

W.O. NO. ER03584
SEPTEMBER 2007

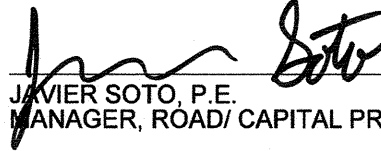
FUNDED BY: COUNTY OF ORANGE
MAINTAINED BY: COUNTY OF ORANGE

No As-Built Changes

AS BUILT

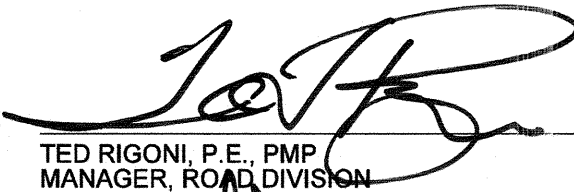
CORRECTIONS BY _____
CONTRACT NO. _____
DATE _____

RESOURCES AND DEVELOPMENT MANAGEMENT DEPARTMENT

SUBMITTED:  JAVIER SOTO, P.E.
MANAGER, ROAD/CAPITAL PROJECTS

 No. 56938
Exp. 6/26/02
CALIF. CIVIL
STATE OF CALIFORNIA

7/23/07
DATE

RECOMMENDED:  TED RIGONI, P.E., PMP
MANAGER, ROAD DIVISION

7/23/07
DATE

APPROVED:  IGNACIO G. OCHOA, P.E.
DIRECTOR PUBLIC WORKS/ CHIEF ENGINEER

7/23/07
DATE

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	DETAIL SIGNING & STRIPING PLAN
3	GENERAL PLAN
4	PILE REPAIR DETAILS
5	PIER RETROFIT DETAILS

UTILITY OWNER	PHONE NO.	CONTACT
SOUTH COAST WATER DISTRICT	(949) 499-4555	BOB CLARK
BP PIPELINES	(562) 499-2216	ROB STREED
THE GAS COMPANY	(714) 634-5016	FRANK WINN
VERIZON	(714) 735-6718	ROBERT FLORES
TIME WARNER CO.	(714) 903-8341	JIM SCOTT
S. CALIFORNIA EDISON CO.	(714) 895-0288	PLANNING SUP.
CITY OF HUNTINGTON BEACH	(714) 536-5341	DAVE WEBB
CITY OF HNTB, WATER DEPT.	(714) 536-5259	STEVE KRIEGER
CITY OF HNTB, SEWER DEPT.	(714) 374-1706	RON RATHBUN

BENCH MARK:

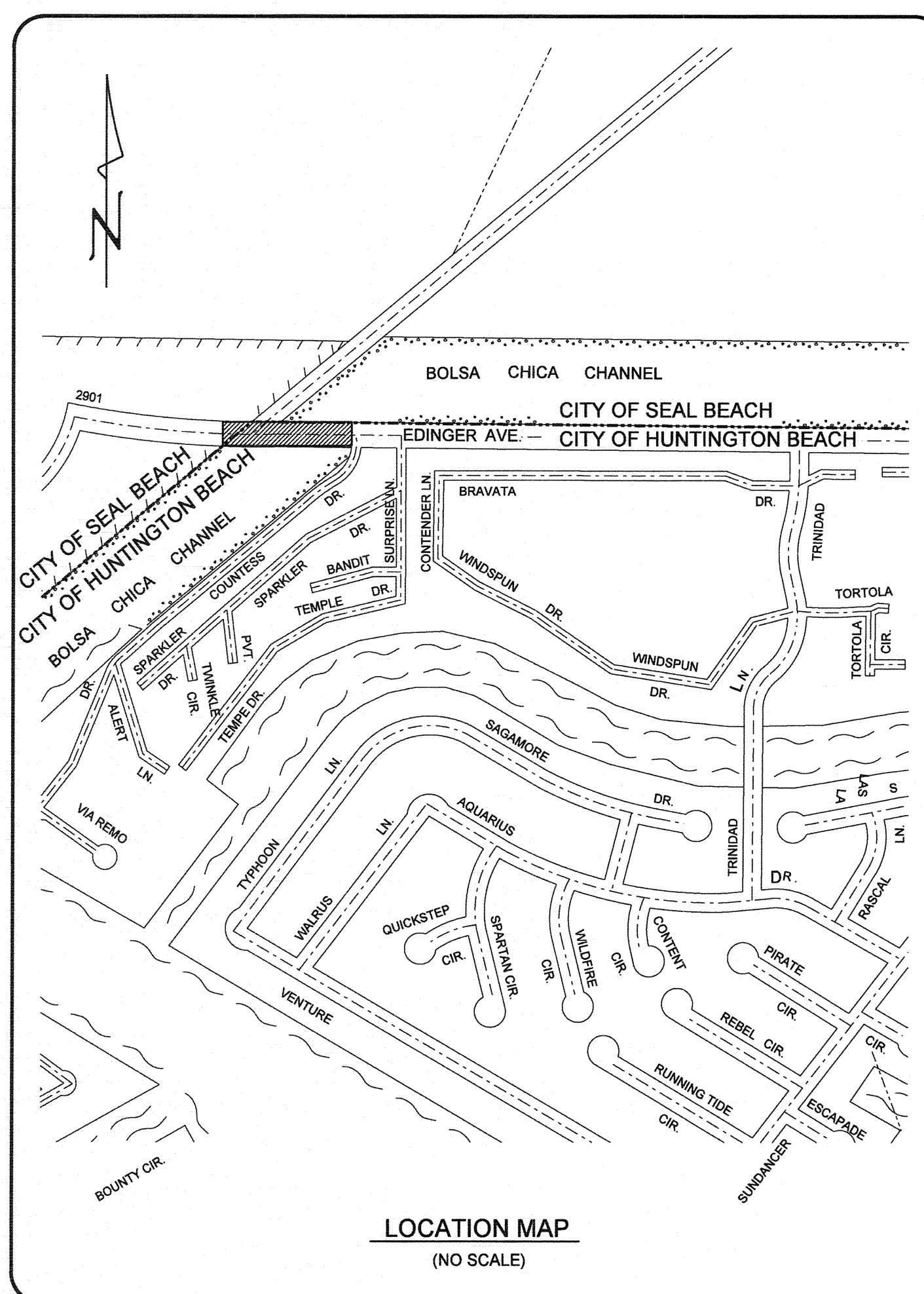
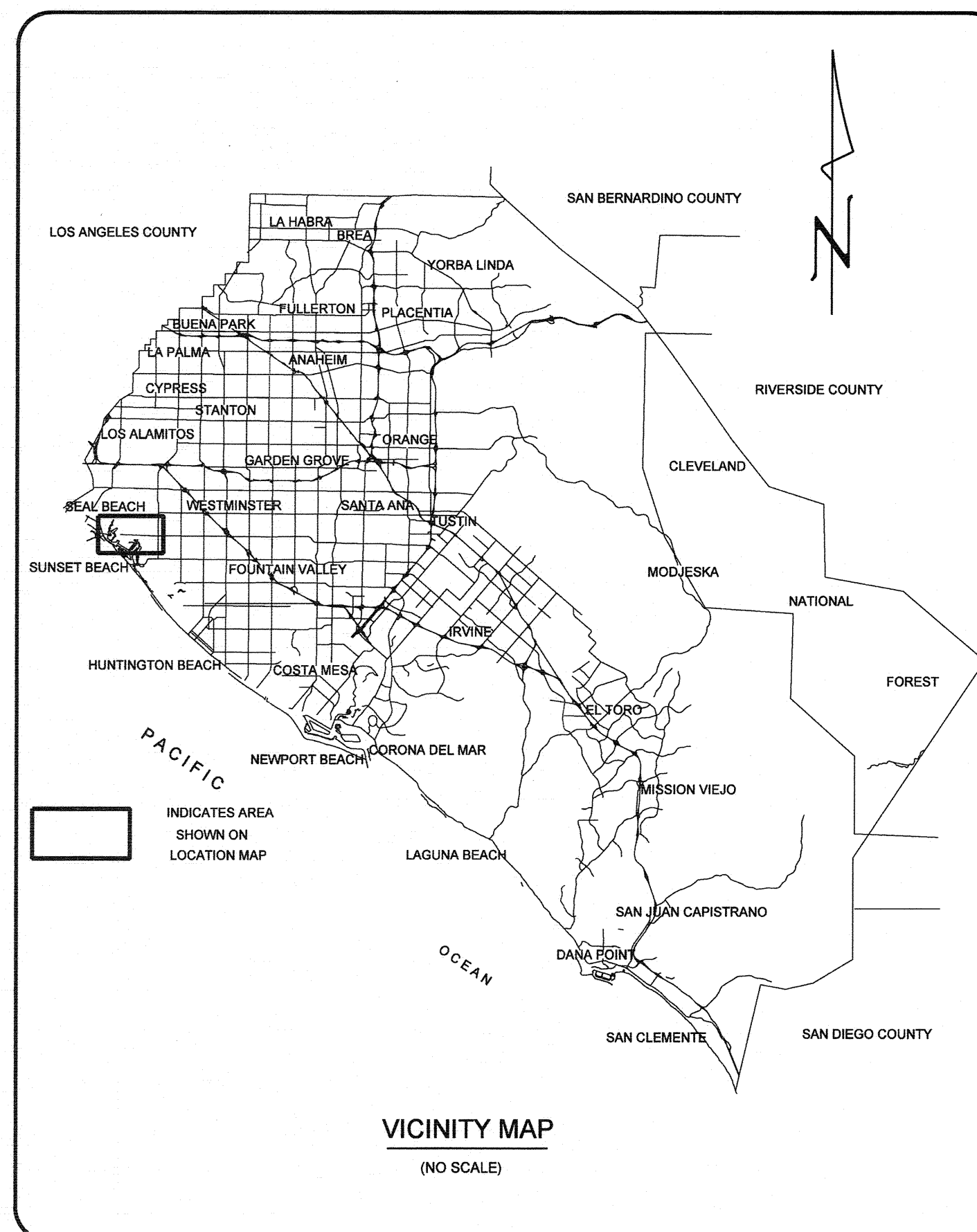
BASIS OF BEARINGS:

[illegible]

W. O. NO. ER03584

DWG. NO.

SHEET 1 OF 5





MARK	DESCRIPTION	DATE	APPR.

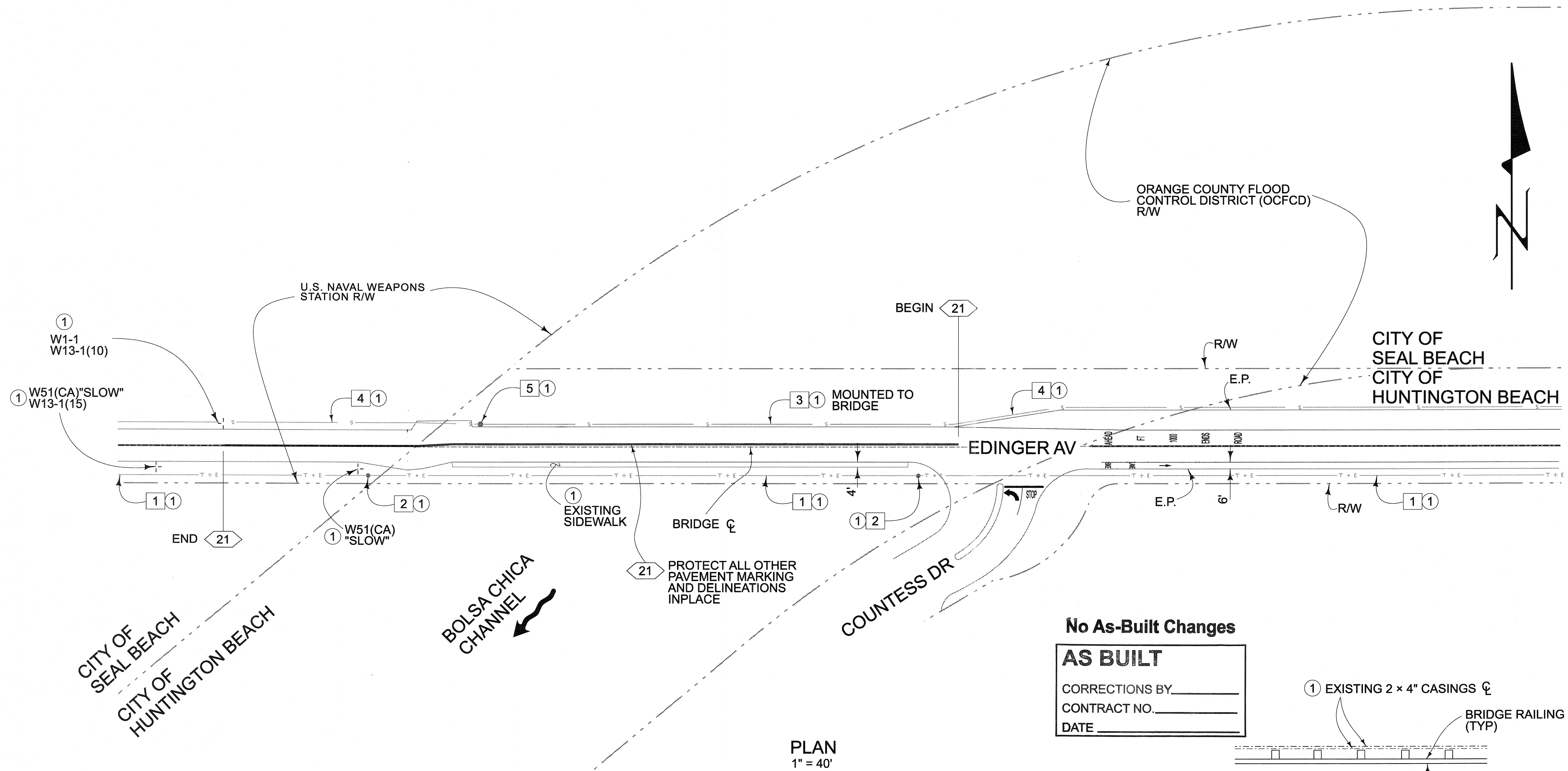
PREPARED UNDER THE RESPONSIBLE CHARGE OF:

R. HOISINGTON
8/13/2007
DATE

DESIGNED BY: C. PHUNG
DRAWN BY: J. VILLALOBOS / C. PHUNG
CHECKED BY: R. HOISINGTON
DRAWING CODE:
FILE NAME:
PLOT DATE: 8/13/2007
SCALE: 1" = 40'

ORANGE COUNTY
RESOURCES & DEVELOPMENT
MANAGEMENT DEPARTMENT
PREPARED BY:
BRIDGE DESIGN SECTION

PILE REPAIR AT BENT 15
FOR THE
EDINGER AVENUE BRIDGE
OVER
BOLSA CHICA CHANNEL



PLAN
1" = 40'

UTILITIES

- 1 EXISTING OVERHEAD POWER & PHONE LINES (SCE + SBC)
- 2 EXISTING POWER POLE (SCE)
- 3 EXISTING CITY OF HB 2 x 2" SEWER FORCEMAIN IN 2 x 4" EXPOSED ENCASINGS MOUNTED TO BRIDGE
- 4 EXISTING CITY OF HB 2x2" & 1x4" UNDERGROUND SEWER FORCEMAIN
- 5 EXISTING CITY OF HB 2x1" AIR VALVE IN 20"Ø EXPOSED VENT PIPE

LEGEND:

- 1 PROTECT IN PLACE
- xx CALTRANS STANDARD PLANS PAVEMENT MARKERS AND TRAFFIC LINES DETAIL NUMBER SHEET A20A & A20B

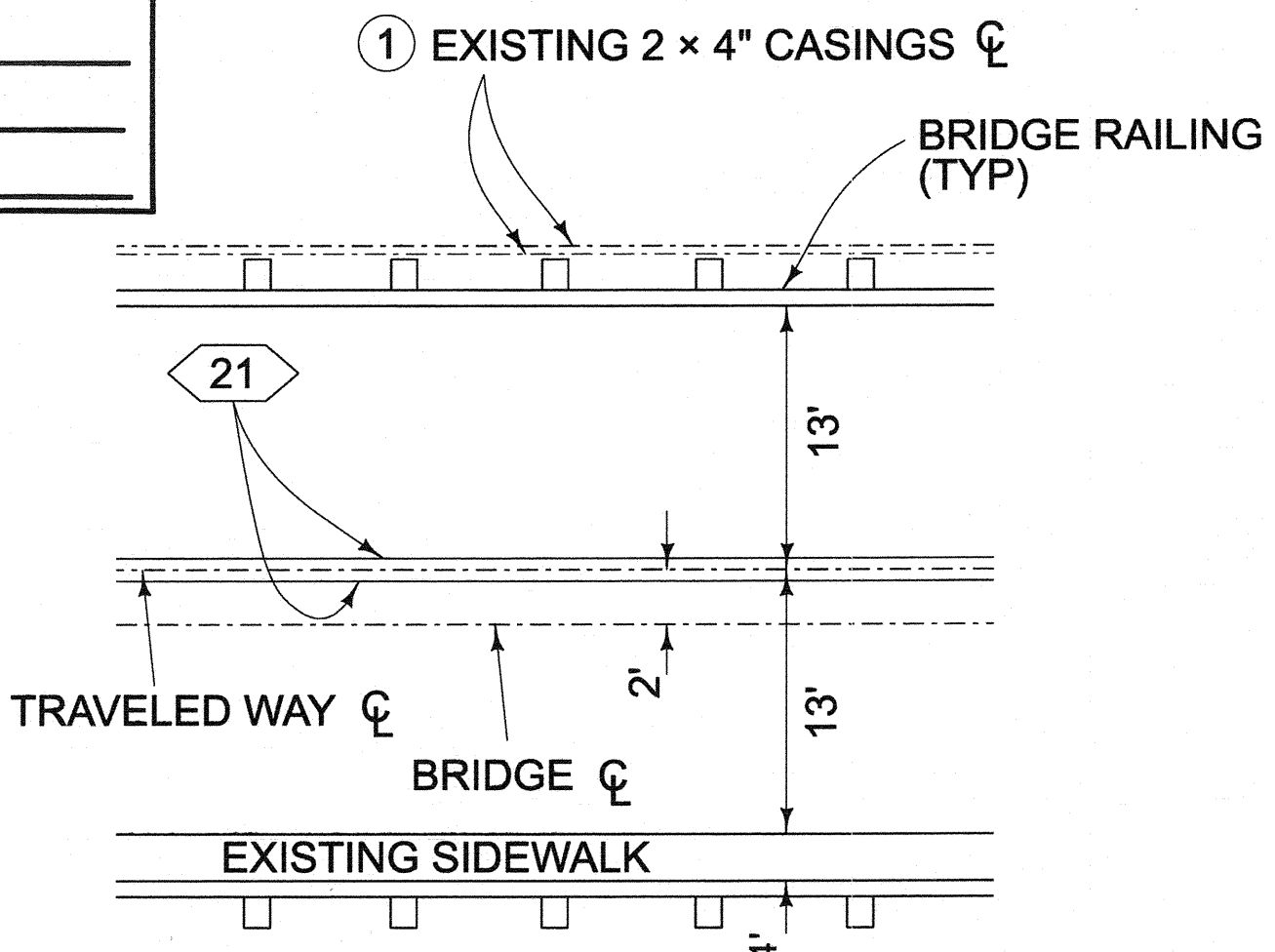
No As-Built Changes

AS BUILT

CORRECTIONS BY: _____

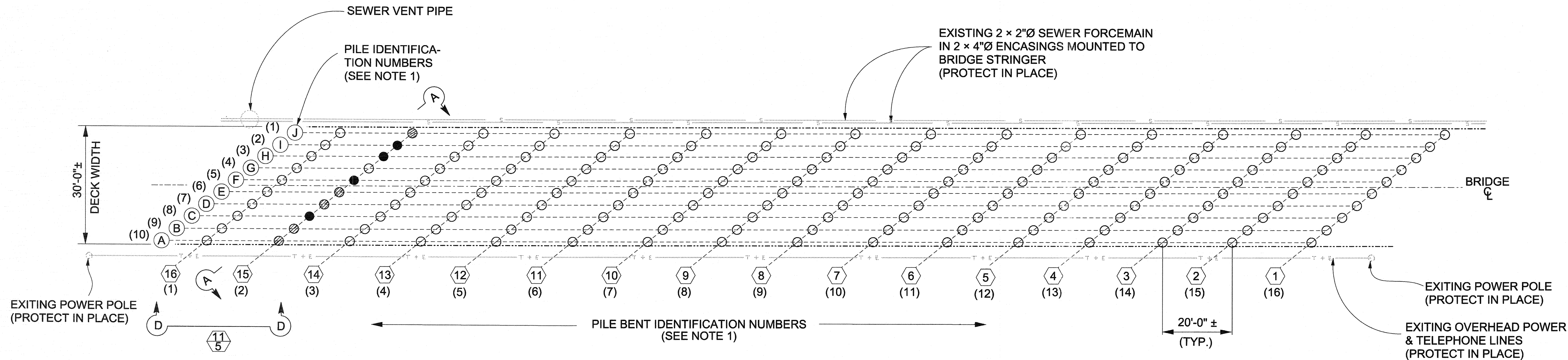
CONTRACT NO. _____

DATE _____



STRIPING DETAIL
NTS

CONSTRUCTION NOTES :
1. ALL SIGNS ARE EXISTING/PROTECT IN PLACE



BRIDGE PLAN

NOT TO SCALE

AS BUILT

CORRECTIONS BY: T. AREOPAGITA/CP

CONTRACT NO. D07-175

DATE August 25, 2008 / August 29, 2008

NOTES:

- BENTS AND PILES ARE NUMBERED TO MATCH THE ORIGINAL BRIDGE DRAWINGS. BENT/PILE NUMBER SHOWN IN PARENTHESIS IS BENT/PILE NUMBER USING CURRENT CALTRANS NUMBERING SYSTEM (AS SEEN ON CALTRANS BRIDGE INSPECTION REPORT).
- INSTALL NEW GALVANIZED HARDWARE FOR POSTED PILES, PILE CAP SPLICE, AND NEW BRACING. NEW GALVANIZED HARDWARE SHALL ALSO BE INSTALLED AT LOOSEENED BRACING WHOSE HARDWARE IS DEEMED UNSUITABLE FOR REUSE BY THE ENGINEER.
- PROTECT ALL EXISTING MEMBERS IN PLACE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHOULD NOTE THAT LOOSENING, HARDWARE REMOVAL/REINSTALLATION, AND RETIGHTENING OF THE EXISTING BRACING ON BENT 15 WILL BE REQUIRED FOR ALL REPAIR METHODS.

