

BRIDGE QUANTITIES
APPROXIMATE QUANTITIES

FURNISH STEEL PILING (HP10 x 42)	2,580	L.F.
FURNISH STEEL PILING (HP 12 x 74)	6,780	L.F.
DRIVE STEEL PILE (HP 10 x 42)	60	EA.
DRIVE STEEL PILE (12 x 74)	360	EA.
PRESTRESSING CAST-IN-PLACE CONCRETE		L.S.
JOINT SEAL ASSEMBLY (MR = 4")	74	L.F.
CONCRETE BARRIER (TYPE 25 MODIFIED)	2,480	L.F.

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	2,900	C.Y.
STRUCTURE BACKFILL (BRIDGE)	1,650	C.Y.
STRUCTURAL CONCRETE, BRIDGE FOOTING	950	C.Y.
STRUCTURAL CONCRETE, BRIDGE	8,100	C.Y.
BAR REINFORCING STEEL (BRIDGE)	1,800,000	LBS.
MISCELLANEOUS METAL (BRIDGE)	12,400	LBS.
MISCELLANEOUS METAL (RESTRAINER)	6,000	LBS.
MISCELLANEOUS IRON AND STEEL	1,176	LBS.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: AASHTO DATED 1977 WITH INTERIMS AND AS SUPPLEMENTED BY
BRIDGE DESIGN SPECIFICATIONS INSERTS.

DEAD LOAD: INCLUDES 35 PSF FOR FUTURE WEARING SURFACE.

LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD P-13

REINFORCED CONCRETE: $f_y = 60,000$ PSI
 $f'_c = 3,500$ PSI
 $n = 9$
TRANSVERSE DECK SLABS (WORKING STRESS DESIGN)
 $f_s = 20,000$ PSI
 $f'_c = 1,200$ PSI
 $n = 10$

PRESTRESSED CONCRETE: SEE "GIRDER LAYOUT"

STEEL PILES

LOCATION	PILE TYPE	BEARING	PILE TIP E1
ABUTMENT 1	HP 10 X 42	45T	775
PIER 2	HP 12 X 74		764
PIER 3	HP 12 X 74		757
PIER 4	HP 12 X 74	90T	755
PIER 5	HP 12 X 74		760
PIER 6	HP 12 X 74		768
PIER 7	HP 12 X 74		772
ABUTMENT 8	HP 10 X 42	45T	827

DECK MANHOLES

1. STA. 236 + 22.95 - 31 FT. RIGHT, WATER
2. STA. 237 + 23.71 - 50 FT. RIGHT, SEWER
3. STA. 241 + 29.90 - 50 FT. RIGHT, SEWER
4. STA. 241 + 49.50 - 31 FT. RIGHT, WATER
5. STA. 245 + 70.72 - 50 FT. RIGHT, SEWER
6. STA. 246 + 39.50 - 31 FT. RIGHT, WATER

CONTRACTOR SHALL FURNISH AND INSTALL
MANHOLE FRAMES AT THESE LOCATIONS.

MANHOLE COVERS WILL BE FURNISH BY
THE SANTA MARGARITA WATER DISTRICT.

FOR MANHOLE DETAILS AND FOR DECK DETAILS
AT MANHOLES, SEE STANDARD PLAN B7-II "UTILITIES DETAILS".

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46	CONCRETE BARRIER TYPE 25
47	LOG OF TEST BORINGS

1 1/2 0 1 2
3 inches on original drawing



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
ALICIA PARKWAY BRIDGE (AR-2) OVER ARROYO TRABUCO CREEK (LO-2)	
INDEX TO PLANS	
MARK	DATE
DESCRIPTION	
PREPARED UNDER SUPERVISION OF	
DATE	
REVISIONS	
DESIGNED	W. F. POND
DRAWN	E. G.
CHECKED	
SCALE	DATE
AS SHOWN	DWG. NO.
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