

# ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY

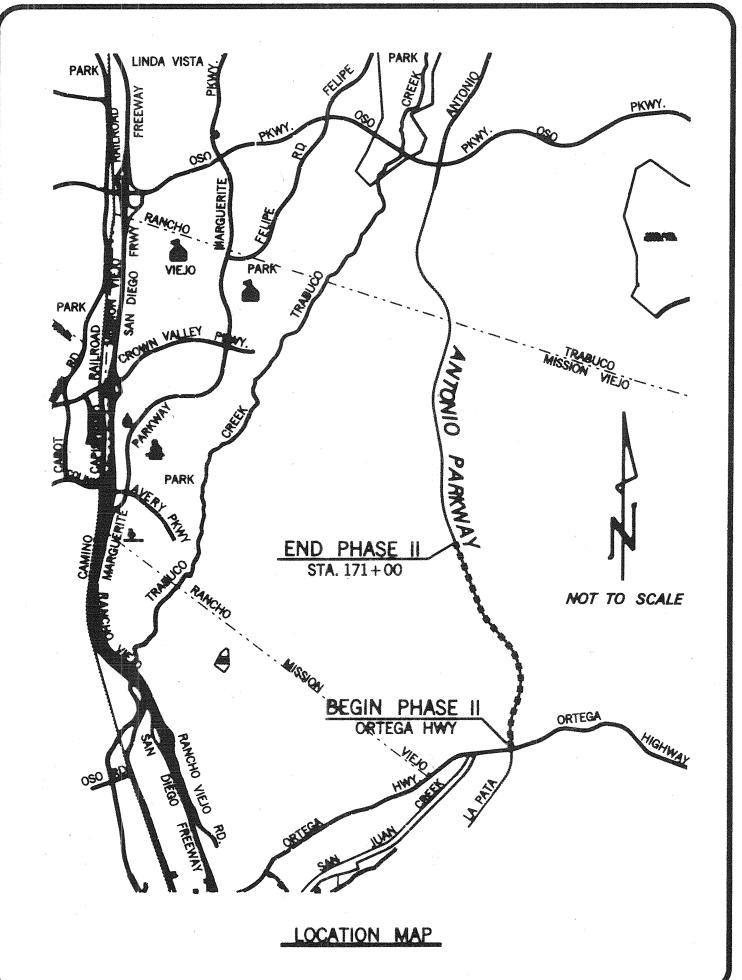
SANTA ANA, CALIFORNIA

JOHN W. SIBLEY, ACTING DIRECTOR

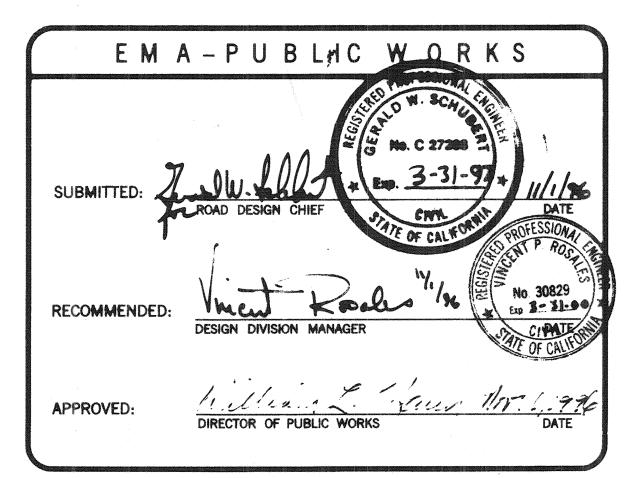
PLANS FOR CONSTRUCTION OF

# ANTONIO PARKWAY

PHASE II
ORTEGA HIGHWAY
TO
8,340 FT NORTHERLY







NO.	DESCRIPTION	SHEETS	APPROVED	DAT
$\Delta$	REVISED HOTE	38,39,40, 41, AND 42	411 of Mansen	12-2
	REVISED SECTION	38,39,40,41,42,46,AND47	4/4 Hobanson	12-2
E	REVISED DETAIL	40,41, AHD 42	S. M. Lohonson	12-2
A	THE REPORT OF THE PARTY OF THE	ADDED 70,80,90,000, inc.	WX Jams	8-14
A	ADDITION OF CIDH @ BENT 2	60 AND 63	WEBUR	10-27-
<b>/</b> 6\	AS BUILT SHOWN	51,52,54264	V ·	
		7,8,9,10,11,21,22,26		
		27,31,32,33,37,44,8688		<u> </u>
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7	INDEX OF SHEETS
SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	CONSTRUCTION NOTES
4	TYPICAL PAYLINE SECTIONS
5	INDEX MAPS
6–11	PLAN SHEETS
12–17	PROFILE SHEETS
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20–25	STORM DRAIN - PLAN
26–31	STORM DRAIN - PROFILE
32	SMWD ACCESS ROAD CULVERT
33–42	DETAIL SHEETS
43–44	CROSS DRAINAGE
45-48	DETAIL SHEETS
49–75	SAN JUAN CREEK BRIDGE
76–78	SDG&E UTILITY DETAILS
79–82	CVWD WATER LINE RELOCATION
83–85	SMWD LAND OUTFALL RELOCATION
86–87	SMWD ACCESS ROAD RELOCATION
88–119	CROSS SECTIONS
120–126	GEOTECHNICAL PLATES

UTILITY OWNER	PHONE NO.	CONTACT
SANTA FE PACIFIC PIPELINE PARTNERS	(714) 560-4944	GEORGE REED
SAN DIEGO GAS & ELECTRIC	(714) 361–8047	PATTI GOOD
THE GAS COMPANY	(714) 634–3041	JIM BEVANS
PACIFIC BELL	(714) 348–0595	SANDY WALTER
PACIFIC BELL	(714) 666–5707	BÎLL LOWING
COX COMMUNICATIONS	(714) 220–8828	MARTY ZUPANCIC
CAPISTRANO VALLEY WATER DISTRICT	(714) 493–1515	CRAIG HARRIS
SANTA MARGARITA WATER DISTRICT	(714) 459–6582	JAIME AGUILAR
SAN JUAN BASIN AUTHORITY	(714) 489–7735	MATT SMITH
SANTA MARGARITA RANCH OPERATIONS	(714) 493–1571	GARY JACKSON

#### BENCH MARK:

THE ELEVATIONS SHOWN HEREON ARE IN TERMS OF THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, BASED LOCALLY UPON THE ORANGE COUNTY SURVEYOR'S 1995
ADJUSTMENT FOR BENCHMARKS OSO-C-91: ELEVATION 540.048' AND Y-312: ELEVATION 282.478'

OSO-C-91 IS AN OSC 3 3/4" ALUMINUM BENCHMARK DISK STAMPED "OSO-C-91" FLUSH IN A CONCRETE CATCH BASIN, ESTABLISHED BY OCS IN 1991

Y-312 IS STANDARD 3" BRONZE DISK ESTABLISHED BY USC & GS IN 1935

#### BASIS OF BEARINGS:

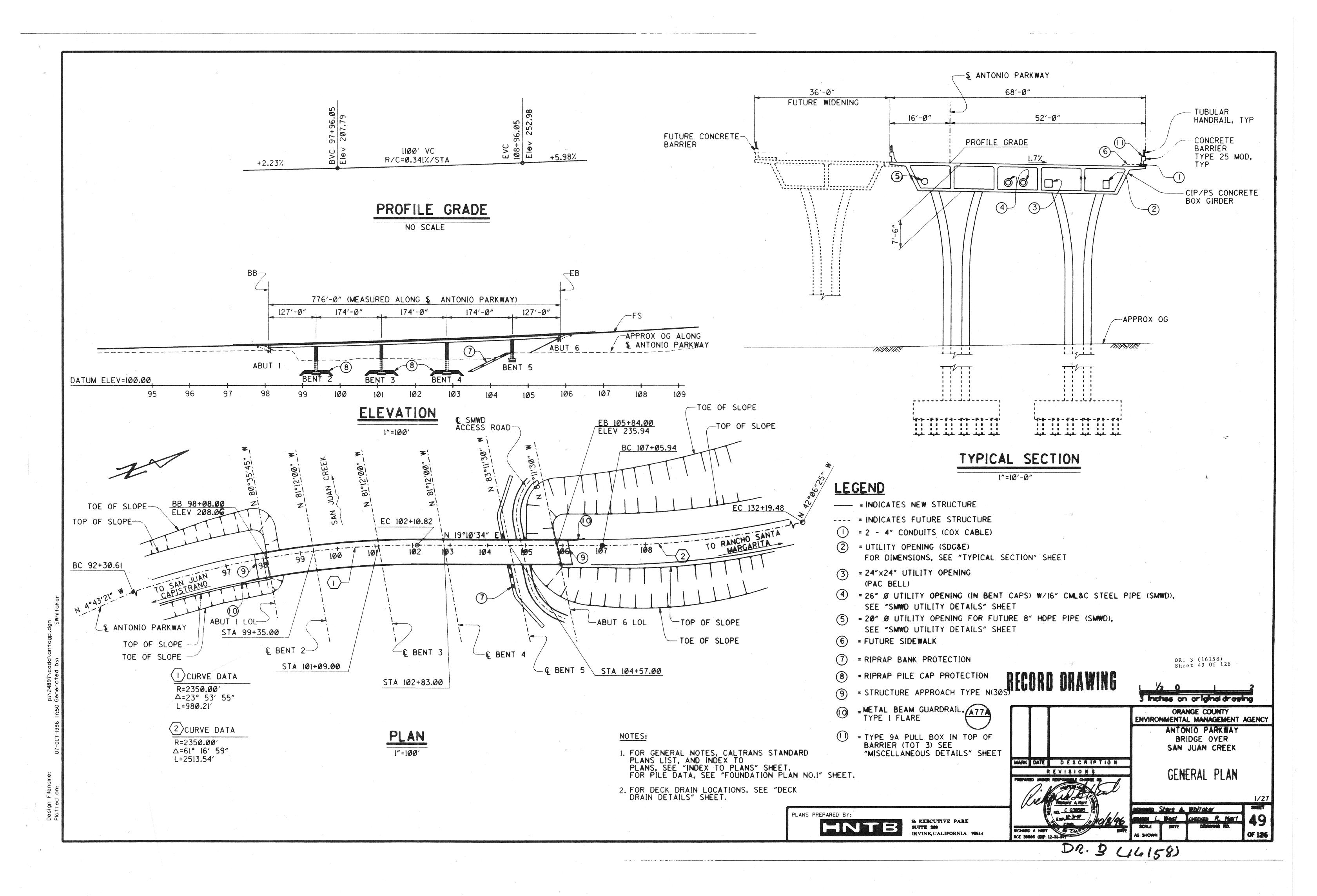
THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN OCS HORIZONTAL CONTROL STATION GPS #0198 AND STATION GPS #0742, BEING N 59°45'19" E, PER RECORDS ON FILE AT THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NAD (1991.35 EPOCH ADJUSTMENT).

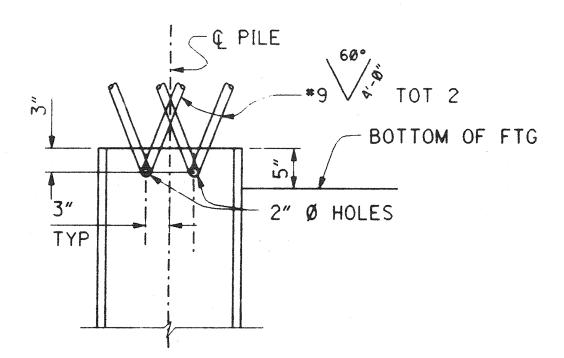
DR. 3 (16158)

Sheet 1 Of 126

W. O. NO. <u>ER02775C</u> DWG. NO. \_\_\_\_ SHEET 1 OF 126



#### HP 10X57 STEEL PILE ANCHOR NO SCALE



10 TA

# HP 14X89 STEEL PILE ANCHOR

NO SCALE

# CALTRANS STANDARD PLANS DATED JULY 1992

A1ØA ABBREVIATIONS AIØB SYMBOLS A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE A77A METAL BEAM GUARD RAILING METAL BEAM GUARD RAILING A778 STANDARD HARDWARE METAL BEAM GUARD RAILING A77C POST AND BLOCKS GUARD RAIL FLARES A77D BØ-1 BRIDGE DETAILS BØ-5 BRIDGE DETAILS BØ-13 BRIDGE DETAILS 87-1 BOX GIRDER DETAILS DECK DRAINS TYPES D-1 AND D-2 B7-6 B7-10 UTILITY OPENING - BOX GIRDER B7-11 UTILITY DETAILS B8-5 CAST-IN-PLACE PRESTRESSED GIRDER DETAILS B11-51 TUBULAR HAND RAILING BII-53 CONCRETE BARRIER TYPE 25 SIGNAL, LIGHTING, AND ELECTRICAL SYSTEMS, ELECTRICAL DETAILS, STRUCTURE INSTALLATIONS ES-7A ES-7C SIGNAL, LIGHTING, AND ELECTRICAL SYSTEMS,

### GENERAL NOTES LOAD FACTOR DESIGN

BRIDGE DESIGN SPECIFICATIONS

(1992 AASHTO WITH INTERIMS AND

RÉVISIONS BY CALTRANS)

DEAD LOAD:

INCLUDES 35 psf FOR FUTURE WEARING SURFACE

LIVE LOADING:

HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD.

ELECTRICAL DETAILS, STRUCTURE INSTALLATIONS

SEISMIC LOADING:

PEAK ROCK ACCELARATION = 0.3g DEPTH OF ALLUVIUM = 10 TO 80 FEET

DESIGN BASED ON CURRENT SPECIFICATION WITH DUCTILITY/RISK FACTOR Z= 6.0

REINFORCED CONCRETE:

fy = 60,000 psi

f'c = 3,500 psi, UNLESS OTHERWISE NOTED n = 9

(SEE "CAMBER DIAGRAM AND CONCRETE STRENGTH & TYPE LIMITS" SHEET)

TRANSVERSE DECK SLAB (WORKING STRESS DESIGN)

fs = 20,000 psi f'c = 1,200 psi

n = 10

PRESTRESSED CONCRETE:

SEE PRESTRESSING NOTES ON "GIRDER LAYOUT" SHEETS.