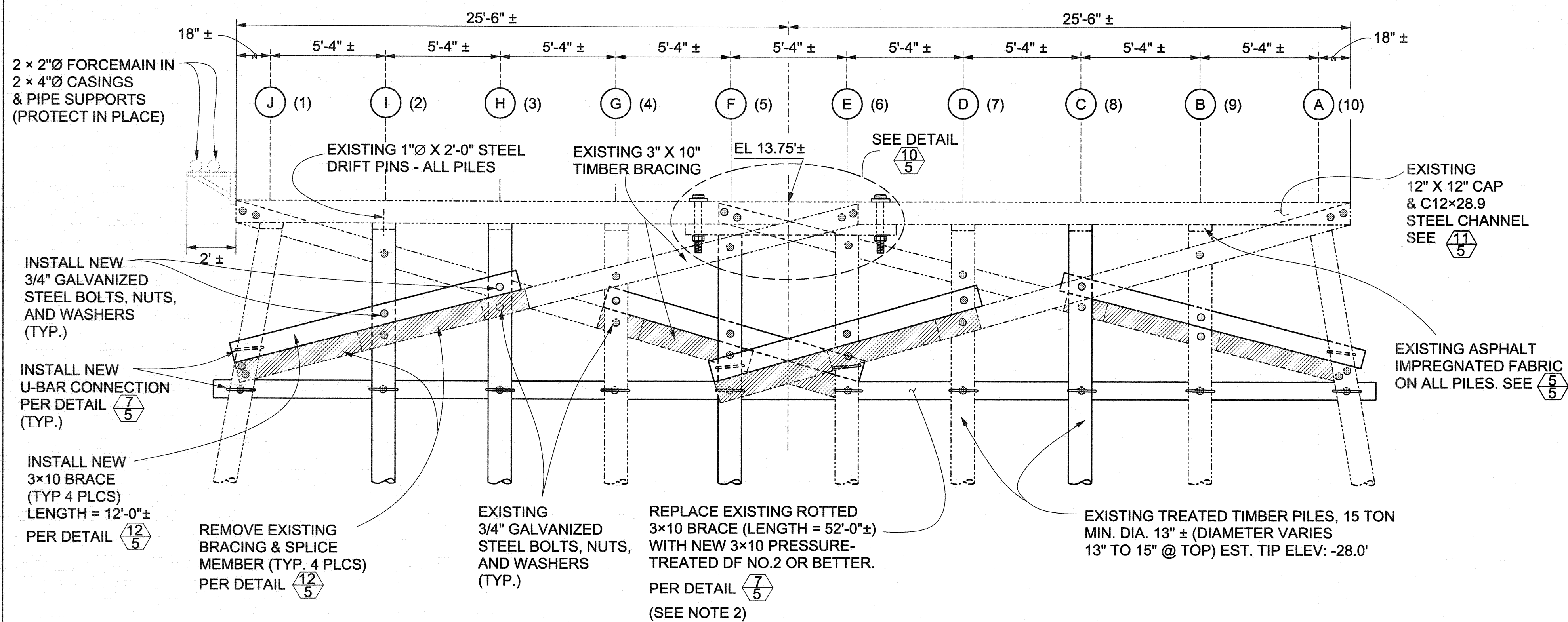
BENT #15 PILE REPAIR METHOD, BY PILE NUMBER & SYMBOL

POST PILE, DETAIL	C, F, H, I (SEE NOTE 2)	● (SEE NOTE 4)
REPAIR PILE, DETAIL	A, B, D, E, J	⊗ (SEE NOTE 4)
WRAP PILE, DETAIL	G, J	○ (SEE NOTE 4)

SEE SHEET 5 AND SPECIAL PROVISIONS FOR REPAIR METHODS.

LEGEND:

- — DETERIORATED PILES
- ⊗ — PARTIALLY DETERIORATED PILES
- — GOOD CONDITION PILES
- ± — INDICATES APPROXIMATE DIMENSION, TO BE VERIFIED BY CONTRACTOR



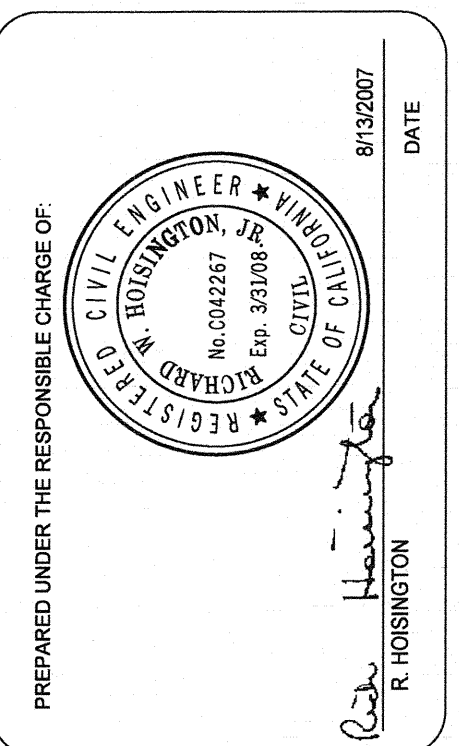
BENT #15 ELEVATION SECTION A-A

NOT TO SCALE

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



MARK	DESCRIPTION	DATE	APPR.



DESIGNED BY: C. PHUNG	CHECKED BY: R. HOVINGTON	FILE NAME: PLOT DATE: 8/13/2007	SCALE: NTS
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT	PREPARED BY: BRIDGE DESIGN SECTION		

