VALUE ENGINEERING PAYS

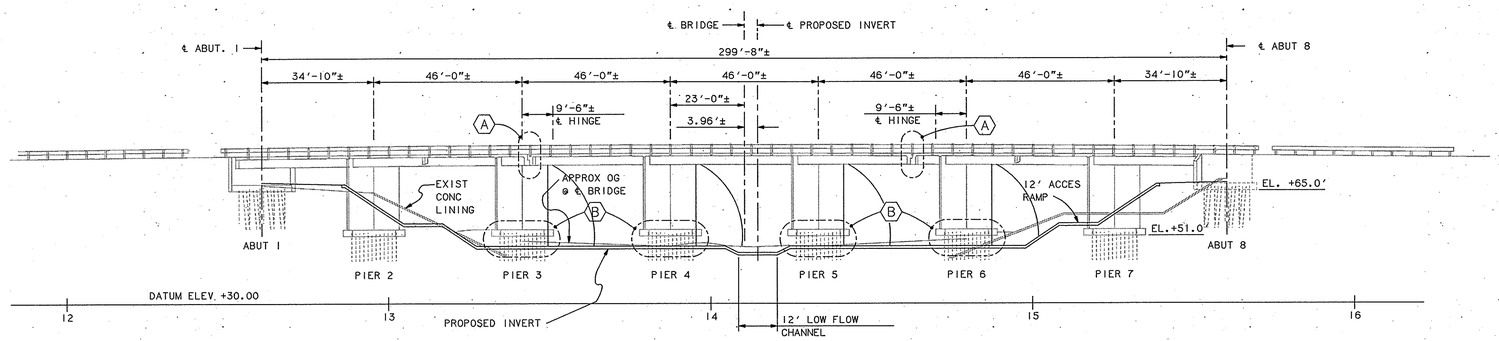
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

PREPARED UNDER THE SUPERVISION OF
PAUL R. YOUNG, PROJECT MANAGER
REGISTERED STRUCTURAL ENGINEER

PROJECT ENGINEER:
REGISTERED STRUCTURAL ENGINEER

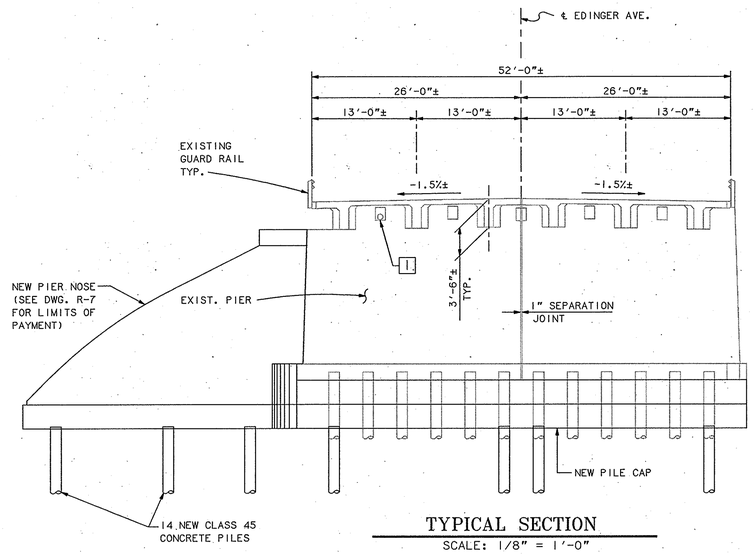
PLANS APPROVAL — DATE 2-24-93

REGISTERED PROFESSIONAL ENGINEER
HERNAN MONTOYA
No. S002819
Exp. 6-30-96
STRUCTURAL
STATE OF CALIFORNIA



ELEVATION
SCALE: 1" = 20'-0"

PILE DATA CLASS 45 PILES ALTERNATIVE "U" OR "V" SHALL BE USED			
LOCATION	DESIGN LOAD (SERVICE LOAD)	SPECIFIED PILE TIP ELEV.	PROBABLE PILE TIP ELEV.
PIER 3	45 TONS	-0.40'	-5.40'
PIER 4	45 TONS	-0.70'	-5.70'
PIER 5	45 TONS	-0.70'	-5.70'
PIER 6	45 TONS	-0.40'	-5.40'



TYPICAL SECTION
SCALE: 1/8" = 1'-0"

UTILITIES

1 – SOUTHERN CALIFORNIA GAS COMPANY
3"Ø PIPE WITHIN 6" Ø CASING

2 – 84" R.C.P. SEWER

3 – TELEPHONE (ENDS)

RETROFIT CODES

(A) RESTRAINER / SHEAR KEY RETROFIT, SEE SHEET R-8

(B) FOUNDATION RETROFIT - PILES AND PILE CAP SEE SHEET R-7

SYMBOLS

INDICATES LOCATION OF WORK

INDICATES EXISTING STRUCTURE

DETAIL NO.

STANDARD PLAN SHEET NO.

INDEX TO EDINGER BRIDGE PLANS

CALTRAN STANDARD PLANS DATED JULY, 1992

A-10A ABBREVIATIONS
A-10B SYMBOLS
B2-5 PILE DETAILS, CLASS 45

GENERAL NOTES:

1- ALL EXISTING BRIDGE ELEVATIONS AND DIMENSIONS ARE BASED UPON AS BUILT BRIDGE PLANS PROVIDED BY O.C.E.M.A. ALL NEW CHANNEL AND FOUNDATION ELEVATIONS ARE BASED UPON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, REFERENCE SHEET 5 OF THE LOWER SANTA ANA RIVER CHANNEL PLANS

2- CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD ELEVATIONS AND DIMENSIONS ON THE JOB SITE PRIOR TO ORDERING OR FABRICATING ANY MATERIAL.

