

## SECTION F

### CONSTRUCTION DETAILS

#### F-1 DESCRIPTION OF WORK

The work to be done consists of restoring and protecting flood damaged bridge approaches. The bridge, BR 55-37, is located on Brea Boulevard within unincorporated Orange County. The nearest major intersecting street is Central Avenue which is located onehalf of a mile southerly of BR 55-37.

The work consists essentially of construction of a reinforced concrete rectangular channel, reinforced concrete wing walls, embankment fills, deep lift A.C. pavement, and placement of rock invert and slope protection.

#### F-2 COOPERATION

The requirements in Subsection 5-6, "Cooperation," and 7-7, "Cooperation and Collateral Work," of the Standard Specifications are amended as follows:

The Contractor shall cooperate with the utility companies while they are protecting and/or relocating their utility lines as shown on the plans.

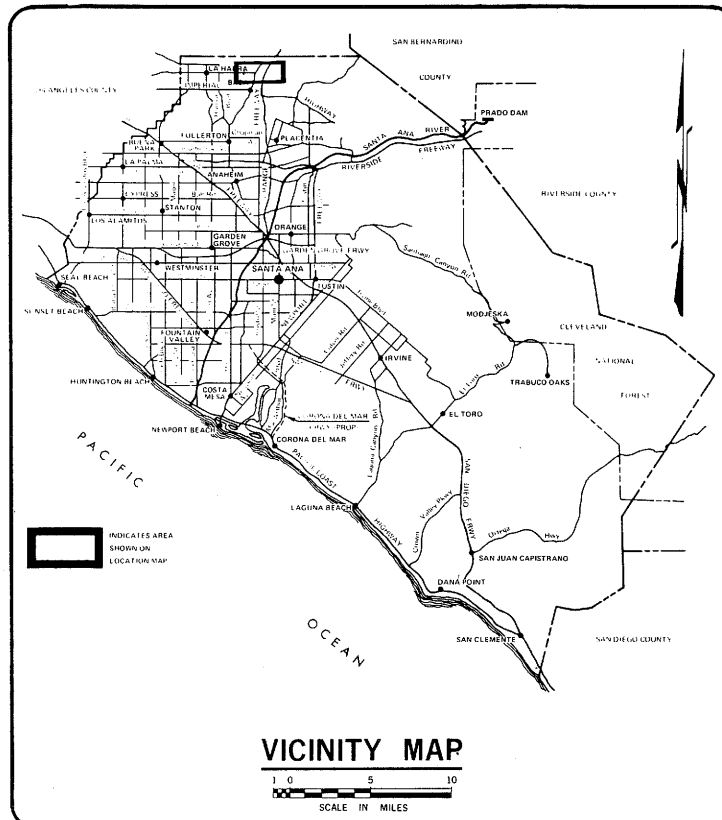
The Contractor shall notify the utility owners that are identified on the plans and in Section F-5 of these Specifications 72 hours before commencement of any work on this project.

The Contractor shall notify Russ Campbell, Metropolitan Water District, at (213) 626-4282 x539, 72 hours before

commencement of any work on this project. Water is occasionally discharged from a pressure release valve upstream of the project. The Contractor shall protect his work against any discharge from said release valve.

#### F-3 OBSTRUCTION AND UTILITIES

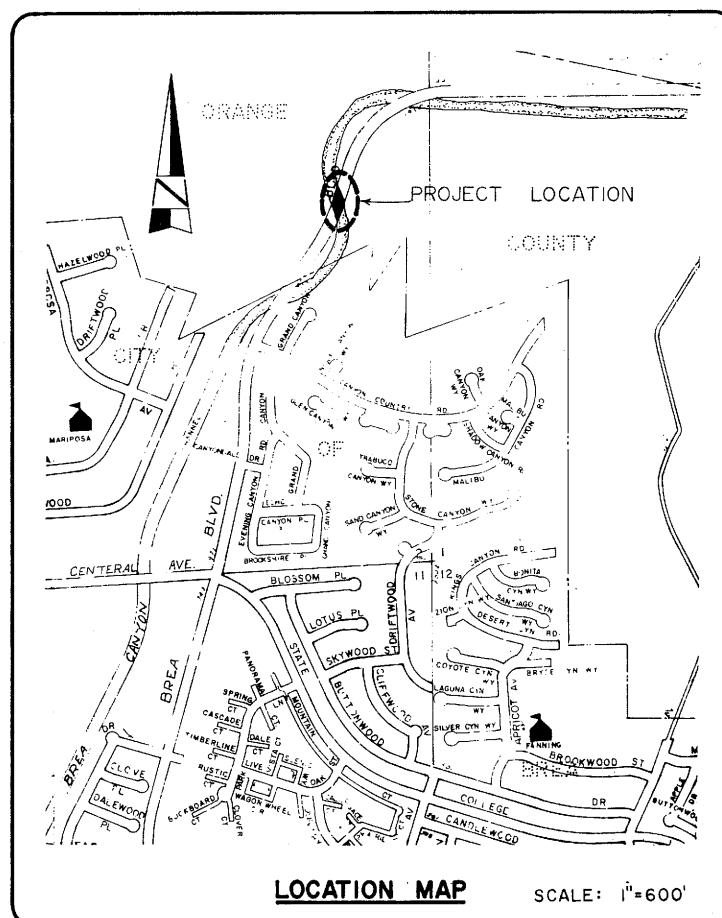
The Agency has endeavored to locate and show on the plans the approximate locations of all private and public utilities and facilities to be encountered during construction. However, it is possible that, during the work, unknown substructures requiring relocation or protection may be encountered. Such unknown substructures will generally fall into two classes, namely those requiring relocation or protection at the expense of the owner, and those requiring relocation or protection at the expense of the Agency.



# ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA  
M. STORM, DIRECTOR

## PLANS FOR RESTORATION OF BREA BLVD. BRIDGE APPROACHES AT BREA CANYON CHANNEL



FUNDED BY: FEDERAL HIGHWAY ADMINISTRATION. ER-995(5)

### EMA-DEVELOPMENT

SUBMITTED: *William H. Tally* 6/13/80  
SECTION CHIEF RCE 16799

RECOMMENDED: *H.*  
DIVISION MANAGER RCE 13154

APPROVED: *C.P. Y. L.* 6-18-80  
ASSISTANT DIRECTOR RCE 13142

### INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET.
2	PLAN AND PROFILE ROAD CONSTRUCTION.
3	CHANNEL PLAN AND PROFILE.
4	R.C. RECTANGULAR CHANNEL SCHEDULE AND DETAILS.
5	ELEVATION VIEWS OF WINGWALLS.
6 & 7	CHANNEL CROSS SECTIONS.

### UTILITY

UTILITY	PHONE NO.
SHELL OIL CO.	213-427-2314 ROGER WOOD
	714-991-9200 LEWIS COERT
MOBIL OIL CO.	213-941-8751 BILL HENSLEY
BREA CANYON OIL CO.	714-529-3242 ERNIE JOHNSON
PACIFIC TELEPHONE	714-776-0065 AL CASHEN
WASTE WATER DISPOSAL CO.	714-525-4373 SCOTT TEMPLE
UNDERGROUND SERVICE ALERT (U.S.A.)	1-800-422-4133
METROPOLITEN WATER DISTRICT	213-626-4282 RUSS CAMPBELL
SOUTHERN CAL. EDISON	714-835-3833 V. CICHOSKI

### BENCH MARK:

TBM: HIGHPOINT OF TOP OF CURB OF US N/WLY WING-WALL (EL. 409.77) AS PER 1929 DESIGN PLANS FOR BREA CANYON ROAD, SHEET 18 OF 22

### BASIS OF BEARING:

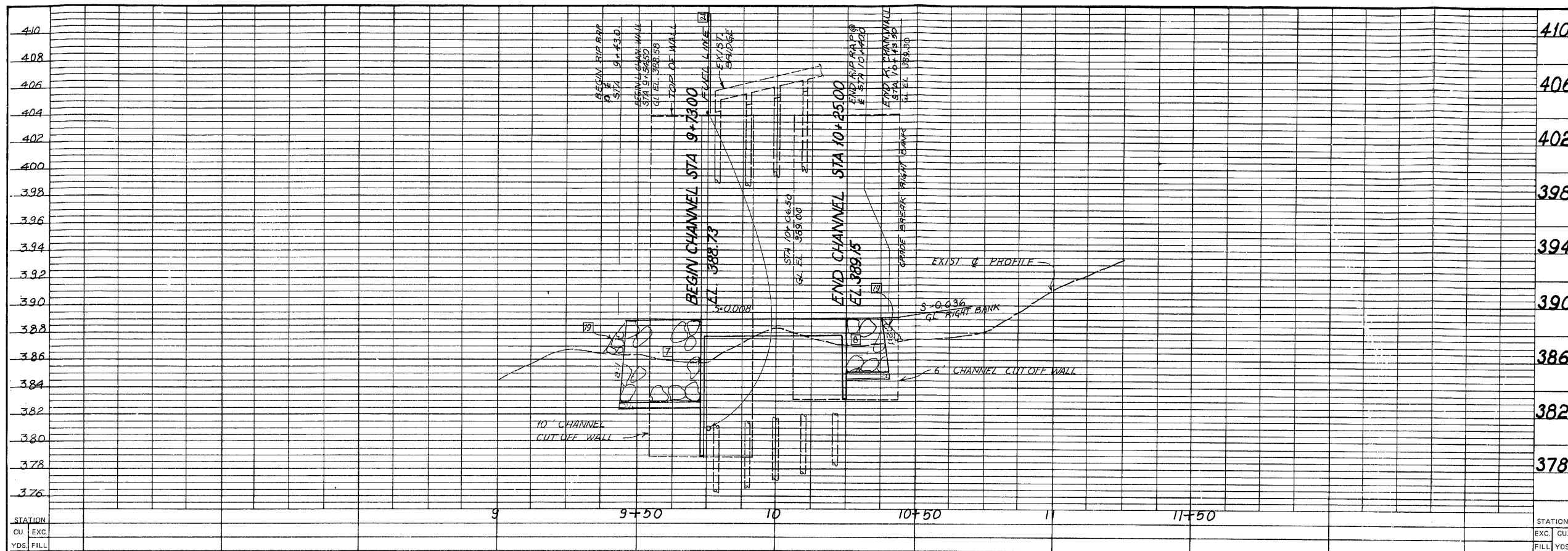
CENTER LINE OF BRIDGE N 25° 09' 00"E AS BASIS OF BEARING.

