

ORANGE COUNTY PUBLIC WORKS

SANTA ANA, CALIFORNIA

SHANE SHILBY, DIRECTOR

PLANS FOR CONSTRUCTION OF

MAINTENANCE OF VARIOUS BRIDGES IN ORANGE COUNTY

PHASE 1 - PROJECT No. 3, LOWER SANTA ANA RIVER AREA W.O. NO. ER09345 **APRIL** 2014

COUNTY OF ORANGE

MAINTAINED BY: COUNTY OF ORANGE

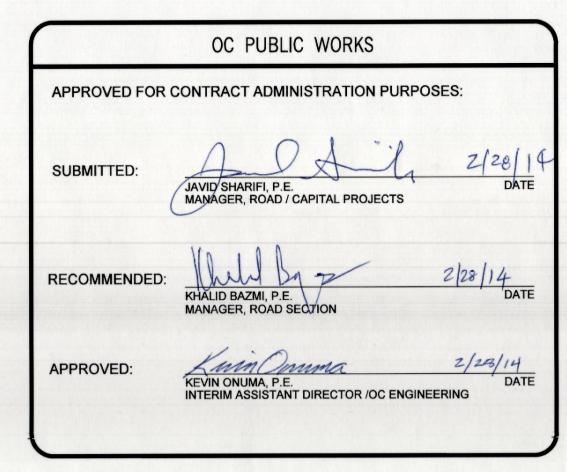
CITY OF COSTA MESA FOR BR. NO. 55C-0103 AND 55C-0344

Resident Engineer: Hamid Abedzadeh

Inspector: Michael Romero/Amit Verma

Contractor: West Coast Structures, Inc. dba Western Structures

Date of Completion: November 4, 2014



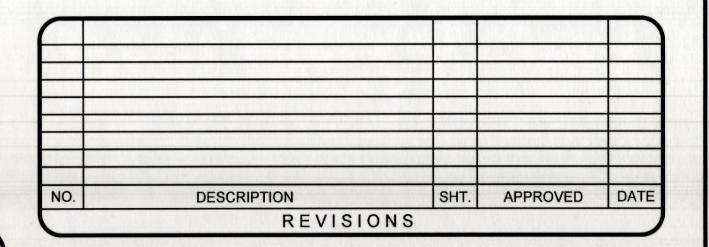
NO AS BUILT CHANGES

UNDERGROUND SERVICE ALERT

CALL 1-800-422-4133 TWO (2)
WORKING DAYS PRIOR TO EXCAVATION

	11	NDEX OF SHEETS
SHEET		DESCRIPTION
1	TITLE SHEET	
2	BR. 55C-0097	GENERAL PLAN
3	BR. 55C-0097	MISCELLANEOUS DETAILS
4	BR. 55C-0103	GENERAL PLAN
5–6	BR. 55C-0103	MISCELLANEOUS DETAILS NO. 1 - 2
7	BR. 55C-0344	GENERAL PLAN
8	BR. 55C-0344	MISCELLANEOUS DETAILS
9	BR. 55C-0371	GENERAL PLAN
10	BR. 55C-0371	MISCELLANEOUS DETAILS
11	BR. 55C-0631	GENERAL PLAN
12–25	TRAFFIC CONTROL	PLANS
26	SANTA ANA RIVER	R TRAIL DETOUR PLAN

Bridge No.	Utility Company	Phone No.	Contact
55C-0097	AT &T	714-237-6945/6947	Bob Steurtevant / Doug Dipaolo
	Orange County Sanitation District	714-593-7242	Rich Leon
	Mesa Water District	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Suneys LLC	951-256-0474	Steve Alfonsi
	Clear Channel	213-305-0045	Kevin Kocic
	City of Fountain Valley	714-593-4433	Temo Galvez
	M Power Communications	949-864-0296	Mark Denning
	SC Gas	714-634-3039	Don Amador
	Time Warner Cable	714-903-4032	Larry Lilly
	Orange County Water District	714-378-3232	Chris Olsen
	Wilcon	951-545-7056	Tameion Saputo
55C-0371	AT &T	714-237-6945/6947	Bob Steurtevant / Doug Dipaolo
	Orange County Sanitation District	714-593-7242	Rich Leon
	Mesa Water District	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Suneys LLC	951-256-0474	Steve Alfonsi
	Clear Channel	213-305-0045	Kevin Kocic
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	M Power Communications	949-864-0296	Mark Denning
	SC Gas	714-634-3039	Don Amador
	Time Warner Cable	714-903-4032	Larry Lilly
	Orange County Water District	714-378-3232	Chris Olsen
	Wilcon	951-545-7056	Tameion Saputo
55C-0103	Orange County Sanitation District	714-962-2411	Rich Leon
	Mesa Consolidated	949-631-1291	Mark Pelka
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Orange County Water District	714-378-3232	Chris Olsen
55C-0344	Southern California Edison	714-895-0363	Cecilia Trentacosta
	Orange County Sanitation District	714-962-2411	Rich Leon
	cox	714-923-2727	Rob Hamers
	AT&T	714-237-6945	Bob Sturtevant
	Mesa Consolidated	949-631-1291	Mark Pelka
	Orange County Water District	714-378-3232	Chris Olsen
55C-0631	Verizon Wireless	818-898-2352	Mathew Kang
-50 0031	Orange County Sanitation District	714-962-2411	Rich Leon
	AT&T	714-237-6945	Bob Sturtevant
	SC Gas	714-634-3039	Don Amador
	Southern California Edison	714-895-0363	Cecilia Trentacosta
	MCI Communications (Verizon Business)	951-536-1200	Dan Garden



