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay)

Relocate Utilities		

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	January 1, 2020	March 31, 2020
Develop Solicitation Package	January 1, 2020	January 15, 2020
Solicitation Response	January 16, 2020	February 15, 2020
Evaluations		<u> </u>
Selection		
Board Approval	February 16, 2020	March 15, 2020
Contract Award	February 16, 2020	March 15, 2020
Fully Executed Contract	March 16, 2020	March 31, 2020
Excavation	April 1, 2020	April 7, 2020
Clear/Grub		
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete		
Form Work		
Rebar Placement		
Pole Placement		
Traffic Control	April 1, 2020	April 7, 2020
TMP		
Structural	April 1, 2020	April 15, 2020
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	April 8, 2020	April 15, 2020
LADOT	April 8, 2020	April 15, 2020
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	April 16, 2020	May 15, 2020
A/G Testing/Acceptance	April 16, 2020	May 15, 2020
	, , , , , , , , , , , , , , , , , , , ,	
	START DATE	COMPLETION DATE
Landscape		TO ZENON DAIL

Clearing	May 16, 2020	June 7, 2020
Planting	May 16, 2020	June 7, 2020
Plant Establishment		
Irrigation	June 8, 2020	June 15, 2020
Testing	June 8, 2020	June 15, 2020
Change Orders	June 16, 2020	June 30, 2020
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

# A. <u>Preliminary Design Development for the Entire Project</u>

(a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.

- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.
- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

# B. <u>Construction Documents for PCH at Torrance Boulevard with Full Design</u>

- (a) Utility Research & Coordination. Consultant will research all information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the

City in a report including the following:

- Thickness of pavement section
- Site soil characterization
- R-Value of subgrade soils
- Pavement section recommendations
- (c) 60% Construction Plans, Specifications & Estimate (PS&E), Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.

# C. Support Services through Bid, Award & Construction Phases

- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.

# D. Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)

- (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
- (b) Phase II (ESA) Environmental Site Assessment. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.

Project# MR312.06 Amendment No. 4 Funding Agreement# MOU.MR312.06 A-4

FTIP #: LA0G720 Subregion ID: Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay)

- i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.
- ii. Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

# **Right of Way Acquisition:**

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

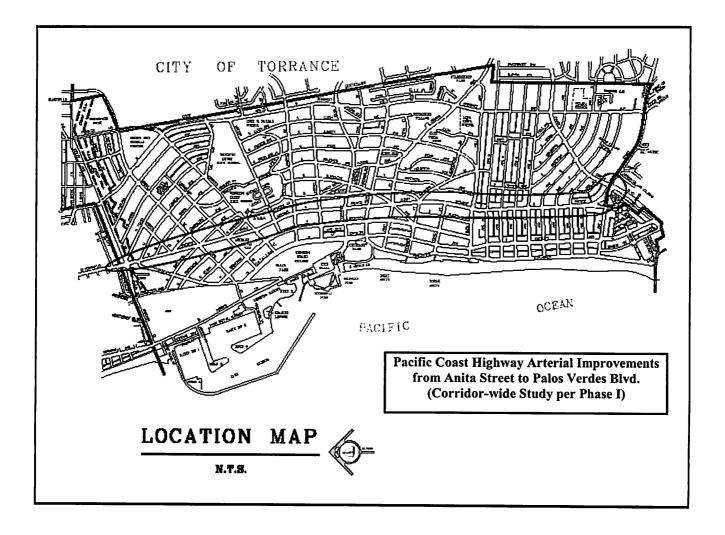
#### Construction:

Construction for Phase II: Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

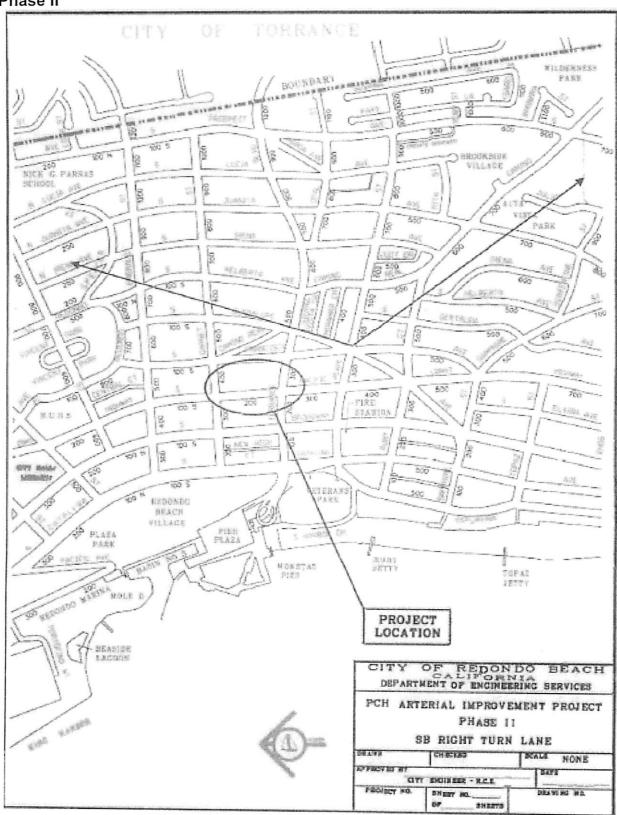
Project# MR312.06 Amendment No. 4 Funding Agreement# MOU.MR312.06 A-4

# **ATTACHMENT C-3 -Location Maps**

# Phase I



#### Phase II



# AMENDMENT No. 3 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND

# THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 3 to the Funding Agreement (this "Amendment"), is dated as of March 25, 2019 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### **RECITALS:**

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06, dated August 15, 2011, (the "Existing FA"), which was amended on January 30, 2017 and December 1, 2017, (as amended, the "Existing FA"), which Existing FA provides for Design, Right-of-Way and Construction of the Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard Project (the "Project"); and
- B. WHEREAS, the LACMTA Board on October 25, 2018, desires to extend the lapsing date of the Project funds to June 30, 2019; and
  - C. Grantee and LACMTA desire to amend the Existing FA as provided herein.

Project# MR312.06 Amendment No. 3 Funding Agreement# MOU.MR312.06 A-3

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (iv) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2019."
- 2. Attachment B1-2 of the Existing FA is hereby replaced by Attachment B1-3, attached.
- 3. Attachment C-1 of the Existing FA is hereby replaced by Attachment C-2, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

IN WITNESS WHEREOF, the parties have caused this Amendment No. 3 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

# LACMTA:

Rev: 12.07.16

LOS ANGELES COUNTY METROPOLITAN TRA	ANSPORTATION AUTHORITY
By: Phillip A. Washington Chief Executive Officer	Date: 65 2019
APPROVED AS TO FORM:	
MARY C. WICKHAM County Counsel  By:  Deputy	Date: <u>4/4/19</u>
GRANTEE:	
CITY OF REDONDO BEACH	
By: C. D. C. William C. Brand City Mayor	Date:
APPROVED AS TO FORM:	
By: Michael W. Webb City Attorney	Date: 5/8/19
ATTEST:  By: Clean Manzano  City Clerk	Date: 5/13/19

3

# ATTACHMENT B1-3 EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-3
Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06

# PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Years	FY 2018-19 Qtr 2	FY 2018-19 Qtr 3	FY 2018-19 Qtr 4	FY 2019-20 Qtr 1	FY 2019-20 Qtr 2	FY 2019-20 Qtr 3	FY 2019-20 Qtr 4	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:									
MEASURE R FUNDS:									
PAED									\$0
PS&E	\$177,573	\$62,427	\$60,000						\$300,000
RW Support		\$8,000	\$12,000						\$20,000
RW									\$0
Const. Support		\$34,000	\$46,000						\$80,000
Construction		\$30,000	\$400,000	\$570,000					\$1,000,000
Total MEASURE R	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000
SUM PROG LACMTA FUNDS:	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000
SUM NON-LACMTA FUNDS :	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT FUNDING FY18-19 and FY19-20	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000
SUMMARY OF ALL FUNDS									
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$177,573	\$62,427	\$60,000	\$0	\$0	\$0	\$0	\$0	\$300,000
RW Support	\$0	\$8,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$20,000
RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Const. Support	\$0	\$34,000	\$46,000	\$0	\$0	\$0	\$0	\$0	\$80,000
Construction	\$0	\$30,000	\$400,000	\$570,000	\$0	\$0	\$0	\$0	\$1,000,000
TOTAL MILESTONES	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000
SUM PROG LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SUM NON-LACMTA FUNDS	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000
TOTAL PROJECT FUNDING	\$177,573	\$134,427	\$518,000	\$570,000	\$0	\$0	\$0	\$0	\$1,400,000



# ATTACHMENT C-2 SCOPE OF WORK

**PROJECT TITLE**: F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard

#### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

#### **PROJECT LIMITS:**

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street to the north and Palos Verdes Boulevard to the south.

## **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to reduce congestion, improve traffic flow, operations, and enhance pedestrian safety along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previous regional and local planning studies were completed and identified a series of recommendations to improve traffic circulations along PCH. These studies include the *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) approved in 2012 and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009). These prior studies identified PCH between Anita Street and Palos Verdes Boulevard as a highly congested corridor which experiences long delays during the AM and PM commuting hours. Many of the intersections along the 2.6 mile long project corridor are operating at a deficient level of service and have inadequate lane storage.

The project is separated into two phases. Phase I is a Traffic Analysis Report along Pacific Coast Highway from Anita Street to Palos Verdes Boulevard. Phase II consists of improvements at the intersection of Pacific Coast Highway and Torrance Boulevard. Phase II includes PS&E, Right-of-Way and Construction of a southbound dedicated right-turn lane at Torrance Boulevard, and other modifications including lengthening left turn pockets and restriping.



Scope of Work

#### PROJECT SCOPE:

# Phase 1: Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard

## Phase I: Funding

Component	Amount	
PA/ED	\$ 0	
PS and E	\$ 150,000	
R/W Support	\$ 0	
R/W Capital	\$ 0	
Construction Support	\$ 0	
Construction	\$0	
Total Phase I	\$ 150,000	

## Phase I: Scope

The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.

A total of 29 intersections were identified and studied within the project limits. The report evaluates the existing traffic conditions of the Project study intersections for the following analysis:

- Level of Service (LOS) analysis
- Queuing analysis
- Signal warrant analysis

#### The 29 intersections are as follows:

1.	Pacific Coast Highway at Anita Street / Herondo Street	Signalized	
2.	Pacific Coast Highway at Catalina Avenue	Signalized	
3.	Pacific Coast Highway at Irena Avenue	Signalized	
4.	Pacific Coast Highway at Agate Street	Unsignalize	d
5.	Pacific Coast Highway at N. Guadalupe Avenue	Unsignalize	d
6.	Pacific Coast Highway at Beryl Street	Signalized	
7.	Pacific Coast Highway at Carnelian Street	Signalized	
8.	Pacific Coast Highway at Diamond Street	Signalized	
9.	Pacific Coast Highway at Vincent Street	Signalized	
10.	Pacific Coast Highway at Emerald Street	Signalized	
11.	. Pacific Coast Highway at Garnet Street	Signalized	
12.	Pacific Coast Highway at Torrance Boulevard	Signalized	
13.	Pacific Coast Highway at Pearl Street	Signalized	
14.	Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized	
15.	Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized	
16.	Pacific Coast Highway at Topaz Street	Unsignalize	d
17.	Pacific Coast Highway at Knob Hill Avenue	Signalized	
18.	Pacific Coast Highway at Avenue A	Unsignalize	d



19. Pacific Coast Highway at Avenue B	Unsignafized
20. Pacific Coast Highway at Avenue C	Signalized
21. Pacific Coast Highway at Avenue D	Unsignalized
22. Pacific Coast Highway at Avenue E	Unsignalized
23. Pacific Coast Highway at Avenue F	Signalized
24. Pacific Coast Highway at Avenue G	Unsignalized
25. Pacific Coast Highway at Avenue H	Signalized
26. Pacific Coast Highway at Elena Avenue South	Signalized
27. Pacific Coast Highway at Avenue I	Unsignalized
28. Pacific Coast Highway at Vista Del Mar	Unsignalized
29. Pacific Coast Highway at Palos Verdes Boulevard	Signalized

The report presents a set of proposed improvements to mitigate the circulation deficiencies along PCH, incorporating recommendations based on the regional and local planning studies completed for PCH thus far: City of Redondo Beach Traffic Circulation Element (City of Redondo Beach, 2009) approved in 2012 and User-Based Microanalysis of State Route 1, Pacific Coast Highway (SCAG, 2009).

Preliminary design recommendations were provided for 11 locations where either operational or safety deficiencies were observed or assessed.

Phase I: Schedule

	START DATE	COMPLETION DATE
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Data Collection	11/1/2016	12/20/2016
Draft Traffic Analysis Report Version 1	12/21/2016	4/13/2017
Draft Traffic Analysis Version 2	4/13/2017	9/28/2017
Final Traffic Analysis Report	9/28/2017	4/19/2018

# Phase II: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

### Phase II: Funding

Component	Amount	
PA/ED	\$ 0	
PS and E	\$ 150,000	
R/W Support	\$ 40,000	
R/W Capital	\$ 60,000	
Construction Support	\$ 150,000	
Construction	\$ 850,000	
Total Phase II	\$ 1,250,000	



# Phase II Scope: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

The proposed improvements for Phase II of the project include the addition of a southbound dedicated right turn lane on Pacific Coast Highway at Torrance Boulevard. The proposed lane would widen PCH, increasing the number of lanes on PCH at the intersection of Torrance Blvd from 3 lanes to 4 lanes. The 4 lanes will consist of a dedicated left turn lane, right turn lane, and two through lanes.

The project will also lengthen the dedicated left turn lane on southbound PCH by about 120 feet. This will increase left turn lane storage on southbound PCH, thus reducing backups on the through lane.