# INDEX TO PLANS

#### SHEET NO.

TITLE

GENERAL PLAN INDEX TO PLANS

STRUCTURE PLAN NO. 1

STRUCTURE PLAN NO. 2

DECK CONTOURS

FOUNDATION PLAN NO.

FOUNDATION PLAN NO. 2

ABUTMENT DETAILS NO. 1

ABUTMENT DETAILS NO. 2 ABUTMENT DETAILS NO. 3

ABUTMENT DETAILS NO. 4

BENT DETAILS NO. 1

BENT DETAILS NO. 2

BENT DETAILS NO. 3

BENT DETAILS NO. 4 TYPICAL SECTION

GIRDER LAYOUT NO. 1

GIRDER LAYOUT NO. 2

CAMBER DIAGRAM AND CONC STRENGTH & TYPE LIMITS

DECK DRAIN DETAILS

JOINT SEAL ASSEMBLY (MOVEMENT RATING = 51/2")

STRUCTURE APPROACH TYPE N (3ØS)

STRUCTURE APPROACH DRAINAGE DETAILS

EROSION PROTECTION PLAN

SMWD UTILITY DETAILS MISCELLANEOUS DETAILS

LOG OF TEST BORINGS

REGORD DRAWING

DR. 3 (16158) Sheet 50 Of 126

3 Inches on original drawing

MARK DATE DESCRIPTION REVISIONS

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY ANTONIO PARKWAY BRIDGE OVER SAN JUAN CREEK

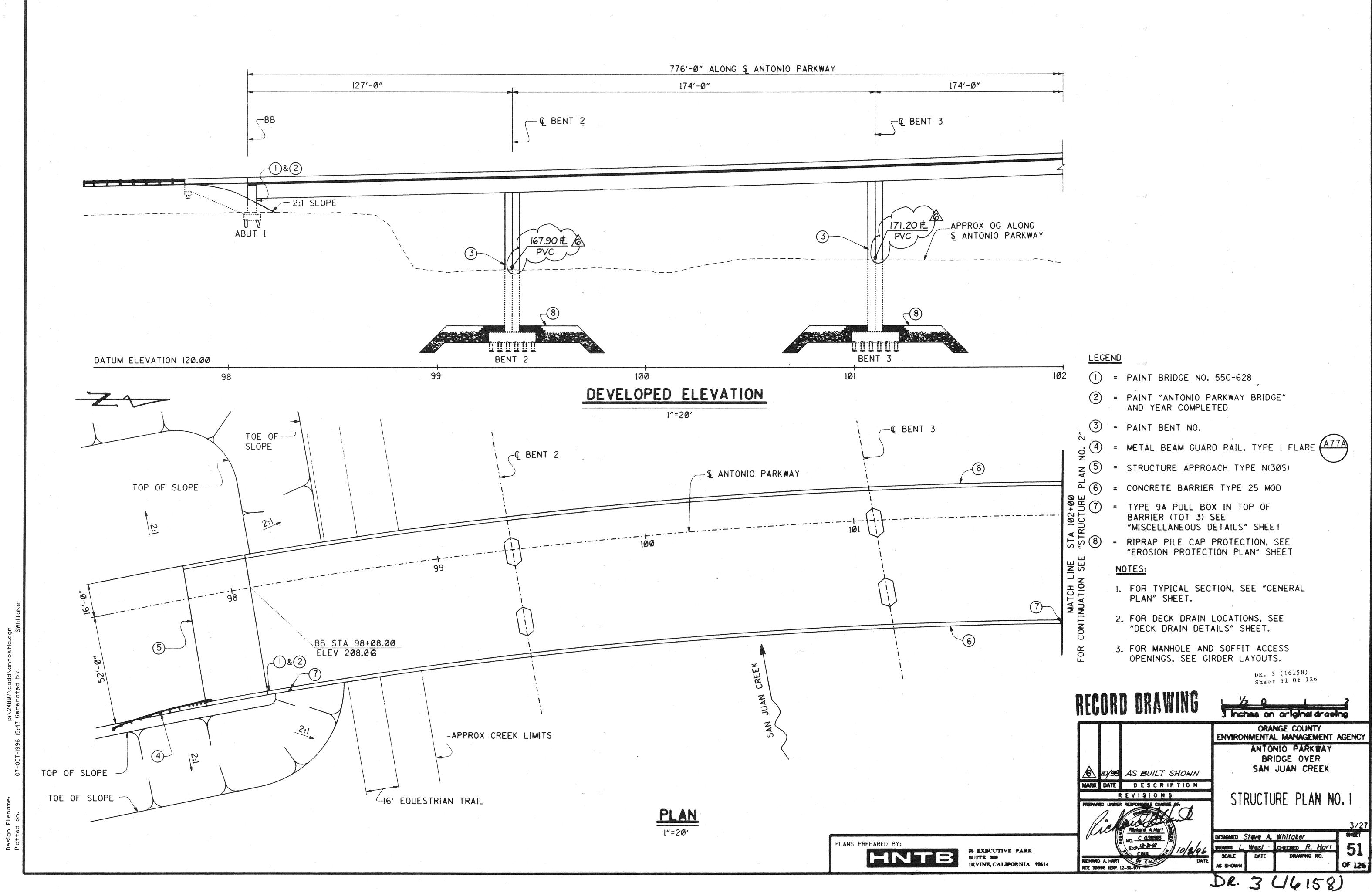
INDEX TO PLANS

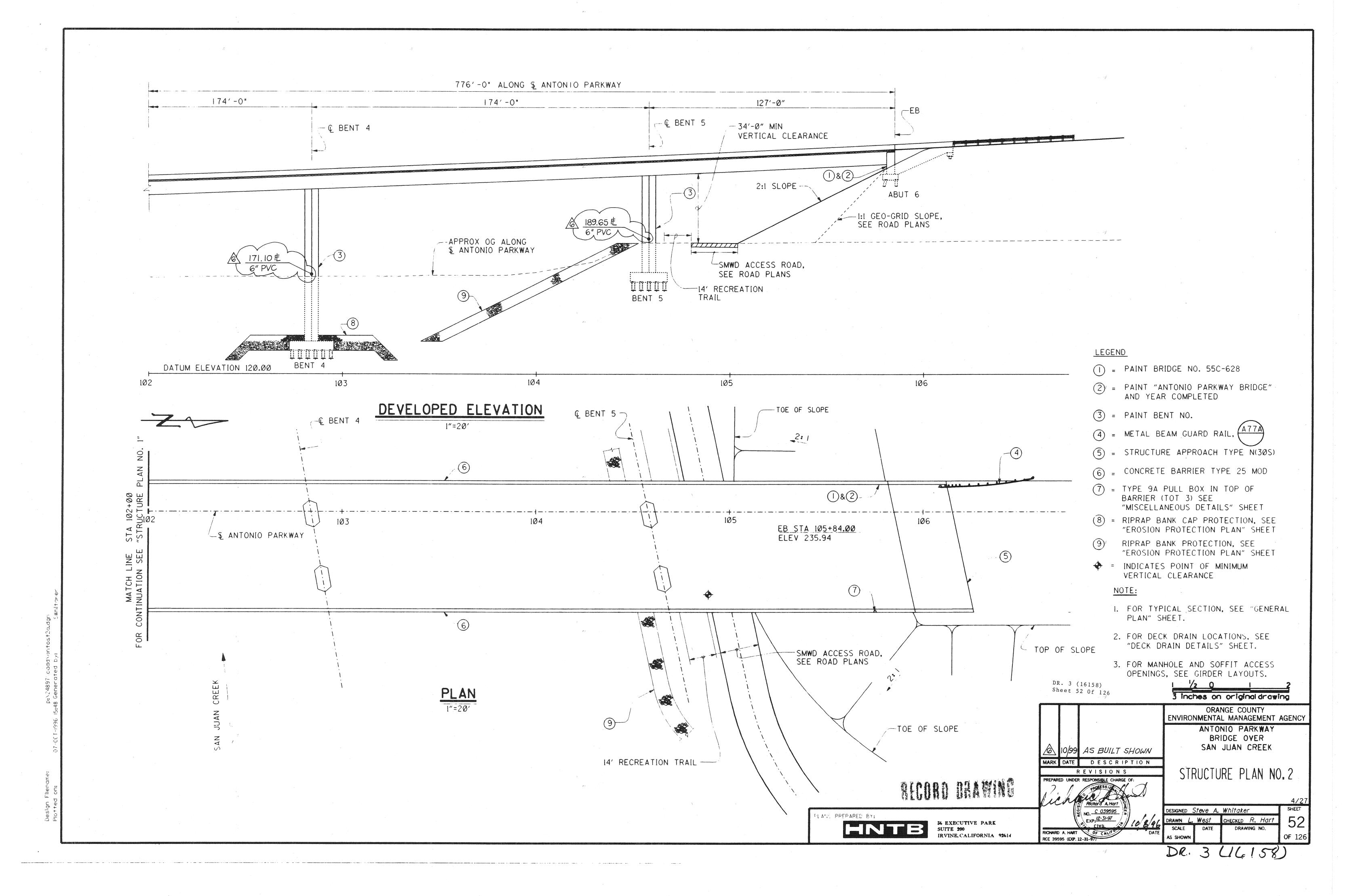
2/27 ENGNED Steve A. Whitaker BRINN L. West CHECKED R. Hart

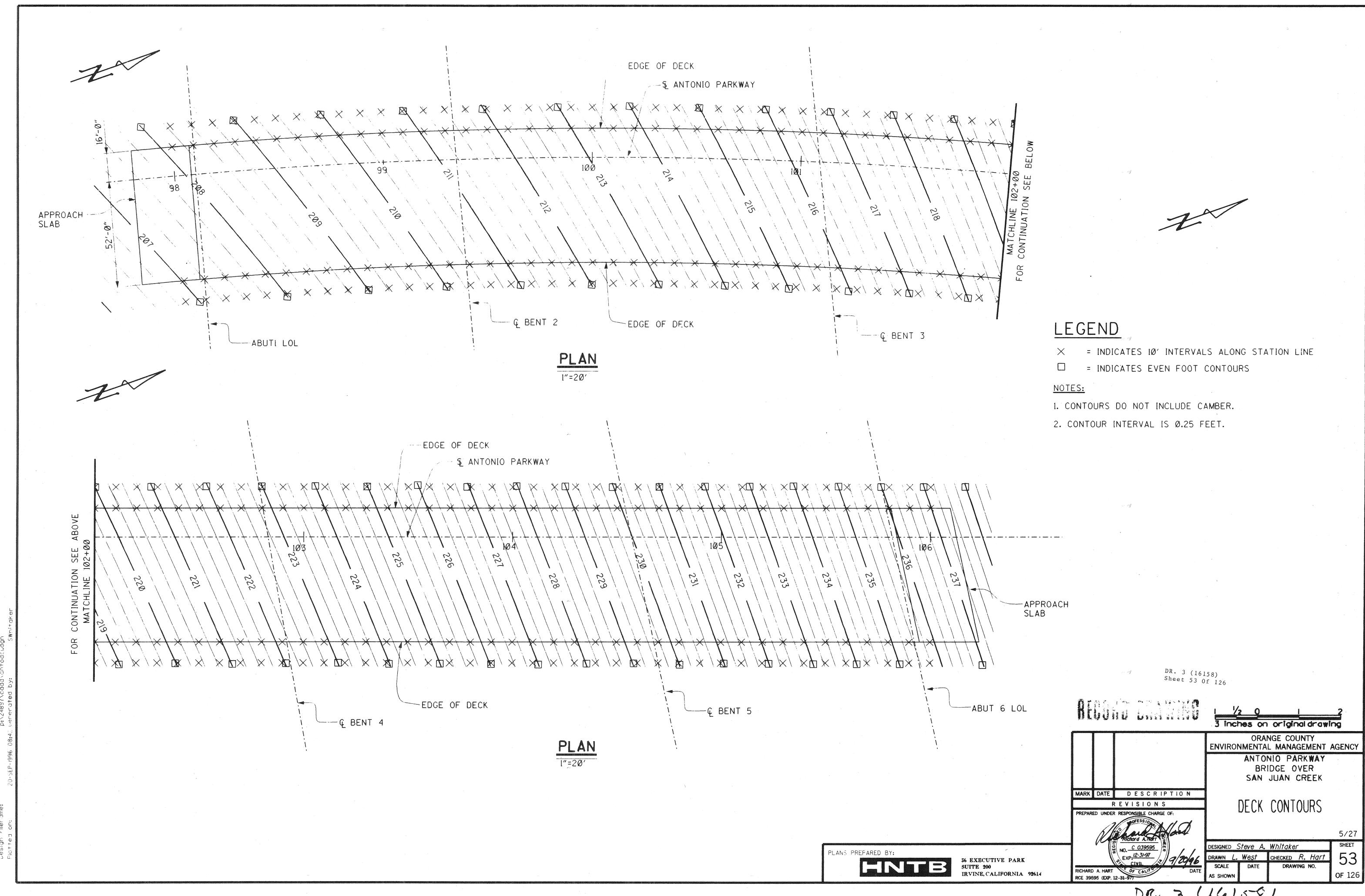
DR. 3 (16158)