3- LOAD FACTOR DESIGN:

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)

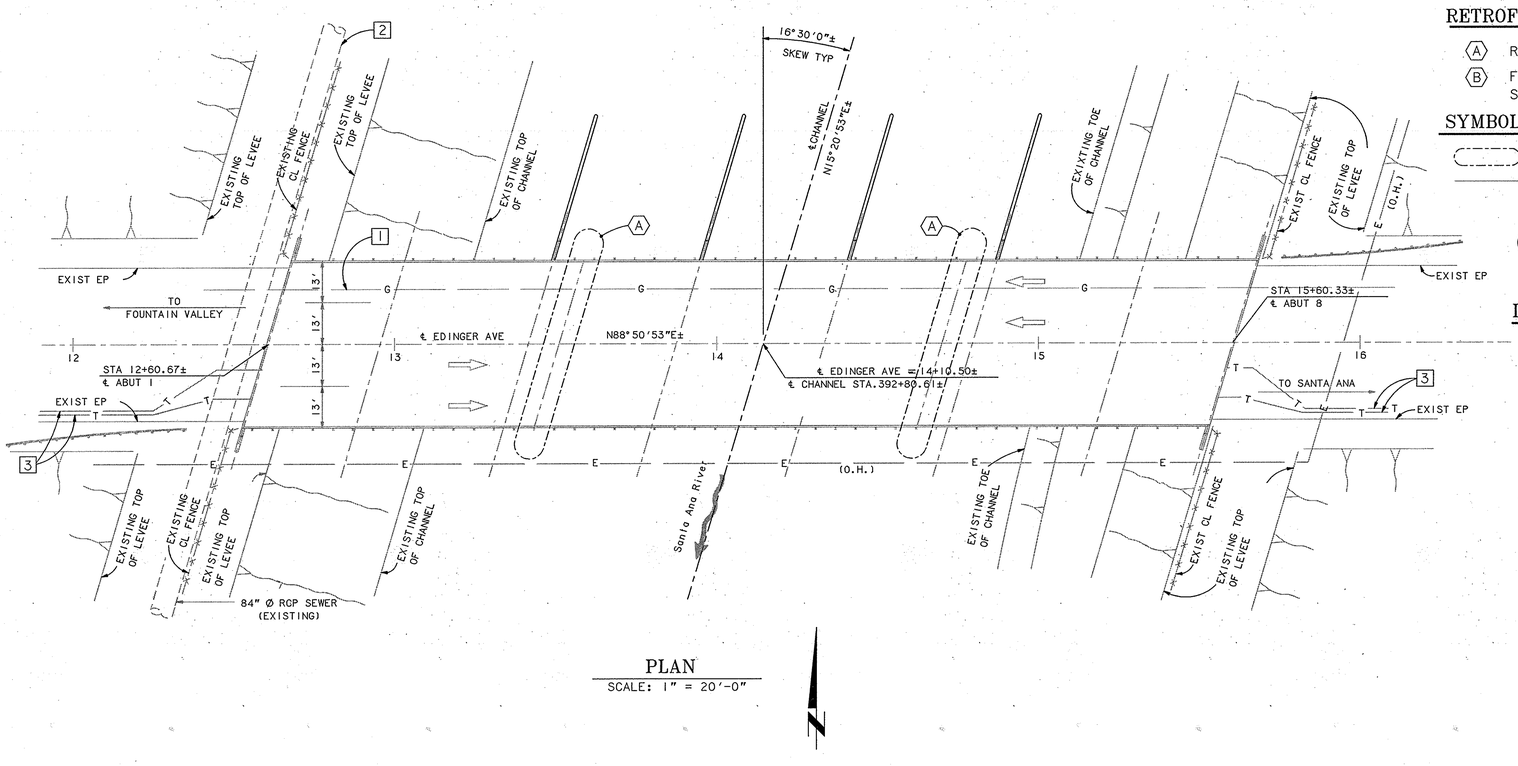
CONSTRUCTION: CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JULY 1992 AND THE PROJECT SPECIAL PROVISIONS.

REINFORCED CONCRETE:

EXISTING CONCRETE (ASSUMED): f'c = 5,000 psi, fy = 44,000 psi

NEW CONCRETE (BRIDGE): f'c = 3,250 psi, fy = 60,000 psi, n = 9

SEISMIC DESIGN : PEAK ROCK ACCELERATION, A =0.4g
DEPTH OF ALLUVION > 150'



PLAN
SCALE: 1" = 20'-0"

COMPUTER AIDED DESIGN & DRAFTING
DESIGN FILENAME:

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

ROBERT BEIN, WILLIAM FROST & ASSOC.
14725 ALTON PARKWAY
IRVINE, CALIFORNIA 92718

U.S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY: H.M.
DRAWN BY: J.L.S.
CHECKED BY: HIM/PRY

SANTA ANA RIVER MAINSTEM
INCLUDING SANTIAGO CREEK, CALIFORNIA

LOWER SANTA ANA RIVER CHANNEL
(SAN DIEGO FREEWAY TO RIVER VIEW GOLF COURSE)

EDINGER AVENUE BRIDGE
GENERAL PLAN

SUBMITTED BY: DATE:

SPEC. NO. DACW09-93-B-

DISTRICT FILE NO. 239/796

SHEET R-6 OF R-16 SHEETS

SAFETY PAYS