Specific improvements are as follows:

- Southbound dedicated right turn lane at Torrance Blvd.
- Acquire ROW through dedicated south bound right turn easement, including corner cutoff for curb ramp/s with ADA access.
- Modify the PCH SB left turn lane to EB Torrance Blvd by lengthening the turn pocket about 120 feet; restripe northbound and southbound PCH north of Torrance Blvd
- Remove street parking on both side of the street in order to provide longer left turn lane for SB traffic.
- Provide replacement street parking on the northerly block of PCH
- Relocate existing bus pad on SB PCH, from north of the intersection to south of the intersection to accommodate right turn lane.
- Obtain all necessary permits for the construction, including Caltrans and LACFCD.
- Hire construction firm through competitive bid and award process
- Provide construction supervision and management using consultant or City staff.
- Complete construction and prepare as-builts

# Phase II Schedule: Pacific Coast Highway (PCH) and Torrance Blvd Improvement

PS&E	Oct 17, 2016	March 31, 2019
35% PS&E	Oct 17, 2016	February 28, 2017
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit		
Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017



Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	March 1, 2017	October 18, 2017
Civil Design Plans	,,,	2010201 101 2011
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments		
95% PS&E	October 18, 2017	October 19, 2018
Civil Design Plans	0010001 10, 2017	October 19, 2010
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E	November 1, 2018	December 31, 2018
Outside Agency Review	December 17, 2018	March 31, 2019
RIGHT OF WAY SUPPORT	December 17, 2016	ivial GIT 31, 2019
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION Phase II	February 1, 2019	April 30, 2019
Certification/Mapping	Tobldary 1, 2019	Αριιι ου, 2019
Title Report		
Meet with Property Owners	February 1, 2019	February 28, 2019
Appraisal	March 1, 2019	March 15, 2019
Environmental Investigation	Iviaicii 1, 2019	IVIAIGH 15, 2019
Closing/Acquire Property/Relocation	March 16 2010	April 20, 2040
	March 16, 2019	April 30, 2019
Physical Possession	March 16, 2019	April 30, 2019
Remediation		
Utility Relocation		
Third Party Coordination		
Design Utilities		

Relocate Utilities	

CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	January 1, 2019	March 31, 2019
Develop Solicitation Package	January 1, 2019	January 15, 2019
Solicitation Response	January 16, 2019	February 15, 2019
Evaluations		1 05/44/7 10, 2010
Selection		
Board Approval	February 16, 2019	March 15, 2019
Contract Award	February 16, 2019	March 15, 2019
Fully Executed Contract	March 16, 2019	March 31, 2019
Excavation	April 1, 2019	April 7, 2019
Clear/Grub	7101111, 2010	April 1, 2015
Survey		
Sample Borings		
Grading		
Compaction		-
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring  Concrete		
Form Work		
Rebar Placement		
Pole Placement	1 1 1 0010	
Traffic Control	April 1, 2019	April 7, 2019
TMP		
Structural	April 1, 2019	April 15, 2019
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	April 8, 2019	April 15, 2019
LADOT	April 8, 2019	April 15, 2019
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	April 16, 2019	May 15, 2019
A/G Testing/Acceptance	April 16, 2019	May 15, 2019
	START DATE	COMPLETION DATE
Landscape		

Clearing	May 16, 2019	June 7, 2019
Planting	May 16, 2019	June 7, 2019
Plant Establishment		3,200
Irrigation	June 8, 2019	June 15, 2019
Testing	June 8, 2019	June 15, 2019
Change Orders	June 16, 2019	June 30, 2019
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard, per Phase 2, and
- D. perform necessary environmental study to determine the presence and extent of hazardous substances for Phase 2

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the right turn lane addition, including southbound left turn lengthening and other intersection improvements. A more detailed description of the project scopes are stated below:

# A. Preliminary Design Development for the Entire Project

(a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.



- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.
- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits.
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

# B. Construction Documents for PCH at Torrance Boulevard with Full Design

- (a) Utility Research & Coordination. Consultant will research all information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the



City in a report including the following:

- Thickness of pavement section
- Site soil characterization
- R-Value of subgrade soils
- Pavement section recommendations
- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.



# C. Support Services through Bid, Award & Construction Phases

- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.

# D. Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)

- (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
- (b) Phase II (ESA) Environmental Site Assessment. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants, if confirmed by Phase I (ESA)

In the event soil contamination, consistent with petroleum based service station discharges, is suspected, Consultant shall provide Phase II services.



Rev: 11.1.14

FTIP #: LA0G720 Subregion ID: Interstate 405. I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay) Project# MR312.06 Amendment No. 3 Funding Agreement# MOU.MR312.06 A-3

- i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.
- ii. Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

# Right of Way Acquisition:

City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with the owner/s of the properties involved for a temporary construction easement (TCE) needed for the construction of the right turn lane addition.

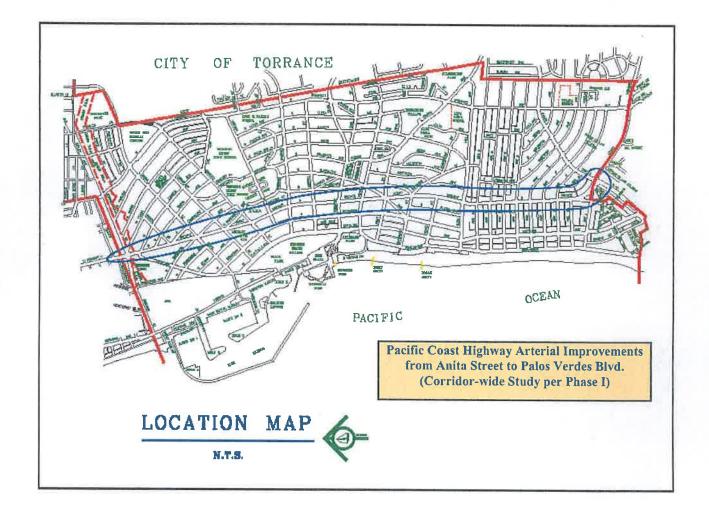
#### Construction:

**Construction for Phase II:** Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.



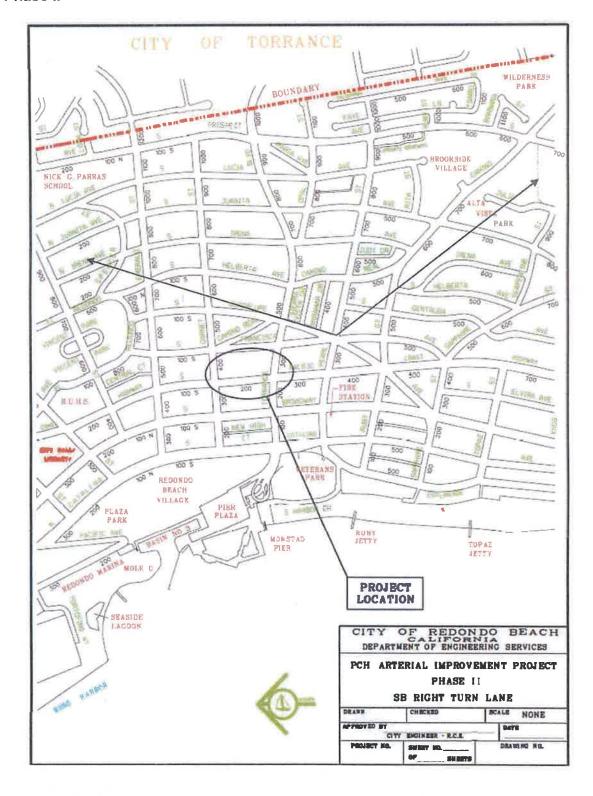
# ATTACHMENT C-2 -Location Maps

# Phase I





## Phase II





# AMENDMENT No. 2 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND

# THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 2 to the Funding Agreement (this "Amendment"), is dated as of December 1, 2017 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### RECITALS:

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06, dated August 15, 2011, (the "Existing FA"), which was amended on January 30, 2017, (as amended, the "Existing FA"), which Existing FA provides for Design, Right-of-Way and Construction of Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard Project (the "Project"); and
- B. WHEREAS, the LACMTA Board on October 26, 2017, desires to extend the lapsing date of the Project funds to June 30, 2018; and
  - C. Grantee and LACMTA desire to amend the Existing FA as provided herein.

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

- 1. Part II, Section 9.1 (iv) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2018."
- 2. Attachment B1-1 of the Existing FA is hereby replaced by Attachment B1-2, attached.
- 3. Attachment C of the Existing FA is hereby replaced by Attachment C-1, attached.
- 4. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.

IN WITNESS WHEREOF, the parties have caused this Amendment No. 2 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:

By:  Phillip A. Washington Chief Executive Officer	Date: 6 9 2018
APPROVED AS TO FORM:	
MARY C. WICKHAM County Counsel  By Deputy	Date: 3/28/18
GRANTEE:	
CITY OF REDONDO BEACH	1
By: William C. Brand City Mayor	Date:
APPROVED AS TO FORM:  By: Michael W. Webb City Attorney	Date: 4/7/18
By: Eleanor Manzano City Clerk	Date:

#### ATTACHMENT B1-2 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA# MOU.MR312.06 A-2 Project Title: F46-Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd.

# Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06 PROGRAMMED SOURCES OF FUNDS

#### FY 2017-18 FY 2017-18 FY 2017-18 FY 2017-18 FY 2018-19 FY 2018-19 FY 2018-19 TOTAL SOURCES OF FUNDS Prior Years Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 BUDGET LACMTA PROGRAMMED FUNDS: MEASURE R FUNDS: PAED 50 PS&E \$122,335 \$45,665 \$67,000 \$65,000 \$300,000 **RW Support** \$8,000 \$12,000 \$20,000 Const. Support \$0 \$32,000 \$48,000 \$80,000 Construction \$30,000 \$400,000 \$570,000 \$1,000,000 Total MEASURE R \$122,335 \$45,665 \$137,000 \$525,000 \$570,000 \$0 \$0 \$0 \$1,400,000 **PROP C 25%** PAED \$0 PS&E 50 **RW Support** \$0 Const. Support \$0 RW' \$0 Construction \$0 Total PROP C 25% \$0 \$0 50 50 \$0 \$0 \$0 \$0 \$0 SUM PROG LACMTA FUNDS: \$122,335 \$45,665 \$137,000 \$525,000 \$570,000 50 \$0 50 \$1,400,000 OTHER NON LACMTA FUNDING: PROJECT FUNDING \$122,335 \$45,665 \$137,000 \$525,000 \$570,000 \$0 \$0 \$1,400,000 FY16-17 and FY17-18 SUMMARY OF ALL FUNDS PAED \$0 50 \$0 \$0 \$0 \$0 \$0 50 \$0 PS&E \$122,335 \$45,665 \$67,000 \$65,000 \$0 50 \$0 \$300,000 \$0 **RW Support** \$0 \$0 \$8,000 50 \$0 \$12,000 50 \$20,000 \$0 Const. Support 50 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 RW 50 \$0 \$32,000 \$48,000 \$0 \$0 \$0 \$0 \$80,000 Construction \$0 50 \$30,000 \$400,000 \$570,000 \$0 \$0 \$0 \$1,000,000 TOTAL MILESTONES \$122,335 \$45,665 \$137,000 \$525,000 \$570,000 \$0 \$0 \$1,400,000



SUM PROG LACMTA FUNDS

SUM NON-LACMTA FUNDS

TOTAL PROJECT FUNDING

\$122,335

\$122,335

\$0

\$45,665

\$45,665

\$0

\$137,000

\$137,000

\$0

\$525,000

\$525,000

\$0

\$570,000

\$570,000

50

\$0

\$0

\$0

50

\$0

\$0

\$0

\$0

\$0

\$1,400,000

\$1,400,000

#### ATTACHMENT C-1

#### SCOPE OF WORK

**PROJECT TITLE**: F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard.

#### PROJECT LOCATION:

The project is located within the City of Redondo Beach, in Los Angeles County.

#### PROJECT LIMITS:

This project limits are along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard.

#### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

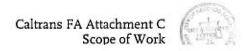
The purpose of this project is to improve traffic flow, reduce congestion, enhance pedestrian safety, improve operations and traffic circulation on and along Pacific Coast Highway (PCH), or State Route 1 (SR-1) between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a major north-south State Highway that runs parallel to Interstate 405 (I-405) in the South Bay. Two previously completed local and regional planning studies, *City of Redondo Beach Traffic Circulation Element* (City of Redondo Beach, 2009) and *User-Based Microanalysis of State Route 1, Pacific Coast Highway* (SCAG, 2009), identified a series of recommendations to improve traffic circulations along PCH. Many of the intersections along the 2.6 mile long project corridor are operating at a deficient level of service and have inadequate lane storage. PCH between Anita Street and Palos Verdes Boulevard was distinguished as a highly congested corridor, experiencing long delays during the AM and PM commuting hours.

#### PROJECT BUDGET:

COMPONENT	<b>AMOUNT</b>
PA/ED	000,000
PS and E	300,000
R/W Support	20,000
R/W Capital	80,000
Construction Support	000,000
Construction Capital	1,000,000
Total Budget	\$1,400,000



#### PROJECT SCOPE:

The City of Redondo Beach, in cooperation with Caltrans, proposes to improve the design and circulation of PCH between Anita Street/190<sup>th</sup> Street and Palos Verdes Boulevard. This proposed project has been broken down into three components. A more detailed description of the project scopes is stated below.

#### A) PCH/Torrance Boulevard Improvements

The intersection currently operates at a Level of Service of E during the AM peak hours, causing subsequent queue spillbacks on all approaches, with delays of up to several minutes. The project will improve the intersection of PCH/Torrance Boulevard by constructing a dedicated southbound right turn lane at Torrance Boulevard. A 10-ft R/W shall be dedicated for this SB right turn lane, adjacent to 'Union 76' Gas Station.

Additionally, the southbound PCH left turn lane will be modified and lengthened. Currently, the intersection operates at LOS D in the (AM) and LOS E in the (PM). The SB PCH left turn lane overflows into the through lane on PCH, interfering with through traffic, impeding traffic flow. This improvement requires the removal of on-street parking on PCH.

- B) The project will finalize a Traffic Analysis Report along PCH from Anita Street to Palos Verdes Boulevard. The report will evaluate and document existing traffic conditions and provide preliminary design recommendations aimed at reducing congestion and improving safety.
- C) Based on the results of the Traffic Analysis Report, the City of Redondo Beach will then design and construct the necessary recommendations from the study at an additional intersection(s) in need of improvement.

**Design and Study:** Following Tasks are to be performed under a Consultant Contract for the design and study of the entire corridor:

The design phase of the project includes:

- A. a study phase, traffic analysis, reports, and various intersection improvement alternatives for the entire corridor of the Pacific Coast Highway
- B. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard
- C. provide support services during construction phase of the right turn lane addition on southbound Pacific Coast Highway at Torrance Boulevard
- D. prepare complete design plans, specifications, estimates and obtain Caltrans and County permits for a selected intersection per study phase A, and



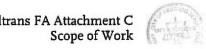
E. Perform necessary environmental study to determine the presence and extent of hazardous substances.