PLANS PREPARED BY: HNTB

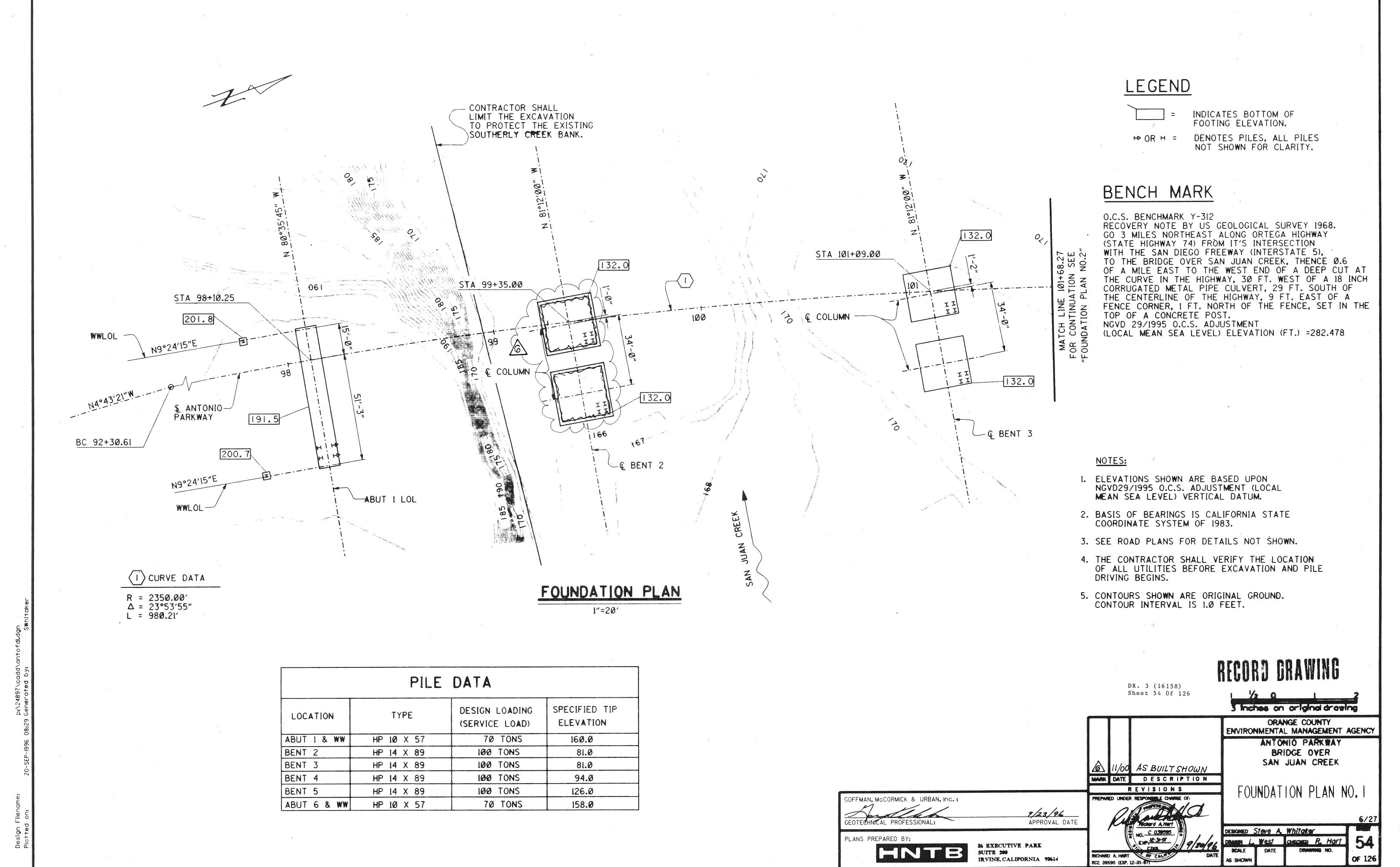
36 EXECUTIVE PARK SUITE SOO IRVINE, CALIFORNIA 98614