W. O. NO. __ER09345

SHEET

LEGEND

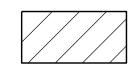
Indicates existing.



Indicates direction of traffic.



Indicates direction of flow.



Indicates limits of clean and treat bridge deck with high molecular weight methacrylate.



Indicates limits of AC departure leveling and repair in kind.



Remove and replace existing striping and pavement markers per "Caltrans Standard Plan A20D Detail 39".



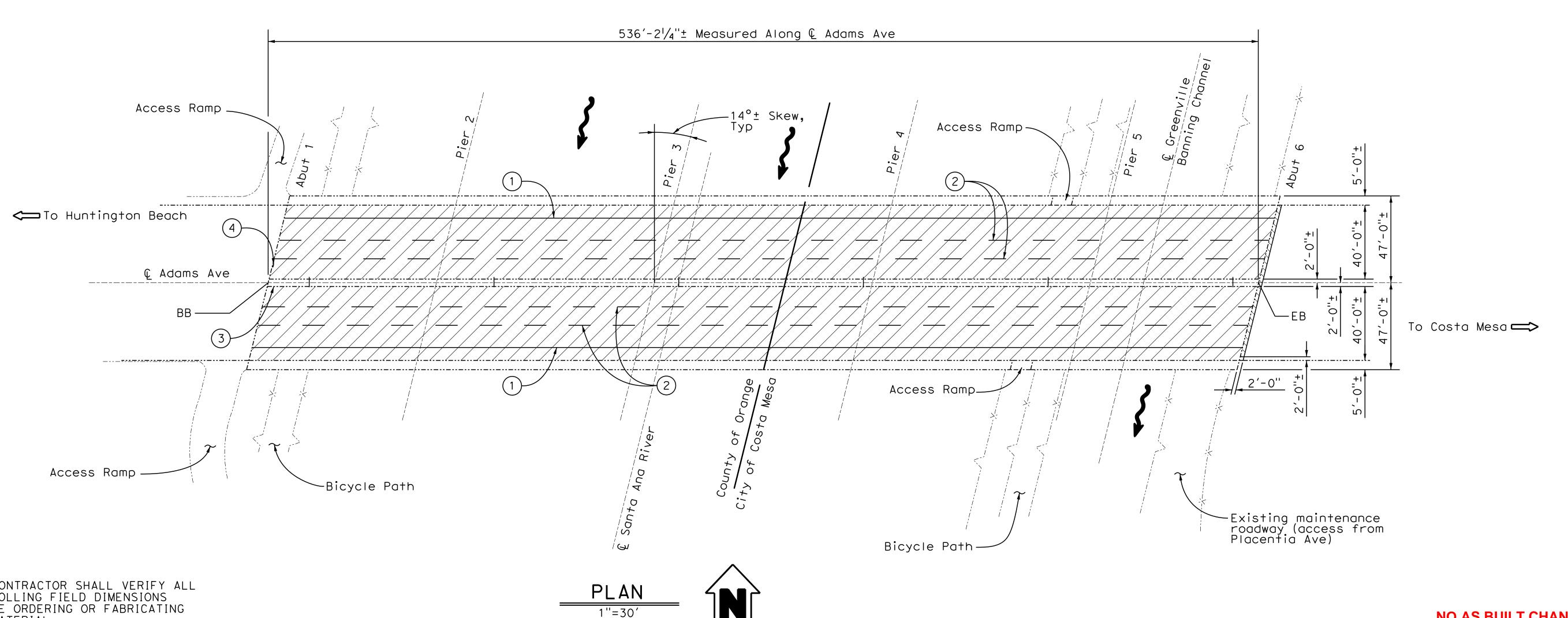
Remove and replace existing striping and pavement markers per "Caltrans Standard Plan A20A Detail 14A".