Following the design and Caltrans permit process, the City will hire construction companies, through competitive bidding process, to construct the two phases of the project, designed per B) and D) above. A more detailed description of the project scopes are stated below:

#### A. Preliminary Design Development for the Entire Project

- (a) Data Collection and Research. Consultant will research, collect and review all available data and information pertinent to the Project. Consultants research should include latest right of way maps/records, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and other related plans.
- (b) Topographic Survey and Base Map. Consultant will perform a topographic survey and prepare base maps for the intersection of PCH and Torrance Boulevard and an Aerial Survey of the entire Project.
- (c) Field Investigation. Consultant will conduct field investigation to verify all existing street improvements, utilities and obstructions, traffic counts, signal timing, signing and striping and other relevant items would be located in the field and shown on the base plans
- (d) Traffic Counts. Consultant will obtain traffic count information for the 29 intersections along the corridor, in order to perform level of service analysis for all intersections within the project limits. The intersections are:

1 Pacific Coast Highway at Anita Street / Herondo Street	Signalized
2 Pacific Coast Highway at Catalina Avenue	Signalized
3 Pacific Coast Highway at Irena Avenue	Signalized
4 Pacific Coast Highway at Agate Street	Unsignalized
5 Pacific Coast Highway at N. Guadalupe Avenue	Unsignalized
6 Pacific Coast Highway at Beryl Street	Signalized
7 Pacific Coast Highway at Carnelian Street	Signalized
8 Pacific Coast Highway at Diamond Street	Signalized
9 Pacific Coast Highway at Vincent Street	Signalized
10 Pacific Coast Highway at Emerald Street	Signalized
11 Pacific Coast Highway at Garnet Street	Signalized
12 Pacific Coast Highway at Torrance Boulevard	Signalized
13 Pacific Coast Highway at Pearl Street	Signalized
14 Pacific Coast Highway at Ruby Street / S. Guadalupe Avenue	Signalized
15 Pacific Coast Highway at Sapphire Street /S. Francisca Avenue	Signalized
16 Pacific Coast Highway at Topaz Street	Unsignalized
17 Pacific Coast Highway at Knob Hill Avenue	Signalized



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18 Pacific Coast Highway at Avenue A	Unsignalized
19 Pacific Coast Highway at Avenue B	Unsignalized
20 Pacific Coast Highway at Avenue C	Signalized
21 Pacific Coast Highway at Avenue D	Unsignalized
22 Pacific Coast Highway at Avenue E	Unsignalized
23 Pacific Coast Highway at Avenue F	Signalized
24 Pacific Coast Highway at Avenue G	Unsignalized
25 Pacific Coast Highway at Avenue H	Signalized
26 Pacific Coast Highway at Elena Avenue South	Signalized
27 Pacific Coast Highway at Avenue I	Unsignalized
28 Pacific Coast Highway at Vista Del Mar	Unsignalized
29 Pacific Coast Highway at Palos Verdes Boulevard	Signalized

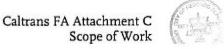
- (e) Prepare Level of Service Analysis. Prepare level of service analyses for all study area intersections utilizing both HCM and ICU methodologies using the latest version of Synchro/Simtraffic.
- (f) Present Preliminary Design Concept and Plans. Present and discuss preliminary design plans for improvement concepts with exhibits, preliminary cost estimates, implementation schedules and other backup data.
- (g) Preferred Preliminary Design Plans. Prepare preferred preliminary design plans for selected improvements incorporating comments from the City and Caltrans.
- (h) Final Preliminary Conceptual Design Plans. Prepare and present final preliminary conceptual design plans, cost estimates and schedule to the City's Public Works Commission and/or the Council and Caltrans.

#### B. Construction Documents for PCH at Torrance Boulevard with Full Design

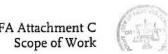
- (a) Utility Research & Coordination. Consultant will research all information pertinent to the intersection of PCH and Torrance that includes latest right of way maps/record, street improvement plans, traffic signal, street lighting, signing and striping, timing plans, and all other utility plans.
- (b) Pavement Investigation and Report. The consultant will perform a geotechnical reconnaissance of the site and advancing up to 3 soil borings at strategic locations for the dedicated right-turn lane to observe the existing pavement thickness and soil conditions beneath and to facilitate collection of sub-grade soil samples for lab testing.

The results of the field and laboratory testing will be provided to the City in a report including the following:

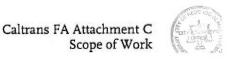
Thickness of pavement section



- Site soil characterization
- R-Value of subgrade soils
- Pavement section recommendations
- (c) 60% Construction Plans, Specifications & Estimate (PS&E). Consultant will prepare the 60% street improvement plans for the dedicated right turn lane from southbound PCH to westbound Torrance Boulevard which includes, Title Sheet, Typical Sections and Details, Roadway Plans and Profiles with Utilities shown, Traffic Signal and Intersection Lighting Modification Plan, Drainage Structures and Profiles and Traffic Handling Plans. The plans will conform to the requirements of the City of Redondo Beach, and will be designed per the latest California Department of Transportation (Caltrans) standards and specifications. Proposed facilities may include poles, mast arms, luminaries, controllers, vehicle detection, pull boxes, conduits, pedestrian push buttons, vehicular signals, pedestrian signals, striping, and fiber optic communication. Consultant will prepare technical specification and construction cost estimate along with the plans. Consultant shall prepare all exhibits and legal descriptions for temporary right-of-entry use and final right-of-way dedication/transfer to Caltrans.
- (d) 90% Construction Plans, Specifications & Estimate (PS&E). Based on the 60% comments from the City, consultant will revise the PS&E package for the 90% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the first round of reviews.
- (e) 100% Construction Plans, Specifications & Estimate (PS&E). Based on the 90% comments from the City and Caltrans, consultant will revise the PS&E package for the 100% submittal. The plans, specifications, and cost estimate will incorporate the comments from all the stakeholder meetings and corrections from the second round of reviews.
- (f) Final Construction Plans, Technical Specifications & Estimate (PS&E). Based on the 100% comments from the City and Caltrans (if any), consultant will revise the PS&E package for the Final submittal.
- (g) Permit Process Submittal, Coordination and Approval. Consultant will submit, coordinate and obtain all applicable permits from the City and other public agencies, coordinate plan review, prepare response on Caltrans comments and obtain final Caltrans approval.
- C. Support Services through Bid, Award & Construction Phases



- (a) Provide Assistance in Preparing Bid Document. Consultant will provide assistance in preparing bid documentation including providing unit quantities, description of additive bid items and special conditions.
- (b) Provide Bid and RFI Response Services. Consultant will provide bid response services including attending pre-bid meeting with prospective contractors, responding to bidder's RFI, prepare addenda, evaluate bid documents and make recommendation to City for the selection of lowest responsive bidder.
- (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field. Consultant should be available for construction site visits to assist in resolution of problems arising during construction.
- D. <u>Full Design and Construction Documents for Certain Segment or Element of PCH</u>
  - (a) Based on the recommendations of the preliminary design development, certain segment or element of the PCH will be considered for full design and preparation of construction documents. The following sub-tasks are to be developed further in order to meet the design-need of the segment or element to be identified:
    - (i) Utility Research and Coordination.
    - (ii) Pavement Investigation and Report (if needed).
    - (iii) Topographic Survey of the Segment or Element.
    - (iv) 60% Construction Plans, Specifications & Estimate (PS&E).
    - (v) 90% Construction Plans, Specifications & Estimate (PS&E).
    - (vi) 100% Construction Plans, Specifications & Estimate (PS&E).
    - (vii) Final Construction Plans, Specifications & Estimate (PS&E).
    - (viii) Permit Process with Caltrans, County and City.
  - (b) Provide Assistance in Preparing Bid Document and Provide Bid and RFI Response Services.
  - (c) Provide Support Services During Construction. Includes attending preconstruction conference, reviewing contractor's submittals, responding to RFI's, and revise and/or modify plans based on construction changes made in the field.
- E. Optional Environmental Services, ESA I and ESA II (City's Sole Discretion)



- (a) Phase I (ESA) Environmental Site Assessment. Prepare a Phase I Environmental Site Assessment (ESA) for 247 S Pacific Coast Highway, Redondo Beach, California 90277. Prepare Phase I ESA using methods consistent with the ASTM International (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments, which shall comply with 40 Code of Federal Regulations (CFR) Part 312 (the All Appropriate Inquiries [AAI] Rule).
- (b) Phase II (ESA) Environmental Site Assessment. Determine the necessity of Phase II (ESA) after completion and review of the Phase I (ESA) findings. Consultant shall discuss the Phase I (ESA) findings with the City to determine if a Phase II (ESA) is required.

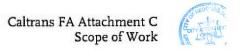
The Phase II (ESA) presented herein is based on the assumption that the Project site, currently a gasoline service station, would be contaminated by petroleum based contaminants.

In the event there is soil contamination consistent with petroleum based service station discharges, Consultant shall provide Phase II services.

- i. Consultant shall ensure its representative will provide the field investigation and reporting services as follows.
- Consultant shall ensure its representative will conduct the GPR and electromagnetic survey, drill the borings and collect the samples of soil and soil gas for analysis utilizing the methodologies used industrywide.
- iii. Final Reporting. Upon completion of all field activities and receipt of final laboratory reports, prepare a final report to document all activities, present analytical results, provide interpretation of data, and provide conclusions and recommendations.

# Right of Way Acquisition:

Following the adoption of the corridor wide study recommendation, certain segment or segments may require right-of-way acquisition process. City may seek additional consulting services for right-of-way acquisition or amend the design services contract for this additional right-of-way scope.



#### Construction:

Construction Phase I: Pacific Coast Highway Southbound Right Turn Lane at Torrance Boulevard. City will hire a construction company through competitive bid process to construct the right turn lane and related other signal, sidewalk, curb and gutter, catch basin and all other improvements per Caltrans approved plans.

Construction Phase II: Following the recommendation and design performed under Design Section D, City will hire a construction company, through competitive bid process, to construct this phase of the project.

**MILESTONES:** The proposed implementation schedule for this project will be as follows:

	START DATE	COMPLETION DATE
SOLICITATION(BID/PROPOSAL)DESIGN		THE RULE VALUE OF REAL PROPERTY.
Develop Solicitation Package	September 1, 2015	November 23, 2015
Solicitation Response	November 24, 2015	January 18, 2016
Evaluations		
Selection		
Board Approval	January 19, 2016	September 20, 2016
Contract Award	January 19, 2016	September 20, 2016
Fully Executed Design Contract	September 21, 2016	October 16, 2016
PLANNING	MATERIAL BELLY	THE ENGINEERS BUTTLEFT
Prepare Concept Report		
Prepare Feasibility Study		
Prepare Project Study Report		
Intelligent Transportation System (ITS)		
Feasibility Study		(6)
Concept Exploration		
PRELIMINARY DESIGN	SETTLE ME AT AND ALL	
Prepare Detailed Design Plans		
Prepare Detailed Construction Plans		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS)		
Concept of Operations		
System Requirements		
High Level Design		
PA&ED	KIND OF THE REAL PROPERTY.	THE SAME RESIDENCE OF THE SAME
Prepare Environmental Document		
Document Type:		
Scoping		
Technical Studies		
Draft Environmental Document		
Final Environmental Document	102	
Community Outreach		
Secure Project Approval		
Intelligent Transportation System (ITS)		



Categorical Exemption Filing PS&E	Oct 17, 2016	December 31, 2017
35% PS&E	Oct 17, 2016	March 31, 2017
Preliminary Investigations	000 17, 2010	Water or, 2011
Preliminary Foundation		
Geometric Drawings	November 1, 2016	December 31, 2016
Bridge Type Selection Roadway and Retrofit	November 1, 2010	December 51, 2516
Strategy Sciedion Roadway and Region		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design	January 1, 2017	March 31, 2017
Structural Design	January 1, 2017	March 31, 2017
Intelligent Transportation System (ITS)	bandary 1, 2017	Warding 1, 2011
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		
65% PS&E	Amril 1 2017	luna 30, 2017
	April 1, 2017	June 30, 2017
Civil Design Plans		
Right-of-Way Engineering	<del> </del>	
Structural Design		
Prepare Project Cost Estimate	· · · · · · · · · · · · · · · · · · ·	
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		2.1115
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments		
95% PS&E	July 1, 2017	October 31, 2017
Civil Design Plans		
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		1225
Submittals & Reviews		
Submit Final PS&E	November 1, 2017	December 31, 2017
Outside Agency Review	November 1, 2017	December 31, 2017
RIGHT OF WAY SUPPORT	THE VIEW OF THE YEAR OF THE PERSON OF THE PE	San Series A Transaction

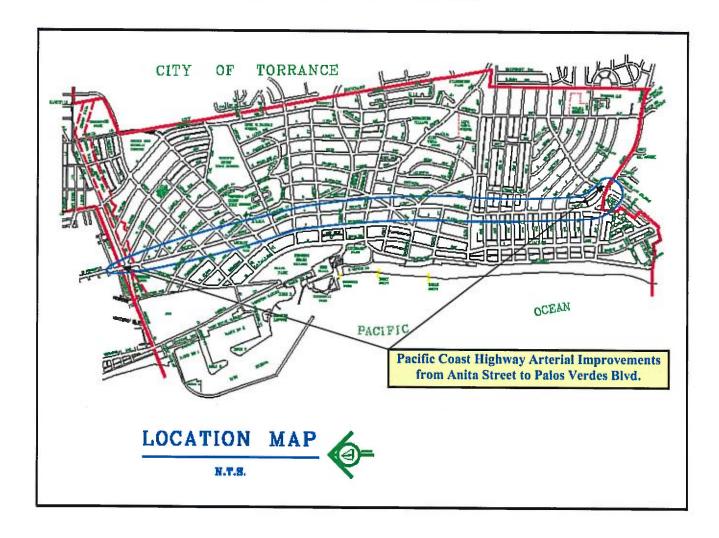


Rev: 11.1.14

Appraisal	Ostober 1 2017	December 24, 2047
RIGHT OF WAY ACQUISITION	October 1, 2017	December 31, 2017
Certification/Mapping		1999-1999
Title Report	2 1 2 2 2 2	
Meet with Property Owners	October 1, 2017	October 31, 2017
Appraisal	November 1, 2017	November 15, 2017
Environmental Investigation		
Closing/Acquire Property/Relocation	November 16, 2017	December 31, 2017
Physical Possession	November 16, 2017	December 31, 2017
Remediation		
Utility Relocation		
Third Party Coordination		
Design Utilities		
Relocate Utilities		
CONSTRUCTION MILESTONES:	START DATE	COMPLETION DATE
SOLICITATION CONSTRUCTION	January 1, 2018	March 31, 2018
Develop Solicitation Package	January 1, 2018	January 15, 2018
Solicitation Response	January 16, 2018	February 15, 2018
	January 10, 2016	1 ebidary 15, 2016
Evaluations		
Selection	Fahrum: 46, 2049	March 45 2010
Board Approval	February 16, 2018	March 15, 2018
Contract Award	February 16, 2018	March 15, 2018
Fully Executed Contract	March 16, 2018	March 31, 2018
Excavation	April 1, 2018	April 7, 2018
Clear/Grub		
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete	7	
Form Work		
Rebar Placement		
Pole Placement		
Traffic Control	April 1, 2018	April 7, 2018
TMP		
Structural	April 1, 2018	April 15, 2018
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE	April 8, 2018	April 15, 2018
LADOT	April 8, 2018	April 15, 2018
Materials		

Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication	April 16, 2018	May 15, 2018
A/G Testing/Acceptance	April 16, 2018	May 15, 2018
2000500	START DATE	COMPLETION DATE
Landscape		
Clearing	May 16, 2018	June 7, 2018
Planting	May 16, 2018	June 7, 2018
Plant Establishment		
Irrigation	June 8, 2018	June 15, 2018
Testing	June 8, 2018	June 15, 2018
Change Orders	June 16, 2018	June 30, 2018
P.O. Processing Time		
Weather	Ga 62	
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		

# ATTACHMENT C-1 -Location Map(s)



### AMENDMENT No.1 TO MEASURE R FUNDING AGREEMENT BETWEEN CITY OF REDONDO BEACH AND

#### THE LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

This Amendment No. 1 to the Funding Agreement (this "Amendment"), is dated as of January 30, 2017 by and between the City of Redondo Beach ("Grantee") and the Los Angeles County Metropolitan Transportation Authority ("LACMTA").