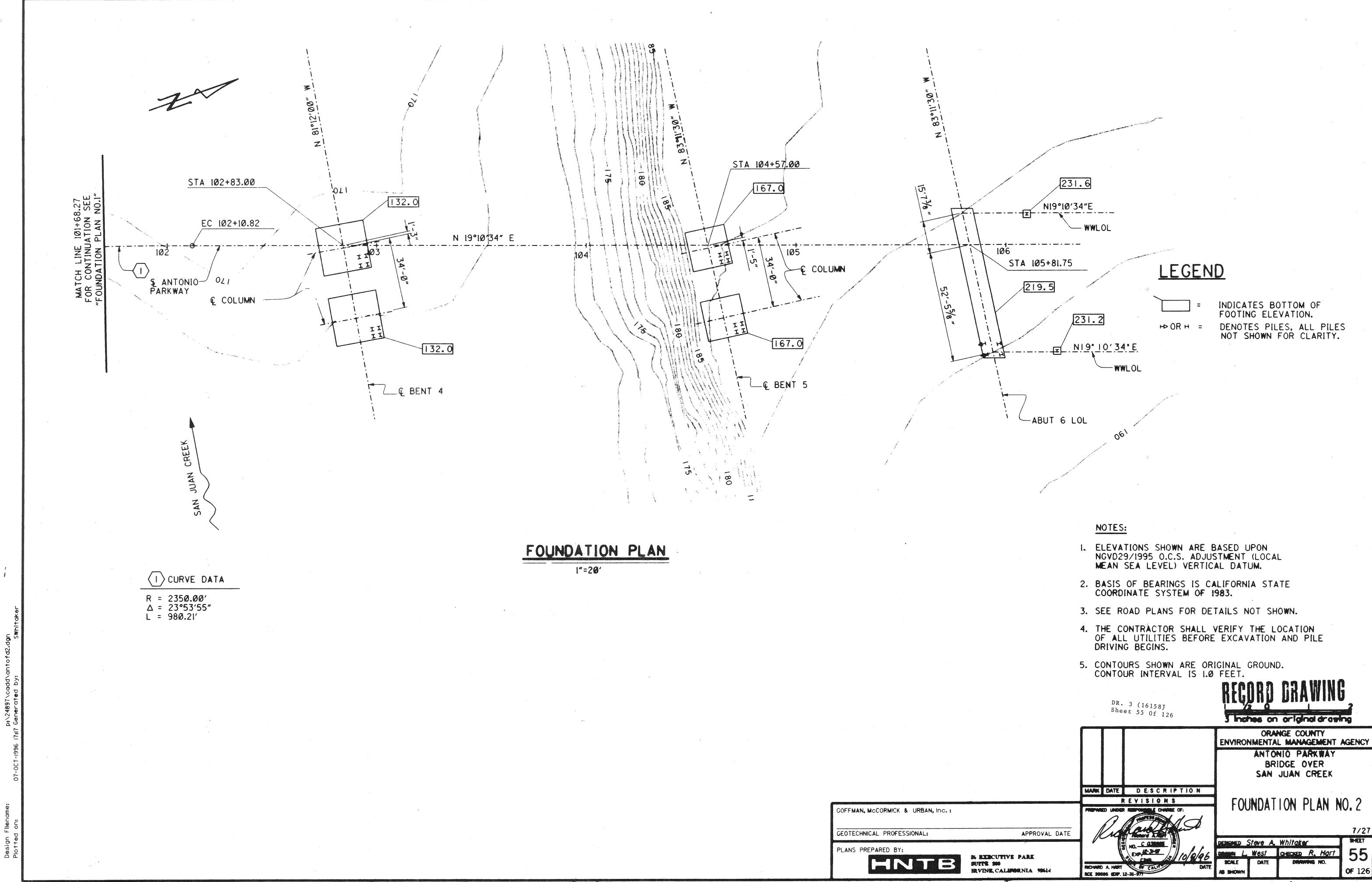




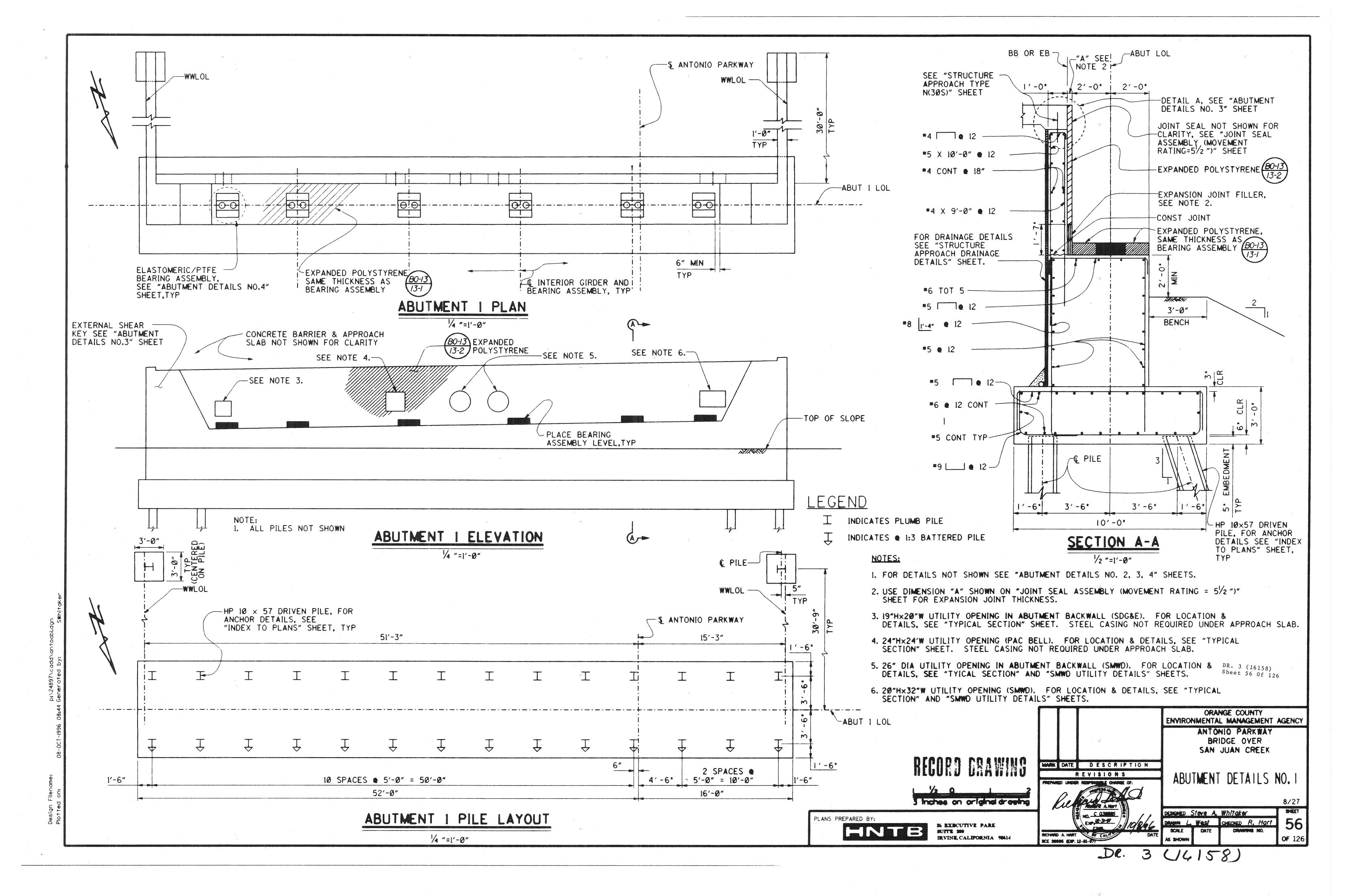


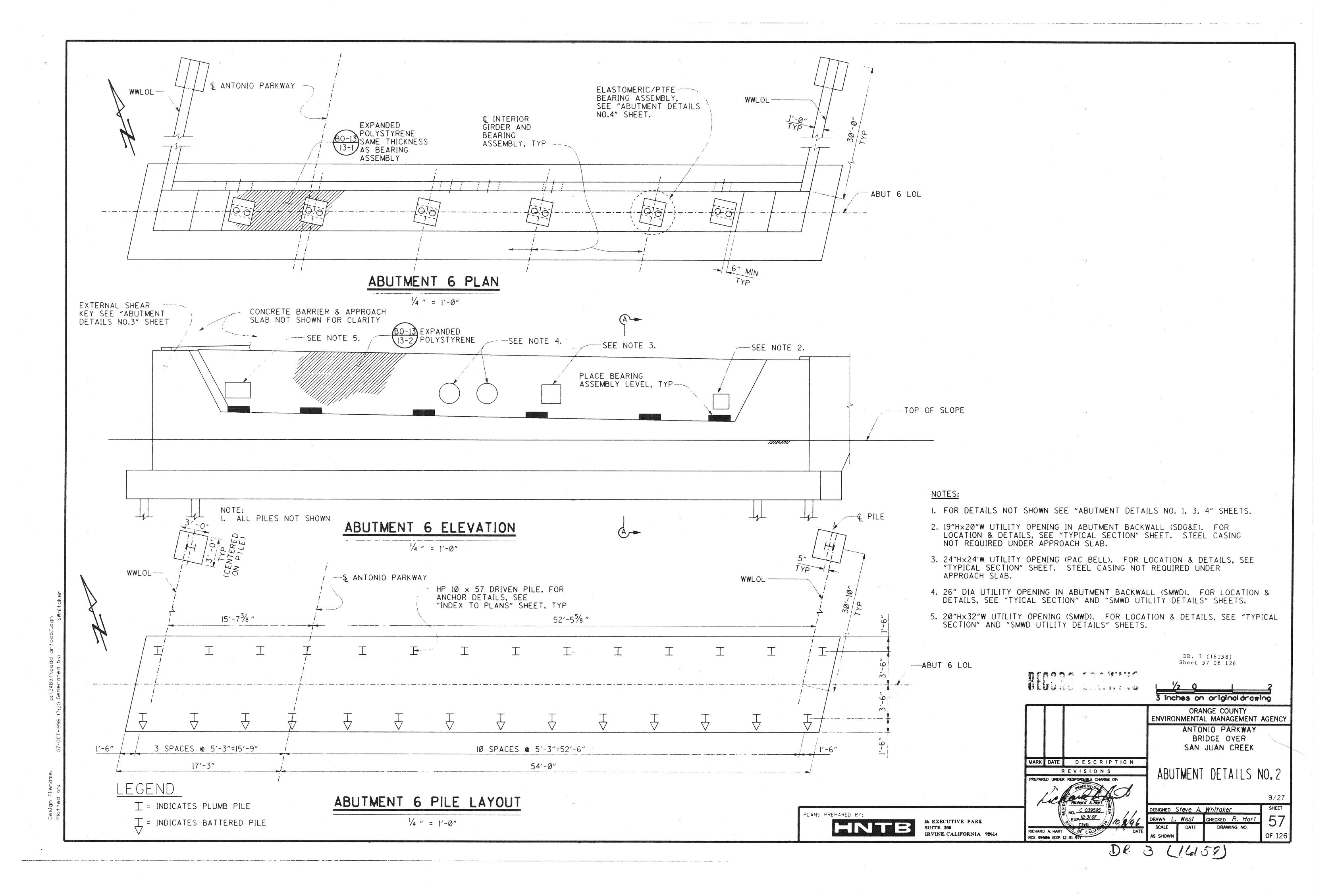
DR. 3 461581

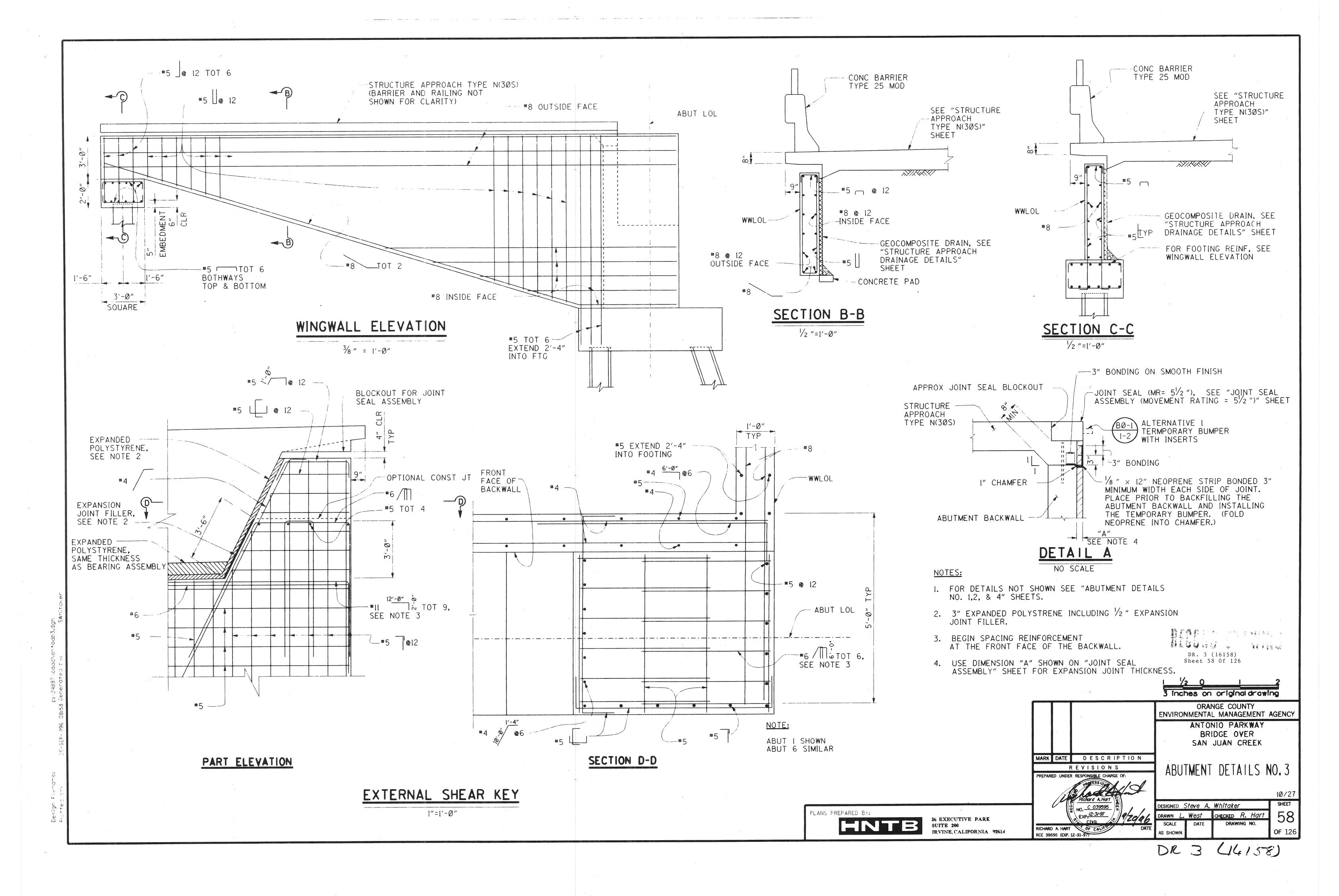


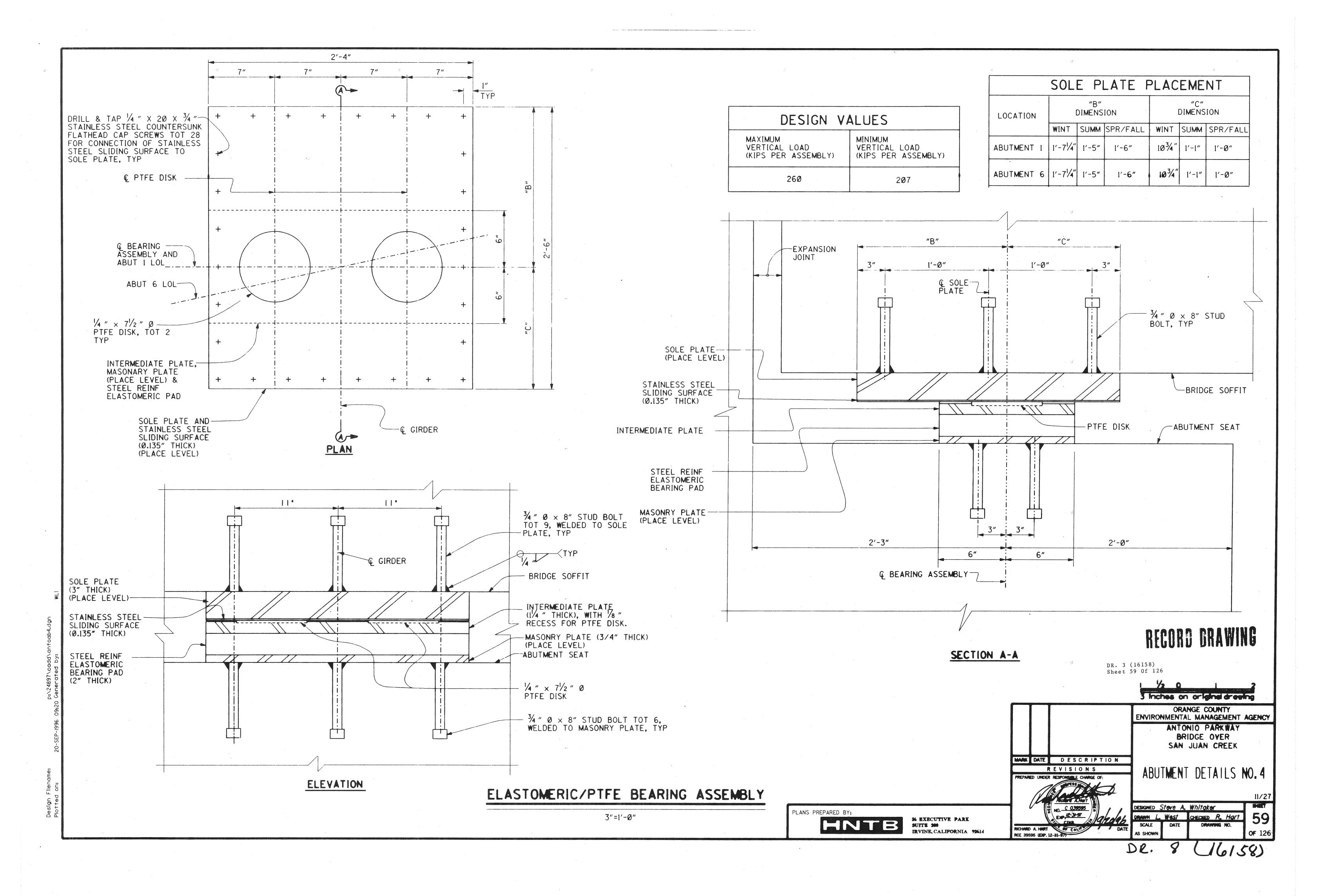


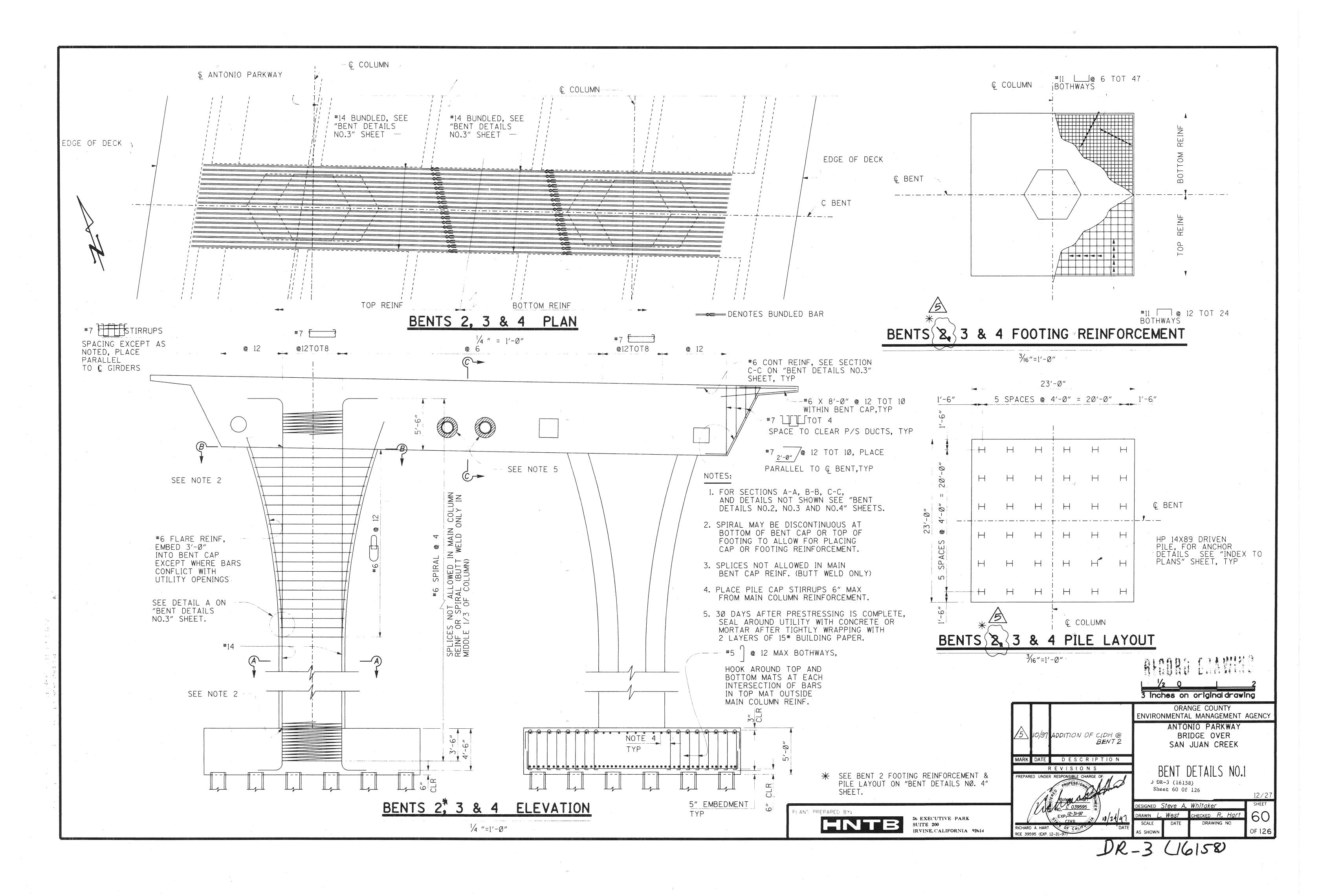
DR. 3 (16158)