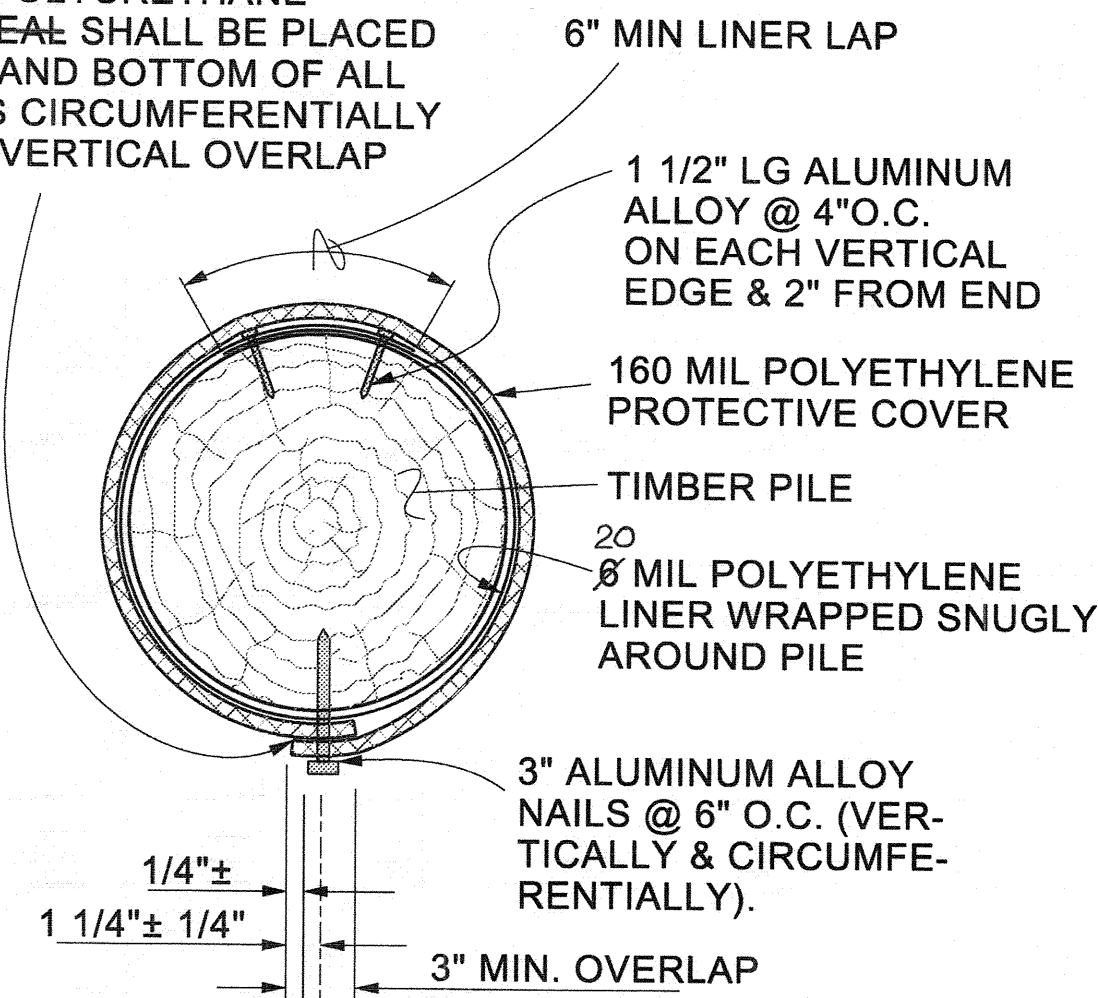
PILE REPAIR AT BENT 15
FOR THE
EDINGER AVENUE BRIDGE
OVER
BOLSA CHICA CHANNEL

SHEET
REFERENCE
NUMBER

GENERAL
PLAN

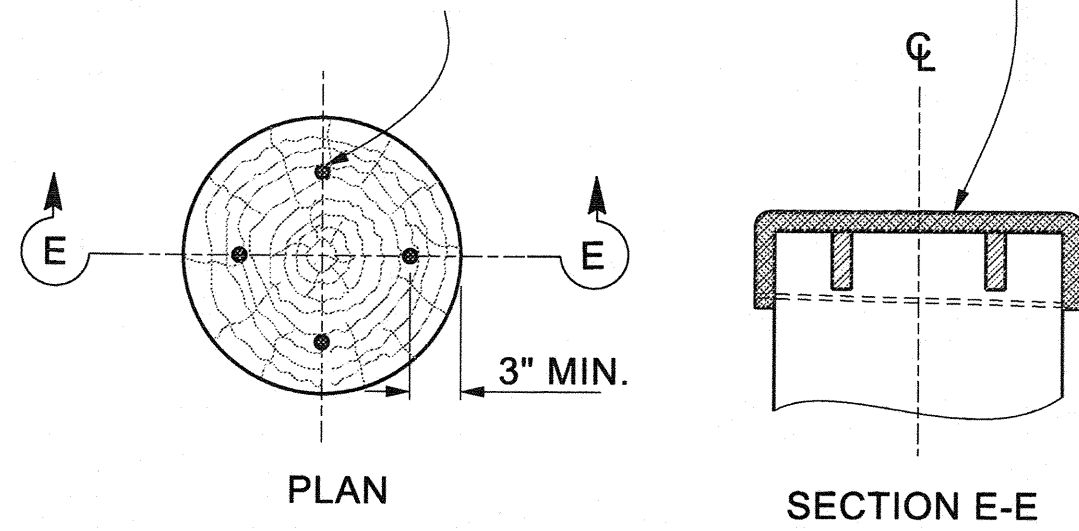
SHEET 3 OF 5

POLYURETHANE CAULKING
~~2"x1/2" POLYURETHANE~~
FOAM SEAL SHALL BE PLACED
AT TOP AND BOTTOM OF ALL
COVERS CIRCUMFERENTIALLY
AND AT VERTICAL OVERLAP