#### RECITALS:

- A. Grantee and LACMTA entered into that certain Funding Agreement No. MOU.MR312.06, dated August 15, 2011, (the "Existing FA"), which Existing FA provides for Design, Right-of-Way and Construction of the Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard Project (the "Project"); and
- B. WHEREAS, the LACMTA Board on December 1, 2016, desires to extend the lapsing date of the Project funds to June 30, 2017.
  - C. WHEREAS, the parties agree to replace Attachment B-1.
  - D. Grantee and LACMTA desire to amend the Existing FA as provided herein.



Rev: 12.07.16

#### AGREEMENT:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereby agree as follows:

1. Part I, Paragraph 11 & 12 of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following:

#### "11. LACMTA's Address:

Los Angeles County Metropolitan Transportation Authority One Gateway Plaza Los Angeles, CA 90012 Attention: Isidro Panuco, 99-22-9 (213) 922-3001 Panucol@metro.net

#### 12. GRANTEE's Address:

City of Redondo Beach 415 Diamond Street, P.O. Box 270 Redondo Beach, CA 90277-0270 Attention: Didar Khandker (310) 318-0661 Didar.Khandker@Redondo.org"

2. Part II, Paragraph 3 of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following:

#### "3. INVOICE BY GRANTEE

Unless otherwise stated in this FA, the Monthly Progress Report or the Quarterly Expenditure Report, with supporting documentation of expenses, Project progress and other documents as required, which has been pre-approved by LACMTA, all as described in Part II, Section 6.1 of this FA, shall satisfy LACMTA invoicing requirements. Grantee shall only submit for payment, the LACMTA pre-approved Monthly Progress Report or Quarterly Expenditure Report Packets to the LACMTA Project Manager at the email address shown in Part I and to LACMTA Account Payable Department as shown below.

Submit invoice with supporting documentation to:

ACCOUNTSPAYABLE@METRO.NET (preferable)

<u>or</u>

mail to:

Los Angeles County Metropolitan Transportation Authority Accounts Payable

P. O. Box 512296

Los Angeles, CA 90051-0296

All invoice material must contain the following information:

Re: LACMTA Project ID# MR312.06 and FA# MOU.MR312.06

LACMTA Project Manager: Isidro Panuco, "MS: 99-22-9"

Amendment Measure R Funding Agreement HIGHWAY PROGRAM 3. Part II, Paragraph 6.1 of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following:

"GRANTEE shall submit the draft of Monthly Progress Report (Attachment D-1) within seven (7) days from the last day of each month, if required, and submit the draft of Quarterly Expenditure Report (Attachment D-2) within sixty (60) days after the close of each quarter on the last day of the months November, February, May and August to the LACMTA Project Manager for review and pre-approval of the applicable report. LACMTA shall review and respond in writing to the draft Monthly Progress and Quarterly Expenditure Reports within five (5) business days from receipt. Grantee shall submit the LACMTA pre-approved Monthly Progress Report and Quarterly Expenditure Report no later than five (5) days after receipt of LACMTA's written approval. Should GRANTEE fail to submit either the draft or pre-approved reports within five (5) days of the due date and/or submit incomplete reports, LACMTA will not reimburse GRANTEE until the completed required reports are received, reviewed, and approved. The Monthly Progress and the Quarterly Expenditure Reports shall include all appropriate documentation (such as contractor invoices, timesheets, receipts, etc.), and any changes to interim milestone dates that do not impact the final milestone date. All supporting documents must include a clear justification and explanation of their relevance to the Project. If no activity has occurred during a particular quarter, GRANTEE will still be required to submit the Monthly Progress and Quarterly Expenditure Reports indicating no dollars were expended that quarter. If a request for reimbursement exceeds \$500,000 in a single month, then GRANTEE can submit such an invoice once per month with supporting documentation."

- 4. Part II, Section 9.1 (iv) of the Existing FA is hereby amended by deleting it in its entirety and replacing it with the following: "All Funds programmed for FY2011-12 are subject to lapse by June 30, 2017."
- 5. Attachment B1 of the Existing FA is hereby replaced by Attachment B1-1, attached.
- 6. Except as expressly amended hereby, the Existing FA remains in full force and effect as originally executed. All rights and obligations of the parties under the Existing FA that are not expressly amended by this Amendment shall remain unchanged.



Rev: 12.07.16

IN WITNESS WHEREOF, the parties have caused this Amendment No.1 to the FA to be executed by their duly authorized representatives as of the dates indicated below:

LACMTA:

Rev: 12.07.16

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
By: Date: 5/1/2017  Approved as to form:
MARY C. WICKHAM County Counsel  By: Deputy  Deputy  Date: 3/20/17
GRANTEE:
CITY OF REDONDO BEACH
By: Date: 4/4/17 William C. Brand City Mayor
APPROVED AS TO FORM:  By: Michael W. Webb  City Attorney
By: Clean Manzano City Clerk  Date: 5/1/17



#### ATTACHMENT B1-1 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA # MOU.MR312.06 Project Title: Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06

#### PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	Prior Years	FY 2016-17 Qtr 1	FY 2016-17 Qtr 2	FY 2016-17 Qtr 3	FY 2016-17 Qtr 4	FY 2017-18 Qtr 1	FY 2017-18 Qtr 2	FY 2017-18 Qtr 3	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:									
MEASURE R FUNDS:									
PAED									\$0
PS&E	\$25,397	\$134,603	\$190,000						\$350,000
RW Support									\$0
Const. Support									\$0
RW				\$50,000					\$50,000
Construction				\$500,000	\$500,000				\$1,000,000
Total MEASURE R	\$25,397	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,400,000
SUM PROG LACMTA FUNDS:	\$25,397	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,400,000
PROJECT FUNDING FY16-17 and FY17-18	\$25,397	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,400,000
SUMMARY OF ALL FUNDS									
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PS&E	\$0	\$134,603	\$190,000	\$0	\$0	\$0	\$0	\$0	\$324,603
RW Support	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Const. Support	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RW	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
Construction	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000
TOTAL MILESTONES	\$0	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,374,603
SUM PROG LACMTA FUNDS	\$25,397	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,400,000
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT FUNDING	\$25,397	\$134,603	\$190,000	\$550,000	\$500,000	\$0	\$0	\$0	\$1,400,000



# SOUTH BAY MEASURE R HIGHWAY PROGRAM FUNDING AGREEMENT

This Funding Agreement ("FA") is dated for reference purposes only August 15, 2011 and is by and between the Los Angeles County Metropolitan Transportation Authority ("LACMTA") and City of Redondo Beach ("Grantee") for - LACMTA Project ID# MR312.06 and FTIP# LA0G720.

WHEREAS, LACMTA adopted Ordinance #08-01, the Traffic Relief and Rail Expansion Ordinance, on July 24, 2008 (the "Ordinance"), which Ordinance was approved by the voters of Los Angeles County on November 4, 2008 as "Measure R" and became effective on January 2, 2009;

WHEREAS, the funding set forth is intended to fund **DESIGN**, **RIGHT-OF-WAY**, **AND CONSTRUCTION** of the F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard (the "Project").

WHEREAS, the LACMTA Board, at its February 24, 2011 meeting, programmed \$1,400,000, in Measure R Funds to City of Redondo Beach for design, right-of-way, and construction of the project, subject to the terms and conditions contained in this FA; and

WHEREAS, the Funds are currently programmed for \$140,000 in design, \$504,000 in right-of-way, and \$756,000 in construction of the project as follows: \$1,400,000 in Measure R Funds in FY 2011-12. The total designated for design, right-of-way, and construction of the project is \$1,400,000.

NOW, THEREFORE, the parties hereby agree as follows:

The terms and conditions of this FA consist of the following and each is incorporated by reference herein as if fully set forth herein:

- 1. Part I Specific Terms of the FA
- 2. Part II General Terms of the FA
- 3. Attachment A Project Funding
- Attachment B Expenditure Plan Guidelines
   Attachment B1 Expenditure Plan- Cost & Cash Flow Budget
- 5. Attachment C Scope of Work
- 6. Attachment D Reporting and Expenditure Guidelines
- 7. Attachment D1 Monthly Progress Report
- 8. Attachment D2 Quarterly Expenditure Report
- 9. Attachment E Federal Transportation Improvement Program (FTIP) Sheet
- 10. Attachment F Special Grant Conditions
- 11. Any other attachments or documents referenced in the above documents

In the event of a conflict, the Special Grant Conditions, if any, shall prevail over the Specific Terms of the FA and any attachments and the Specific Terms of the FA shall prevail over the General Terms of the FA.

IN WITNESS WHEREOF, the parties have caused this FA to be executed by their duly authorized representatives as of the dates indicated below:

# LACMTA:

LOS ANGEL	ES COUNTY METROPOLITAN T	RANSPO	ORTATION AUTHORITY
By:Arthur Chief	T. Leahy Executive Officer	_ Date: _	10/12/11
APPROVED	AS TO FORM:		
County Cour	MERIDAN ORDIN  Insel  May Seume  Try  Try  Try  Try  Try  Try  Try  Tr	_ Date: _	8/30/2011
GRANTEE:			
By: Mike C		_ Date: _	10/05/2011
By:	AS TO FORM:  AS TO FORM:  A S TO FORM:	_ Date: _	
By: Elean City C	Manzano Silerk	_ Date: _	

# PART I SPECIFIC TERMS OF THE FA

1. Title of the Project (the "Project"): F46 – Pacific Coast Highway Arterial Improvements from Anita Street to Palos Verdes Boulevard – Design, Right-of-Way, and Construction. LACMTA Project ID# MR312.06, FTIP# LA0G720.

#### Grant Funds:

- 2.1 Programmed Funds for this Project consist of the following: Measure R Funds.
- 2.2 To the extent the Measure R Funds are available; LACMTA shall make to GRANTEE a grant of the Measure R funds in the amount of \$1,400,000 (the "Fund") for the Project. LACMTA Board of Directors' action of February 24, 2011 granted the Measure R Funds for the Project. The Funds are programmed over Fiscal Years (FY) FY 2011 -12 only.
- 3. This grant shall be paid on a reimbursement basis. Grantee must provide the appropriate supporting documentation with the Monthly Progress Report and the Quarterly Expenditure Report. Grantee Funding Commitment if applicable must be spent in the appropriate proportion to the Funds with each quarter's expenditures. LACMTA will withhold five percent (5%) of eligible expenditures per invoice as retainage pending an audit of expenditures and completion of scope of work.
- 4. **Attachment A** the "Project Funding" documents all sources of funds programmed for the Project as approved by LACMTA and is attached as <u>Attachment A</u>. The Project Funding includes the total programmed funds for the Project, including the Funds programmed by LACMTA and, if any, the Grantee Funding Commitment of other sources of funding. The Project Funding also includes the fiscal years in which all the funds for the Project are programmed. The Funds are subject to adjustment by subsequent LACMTA Board Action.
- 5. Attachment B1 is the Expenditure Plan- Cost & Cash Flow Budget (the "Expenditure Plan"). It is the entire proposed cash flow, the Budget and financial plan for the Project, which includes the total sources of all funds programmed to the Project, including GRANTEE and other entity funding commitments, if any, for this Project as well as the fiscal year and quarters the Project funds are anticipated to be expended. Grantee shall submit annually to LACMTA no later than December 31<sup>st</sup> an update to Attachment B1 for review by LACMTA for budget and programming purposes. Acceptance of any changes to the document will be conveyed by amendment to this FA. GRANTEE shall update the Expenditure Plan annually, such update shall be submitted to LACMTA's Executive Director of Highway Program in writing. If the LACMTA's Executive Director of Highway Program concurs with such updated Expenditure Plan in writing, Attachment B1 shall be replaced with the new Attachment B1 setting forth the latest approved Expenditure Plan. Payments under this agreement shall be consistent with Attachment B1 as revised from time to time.

- 6. Attachment C is the Scope of Work ("the Scope of Work"). The GRANTEE shall complete the Project as described in the Scope of Work. This Scope of Work shall include a detailed description of the Project and the work to be completed, including anticipated Project milestones and a schedule consistent with the lapsing policy in Part II, Section 9, and a description of the Project limits. Work shall be delivered in accordance with this schedule and scope unless otherwise agreed to by the parties in writing. If GRANTEE is consistently behind schedule in meeting milestones or in delivering the Project, LACMTA will have the option to suspend or terminate the FA for default as described in Part II, Sections 2, 9, 10 and 11 herein below.
- 7. No changes to this FA, including but not limited to the Funds; and any other source of funds from LACMTA in the Project Funding, Expenditure Plan or the Scope of Work shall be allowed without an amendment to the original FA, approved and signed by both parties.
- 8. Attachment D the Reporting & Expenditure Guidelines; Grantee shall complete the "Monthly Progress Report and the Quarterly Expenditure Report." The Monthly Progress and Quarterly Expenditure Report are attached to this FA as Attachments D1 and D2 in accordance with Attachment D Reporting and Expenditure Guidelines.
- 9. Attachment E the "FTIP PROJECT SHEET (PDF)" is attached as Attachment E and is required to ensure that the Project is programmed correctly in the most up-to-date FTIP document. The FTIP PROJECT SHEET (PDF) can be found in ProgramMetro FTIP database under the reports section at http://program.metro.net. All projects that receive funding through Measure R must be programmed into the FTIP which includes locally funded regionally significant projects for information and air quality modeling purposes. Grantee shall review the Project in ProgramMetro each year and update or correct the Project as necessary during a scheduled FTIP amendment or adoption. Grantee will be notified of amendments and adoptions to the FTIP via e-mail. Changes to the FTIP through ProgramMetro should be made as soon as possible after Grantee is aware of any changes to the Project, but no later than October 1 of the year the change or update is effective. Should Grantee fail to meet this date, it may affect Grantee's ability to access funding, delay the Project and may ultimately result in the Funds being lapsed.
- 10. No changes to the (i) Grant amount, (ii) Project Funding, (iii) the Scope of Work, or (iv) Expenditure Plan, (v) FTIP Project Sheet or (vi) Special Grant Conditions shall be allowed without a written amendment to this FA, approved and signed by the LACMTA Chief Executive Officer or his/her designee and Grantee. Modifications that do not materially affect the terms of this FA, such as redistributing Funds among existing budget line items or non-material schedule changes must be formally requested by Grantee and approved by LACMTA in writing. Non-material changes are those changes, which do not affect the grant amount, or its schedule, Project Funding, Financial Plan, the Scope of Work, including its schedule.