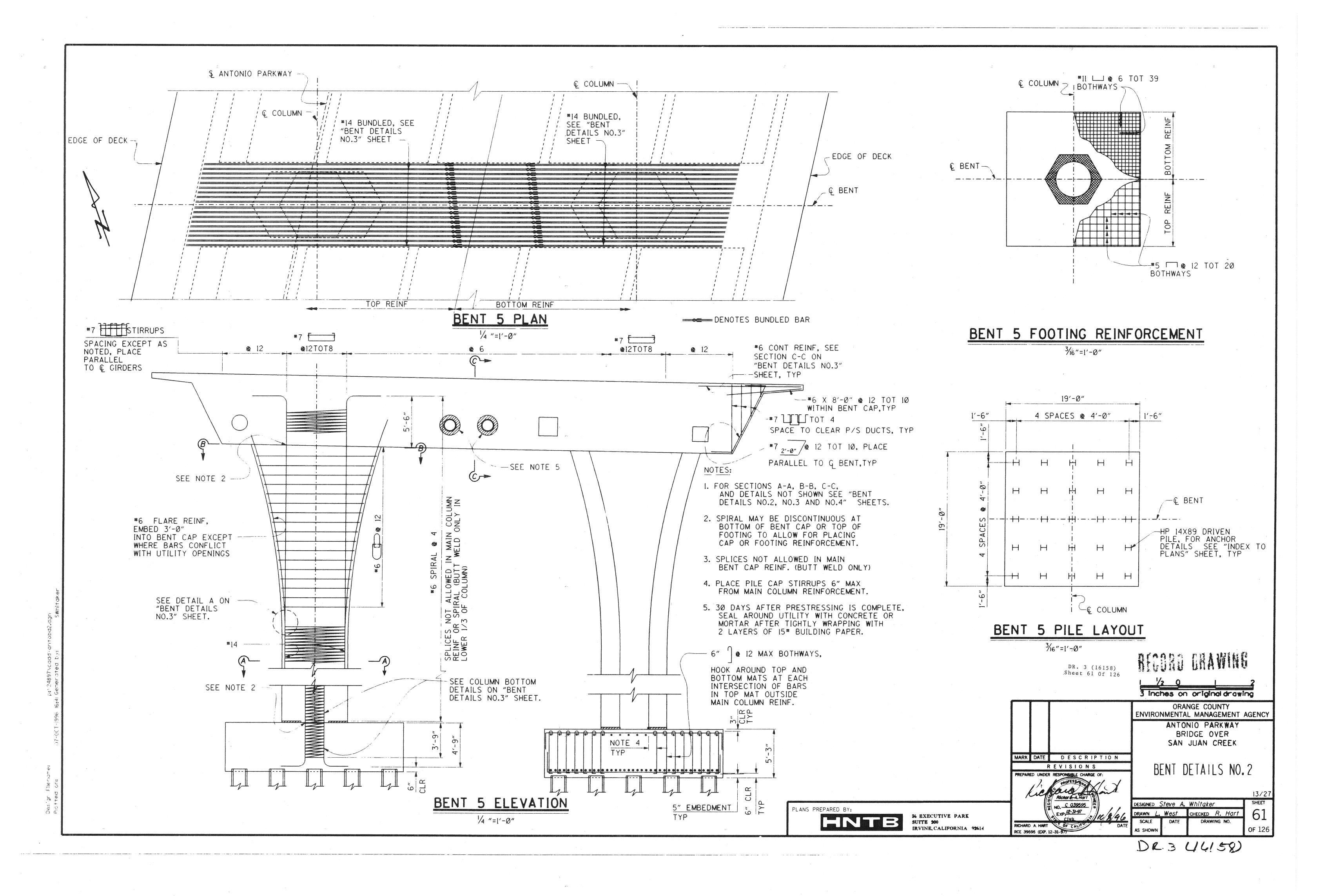


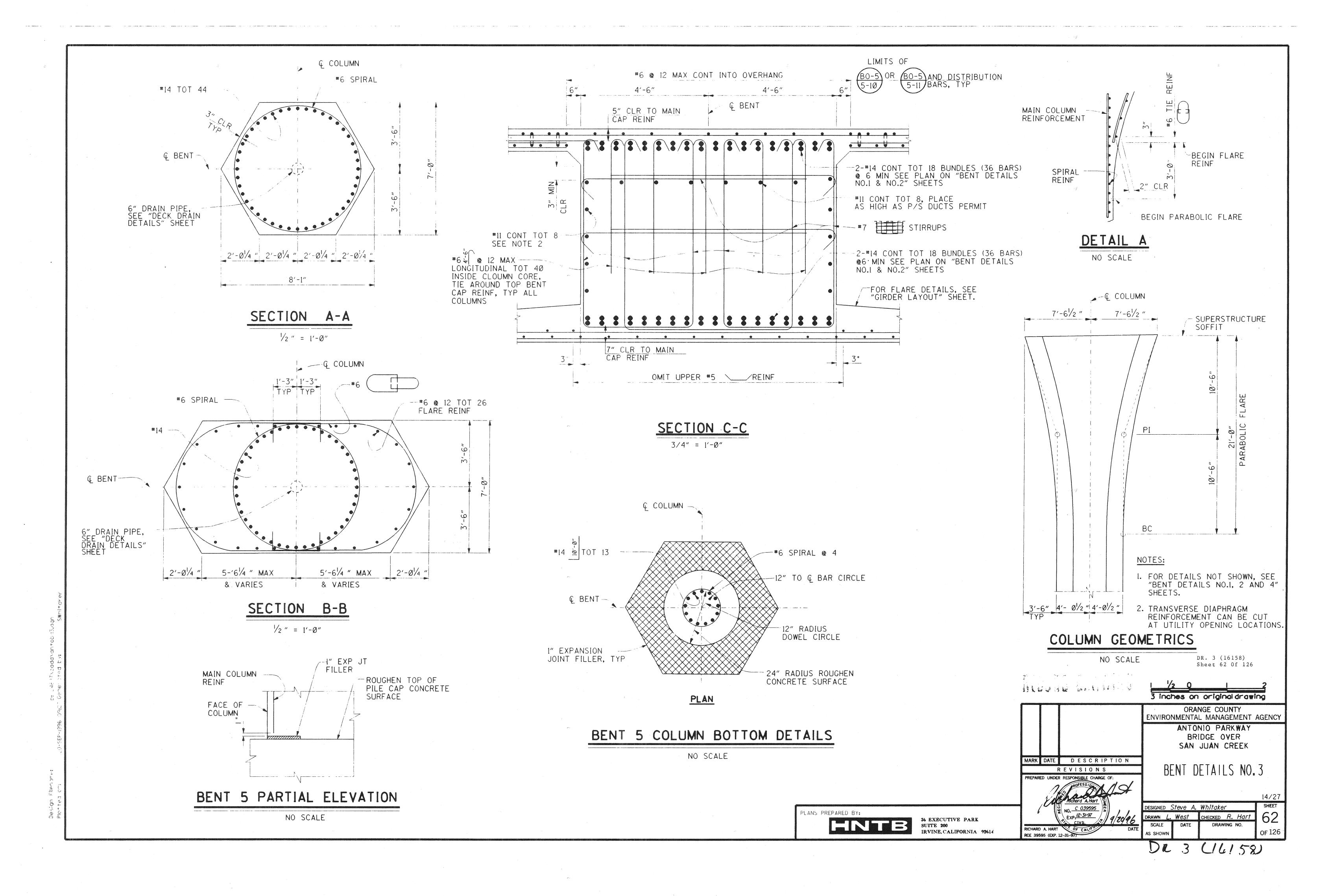


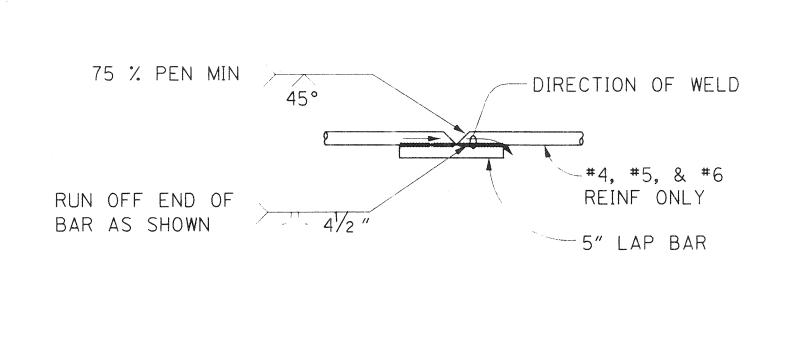






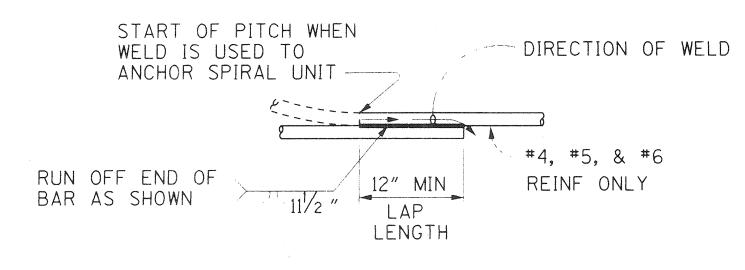






- 1. BUTT WELD TO BE MADE FIRST.
- 2. BUTT WELD TO BE MADE IN FLAT OR HORIZ POSITION.
- 3. LAP BAR TO BE CENTERED ON SPLICE.
- 4. FLARE WELD TO BE MADE IN DIRECTION SHOWN.
- 5. LAP BAR EQUAL SIZE TO SPIRAL BAR.

#### VEE GROOVE WELDED SPLICE



NOTE:

FLARE WELD TO BE MADE IN DIRECTION SHOWN

WELDED LAP SPLICE AND ANCHOR

SAME SIZE, SPACING AND MATERIAL AS SPIRAL SHOWN ON PLANS

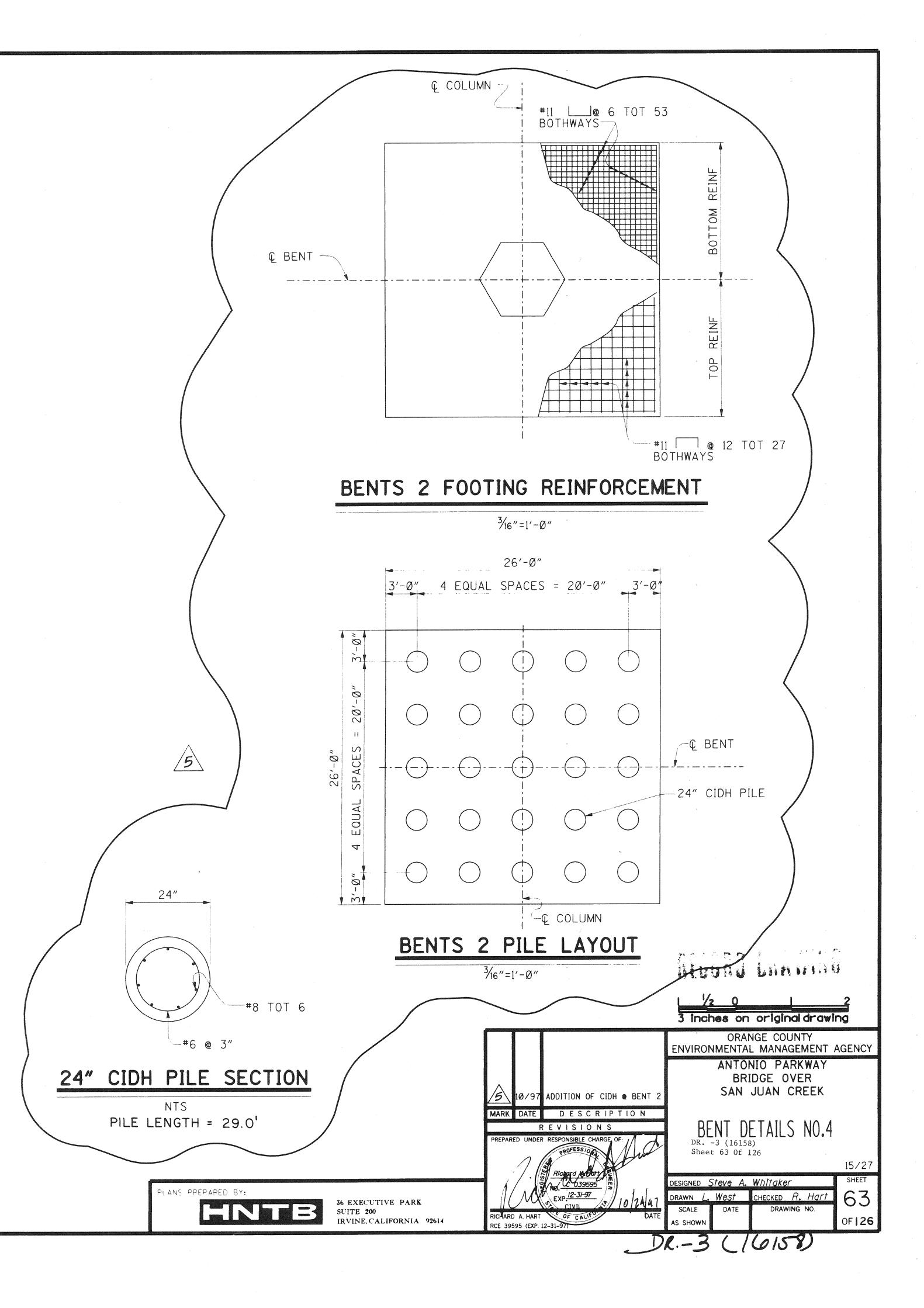
CJP

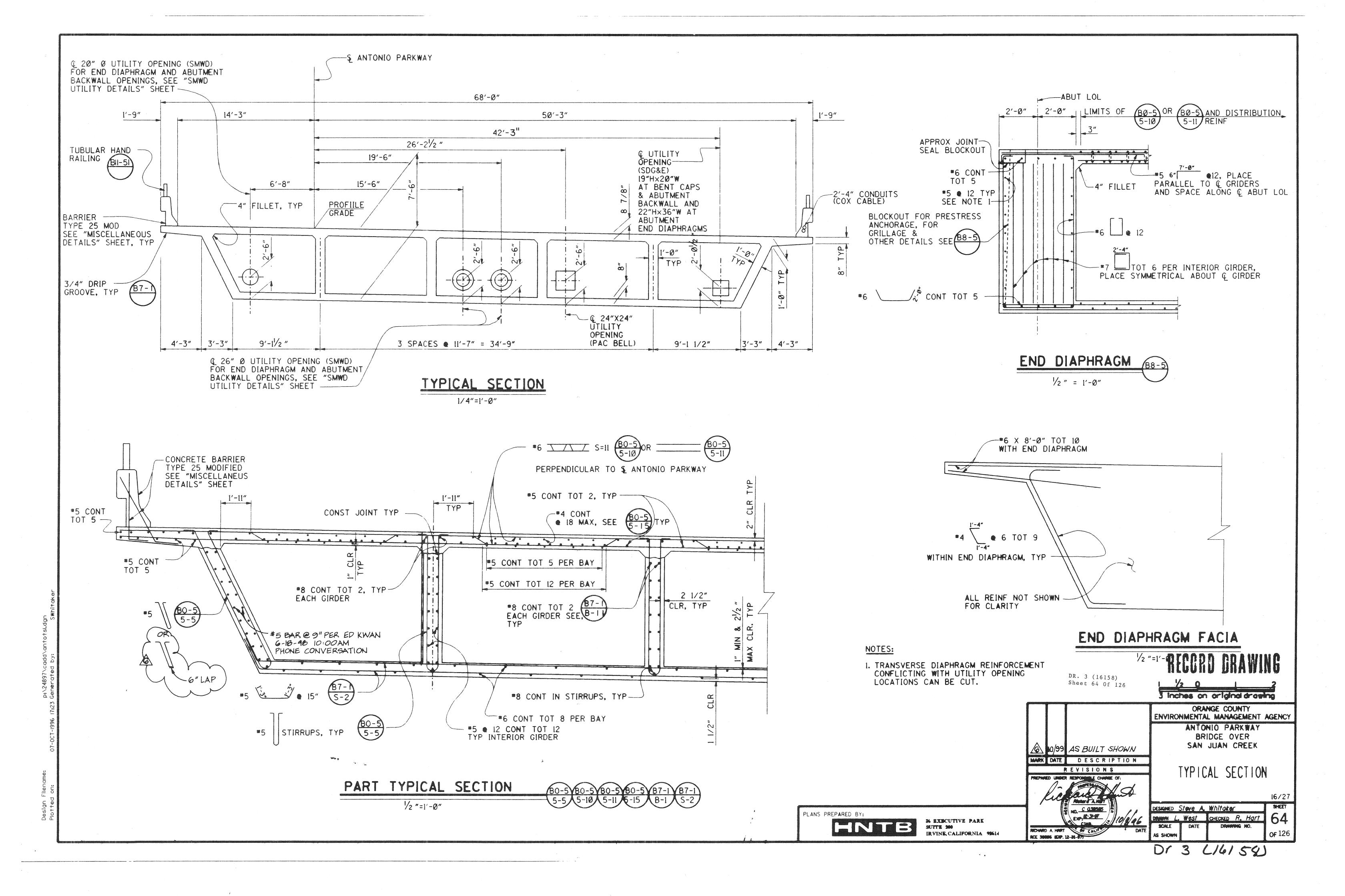
INDIVIDUAL HOOPS, MADE CONTINUOUS WITH 100% PENETRATION WELDS, MAY BE SUBSTITUTED FOR SPIRALS.