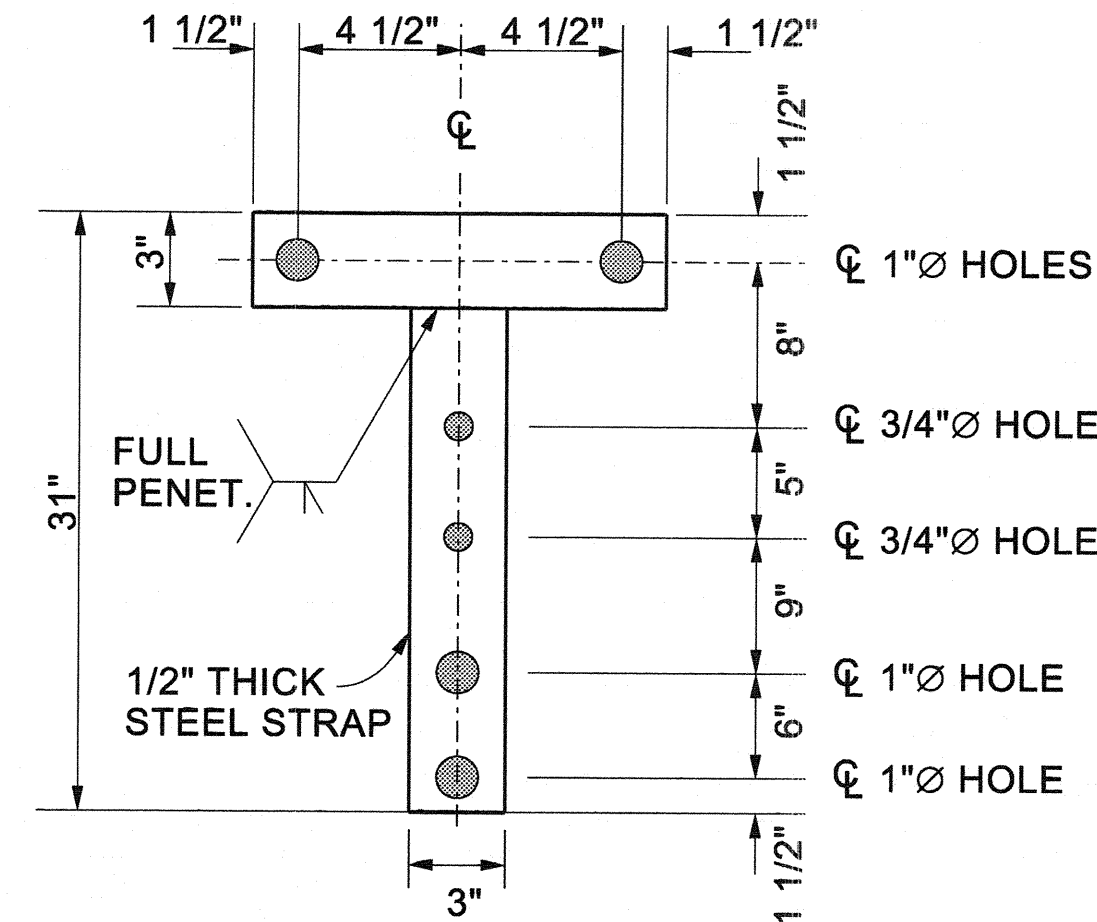


4 SECTION B-B
5 NOT TO SCALE

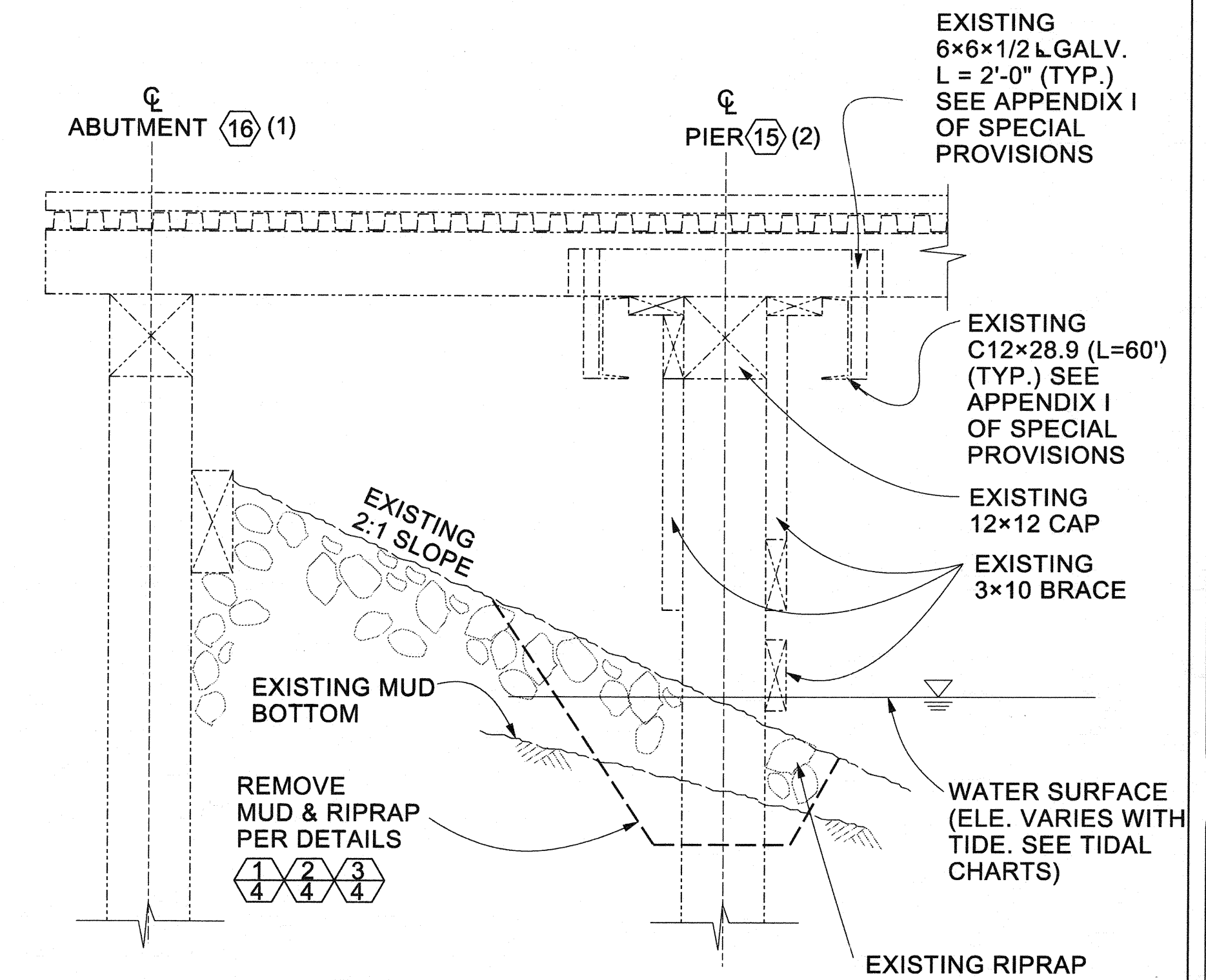
DRILL 1" DIA. HOLES 3" DEEP INTO TOP OF PILE AND FILL HOLES WITH APPROVED PRESERVATIVE. EACH PILE TO HAVE 4 HOLES AT EQUAL SPACING. HOLE TREATMENT REQUIRED FOR THE TOP OF ALL SPLICE PILES. THEN APPLY ASPHALT-IMPREGNATED FELT.



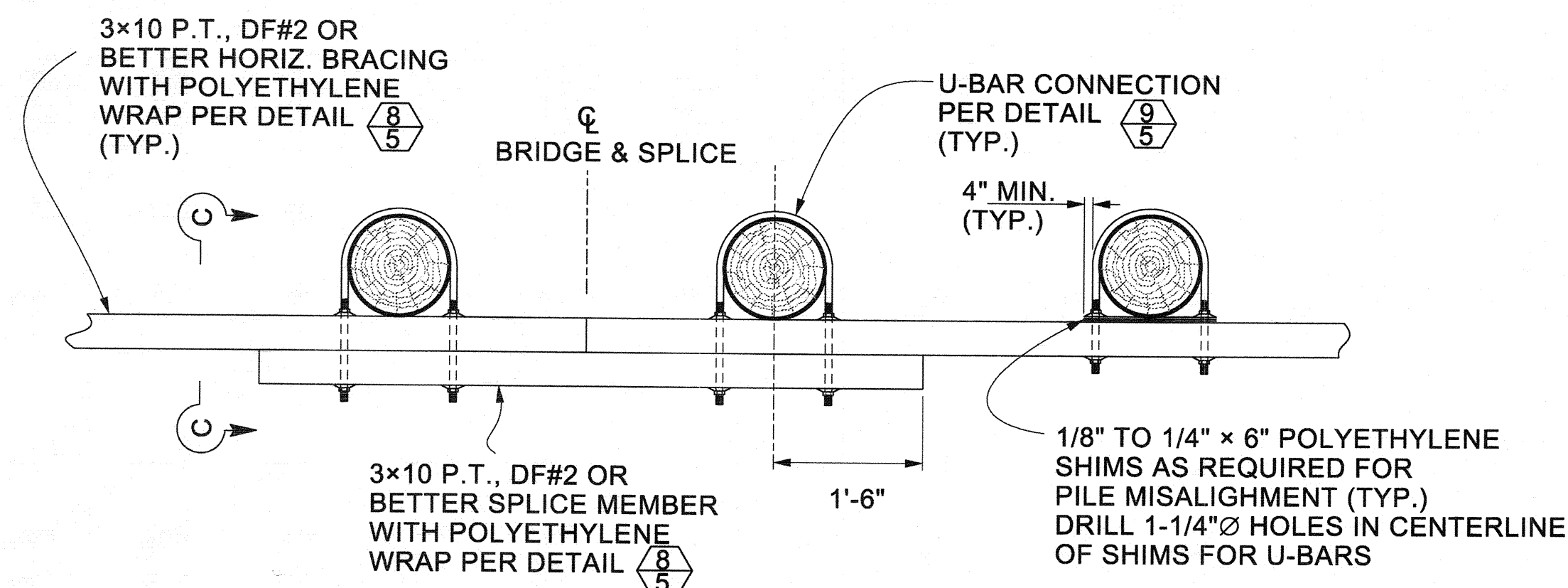
5 PILE TOP TREATMENT
5 NOT TO SCALE



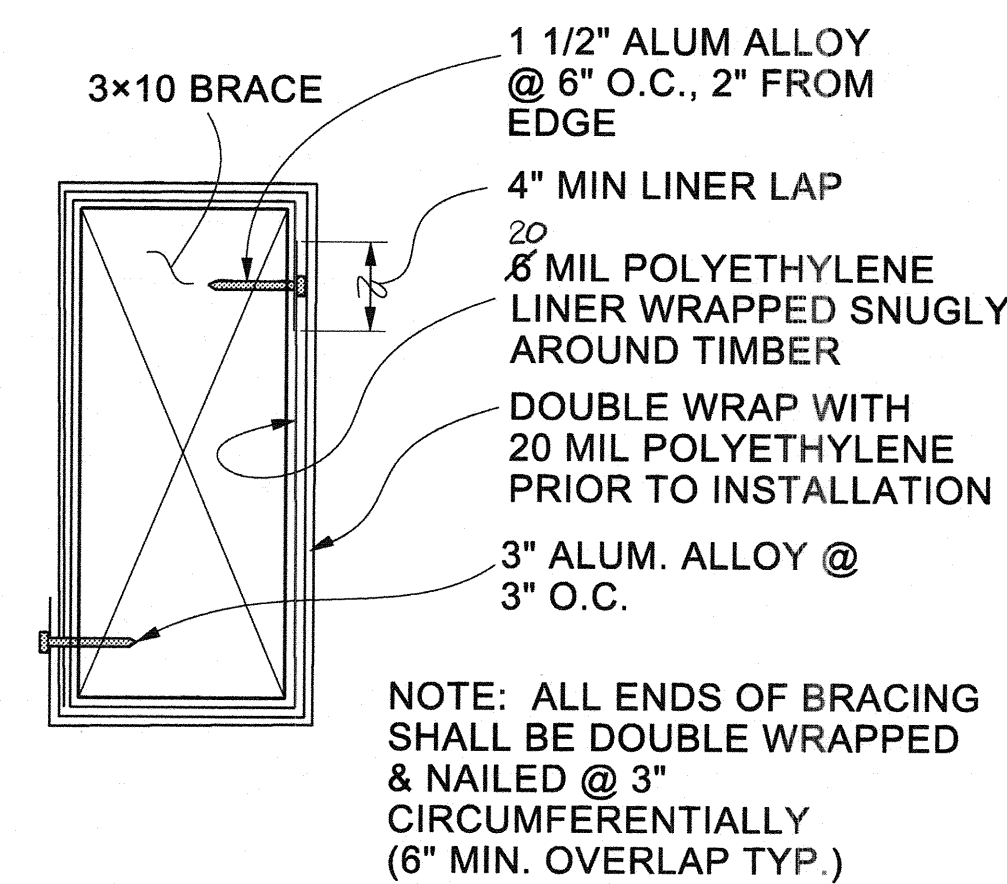
6 **DETAIL - STEEL STRAP**
5 NOT TO SCALE