Repair concrete spall on raised median. See "Median Repair Detail" on "Miscellaneous Details" sheet.



Patch hole $(12"\pm x18"\pm x4"\pm)$ with rapid setting concrete.



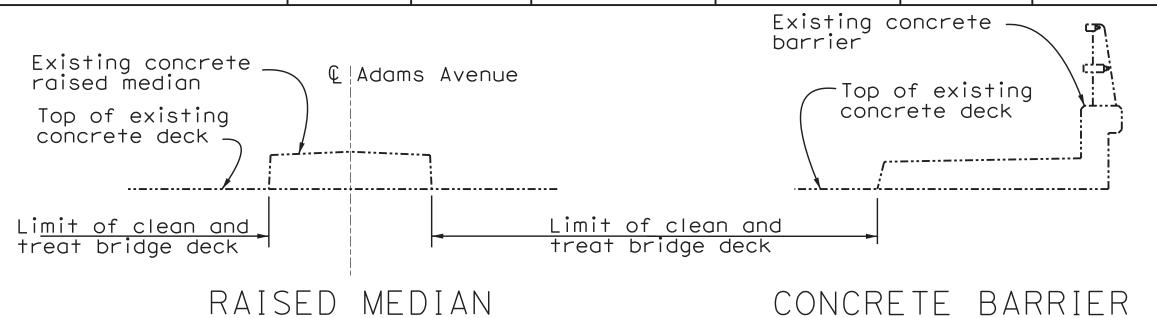
LOWER SANTA ANA RIVER AREA BRIDGES - PHASE I SHEET REFERENCE NUMBER **GENERAL PLAN**

NO AS BUILT CHANGES

SHEET 7 OF 26

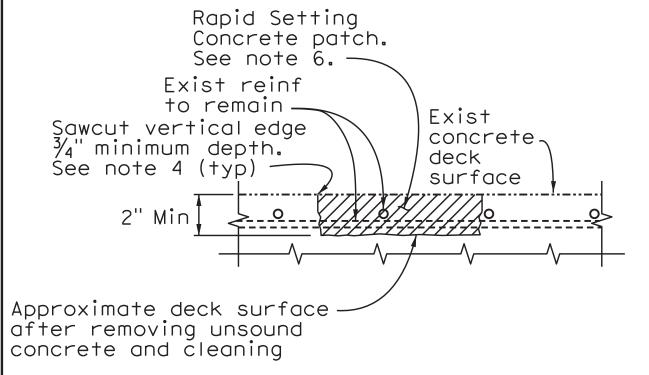
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DECK REPAIR TABLE TOTAL REMOVE APPROXIMATE APPROXIMATE RAPID SETTING DECK UNSOUND BRIDGE BRIDGE NAME AREA DAMAGED CONCRETE PATCH DEPTH NUMBER AREA CONCRETE (INCHES) (CF) (%) (CF) (SQ FT) Adams Avenue Bridge 55C-0344 42,895 143 143 Over Santa Ana River



TYPICAL LIMITS OF DECK WORK

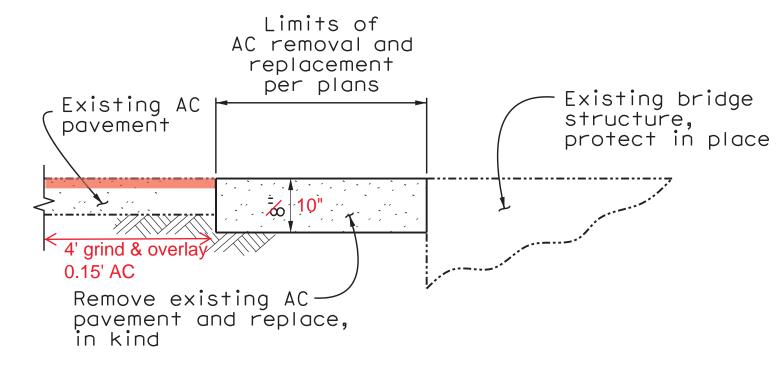
NO SCALE



DECK DAMAGE REPAIR DETAIL

NO SCALE

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



AC LEVELING AND REPAIR DETAIL NO SCALE

Expansion Remove curb & gutter -10" Curb Face Relocate (E) springer head Remove & Patch (see notes 3 & 4) Remove bridge median and curb & gutter. MEDIAN REMOVAL PLAN

3/8" Steel Plate Match exist. $\frac{3}{4}$ "ø x 6" flat head cap curb height screw with insert assemblies (typ.) (Total 6) 10" curb face-(typ.) MEDIAN RECONSTRUCTION PLAN