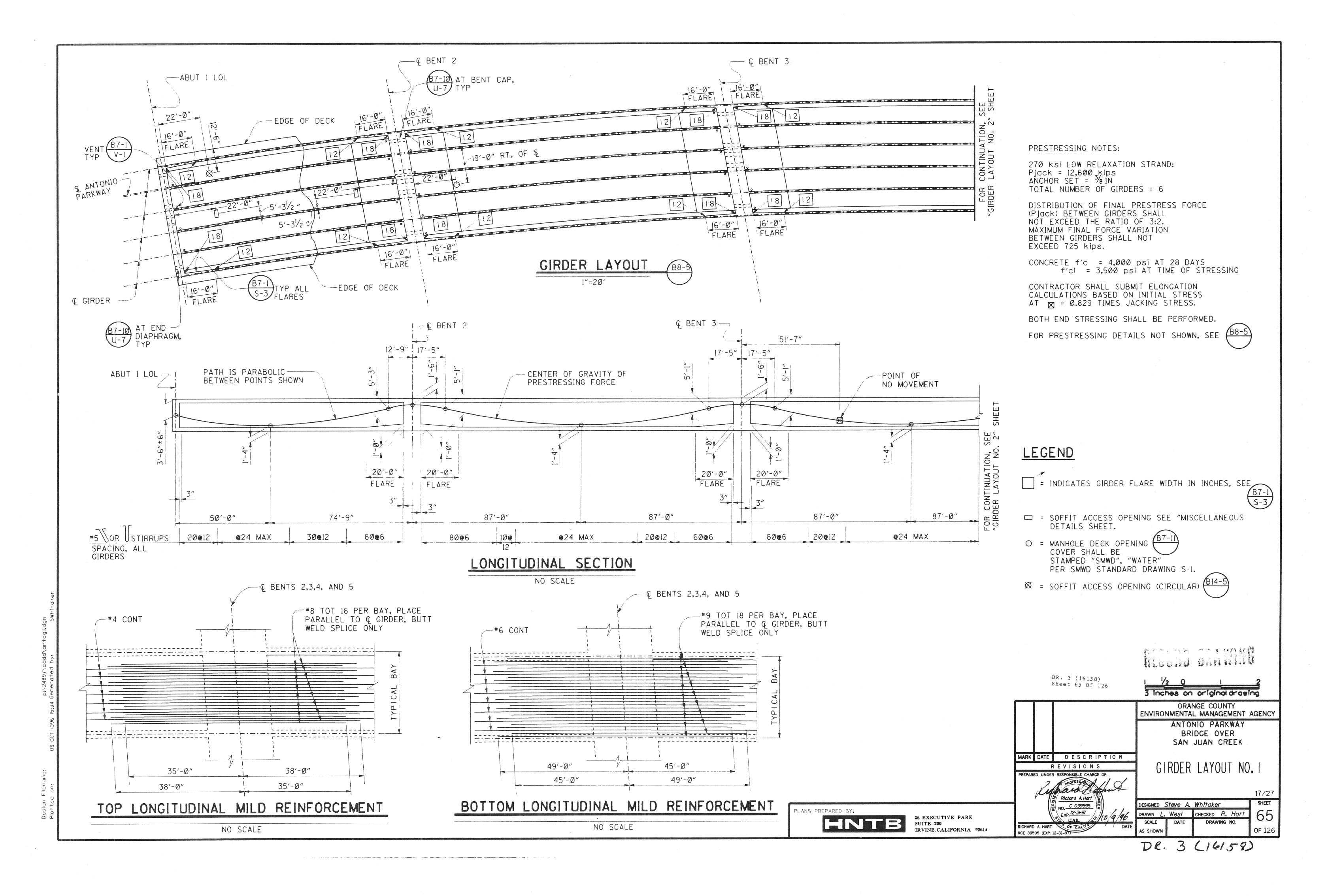
BUTT WELDED CONTINUOUS HOOP

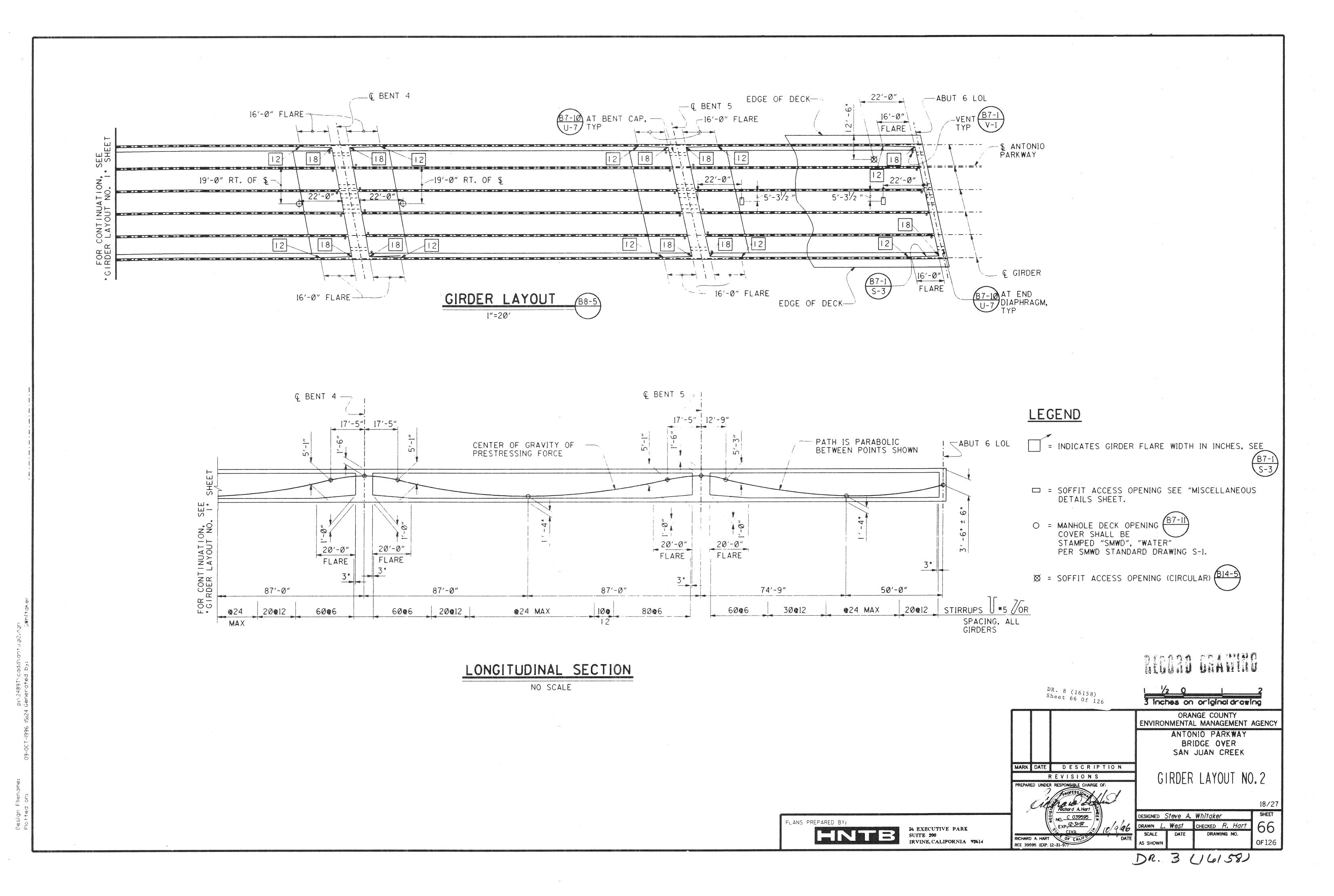
BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