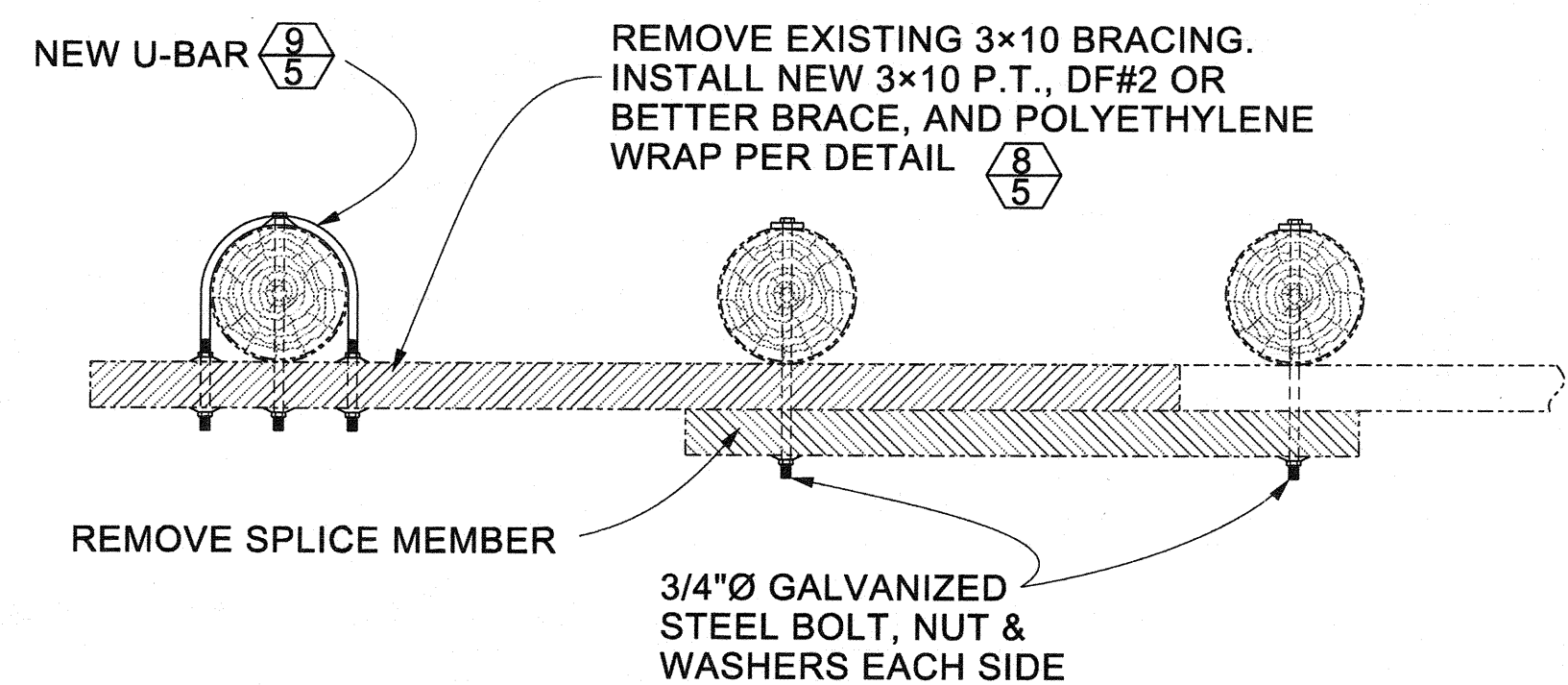
11 **SECTION D-D**
5 NOT TO SCALE



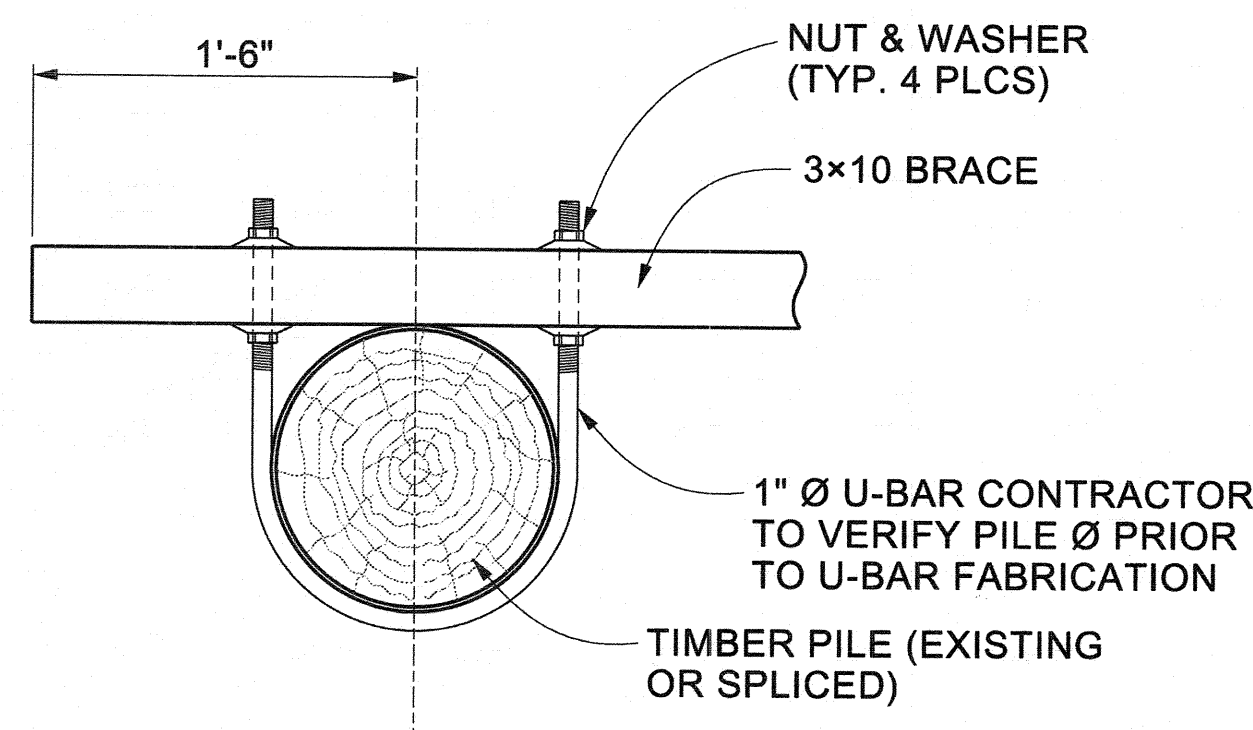
7 HORIZONTAL BRACE SPLICE CONNECTION
5 NOT TO SCALE