NO.	DESCRIPTION	SHT.	APPROVED	DATE
REVISIONS				

W. O. NO. 27187  
DWG. NO. 9(13/23)

SHEET 1 OF 7





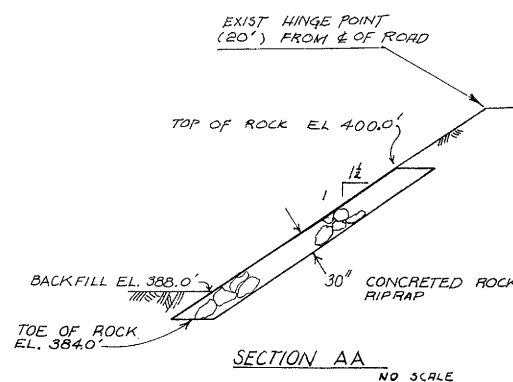
# CONSTRUCTION NOTES

- 1 Protect in place
- 2 Remove interfering portions
- 3 Remove
- 4 Construct 12" A.C. Deep lift pavement
- 5 Construct reinforce concrete channel per detail sheets 4 & 5
- 6 Reconstruct guard rail per O.C. std 403
- 7 Construct 6 ft concrete 2 ton rock rip-rap invert protection per details sheet 2.
- 8 Construct 4 ft concrete 2 ton rock rip-rap invert protection
- 9 Construct down drain 20 L.F. per details sheet 2. and O.C. std 321
- 10 Construct guard cable fence per O.C. std 413 and these plans
- 11 Construct 1 1/2:1 Embankment slope.
- 12 Construct 30" concrete rock slope protection.
- 13 Place salvaged riprap as directed by Engineer.
- 14 Remove interfering portions of existing chain link fence and reconstruct as shown or as directed by the engineer.
- 15 To be relocated by Owner.

HYDRAULIC DATA	$Q_{100}$	$n$	$b$	$S$	$d_n$	$d_c$	$Z$	$V_n$	$V_c$	$F_n$
D/S.	11500	0.05	36	0.036	9.72	11.50	2.5:1	19.60	15.44	1.31
CHANNEL	11500	0.014	37	0.008	9.62	14.43	0	32.30	21.54	1.80
U/S.	11500	0.05	24	0.036	9.84	11.28	4:1	18.40	14.80	1.31