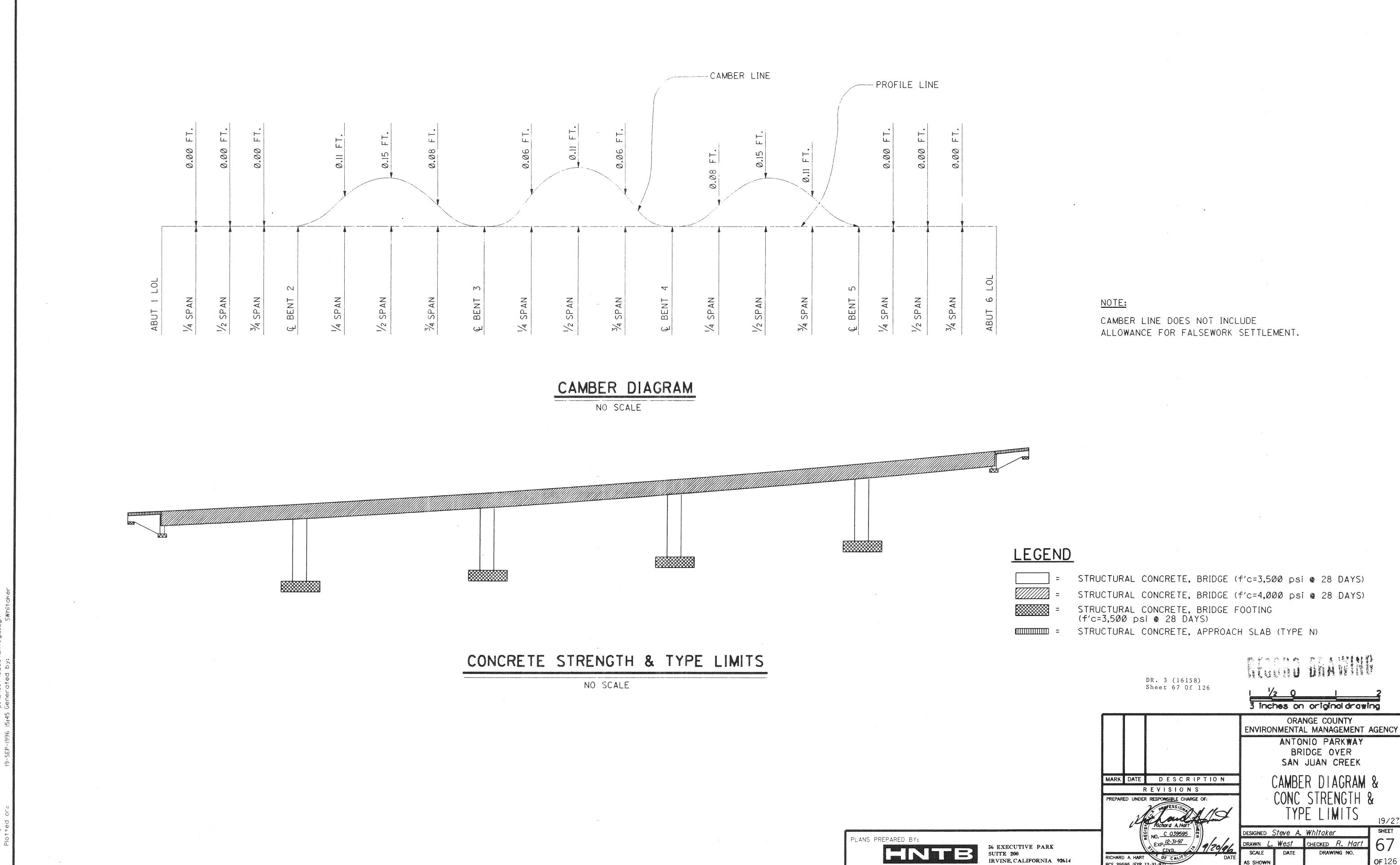
NO SCALE



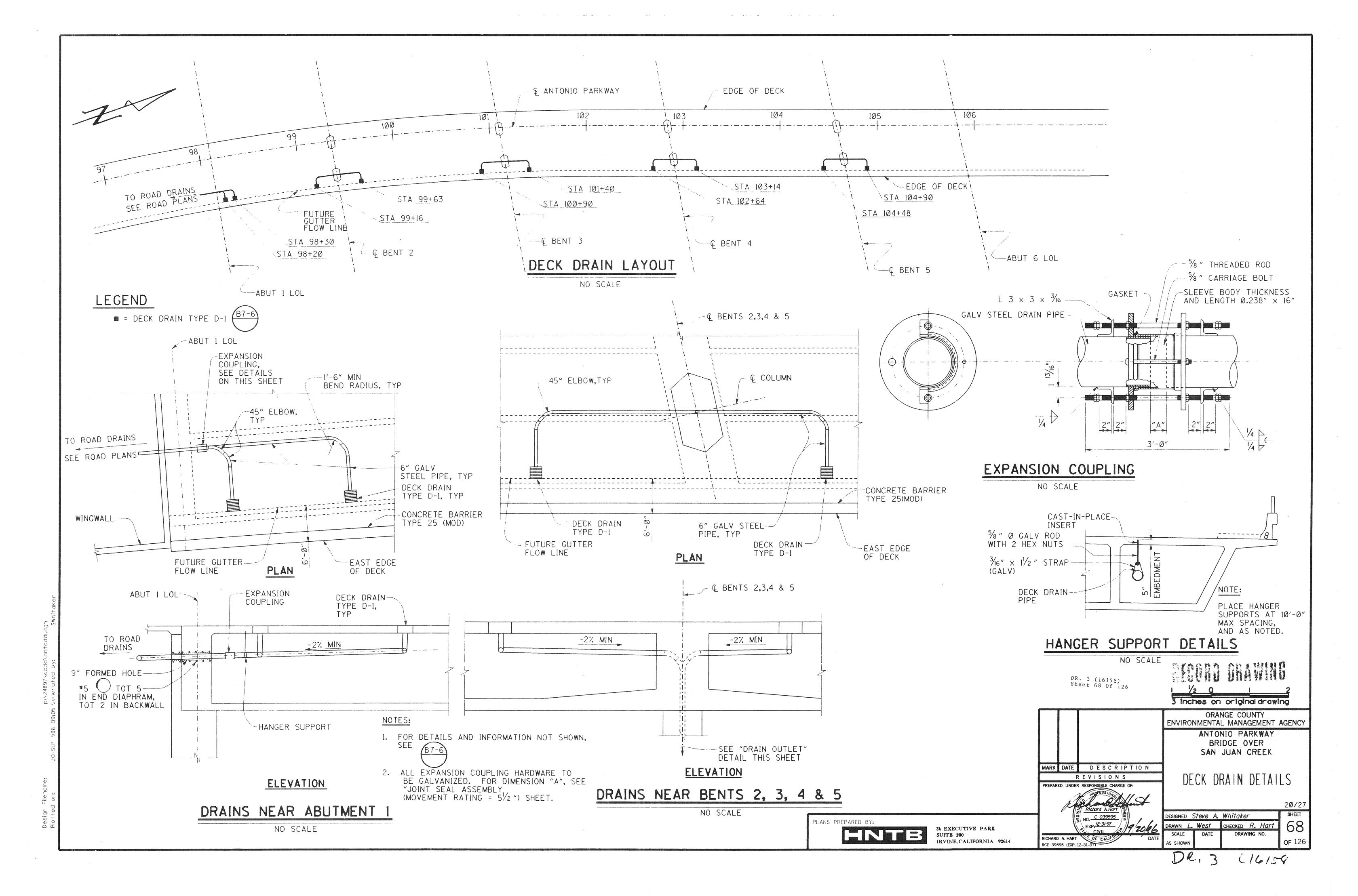


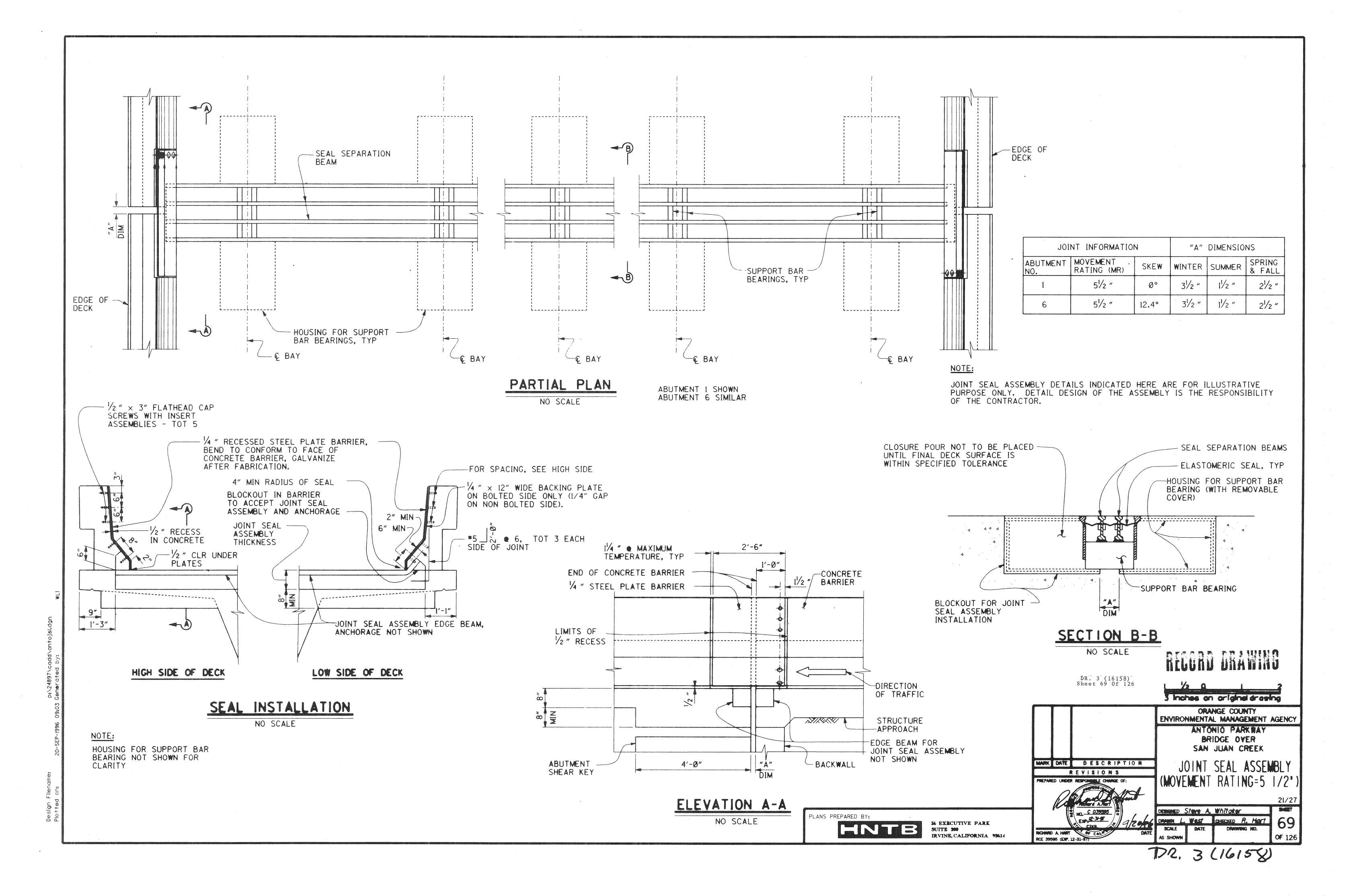


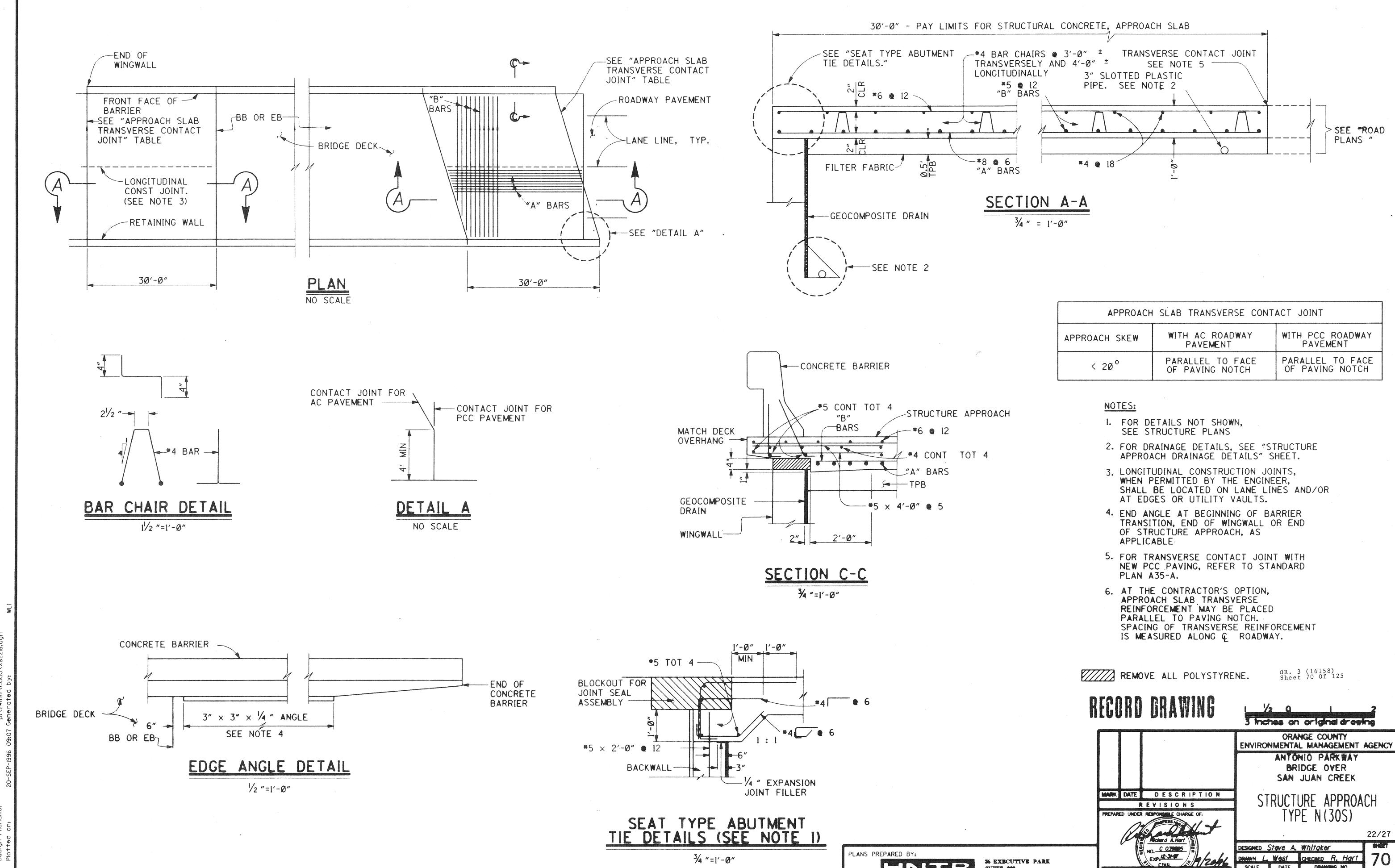




DR. 3 44158)







HNTB

SUITE 200

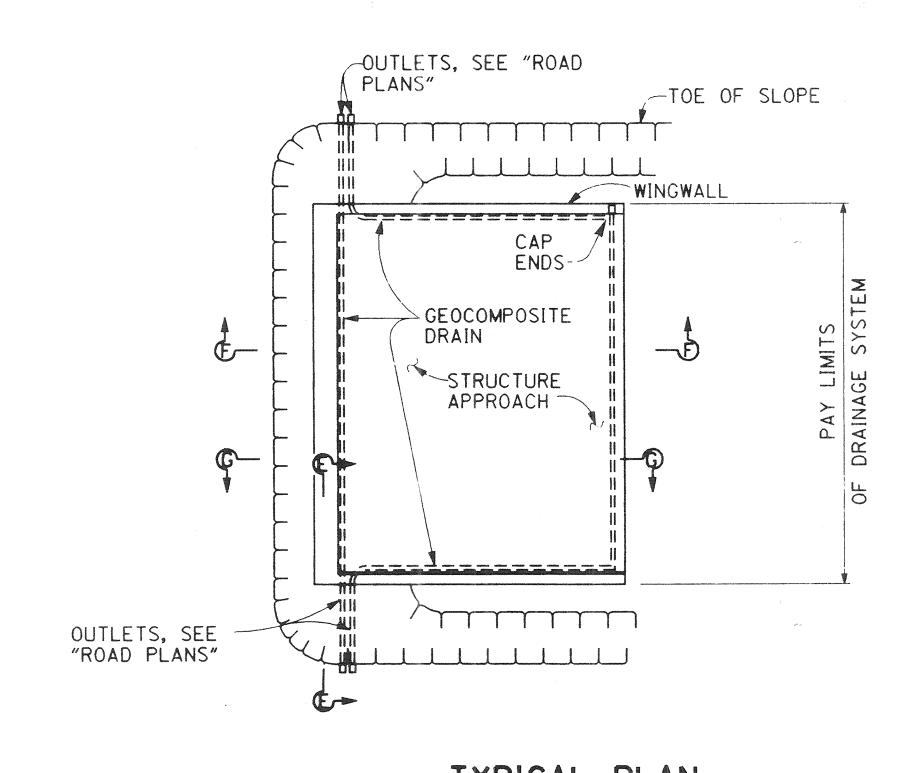
IRVINE, CALIFORNIA 9844

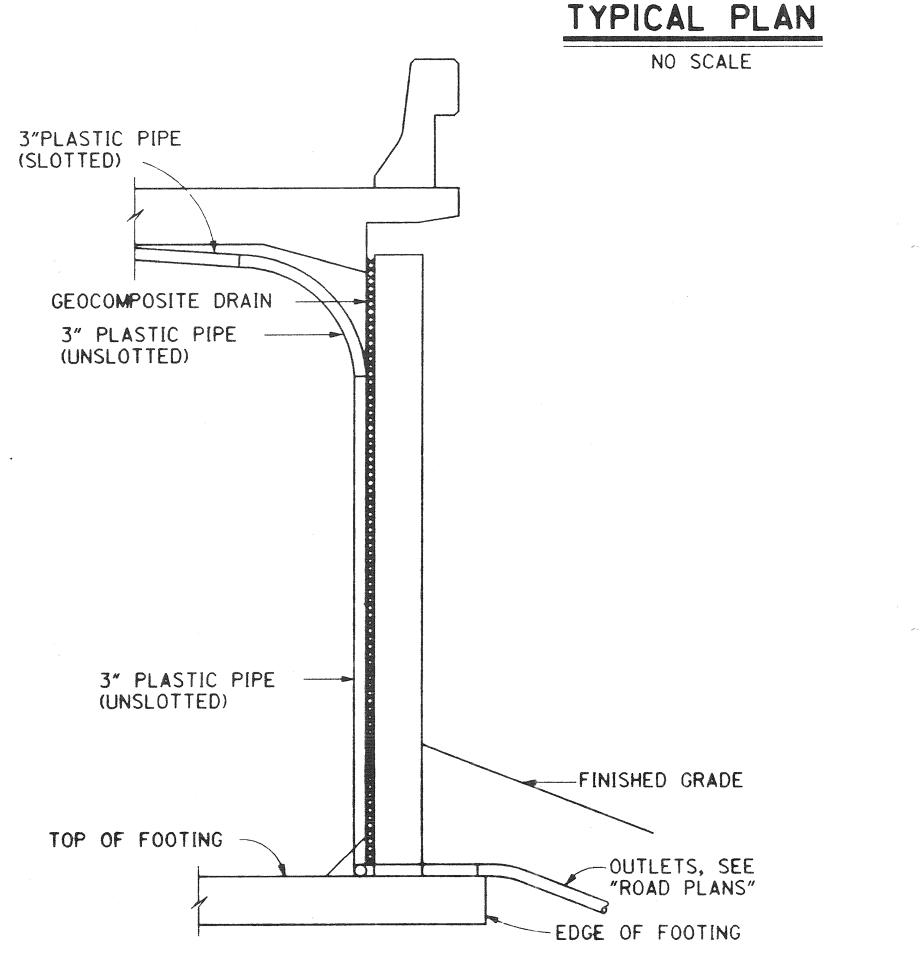
3 (16/58)