#### LACMTA's Address: 11.

Los Angeles County Metropolitan Transportation Authority One Gateway Plaza

Los Angeles, CA 90012

Attention: Fulgene Asuncion, MS: 99-22-9

Phone (213) 922-3025

Email: asuncionf@metro.net

#### 12. Grantee's Address:

City of Redondo Beach 415 Diamond Street Redondo Beach, CA 90277-2894

Attention: John Mate

Phone: (310) 318-0661 x2277 Email: john.mate@redondo.org

# PART II GENERAL TERMS OF THE FA

### 1. TERM

The term of this FA shall commence on the date this FA is fully executed and, shall terminate upon the occurrence of all of the following, unless terminated earlier as provided herein: (i) the agreed upon Scope of Work has been completed; (ii) all LACMTA audit and reporting requirements have been satisfied; and (iii) the final disbursement of the Funds has been made to Grantee. All eligible Project expenses as defined in the Reporting and Expenditure Guidelines (Attachment D), incurred after the FA is executed shall be reimbursed in accordance with the terms and conditions of this FA unless otherwise agreed to by the parties in writing.

#### 2. SUSPENDED OR TERMINATION

Should LACMTA determine there are insufficient Measure R Funds available for the Project, LACMTA may suspend or terminate this FA by giving written notice to GRANTEE at least thirty (30) days in advance of the effective date of such suspension or termination. If a Project is suspended or terminated pursuant to this section, LACMTA will not reimburse GRANTEE any costs incurred after that suspension or termination date, except those costs necessary (i) to return any facilities modified by the Project construction to a safe and operable state; and (ii) to suspend or terminate the construction contractor's control over the Project. LACMTA's share of these costs will be consistent with the established funding percentages outlined in this FA.

## 3. INVOICE BY GRANTEE

Unless otherwise stated in this FA, the Quarterly Expenditure Report, with supporting documentation of expenses and Project progress as described in Part II, Sections 6.1 of this FA, and other documents as required, shall satisfy LACMTA invoicing requirements.

Send invoice with supporting documentation to:
Los Angeles County Metropolitan Transportation Authority
Accounts Payable
P. O. Box 512296
Los Angeles, CA 90051-0296

Re: LACMTA Project ID# MR312.06 and FA# MOU.MR312.06 Project Manager: Fulgene Asuncion, MS: 99-22-9

#### USE OF FUNDS:

4.1 Grantee shall utilize the Funds to complete the Project as described in the Scope of Work and in accordance with the Reporting and Expenditure Guidelines and the specifications for use for the transportation purposes described in the Ordinance.

- 4.2 <u>Attachment C</u> shall constitute the agreed upon Scope of Work between LACMTA and Grantee for the Project. The Funds, as granted under this FA, can only be used towards the completion of the Scope of Work detailed in <u>Attachment C</u>.
- 4.3 Grantee shall not use the Funds to substitute for any other funds or projects not specified in this FA. Further, Grantee shall not use the Funds for any expenses or activities above and beyond the approved Scope of Work (<u>Attachment C</u>) without an amendment to the FA approved and signed by the LACMTA Chief Executive Officer or his Designee.
- 4.4 Grantee must use the Funds in the most cost-effective manner. If Grantee intends to use a consultant or contractor to implement all or part of the Project, LACMTA requires that such activities be procured in accordance with Grantee's contracting procedures and consistent with State law as appropriate. Grantee will also use the Funds in the most cost-effective manner when the Funds are used to pay "inhouse" staff time. Grantee staff or consultant with project oversight roles can not award work to companies in which they have a financial or personal interest. This effective use of funds provision will be verified by LACMTA through on-going Project monitoring and through any LACMTA interim and final audits.
- 4.5 If a facility, equipment (such as computer hardware or software), vehicle or property, purchased or leased using the Funds, ceases to be used for the proper use as originally stated in the Scope of Work, or the Project is discontinued, any Funds expended for that purpose must be returned to LACMTA as follows: Grantee shall be required to repay the Funds in proportion to the useful life remaining and in an equal proportion of the grant to Grantee Funding Commitment ratio.

#### REIMBURSEMENT OF FUNDS

Funds will be released on a reimbursement basis in accordance with invoices submitted in support of the Monthly Progress and Quarterly Expenditure Report. LACMTA will make all disbursements electronically unless an exception is requested in writing. Reimbursements via Automated Clearing House (ACH) will be made at no cost to Grantee. Grantee must complete the ACH form and submit such form to LACMTA before grant payments can be made. ACH Request Forms can be found at www.metro.net/projects\_studies/call\_projects/ref\_docs.htm. Grantee must provide detailed supporting documentation with its Monthly Progress and Quarterly Expenditure Report. Grantee Funding Commitment, if any, must be spent in direct proportion to the Funds with each quarter's payment.

# 6. REPORTING AND AUDIT REQUIREMENTS/PAYMENT ADJUSTMENTS:

6.1 Grantee shall submit the Monthly Progress Report (Attachment D1) within seven (7) days from the last day of each month and submit the Quarterly Expenditure Report (Attachment D2) within sixty (60) days after the close of each quarter on the last day of the months November, February, May and August. Should Grantee fail

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to submit such reports within 10 days of the due date and/or submit incomplete reports, LACMTA will not reimburse Grantee until the completed required reports are received, reviewed, approved. The Monthly Progress and the Quarterly Expenditure Report shall include all appropriate documentation (such as contractor invoices, timesheets, receipts, etc.). All supporting documents must include a clear justification and explanation of their relevance to the Project. If no activity has occurred during a particular quarter, Grantee will still be required to submit the Monthly Progress and Quarterly Expenditure Report indicating no dollars were expended that quarter. If a request for reimbursement exceeds \$500,000 in a single month, then Grantee can submit such an invoice once per month with supporting documentation.

- LACMTA, and/or its designee, shall have the right to conduct audits 6.2 of the Project, as deemed appropriate, such as financial and compliance audits; interim audits; pre-award audits, performance audits and final audits. LACMTA will commence a final audit within six months of receipt of acceptable final invoice, provided the Project is ready for final audit (meaning all costs and charges have been paid by Grantee and invoiced to LACMTA, and such costs, charges and invoices are properly documented and summarized in the accounting records to enable an audit without further explanation or summarization including actual indirect rates for the period covered by the FA period under review). Grantee agrees to establish and maintain proper accounting procedures and cash management records and documents in accordance with Generally Accepted Accounting Principles (GAAP). Grantee shall reimburse LACMTA for any expenditure not in compliance with the Scope of Work and/or not in compliance with other terms and conditions of this FA. The allowability of costs for Grantee's own expenditures submitted to LACMTA for this Project shall be in compliance with Office of Management and Budget (OMB) Circular A-87. The allowability of costs for Grantee's contractors, consultants and suppliers expenditures submitted to LACMTA through Grantee's Monthly Progress Reports and Quarterly Expenditures shall be in compliance with OMB Circular A-87 or Federal Acquisition Regulation (FAR) Subpart 31 (whichever is applicable). Findings of the LACMTA audit are final. When LACMTA audit findings require Grantee to return monies to LACMTA, Grantee agrees to return the monies within thirty (30) days after the final audit is sent to Grantee.
- records, written policies and procedures, contract files, original estimates, correspondence, change order files (including documentation covering negotiated settlements), invoices, and any other supporting evidence deemed necessary by LACMTA to substantiate charges related to the Project (all collectively referred to as "records") shall be open to inspection and subject to audit and reproduction by LACMTA auditors or authorized representatives to the extent deemed necessary by LACMTA to adequately permit evaluation of expended costs. Such records subject to audit shall also include, without limitation, those records deemed necessary by LACMTA to evaluate and verify, direct and indirect costs, (including overhead allocations) as they may apply to costs associated with the Project. These records must be retained by Grantee for three years following final payment under this Agreement. Payment of retention amounts shall not occur until after the LACMTA's final audit is completed.

- 6.4 Grantee shall cause all contractors to comply with the requirements of Part II, Section 5, paragraphs **6.2** and **6.3** above. Grantee shall cause all contractors to cooperate fully in furnishing or in making available to LACMTA all records deemed necessary by LACMTA auditors or authorized representatives related to the Project.
- 6.5 LACMTA or any of its duly authorized representatives, upon reasonable written notice shall be afforded access to all of the records of Grantee and its contractors related to the Project, and shall be allowed to interview any employee of Grantee and its contractors through final payment to the extent reasonably practicable.
- 6.6 LACMTA or any of its duly authorized representatives, upon reasonable written notice, shall have access to the offices of Grantee and its contractors, shall have access to all necessary records, including reproduction at no charge to LACMTA, and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the terms and conditions of this FA.
- 6.7 When business travel associated with the Project requires use of a vehicle, the mileage incurred shall be reimbursed at the mileage rates set by the Internal Revenue Service, as indicated in the United States General Services Administration Federal Travel Regulation, Privately Owned Vehicle Reimbursement Rates.
- 6.8 Grantee shall be responsible for ensuring all contractors/subcontractors for the Project comply with the terms of the Ordinance. Grantee shall cooperate with LACMTA Audit Department such that LACMTA can meet its obligations under the Ordinance.
- 6.9 Grantee shall certify each invoice by reviewing all subcontractor costs and maintaining internal control to ensure that all expenditures are allocable, allowable and reasonable and in accordance with OMB A-87 or FAR subparagraph 31 (whichever is applicable) and the terms and conditions of this FA.
- 6.10 Grantee shall also certify final costs of the Project to ensure all costs are in compliance with OMB A-87 or FAR subparagraph 31(whichever is applicable) and the terms and conditions of this FA.
- 6.11 In addition to LACMTA's other remedies as provided in this FA, LACMTA may withhold the Funds if the LACMTA audit has determined that Grantee failed to comply with the Scope of Work (such as misusing Funds or failure to return Funds owed to LACMTA in accordance with LACMTA audit findings) and /or is severely out of compliance with other terms and conditions as defined by this FA, including the access to records provisions of Part II, Section 6.

# 7. GRANT

This is a one time only grant of the Measure R Funds are subject to the terms and conditions agreed to herein. This grant does not imply nor obligate any future funding commitment on the part of LACMTA.

### 8. SOURCES AND DISPOSITION OF FUNDS:

- 8.1 The obligation for LACMTA to grant the Funds for the Project is subject to sufficient Funds being made available for the Project by the LACMTA Board of Directors. If such Funds are not made available as anticipated from Measure R Program revenues, LACMTA will have the right to adjust the cash flow accordingly until such funds become available. LACMTA shall have no obligation to provide any other funds for the Project, unless otherwise agreed to in writing by LACMTA.
- 8.2 Grantee shall fully fund and contribute the Grantee Funding Commitment, if any is identified in the Project Funding (Attachment A), towards the cost of the Project. If the Funds identified in Attachment A are insufficient to complete the Project, Grantee may request additional Measure R funds from its sub-region earmark pending support of the sub-region's Governing Board, the South Bay Cities Council of Governments (SBCCOG). A particular sub-region's Measure R funds are limited to the amount specified in the Ordinance and is still subject to approval of the LACMTA Board. Nothing in this FA shall obligate, or be construed to obligate the LACMTA Board to approve such request for additional funds. If the Funds are still insufficient to complete the Project, Grantee agrees to secure and provide such additional non-LACMTA programmed funds necessary to complete the Project.
- 8.3 Grantee shall be responsible for any and all cost overruns for the Project pursuant to Section 8.2.
- 8.4 Grantee shall be eligible for the Funds up to the grant amount specified in Part I, Section 2 of this FA subject to the terms and conditions contained herein. Any Funds expended by Grantee prior to the execution of this FA (prior to the LACMTA Chief Executive Officer's signature) shall not be reimbursed nor shall they be credited toward the Grantee Funding Commitment requirement, without the prior written consent of LACMTA. Grantee Funding Commitment dollars expended prior to the year the Funds are awarded shall be spent at Grantee's own risk.
- 8.5 If Grantee receives outside funding for the Project in addition to the Funds identified in the Project Funding and the Expenditure Plan at the time this grant was awarded, this FA shall be amended to reflect such additional funding. If, at the time of final invoice or voucher, funding for the Project (including the Funds, Grantee Funding Commitment, and any additional funding) exceeds the actual Project costs, then the cost savings shall be applied in the same proportion as the sources of funds from each party to this FA as specified in the Project Funding and both the Funds and Grantee Funding Commitment required for the Project shall be reduced accordingly.

## 9. TIMELY USE OF FUNDS / REPROGRAMMING OF FUNDS:

- 9.1 Grantee must demonstrate timely use of the Funds by:
  - (i) executing this FA within ninety (90) days of receiving formal transmittal of the FA from LACMTA, or by December 31 of the

- first Fiscal Year in which the Funds are programmed, whichever date is later; and
- (ii) meeting the Project milestones due dates as agreed upon by the LACMTA and Grantee in <u>Attachment C</u> (Scope of Work) of this FA. Contracts for construction or capital purchase shall be executed within nine (9) months from the date of completion of design; and
- (iii) submitting the Monthly Progress and Quarterly Expenditure Report as described in Part II, Section 6.1 of this FA; and
- (iv) expending the Funds granted under this FA for allowable costs within five years or 60 months from July 1 of the Fiscal Year in which the Funds are programmed, unless otherwise stated in this FA. All Funds programmed for FY 2011-12 are subject to lapse by June 30, 2016.
- 9.2 In the event that the timely use of the Funds is not demonstrated as described in Part II, Section **9.1** of this FA, the Project will be reevaluated by LACMTA as part of its annual Recertification/Deobligation process and the Funds may be reprogrammed to another project by the LACMTA Board of Directors in accordance with the Ordinance, which may require that any reprogrammed funds be returned to the subregion. In the event that all the Funds are reprogrammed, this FA shall automatically terminate.

### 10. DEFAULT:

A Default under this FA is defined as any one or more of the following: (i) Grantee fails to comply with the terms and conditions contained herein; or (ii) Grantee fails to perform satisfactorily or makes a material change, as determined by LACMTA at its sole discretion, to the Expenditure Plan, the Scope of Work, or the Project Funding without LACMTA's prior written consent or approval as provided herein.

### 11. REMEDIES:

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- 11.1 In the event of a Default by Grantee, LACMTA shall provide written notice of such Default to Grantee with a 30-day period to cure the Default. In the event Grantee fails to cure the Default, or commit to cure the Default and commence the same within such 30-day period to the satisfaction of LACMTA, LACMTA shall have the following remedies: (i) LACMTA may terminate this FA; (ii) LACMTA may make no further disbursements of Funds to Grantee; and/or (iii) LACMTA may recover from Grantee any Funds disbursed to Grantee as allowed by law or in equity.
- 11.2 Effective upon receipt of written notice of termination from LACMTA, Grantee shall not undertake any new work or obligation with respect to this FA unless so directed by LACMTA in writing. Any Funds expended after termination shall be the sole responsibility of Grantee.