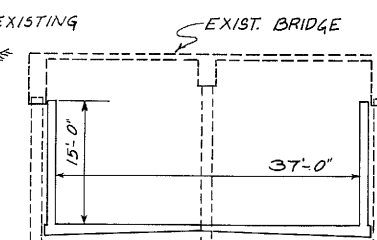
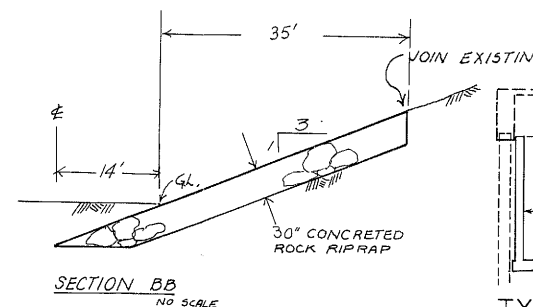
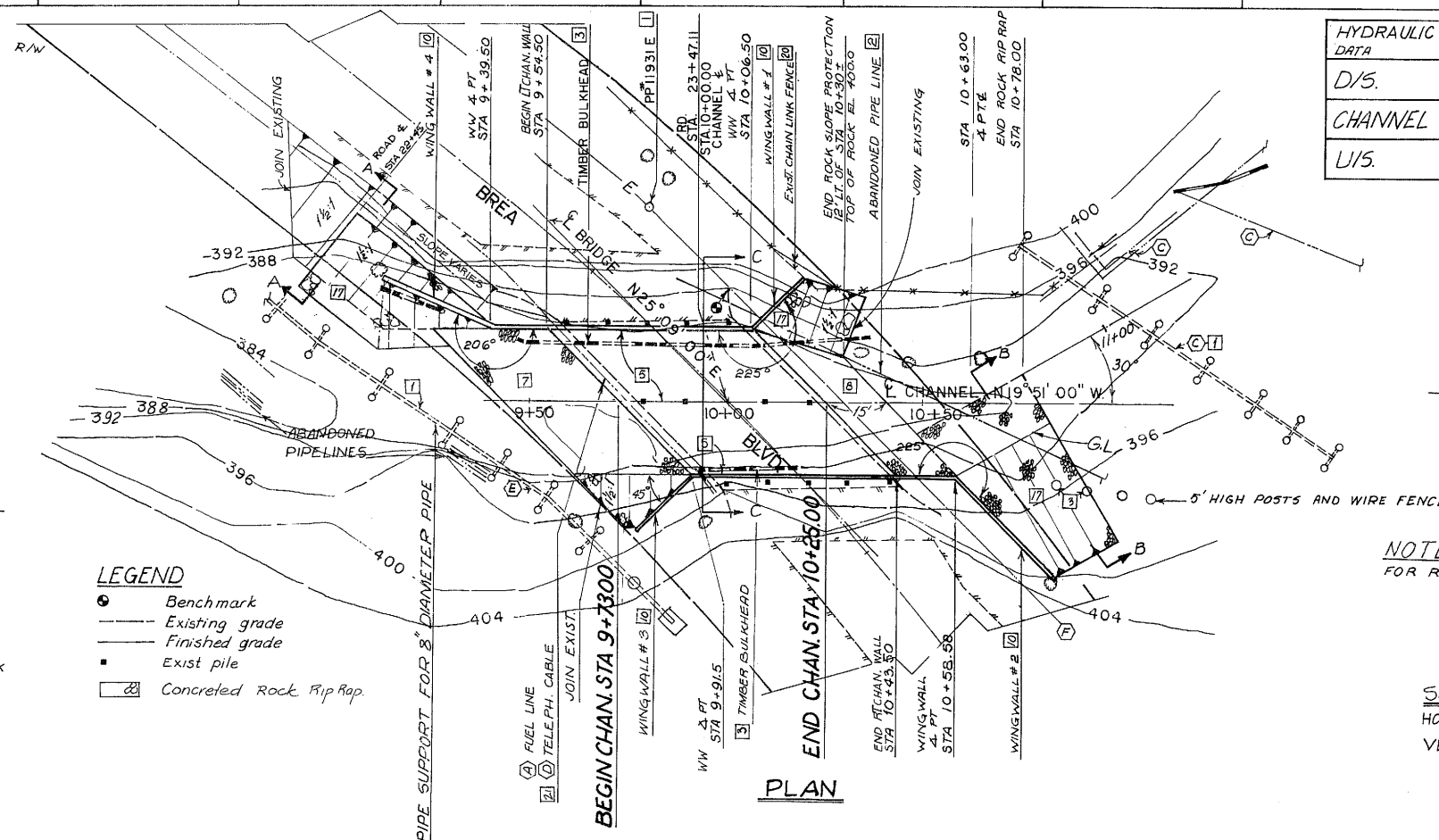
## UTILITY NOTES

- (A) Shell Oil
- (B) Mobil Oil
- (C) Brea Canyon Oil
- (D) Pacific Telephone
- (E) Waste Water Disposal
- (F) Southern Cal. Edison



## LEGEND

- Benchmark
- Existing grade
- Finished grade
- Exist pile
- ▨ Concreted Rock Riprap



NOTE: SEE SHEET 2 FOR ROAD WORK

SCALE:  
HOR: 1" = 20'  
VER: 1" = 4'

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		BREA BLVD. BRIDGE		BR. 55-37.	
CHANNEL PLAN AND PROFILE.					
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	M.A.M.	SHEET
REVISIONS			DATE		3
DESIGNED	M.A.	SCALE	DATE	DWG. NO.	
DRAWN	H.S.H.	CHECKED	MAM	AS SHOWN	3-80 9(13123)