MEDIAN REPAIR

NO SCALE

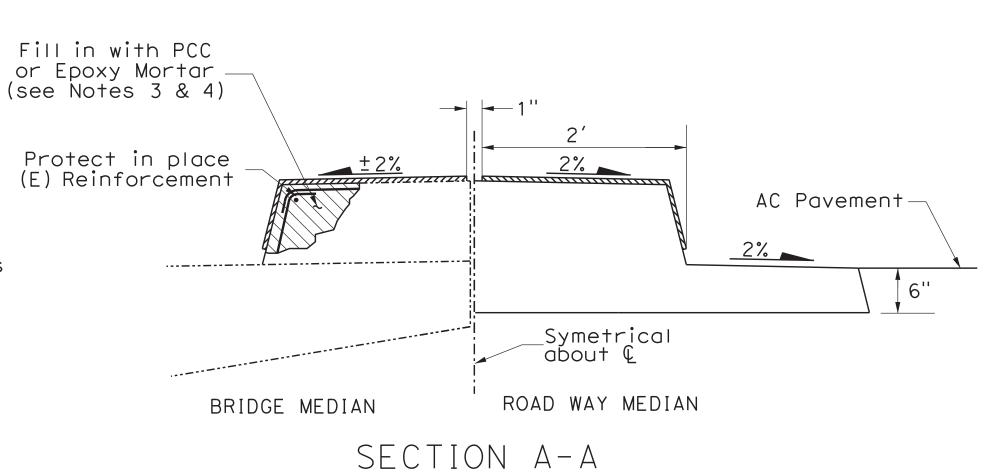
DECK REPAIR NOTES:

- Portlamd cement repairs shall confirm to the sections entitle "Patches", "General Provisions Applicable to All Patches", and "Vertical and Overhead Formed Patches" of the Special Provisions.
- It is responsibility of the Contractorto repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement isexposed in the deck surface, saw cutting shall be waived with the approval of the
- The sawcut depth shall not exceed $\frac{3}{4}$ " or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concreteand unsound concrete patches to exposesound, hard concrete substrate. Replace original deck surface with rapid settingconcrete patch.
- Rapid setting concrete repairs shall conform to the sections entitled "Patches," "General Provisions Applicable to All Patches," and "Rapid Setting Concrete Patches in Deck Surfaces" of the special provisions.

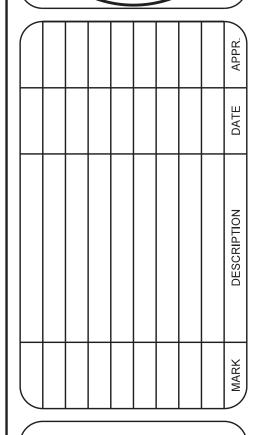
MEDIAN REPAIR NOTES:

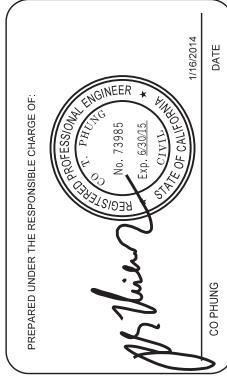
- 1. Sawcut and remove bridge median at the bridge expansion joint and abutment. Cut and heat exposed longitudinal rebar to recess $\frac{1}{8}$ " from the exposed surface and patch the hole with epoxy.
- Remove unsound concrete to expose sound, hard concrete substrate.
- Portland cement concrete repairs shall conform to the section entitled "Patches," "General Provisions Applicable to All Patches," and "vertical and Overhead Formed Patches" of the special provisions.
- Epoxy mortar repairs shall conform to the sections entitled "Patches," "General Provisions Applicable to All Patches," and "Vertical and Overhead Un-Formed Patches" of the special provisions.
- Remove and reconstruct curb and gutter as shown. Sawcut, remove and replace PCC 1' from the edge of gutter.











	DESIGNED BY:	
ZNT≺	C. PHUNG	9
SX XX	DRAWN BY:	СНЕСКЕВ ВҮ:
)	CP/KN	E. FRONDOSO
	DRAWING CODE:	
JECTS	FILE NAME:	
	PLOT DATE: 3/3/2014	SCALE: AS NOTED

CAPTIAL

MAINTENANCE OF VARIOUS RIDGES IN ORANGE COUNTY ADAMS AVENUE BRIDGE OVER SANTA ANA RIVER BR. NO. 55C-0344 LOWER SANTA ANA RIVER AREA BRIDGES - PHASE I

SHEET REFERENCE NUMBER

MISCELLANEOUS

SHEET 8 OF 26

DETAILS

NO AS BUILT CHANGES