11.3 The remedies described herein are non-exclusive. LACMTA shall have the right to enforce any and all rights and remedies herein or which may be now or hereafter available at law or in equity.

### 12. COMMUNICATIONS:

- 12.1 Grantee shall ensure that all Communication Materials contain recognition of LACMTA's contribution to the Project. For purposes of this Agreement, "Communications Materials" include, but are not limited to, newsletters and other printed materials, advertising, websites and electronic media, and construction site signage.
- 12.2 Grantee shall ensure that at a minimum, all Communications Materials shall include (i) the phrase "A Measure R project funded by Metro"; and (ii) the Metro logo. Further guidance on acknowledging LACMTA contribution is provided in the Communications Materials guidelines available from the LACMTA Communications Division.
- 12.3 The Metro logo is a trademarked item that shall be reproduced and displayed in accordance with specific graphic guidelines available from the LACMTA Communications Division.
- 12.4 Grantee shall ensure that any subcontractor, including, but not limited to, public relations, public affairs, and/or marketing firms hired to produce Project Communications Materials will comply with the requirements contained in this **Section 12**.
- 12.5 Grantee shall notify the LACMTA Chief Communications Officer or his/her designee of all press events related to the Project in such a manner that allows LACMTA to participate in such events, at LACMTA's sole discretion.
- 12.6 The Metro logo is a trademarked item that shall be reproduced and displayed in accordance with specific graphic guidelines available from the LACMTA Communications Division.
- 12.7 Grantee shall ensure that any subcontractor, including, without limitation, public relations, public affairs, and/or marketing firms hired to produce Project Communications Materials will comply with the requirements contained in this **Section 12**.

# 13. OTHER TERMS AND CONDITIONS:

13.1 This FA, along with its Attachments, constitutes the entire understanding between the parties, with respect to the subject matter herein. The FA shall not be amended, nor any provisions or breach hereof waived, except in writing signed by the parties who agreed to the original FA or the same level of authority.

- public transportation purposes for which the Project was initially approved. The Project right-of-way, the Project facilities constructed or reconstructed on the Project site, and/or Project property purchased excluding construction easements and excess property (whose proportionate proceeds shall be distributed in an equal proportion of the grant to Grantee Funding Commitment ratio) shall remain dedicated to public transportation use in the same proportion and scope and to the same extent as described in this FA. Equipment acquired as part of the Project, including office equipment, vehicles, shall be dedicated to that use for their full economic life cycle, including any extensions of that life cycle achieved by reconstruction, rehabilitation, or enhancements.
- 13.3 In the event that there is any legal court (e.g., Superior Court of the State of California, County of Los Angeles, or the U.S. District Court for the Central District of California) proceeding between the parties to enforce or interpret this FA, to protect or establish any rights or remedies hereunder, the prevailing party shall be entitled to its costs and expenses, including reasonable attorney's fees.
- responsible for any damage or liability occurring by reason of anything done or committed to be done by Grantee under or in connection with any work performed by and or service provided by Grantee, its officers, agents, employees, contractors and subcontractors under this FA. Grantee shall fully indemnify, defend and hold LACMTA, and its officers, agents and employees harmless from and against any liability and expenses, including without limitation, defense costs, any costs or liability on account of bodily injury, death or personal injury of any person or for damage to or loss of risk of property, any environmental obligation, any legal fees and any claims for damages of any nature whatsoever arising out of the Project, including without limitation: (i) use of the Funds by Grantee, or its officers, agents, employees, contractors or subcontractors; (ii) breach of Grantee's obligations under this FA; or (iii) any act or omission of Grantee, or its officers, agents, employees, contractors in the performance of the work or the provision of the services, in connection with the Project including, without limitation, the Scope of Work, described in this FA.
- 13.5 Neither party hereto shall be considered in default in the performance of its obligation hereunder to the extent that the performance of any such obligation is prevented or delayed by unforeseen causes including acts of God, acts of a public enemy, and government acts beyond the control and without fault or negligence of the affected party. Each party hereto shall give notice promptly to the other of the nature and extent of any such circumstances claimed to delay, hinder, or prevent performance of any obligations under this FA.
- 13.6 Grantee shall comply with and insure that work performed under this FA is done in compliance with Generally Accepted Accounting Principles (GAAP), all applicable provisions of federal, state, and local laws, statutes, ordinances, rules, regulations, and procedural requirements including Federal Acquisition Regulations (FAR), and the applicable requirements and regulations of LACMTA. Grantee acknowledges responsibility for obtaining copies of and complying with the terms of the

most recent federal, state, or local laws and regulations, and LACMTA requirements including any amendments thereto.

- 13.7 Grantee agrees that the applicable requirements of this FA shall be included in every contract entered into by Grantee or its contractors relating to work performed under this FA and LACMTA shall have the right to review and audit such contracts.
- 13.8 Grantee shall not assign this FA, or any part thereof, without prior approval of the LACMTA Chief Executive Officer or his designee, and any assignment without said consent shall be void and unenforceable.
- 13.9 This FA shall be governed by California law. If any provision of this FA is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall nevertheless continue in full force without being impaired or invalidated in any way.
- 13.10 The covenants and agreements of this FA shall inure to the benefit of, and shall be binding upon, each of the parties and their respective successors and assigns.
- 13.11 If any software/Intelligent Transportation Systems ("ITS") is developed with the Funds and if Grantee ceases to use the software/ITS for public purposes or Grantee sells, conveys, licenses or otherwise transfers the software/ITS, LACMTA shall be entitled to a refund or credit, at LACMTA's sole option, equivalent to the amount of the Funds spent developing the software/ITS. Such refund or credit shall not be required, subject to LACMTA approval of the intended use, if Grantee reinvests the proceeds of such sale, conveyance, license or transfer into the Project to offset operating or systems management costs.
- 13.12 Implementation of any ITS project shall be consistent with the Regional ITS Architecture. ITS projects must comply with the LACMTA Countywide ITS Policy and Procedures adopted by the LACMTA Board of Directors including the submittal of a completed, signed self-certification form in the form of Attachment F-1. For the ITS policy and form, see www.metro.net/projects studies/call projects/other resources.htm.
- 13.13 If any parking facilities are designed and/or constructed using the Funds, Grantee shall coordinate with LACMTA parking program staff (see METRO.net for staff listing) in the planning, design and management of the facility and shall ensure that its implementation is consistent with the LACMTA adopted parking policy. For the parking policy, see www.metro.net/projects studies/call projects/other\_resources.htm.
- 13.14 Grantee will advise LACMTA prior to any key Project staffing changes.

- 13.15 Notice will be given to the parties at the address specified in Part I, unless otherwise notified in writing of change of address.
- 13.16 Grantee in the performance of the work described in this FA is not a contractor nor an agent or employee of LACMTA. Grantee attests to no organizational or personal conflicts of interest and agrees to notify LACMTA immediately in the event that a conflict, or the appearance thereof, arises. Grantee shall not represent itself as an agent or employee of LACMTA and shall have no powers to bind LACMTA in contract or otherwise.

# ATTACHMENT A -PROJECT FUNDING

Measure R Program - Funding Agreement Projects - FA # MOU.MR312.06

Project Title: F46 - Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd.

# PROGRAMMED BUDGET - SOURCES OF FUNDS

Project#: MR312.06

SOURCES OF FUNDS	FY2009-10	FY2010-11	FY2011-12	FY2012-13	FY2013-14	FY2014-15	FY2015-16	FY2016-17	Total Budget	% of Budget
LACMTA PROGRAMMED FUNDING										
MEASURE R FUNDS			\$1,400,000						\$1,400,000	100%
SUBTOTAL			\$1,400,000	\$0					\$ 1,400,000	
PROP C 25%									\$0	0%
SUBTOTAL			\$0	\$0					\$ -	
LACMTA PROGRAMMED FUNDS BY YEAR SUBTOTAL			\$1,400,000	\$0					\$ 1,400,000	100%
OTHER SOURCES OF FUNDING:										
LOCAL:									\$0	0%
STATE:									\$0	0%
FEDERAL:									\$0	0%
PRIVATE OR OTHER:									\$0	0%
OTHER FUNDING SUBTOTAL			\$0	\$0					\$0	0%
TOTAL PROJECT FUNDS			\$1,400,000	\$0					\$1,400,000	100%

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# ATTACHMENT B EXPENDITURE PLAN GUIDELINES

# State Law Requires All Measure R Project and Program Sponsors to Submit an Expenditure Plan

To be eligible to receive Measure R revenues, an agency sponsoring a capital project or program must by state law (AB 2321) submit an expenditure plan that is acceptable to the Los Angeles County Metropolitan Transportation Authority (LACMTA). Pursuant to this law, LACMTA cannot release Measure R funds to capital project or program sponsors until an expenditure plan containing the following elements is submitted, reviewed and deemed satisfactory by LACMTA. LACMTA staff will request that an expenditure plan be submitted before making a recommendation to the LACMTA Board to program funds to that project:

- o The estimated total cost for each project and program and/or each project or program activity;
- o Funds other than Measure R that the project or program sponsor anticipates will be expended on the projects and programs and/or each project or program activity;
- o The schedule during which the project sponsor anticipates funds will be available for each project and program and/or each project or program activity; and,
- o The expected completion dates for each project and program and/or project or program activity.

Each of the above elements must be provided in enough detail to determine consistency with Measure R, the Long Range Transportation Plan for Los Angeles County, and the Los Angeles County Transportation Improvement Program (also a statutorily mandated function), as follows:

- Project or program scope of work, including sufficient information to determine funding eligibility, including, but not limited to, the anticipated proportional use of current rail rights-of-way, state highways, and belowground subways versus any other rights-of-way or above-ground work;
- o A current-year cost estimate breakdown of the major sub-elements of the project such as overhead, environmental and permit work, design and engineering, right-of-way, construction/installation (including maintenance facilities, rail yard, equipment and other major components), construction/installation support, interest costs, rolling stock, and other supporting components;
- o Any extraordinary project cost escalation issues, such as extraordinary commodity, right-of-way, surety, energy costs, etc.;
- o A specific and accurate description of the source, commitment, and anticipated annual availability of any federal, state, local, or private funding identified for the project if applicable including a 3% local funding contribution to rail projects if indicated in Measure R and necessary to meet project expenses, and if the source funds are in current or year-of-expenditure dollars;
- o An annual schedule, in current dollars, of anticipated costs by the cost estimate categories described above; and:
- o The expected completion by month and year of project or program completion.

# ATTACHMENT B EXPENDITURE PLAN GUIDELINES

# State Law Requires All Measure R Project and Program Sponsors to Submit an Expenditure Plan

Below is an excerpt of AB 2321 (2008, Feuer) the state legislation that requires the expenditure plan.

### What AB 2321 (2008, Feuer) Says About the Expenditure Plan:

Section b (3) B

- (f) Prior to submitting the ordinance to the voters, the MTA shall adopt an expenditure plan for the net revenues derived from the tax. The expenditure plan shall include, in addition to other projects and programs identified by the MTA, the specified projects and programs listed in paragraph (3) of subdivision (b), the estimated total cost for each project and program, funds other than the tax revenues that the MTA anticipates will be expended on the projects and programs, and the schedule during which the MTA anticipates funds will be available for each project and program. The MTA shall also identify in its expenditure plan the expected completion dates for each project described in subparagraph (A) of paragraph (3) of subdivision (b). To be eligible to receive revenues derived from the tax, an agency sponsoring a capital project or capital program shall submit to the MTA an expenditure plan for its project or program containing the same elements as the expenditure plan that MTA is required by this subdivision to prepare.
- (k) No later than 365 days prior to the adoption of an amendment described in paragraph (1) to an expenditure plan adopted pursuant to subdivision (f), including, but not limited to, the expenditure plan adopted by the MTA board as "Attachment A" in Ordinance #08-01 adopted by the board on July 24, 2008, and in addition to any other notice requirements in the proposing ordinance, the board shall notify the Members of the Legislature representing the County of Los Angeles of all of the following:
- (1) A description of the proposed amendments to the adopted expenditure plan that would do any of the following:
  - (A) Affect the amount of net revenues derived from the tax imposed pursuant to this act that is proposed to be expended on a capital project or projects identified in the adopted expenditure plan.
  - (B) Affect the schedule for the availability of funds proposed to be expended on a capital project or projects identified in the adopted expenditure plan.
  - (C) Affect the schedule for the estimated or expected completion date of a capital project or projects identified in the adopted expenditure plan.
  - (2) The reason for the proposed amendment.
- (3) The estimated impact the proposed amendment will have on the schedule, cost, scope, or timely availability of funding for the capital project or projects contained in the adopted expenditure plan.

