

**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.

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:

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

By: _____

Phillip A. Washington
Chief Executive Officer

Date: _____

APPROVED AS TO FORM:

RODRIGO CASTRO-SILVA
Acting County Counsel

By: _____


Deputy

Date: 12/3/2020

GRANTEE:

CITY OF REDONDO BEACH

By: _____

William C. Brand
City Mayor

Date: _____

APPROVED AS TO FORM:

By: _____

Michael W. Webb
City Attorney

Date: _____

ATTEST:

By: _____

Eleanor Manzano
City Clerk

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	\$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/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.

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
17. Pacific Coast Highway at Knob Hill Avenue	Signalized
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

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 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		
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	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		
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.

- (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 pre-construction 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.

- 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:

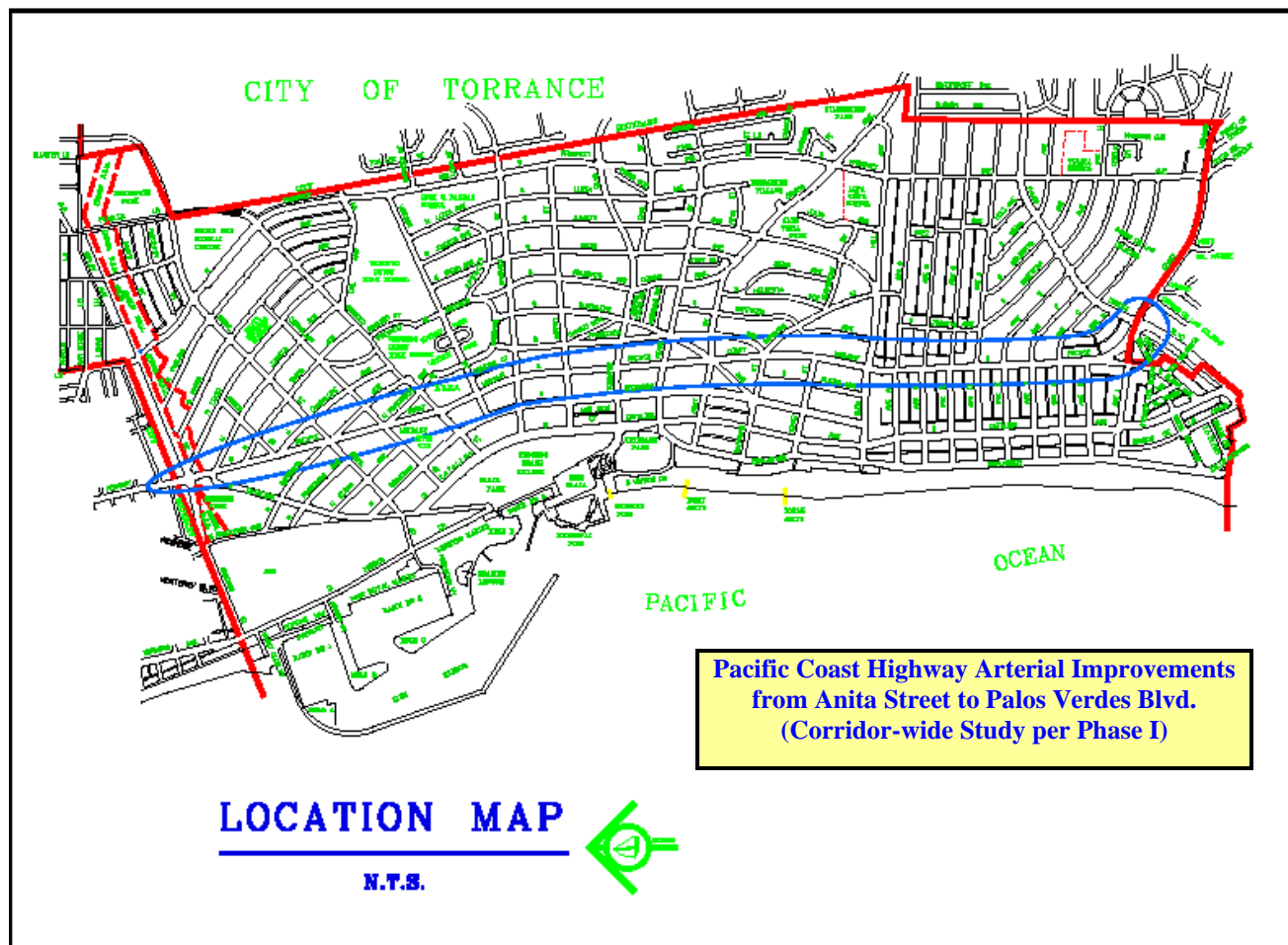
City will acquire necessary easement for the southbound right turn lane from Pacific Coast Highway at Torrance Boulevard, per Phase I, including a corner cutoff. City will solicit necessary support services for the right-of-way negotiations, acquisition and procurement. City will also negotiate with 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-4 -Location Maps

Phase I



Phase II