OF 126

SCALE

RICHARD A. HART OF CALT





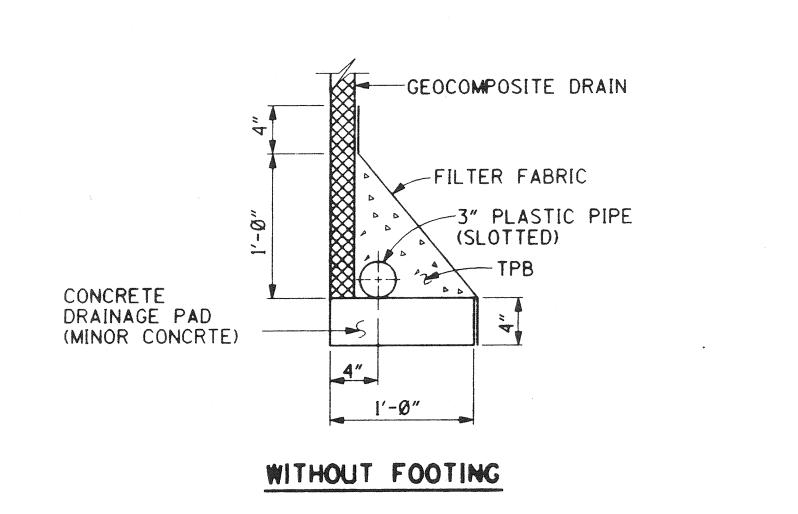
SECTION E-E NO SCALE

NOTE: BENDS AND JUNCTIONS IN 3"

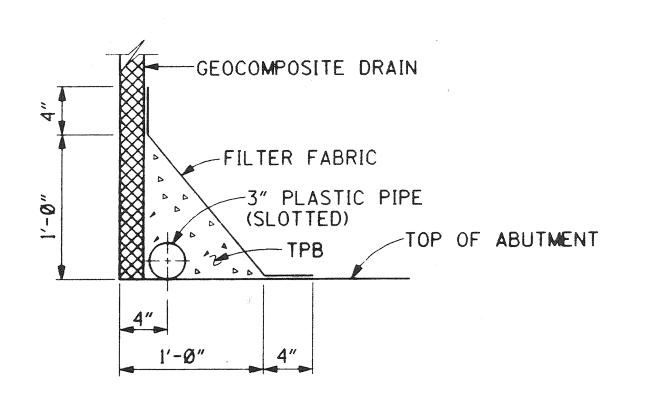
PLASTIC PIPE ARE 30" RADIUS MIN.

GEOCOMPOSITE 3" PLASTIC PIPE (SLOTTED) DRAIN -CONCRETE DRAINAGE PAD -SEE "DRAINAGE DETAILS"

#### SECTION F-F NO SCALE



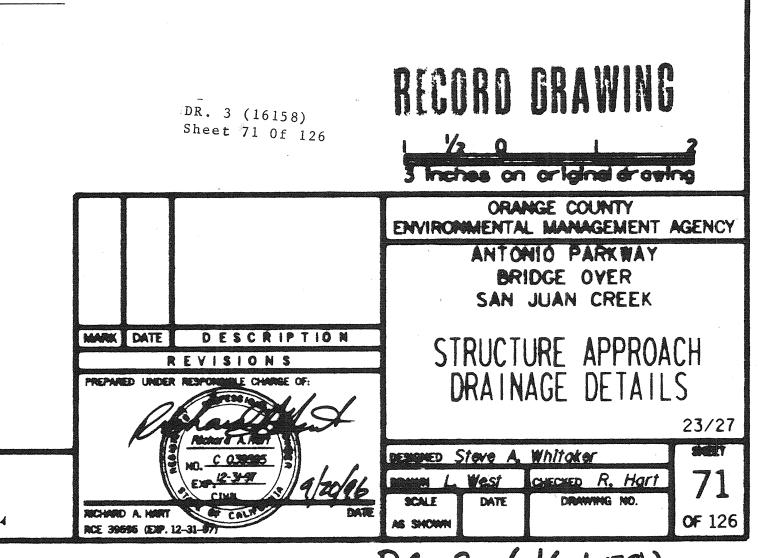
PLANS PREPARED BY:



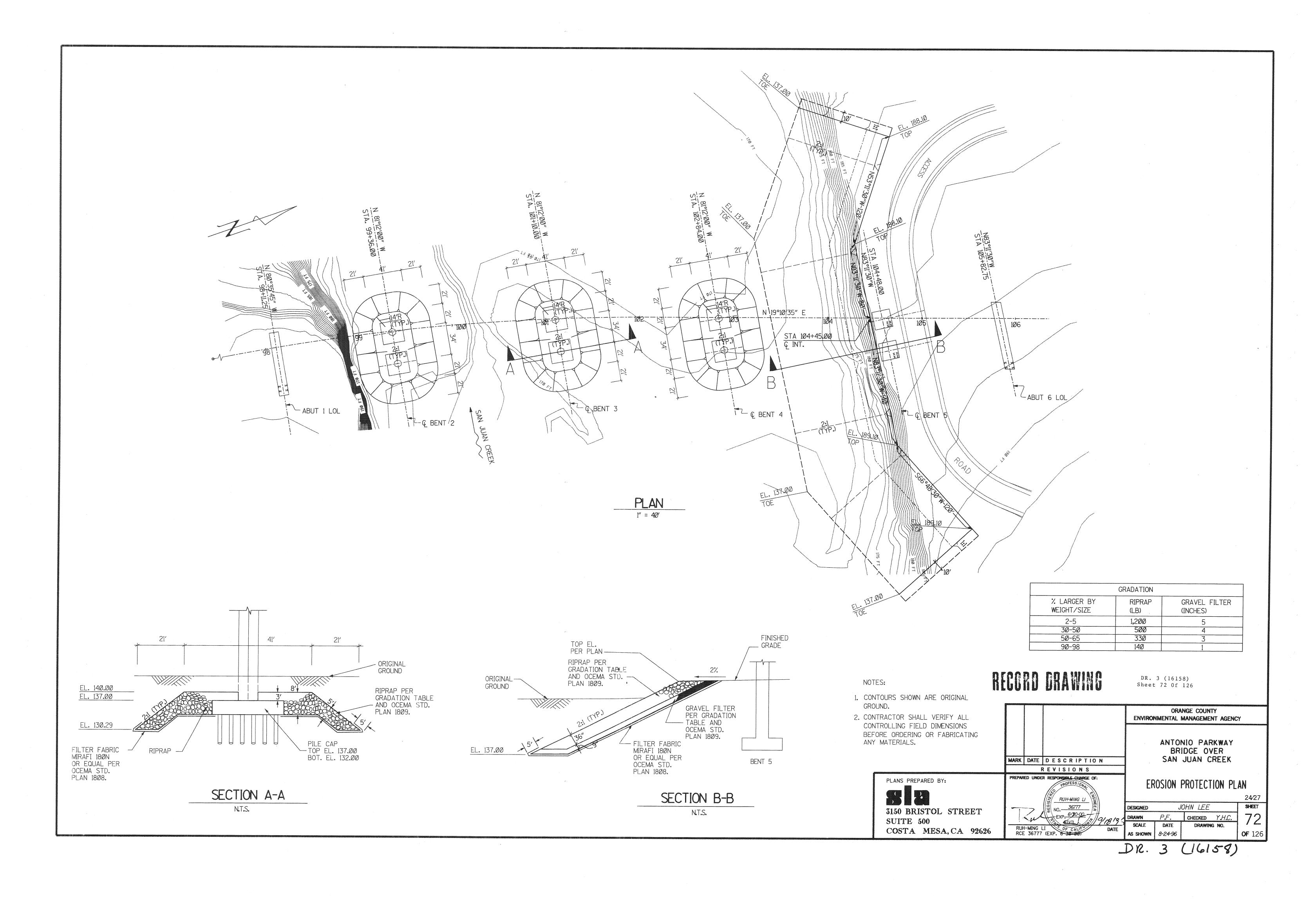
WITH FOOTING

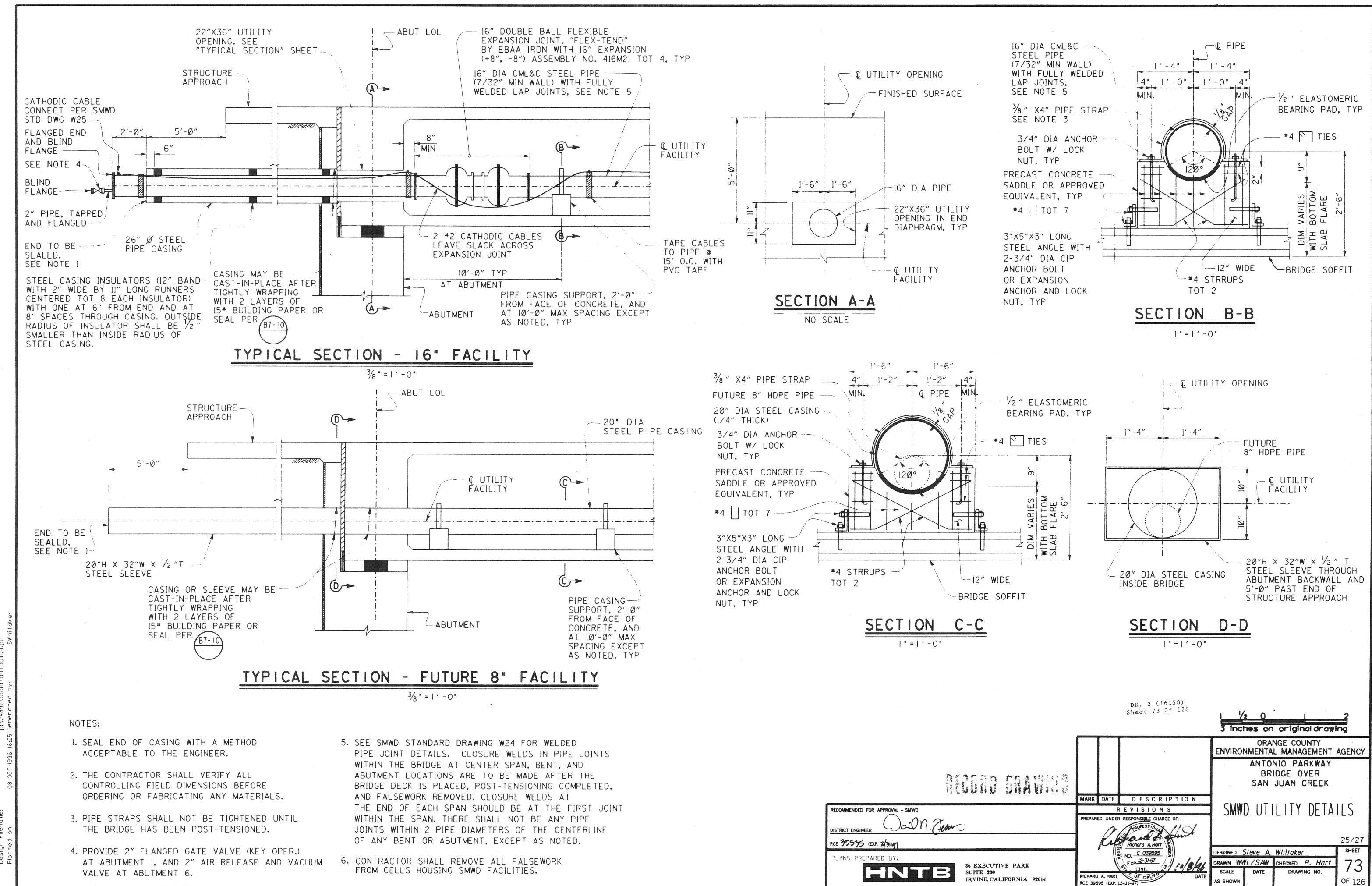
# DRAINAGE DETAILS

NO SCALE



26 EXECUTIVE PARK SUITE 200 IRVINE, CALIFORNIA 92614 HNTB DR. 3 (16158)

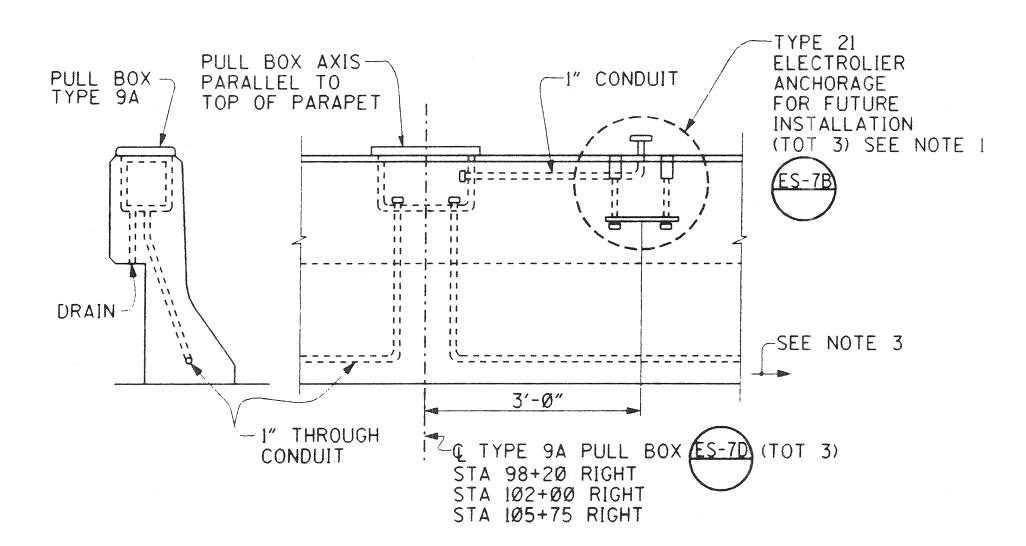




DR. 3 (14158)

# CONCRETE BARRIER TYPE 25 MODIFIED

1" = 1'-Ø"



# PULL BOX AND ELECTROLIER ANCHORAGE DETAIL

NO SCALE