### ATTACHMENT B1 - EXPENDITURE PLAN COST & CASH FLOW BUDGET

Measure R Program - Funding Agreement Projects - FA # MOU.MR312.06

Project Title: F46 - Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Project#:MR312.06

#### PROGRAMMED SOURCES OF FUNDS

SOURCES OF FUNDS	FY 2011-12 Qtr 1	FY 2011-12 Qtr 2	FY 2011-12 Qtr 3	FY 2011-12 Qtr 4	FY 2012-13 Qtr 1	FY 2012-13 Qtr 2	FY 2012-13 Qtr 3	FY 2012-13 Qtr 4	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:			on Secondary						
MEASURE R FUNDS:									
PAED		LE COMMENT	Maria Maria	Managara					\$0
PS&E		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$140,000
RW Support							A Charles		\$0
Const. Support									\$0 \$504,000
RW				\$168,000	\$168,000	\$168,000	6126.000	\$126,000	\$252,000
Construction		400.000	400.000	#100.000	£100.000 l	#100 000 l	\$126,000 \$146,000	\$146,000	\$896,000
Total MEASURE R	\$0	\$20,000	\$20,000	\$188,000	\$188,000	\$188,000			
SUM PROG LACMTA FUNDS:	\$0	\$20,000	\$20,000	\$188,000	\$188,000	\$188,000	\$146,000	\$146,000	\$896,000
PROJECT FUNDING							4446.000	\$1.45.000	\$00¢.00
FY11-FY12	\$0	\$20,000	\$20,000	\$188,000	\$188,000	\$188,000	\$146,000	\$146,000	\$896,00
SOURCES OF FUNDS	FY 2013-14 Qtr 1	FY 2013-14 Qtr 2	FY 2013-14 Qtr 3	FY 2013-14 Qtr 4	FY2014-15 Qtr 1	FY2014-15 Qtr 2	FY2014-15 Qtr 3	FY2014-15 Qtr 4	TOTAL BUDGET
LACMTA PROGRAMMED FUNDS:									
MEASURE R FUNDS:					Verse Biologic				
PAED									\$(
PS&E									\$(
RW Support		g Milm (H) mig a Mil-	Lay Bin day o						\$(
Const. Support	Day and World								\$(
RW						West States			\$(
Construction	\$126,000	\$126,000	\$126,000	\$126,000					\$504,000
Total MEASURE R	\$126,000	\$126,000	\$126,000	\$126,000	\$0	\$0	\$0	\$0	\$504,000
SUM PROG LACMTA FUNDS:	\$126,000	\$126,000	\$126,000	\$126,000	\$0	\$0	\$0	\$0	\$504,000
OTHER NON LACMTA FUNDING:									
PROJECT FUNDING									
FY13-FY14	\$126,000	\$126,000	\$126,000	\$126,000	\$0	\$0	\$0	\$0	\$504,00
SUMMARY OF ALL FUNDS									
PAED	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
PS&E	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$140,0
RW Support	\$0	\$0	\$0	\$0	\$0	\$0	\$0		Average and
Const. Support	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
RW	\$0	\$0	\$0	\$168,000	\$168,000	\$168,000	\$0		\$504,0
Construction	\$126,000	\$126,000	\$126,000	\$126,000	\$0	\$0	\$126,000		\$756,0
TOTAL MILESTONES	\$126,000	\$146,000	\$146,000	\$314,000	\$188,000	\$188,000	\$146,000	\$146,000	\$1,400,00
SUM PROG LACMTA FUNDS	\$126,000	\$146,000	\$146,000	\$314,000	\$188,000	\$188,000	\$146,000	\$146,000	\$1,400,00
SUM NON-LACMTA FUNDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	To the second se	\$
TOTAL PROJECT FUNDING	\$126,000	\$146,000	\$146,000	\$314,000	\$188,000	\$188,000	\$146,000	\$146,000	\$1,400,00

South Bay Measure R Funding Agreement ATTACHMENT B1 - EXPENDITURE PLAN

#### ATTACHMENT C

#### SCOPE OF WORK

**PROJECT TITLE**: F46 – Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd.

#### PROJECT LOCATION:

The project is located in the City of Redondo Beach, County of Los Angeles.

#### PROJECT LIMITS:

This project limits are Anita/190<sup>th</sup> Street on the north end to Palos Verdes Boulevard on the south end.

#### **NEXUS TO HIGHWAY OPERATION DEFINITION / PROJECT PURPOSE:**

The purpose of this project is to improve traffic flow by obtaining/improving right of way and intersections and the enhancement of signal and traffic operations along the congested corridor of Pacific Coast Highway, SR1.

#### PROJECT BACKGROUND:

Pacific Coast Highway is a highly congested corridor through the City of Redondo Beach. This project will study, design and construct many of the recommendations from the PCH study as completed by the South Bay Cities Council of Governments in 2009 and also many improvements along PCH recommended by other studies. Physical improvements will occur at locations the city has the right of way or possibly additional right of way may be obtained.

#### PROJECT SCOPE:

Rev: 06.20.11

This project will study, design, obtain right of way and construct roadway improvements, striping/signal enhancements and other intersection improvements in an effort to improve the traffic flow along this congested corridor.

# PROJECT COST:

		% of Cost
Planning	\$ 0	
PA&ED	\$ 0	
PS&E	\$ 140,000	10%
Right of Way Support	\$ 0	
Right of Way Acquisition	\$ 504,000	36%
Construction	\$ 756,000	54%
Project Coordination &	\$ 0	
Development		
Total Project Cost	\$ 1,400,000	100%

### PROJECT BUDGET:

Rev: 06.20.11

		% of Budget
METRO	\$ 1,400,000	100%
GRANTEE	\$ 0,000,000	
OTHER FUNDING	\$ 0,000,000	
Total	\$ 1,400,000	100%

FTIP#: LA0G720 South Bay Measure R Highway Program

Proposed Milestones: The proposed implementation schedule for this project will be as follows:

# MILESTONES:

	START DATE	COMPLETION DATE
PLANNING		
Prepare Concept Report		
Prepare Feasibility Study		
Prepare Project Study Report		
Intelligent Transportation System (ITS)		
Feasibility Study		
Concept Exploration		
PRELIMINARY DESIGN		
Prepare Detailed Design Plans		
Prepare Detailed Construction Plans		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS)		
Concept of Operations		
System Requirements		
High Level Design		
PA&ED		
Prepare Environmental Document		
Document Type:		
Scoping		
Technical Studies		
Draft Environmental Document		
Final Environmental Document		
Community Outreach		
Secure Project Approval		
Intelligent Transportation System (ITS)		
Categorical Exemption Filing		
PS&E	Oct 1, 2011	June 30, 2013
35% PS&E		
Preliminary Investigations		
Preliminary Foundation		
Geometric Drawings		
Bridge Type Selection Roadway and		
Retrofit Strategy		
ADL Review		
Utilities		
Right-of-Way		
Estimating		
Civic Design		
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Software Specifications		
Project Review & Comments		

65% PS&E		
Civil Design Plans		
Right-of-Way Engineering		
Structural Design		
Prepare Project Cost Estimate		
Intelligent Transportation System (ITS		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Project Review & Comments		
95% PS&E		
Civil Design Plans		
Structural Design		
Intelligent Transportation System (ITS)		
Detailed Design		
ITS Drawings		
System Plans		
Communications Plans		
Systems Integrations Plans		
Equipment Specifications		
Software Specifications		
Submittals & Reviews		
Submit Final PS&E		
Outside Agency Review		
RIGHT OF WAY SUPPORT		
Certification/Mapping		
Appraisal		
RIGHT OF WAY ACQUISITION		
Certification/Mapping		
Title Report		
Meet with Property Owners	January 2012	March 2012
Appraisal Appraisal	April 2012	May 2012
Environmental Investigation	April 2012	1VIQY 2012
Closing/Acquire Property/Relocation	June 2012	Dec. 2012
Physical Possession	January 2013	May 2013
Remediation	Sandary 2015	Ividy 2010
Utility Relocation		
Third Party Coordination		
Design Utilities		
Relocate Utilities		
SOLICITATION (BID/PROPOSAL)	Oct. 1, 2012	Jan. 31, 2013
Develop Solicitation Package	Oct. 1, 2012	Jan. 31, 2013
Solicitation Response		
Evaluations Selection		
Selection Page Approval		
Board Approval		
Contract Award Fully Executed Contract		

Rev: 06.20.11

## **CONSTRUCTION MILESTONES:**

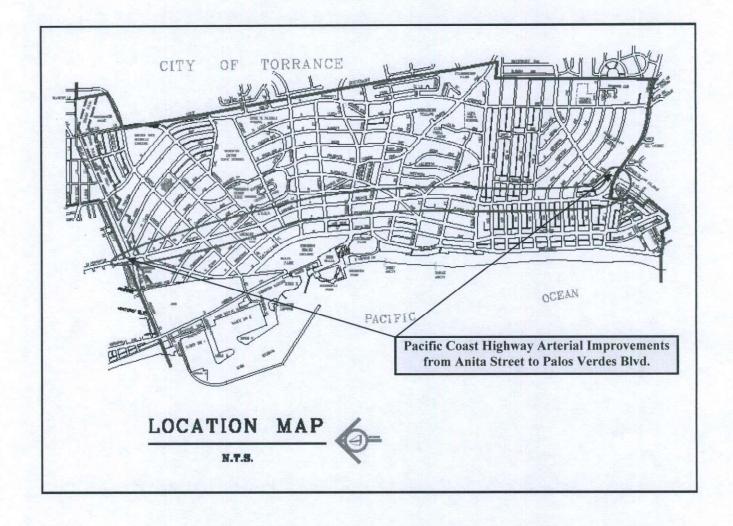
	START DATE	<b>COMPLETION DATE</b>
Excavation	Feb. 1, 2013	June 30, 2014
Clear/Grub		
Survey		
Sample Borings		
Grading		
Compaction		
Drainage		
Environmental		
Hazardous Materials Handling		
Archaeological		
Air Quality Monitoring		
Concrete		
Form Work		
Rebar Placement		
Pole Placement		
Traffic Control		
TMP		
Structural		
False Work		
Iron Placement		
Pole Placement		
Utilities		
DWP		
SCE		
LADOT		
Materials		
Long-Lead Equipment		
Staging		
Material Lay Down Area		
Signage		
Electrical		
Power U/G Communication		
A/G Testing/Acceptance		
Landscape		
Clearing		
Planting		
Plant Establishment		
Irrigation		
Testing		

FTIP#: LA0G720 South Bay Measure R Highway Program

	START DATE	COMPLETION DATE
Change Orders		
P.O. Processing Time		
Weather		
Third Party Issues		
Strike Labor Walk Outs		
Force Majeure		
Claims		
Solicitation (Bid/Proposal)		
Develop Solicitation Package		
Solicitation Response		
Evaluations		
Selection		
Board Approval Process		
Contract Award		
Fully Executed Contract		

\*

# ATTACHMENT C -Location Map(s)



# FA SOUTH BAY MEASURE R HIGHWAY PROGRAM - ATTACHMENT D REPORTING & ADMINISTRATIVE GUIDELINES

#### REPORTING PROCEDURES

- Monthly Progress Report (Attachment D1) and Quarterly Expenditure Report
  (Attachment D2) are required for all projects. The Grantee shall be subject to and comply
  with all applicable requirements of the funding agency regarding project-reporting
  requirements. In addition, Grantee will submit the reports to the LACMTA at P.O. Box
  512296, Los Angeles, CA 90051-0296. Please note that letters or other forms of
  documentation may not be substituted for this form.
- The Monthly Progress Report and the Quarterly Expenditure Report covers all activities related to the project and lists all costs incurred. It is essential that Grantee provide complete and adequate response to all the questions. The expenses listed must be supported by appropriate documentation with a clear explanation of the purpose and relevance of each expense to the project. Expenses must reflect the proportionate share of local match, including in-kind, charged to the grant.
- In cases where there are no activities to report, or problems causing delays, clear explanation, including actions to remedy the situation, must be provided.
- Grantees are required to track and report on the project schedule. LACMTA will monitor
  the timely use of funds and delivery of projects. Project delay, if any, must be reported
  each quarter. Projects not delivered in a timely manner will be reevaluated by LACMTA
  as part of the annual Measure R allocation update process and the Funds may be
  deobligated and reprogrammed by the LACMTA Board.
- The Monthly Progress Report is due to the LACMTA as soon as possible on the last day of
  each month. The Quarterly Expenditure Report is due to the LACMTA as soon as
  possible after the close of each quarter, but no later than the following dates for each fiscal
  year:

Quarter	Report Due Date
July –September	November 30
October - December	February 28
January - March	May 31
April - June	August 31
October - December January - March	February 28 May 31

Upon completion of the Project a final report that includes project's final evaluation must be submitted.

#### **EXPENDITURE GUIDELINES**

Rev: 04.20.11

Any activity or expense charged above and beyond the approved Scope-of-Work (MOU Attachment C) is considered ineligible and will not be reimbursed by the LACMTA unless prior written authorization has been granted by the LACMTA Chief Executive Officer or his designee.

# FA SOUTH BAY MEASURE R HIGHWAY PROGRAM - ATTACHMENT D REPORTING & ADMINISTRATIVE GUIDELINES

- Any expense charged to the grant or local match, including in-kind, must be clearly and directly related to the project.
- Any activity or expense charged as local match cannot be applied to any other LACMTAfunded or non-LACMTA-funded projects; activities or expenses related to a previously funded project cannot be used as local match for the current project.
- Administrative cost is the ongoing expense incurred by the Grantee for the duration of
  the project and for the direct benefit of the project as specified in the Scope-of-Work
  (Attachment C). Examples of administrative costs are personnel, office supplies, and
  equipment. As a condition for eligibility, all costs must be necessary for maintaining,
  monitoring, coordinating, reporting and budgeting of the project. Additionally, expenses
  must be reasonable and appropriate to the activities related to the project.
- LACMTA is not responsible for, and will not reimburse any costs incurred by the Grantee
  prior to the execution of the MOU, unless <u>written authorization</u> has been granted by the
  LACMTA Chief Executive Officer or her designee.
- The MOU is considered executed when the LACMTA Chief Executive Officer or her designee signs the document.

#### **DEFINITIONS**

Rev: 04.20.11

- Local Participation: Where local participation consists of "in-kind" contributions rather than funds, the following contributions may be included:
  - Costs incurred by a local jurisdiction to successfully complete the project.
     Examples include engineering, design, rights-of-way purchase, and construction management costs.
  - Donations of land, building space, supplies, equipment, loaned equipment, or loaned building space dedicated to the project.
  - Donations of volunteer services dedicated to the project.
  - A third-party contribution of services, land, building space, supplies or equipment dedicated to the project.
- Allowable Cost: To be allowable, costs must be reasonable, recognized as ordinary and necessary, consistent with established practices of the organization, and consistent with industry standard of pay for work classification.
- Excessive Cost: Any expense deemed "excessive" by LACMTA staff would be adjusted to reflect a "reasonable and customary" level. For detail definition of "reasonable cost", please refer to the Federal Register OMB Circulars A-87 Cost Principals for State and Local Governments; and A-122 Cost Principals for Nonprofit Organizations.
- In-eligible Expenditures: Any activity or expense charged above and beyond the approved Scope-of-Work is considered in eligible.

LACMTA
(FA)South Bay Measure R Funding Agreement - ATTACHMENT D1
MONTHLY PROGRESS REPORT

	Grantee To Complete
Invoice #	
Invoice Date	
FA#	
Monthly Report #	

GRANTEES ARE REQUESTED TO MAIL THIS REPORT TO P.O. Box #512296, Los Angeles, CA 90051-0296 after the close of each month. Please note that letters or other forms of documentation may not be substituted for this form. Refer to the Reporting and Expenditure Guidelines (Attachment D) for further information.

TION 1: GENERAL INFORMATIO	ON	表 Ko 基础是 MAM	STATE STATE		
JECT TITLE:					256
		- Mile			
THLY REPORT SUBMITTED FO	OR: Month:	Year:			
E SUBMITTED:					
E SOBMITTED.					
	Name:				
LACMTA Area Team Representative / Project	Department:				
	Phone Number:				
	e-mail:				
	Contact Name:				
	Job Title:				
	Department:				
GRANTEE Contact / Project Manager	City / Agency:				
	Mailing Address:				
	Phone Number:				
	11.				

(FA)South Bay Measure R Funding Agreement - ATTACHMENT D1
MONTHLY PROGRESS REPORT
SECTION 3: MONTHLY PROGRESS REPORT

1. DELIVERABLES & MILESTONES

List all deliverables and milestones as stated in the FA, with start and end dates. DO NOT CHANGE THE ORIGINAL FA MILESTONE START AND END DATES BELOW.