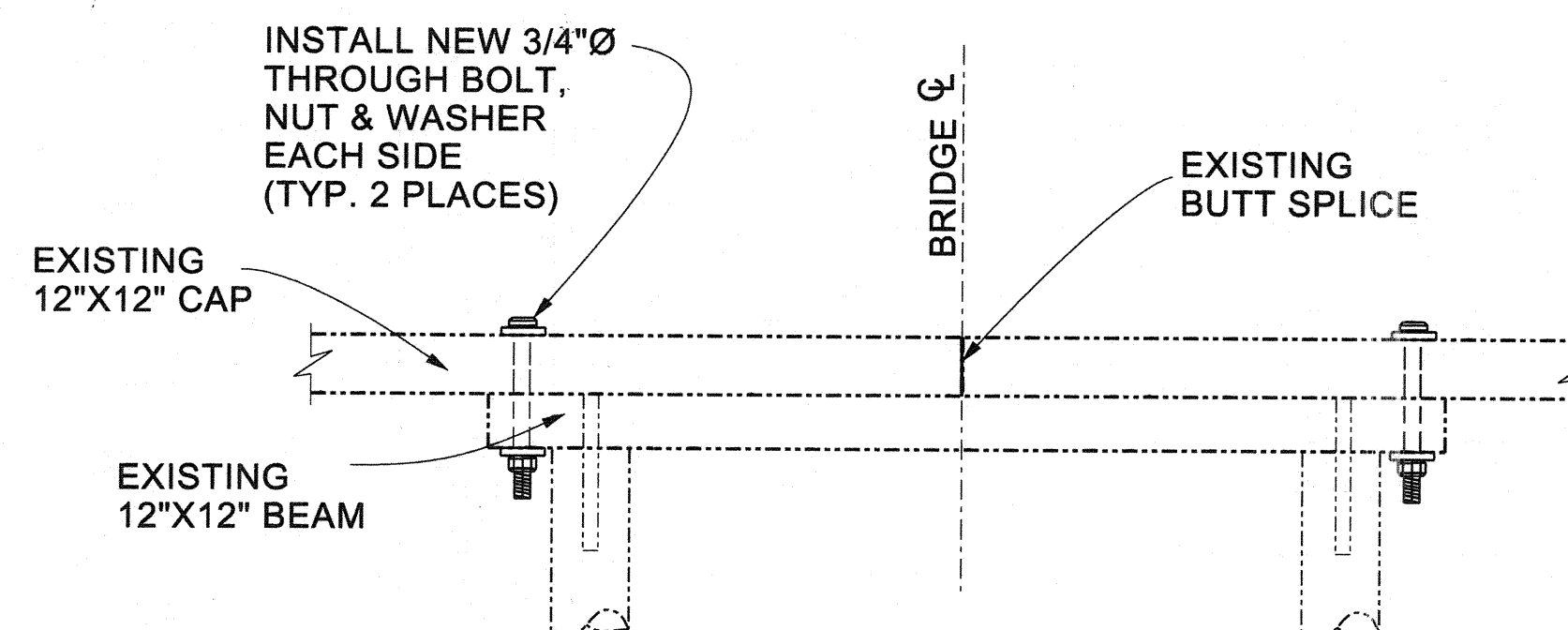
8 SECTION C-C
5 NOT TO SCALE



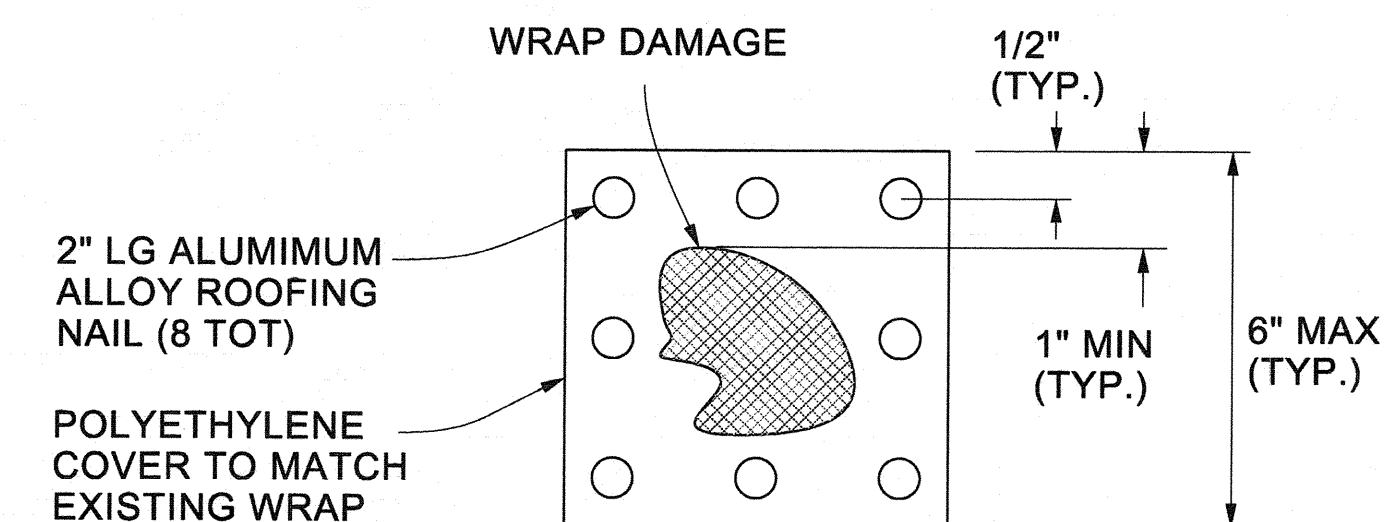
12 **BRACING REMOVALS**
5 NOT TO SCALE



9 U-BAR CONNECTION
5 NOT TO SCALE



10 **PILE CAP SPLICE MODIFICATION**
5 NOT TO SCALE



13 WRAP DAMAGE PATCH

NOTES:

1. FELT DIMENSIONS SHALL BE 6" MORE IN EACH DIRECTION THAN THE DIAMETER OF THE PILE AND SHALL BE TURNED DOWN OVER THE PILE AND THE EDGES SECURED BY BINDING WITH 2 TURNS OF NO. 10 GALVANIZED WIRE.

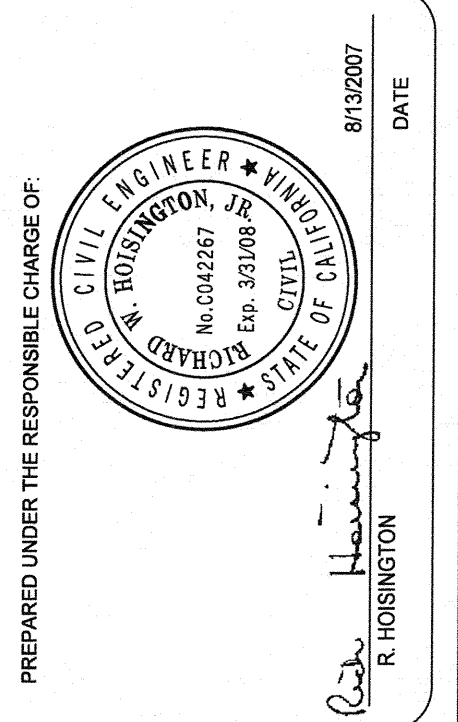
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[illegible]

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT	DESIGNED BY:	C PHUNG
	DRAWN BY:	J. VILLALOBOS/ C PHUNG
	CHECKED BY:	R. HOISINGTON
	DRAWING CODE:	
PREPARED BY: BRIDGE DESIGN SECTION	FILE NAME:	
	PLOT DATE:	8/13/2007
	SCALE:	NTS

PILE REPAIR AT BENT 15
FOR THE
DINGER AVENUE BRIDGE
OVER
BOLSA CHICA CHANNEL

SHEET
REFERENCE
NUMBER

PIER RETROFIT DETAILS

SHEET 5 OF 5