Grantees must make every effort to accurately portray milestone dates in the original FA Scope of Work, since this will provide the basis for calculating any project delay. If milestone start and/or end dates change from

those stated in the Original FA S  FA Milestones	Original FA Start Date in Scope of Work (Month/Year) a	Original FA End Date in Scope of Work (Month/Year) b	LACMTA Approved Changes (Months) C	Approved Completion Schedule d=b+c	Current Completion Forecast (Month/Year) e	Schedule Variance (Months) f=e-d	Percent Completed By Time
PLANNING		A TOTAL STATE OF THE STATE OF T				The Market	
Prepare Concept Report							
Prepare Feasibility Study							-
Prepare Project Study Report							
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Concept Exploration							
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Draft Environmental							
Final Environmental	The second second			12 19 19 1			
Community Outreach							
Secure Project Approval							
Intelligent Transportation							
Categorical Exemption							
PS&E							_
35% PS&E				-			
Preliminary Investigations				-			
Preliminary Foundation				-			_
Geometric Drawings							_
Bridge Type Selection ADL Review							
Utilities Right-of-Way							
Estimating							
Civic Design							
Structural Design							
Intelligent Transportation							
Detailed Design							1 75 8 5
ITS Drawings							
System Plans							
Communications Plans							
Systems Integrations Plans	3			N COLUMN TO SERVICE			
Equipment Specifications			50 12 1				
Software Specifications							
Project Review & Comments							
65% PS&E							
Civil Design Plans						V	
Right-of-Way Engineering							
Structural Design							
Prepare Project Cost							
Intelligent Transportation		NOTE OF STREET					-
Detailed Design							
ITS Drawings							
System Plans							
Communications Plans							
Systems Integrations Plans	S						
Equipment Specifications		-					
Software Specifications Project Review & Comments							

LACMTA
(FA)South Bay Measure R Funding Agreement - ATTACHMENT D1

MONTHLY PROGRESS REPOR	Original FA Start Date in Scope of Work (Month/Year) a	Original FA End Date in Scope of Work (Month/Year)	LACMTA Approved Changes (Months)	LACMTA Approved Completion Schedule d=b+c	Current Completion Forecast (Month/Year) e	Schedule Variance (Months) f=e-d	Percent Completed By Time
95% PS&E							
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Structural Design							
Intelligent Transportation							_
Detailed Design							-
ITS Drawings						A REPORT OF THE PARTY OF THE PA	
System Plans							
Communications Plans							
Systems Integrations Plans							
Equipment Specifications	In a second transvi						
Software Specifications							
Submittals & Reviews							
Submit Final PS&E							
Outside Agency Review			ALCOHOLD VALLE				
ROW					Electrical Edition		
Certification/Mapping							
Title Report							
Meet with Property Owners				La la linea ( La			
Appraisal							
Environmental Investigation							
Closing/Acquisition/Relocation							
Physical Possession							
Remediation							
Third Party Coordination							
UTILITY RELOCATION					THE REAL PROPERTY.		
Third Party Coordination							
Design Utilities							
Relocate Utilities	ALTERNATION NO.		A DINA TELES				
SOLICITATION (BID/PROPOSAL)							
Develop Solicitation Package							
Solicitation Response							
Evaluations							
Selection		THE RESIDENCE	E-Walley Kongo				
Board Approval			F1/2-0-5-1-19				
Contract Award							
Fully Executed Contract		MEDITE HE SELECTION				- W	

LACMTA
(FA)South Bay Measure R Funding Agreement - ATTACHMENT D1

FA Milestones	Original FA Start Date in Scope of Work (Month/Year) a	Original FA End Date in Scope of Work (Month/Year) b	LACMTA Approved Changes (Months) C	LACMTA Approved Completion Schedule d=b+c	Current Completion Forecast (Month/Year)	Schedule Variance (Months) f=e-d	Percent Completed By Time
CONSTRUCTION				THE WHEN IN			
Excavation							The Property of
Clear/Grub							
Survey	Maria Links						
Sample Borings							
Grading							
Compaction							
Drainage							
Environmental							
Hazardous Materials Handling							
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Air Quality Monitoring					La Kaling		
Concrete							
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False Work							
Iron Placement				Market State			
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Utilities							
DWP							
SCE	THE REAL PROPERTY.						
LADOT							
Materials							
Long-Lead Equipment							
Staging							-
Material Lay Down Area							
Signage							-
Electrical							
Power U/G Communications							-
A/G Testing/Acceptance							
Landscape				- 100 PK			
Clearing							
Planting							
Plant Establishment				-			
Irrigation							_
Testing							
Change Orders							
P.O. Processing Time							
Weather Third Party Issues							
Third Party Issues Strike Labor Walk Outs					The state of the		
Force Majeure Claims							
Intelligent Transportation System							The state of the s
Hardware / Software							
Equipment Installations							
Software Development					- E 15 15 15 15 15 15 15 15 15 15 15 15 15		
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Device Testing	MATERIA CONTRACTOR					Harris Inches	
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Final Systems Acceptance			Design Street		THE SHAPE OF THE		
Solicitation (Bid/Proposal)							The State of
Develop Solicitation Package					1 1 2 7 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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Selection							
Board Approval Process				Eurotha C			
Contract Award							
Fully Executed Contract							

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Ahead of original FA schedule  On schedule per original FA schedule  Between 12-24 months behind original so  TASKS / MILESTONES ACCOMPLIST tasks or milestones accomplished  PROJECT DELAY project is delayed, describe reasons to dicated by writing "Same as Previous dicated by writing "Same as Previous the project is delayed (as described in sue(s)  ACTION ITEMS TO RESOLVE DEL the project is delayed (as described in sue(s)  COST SUMMARY  FA Milestones  LANNING A&ED S&E OW Support OW ONSTRUCTION Support ONSTRUCTION Support	ISHED I and progress made the for delay (this month) is Month"  LAY In #4), include action is	LACMTA Approved	Less than 12 months  More than 24 months  I to schedule dela  Will be, undertake Targeted Resolut  Current Approved Budget	s behind original sched	he same reason	as mentioned in p	
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project is delayed, describe reasons of idicated by writing "Same as Previous delayed by writing "Same as Previous	LAY In #4), include action if	LACMTA Approved	vill be, undertake Targeted Resolu Current Approved Budget	n to resolve the de ation/Response D	lay. ate	as mentioned in p	
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ACTION ITEMS TO RESOLVE DEL the project is delayed (as described in sue(s)  COST SUMMARY  FA Milestones  LANNING A&ED S&E OW Support OW ONSTRUCTION Support ONSTRUCTION	LAY In #4), include action it	LACMTA Approved Changes	Current Approved Budget	tion/Response D	ate		Percent
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his Risk Register shall include a listin	ng of potential project	risks. Identify project ris	ks and provide a	description of ind	vidual risk event	ts or unplanned e	vents that may
	Risk Event	Risk Potential (Low/Medium/High)		on Strategies		tion	Outcome
nvironmental	KISK EVEIL	(Low/Mediani/riigii)	Nisk Willigati	on otrategies	A		Julionia
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onstruction							
id/Award hird Party							
mu ratty.							
certify that I am the responsible Proje		officer and representative to the best of my knowle		e information			
tated in this report is true and correct.		to the best of my knowle	aye and belief th	e illolliation			

LACMTA
(FA) South Bay Measure R Funding Agreement - ATTACHMENT D2
QUARTERLY EXPENSE REPORT

Grantee To Cor	mplete
Invoice #	
Invoice Date	
FA#	
Quarterly Report #	

# GRANTEES ARE REQUESTED TO MAIL THIS REPORT TO P.O. Box #512296, Los Angeles, CA 90051-0296 after the close

of each quarter, but no later than <u>November 30</u>, <u>February 28</u>, <u>May 31</u> and <u>August 31</u>. Please note that letters or other forms of documentation may <u>not</u> be substituted for this form. Refer to the Reporting and Expenditure Guidelines (Attachment D) for further information.

#### SECTION 1: QUARTERLY EXPENSE REPORT

Please itemize grant-related charges for this Quarter on Page 5 of this report and include totals in this Section.

	LACMTA Measure R Grant \$	LACMTA Prop C 25% \$	Other Funding %	Total \$
Project Quarter Expenditure				
This Quarter Expenditure				0
Retention Amount				0
Net Invoice Amount (Less Retention)		A street of		0
Project-to-Date Expenditure				
Funds Expended to Date (Include this Quarter)				0
Total Project Budget				0
% of Project Budget Expended to Date				0
Balance Remaining				0

(FA) South Bay Measure R Funding Agreement - ATTACHMENT D2
QUARTERLY EXPENSE REPORT

**SECTION 2: GENERAL INFORMATION** PROJECT TITLE: FA #: QUARTERLY REPORT SUBMITTED FOR: 2013-2014 2014-2015 2012-2013 Fiscal Year: 2011-2012 2018-2019 2016-2017 2017-2018 2015-2016 Q1: Jul - Sep Q2: Oct - Dec Quarter: Q3: Jan - Mar Q4: Apr - Jun DATE SUBMITTED: Name: **LACMTA Area Team** Representative / Project Area Team: Phone Number: Mgr. e-mail: Contact Name: Job Title: Department: **GRANTEE Contact /** City / Agency: **Project Manager** Mailing Address: Phone Number: e-mail:

(FA) South Bay Measure R Funding Agreement - ATTACHMENT D2
QUARTERLY EXPENSE REPORT

**SECTION 3: PROGRESS REPORT** 

1. TASKS / MILESTONES ACCOMPLISHED

List tasks or milestones accomplished and progress made this quarter.

### 2. PROJECT DELAY

If project is delayed, describe reasons for delay (this quarter). Pay particular attention to schedule delays. If delay is for the same reason as mentioned in previous quarters, please indicate by writing "Same as Previous Quarter".

### 3. ACTION ITEMS TO RESOLVE DELAY

If the project is delayed (as described in #4), include action items that have been, or will be, undertaken to resolve the delay.

South Bay Measure R FA - ATTACH D2 - QUARTERLY EXPENSE REPORT

# (FA) South Bay Measure R Funding Agreement - ATTACHMENT D2

QUARTERLY EXPENSE REPORT

# SECTION 4: ITEMIZED LISTING OF EXPENSES AND CHARGES THIS QUARTER

All expenses and charges, including grant and local match, must be itemized and listed below. Each item listed must be verifiable by an invoice and/or other proper documentation. The total amounts shown here must be equal to this quarter's expenditures

ITEM	INVOICE#	TOTAL EXPENSES / CHARGES	\$ CHARGED TO LACMTA GRANT	\$ CHARGED TO LOCAL MATCH
1				
2				
3				
4				
5				
6				
7 .				
8				
9				
10				
11				
12				
13				
14				
TOTAL				

#### Notes:

- 1. Local match spent in each quarter, must be in the appropriate proportion to LACMTA grant.
- 2. All receipts, invoices, and time sheets, attached and included with this Expense Report must be listed and shown under the Invoice Number column of the Itemized Listing (above).

### **Invoice Payment Information:**

LACMTA will make all disbursements electronically unless an exception is requested in writing.

ACH Payments require that you complete an ACH Request Form and fax it to Accounts Payable at 213-922-6107.

ACH Request Forms can be found at www.metro.net/callforprojects.

Written exception requests for Check Payments should be completed and faxed to Accounts Payable at 213-922-6107.

I certify that I am the responsible Proje	act Manager or fiscal officer and representative of and that to the best of my knowledge and belief the information
stated in this report is true and correct.	
Cignoture	Date
Signature	Date

# Los Angeles Metropolitan Transportation Authority

2011 Federal Transportation Improvement Program (\$000)

Implementing Agency Redondo Beach, City of TIP ID LA0G720 SCAG RTP Project #:
Is Model: Model #:
PM: John Mate - (310) 318-0661
Email: john.mate@redondo.org
LS: N LS GROUP#:
Conformity Category: NON-EXEMPT Project Description: F46 - Pacific Coast Highway Arterial Improvements from Anita St. to Palos Verdes Blvd. Study, design, obtain right of way and construct roadway improvements, striping/signal enhancements and other intersection improvements. Project No. MR312.06, FA No. MOU.MR312.06. Postmile: 18.09 to 21.25 Distance: 3.16 Phase: No Project Activity Completion Date 06/30/2013 System :State Hwy Route :1 Air Basin: SCAB Envir Doc: CATEGORICALLY EXEMPT - 06/28/2011 Lane # Extd: Lane # Prop: Imprv Desc: Uza: Los Angeles-Long Sub-Area: Other Sub-Region: South Bay Area Toll Method: Hov acs eg loc: Toll Rate: Toll Colc Loc: Beach-Santa Ana PPNO: Program Code: CAR63 - HWY/RD IMP-LANE ADD w/ NO HOV LANE(S):NRS CTIPS ID: FA #: 10/11 11/12 12/13 13/14 14/15 15/16 BEYOND TOTAL PRIOR PHASE \$140 \$140 \$0 PE Measure R \$504 RW \$504 \$0 \$0 \$756 \$756 CON \$1,400 \$644 \$756 SUBTOTAL \$1,400 TOTAL PE: \$140 TOTAL RW: \$504 TOTAL CON: \$756 - General Comment: South Bay Measure R Project - Mdeling Comment: - TCM Comment: - Narrative: New Project Add funds in 11/12 in ENG for \$140, ROW for \$504
 Add funds in 12/13 in CON for \$756 Total project cost \$1,400 Change reason: New project Total Cost \$1,400 Last Revised Amendment 11-14 - Submitted

FTIP#: LA0G720 South Bay Measure R Highway Program

# ATTACHMENT F SPECIAL GRANT CONDITIONS

LACMTA has asked the South Bay Cities Council of Governments (SBCCOG) to provide program administration and project development and oversight over the Project in conjunction with LACMTA. In order to do so, the SBCCOG shall obtain a copy from LACMTA or through LACMTA's Project Database of each Monthly Progress Report (Attachment D1) and Quarterly Expenditure Report (Attachment D2) at the time Grantee submits the reports to LACMTA. The SBCCOG, through the Monthly Progress Reports, shall monitor progress of the Project schedule and budget and provide periodic reports to LACMTA on the status of the Project. The SBCCOG shall also monitor and report to LACMTA on overall program-level schedule and budget to identify and evaluate any problems that may result in Project delays or cost overruns.

The Monthly Progress Reports (Attachment D1) shall include, but are not limited to, Project progress, use of funds during the previous month, the milestones progress vs. costs, risk management plan, expenditures to date, funds committed and forecast at completion, updated Project schedule vs. Project baseline and identifying any major problems and proposed solutions. If a potential cost overrun is identified, the monthly report must detail the cost overrun and provide a recovery proposal.

The Quarterly Expenditure Reports (Attachment D2) provided by the Grantee to LACMTA shall be used by the SBCCOG for monitoring and reporting program expenditures to LACMTA.

For modifications that affect the terms of this FA, such as changes to project funding, scope or schedule, Grantee must obtain evidence of SBCCOG concurrence to modifications before formally requesting LACMTA for an amendment to this FA in writing.