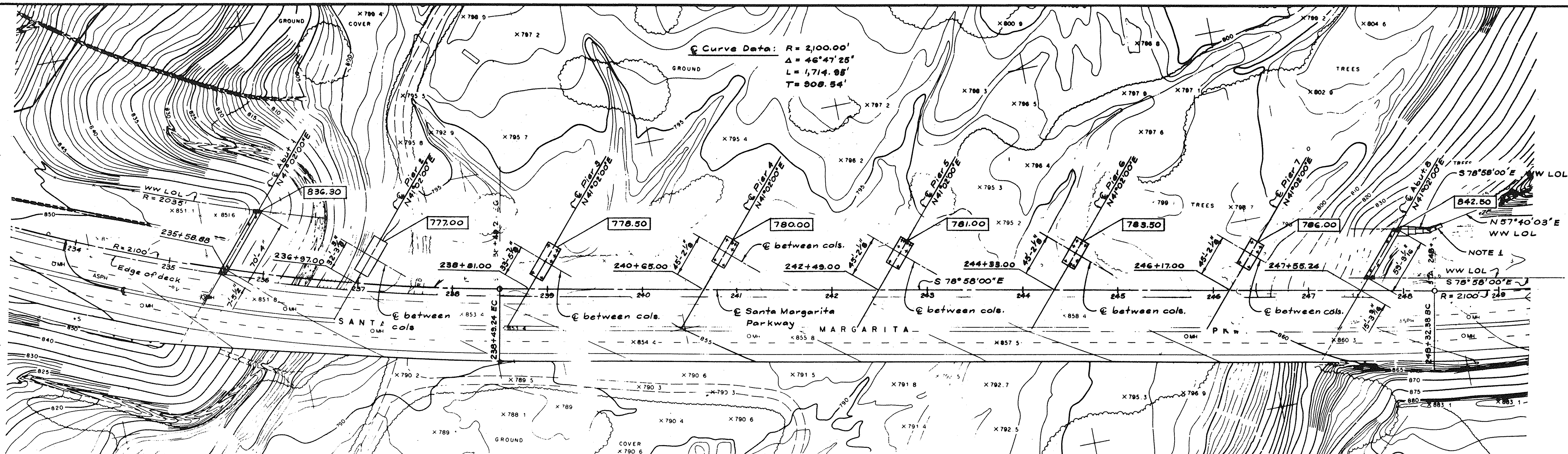




AS BUILT PILE DRIVING DATA

PILE DRIVER, MAKE AND MODEL: DEMAG D30-32
 DRIVING ACTION: DIESEL
 RATED ENERGY: 69,898
 RAM WEIGHT: 6,615 LBS
 MAX. STROKE: 10.5'
 BEARING VALUE FORMULA:
 $P = \frac{2E}{S+0.1}$ OR $P = \frac{2E}{S+0.1}$

LOCATION	CUT-OFF ELEVATION	MAXIMUM TIP ELEVATION	MINIMUM TIP ELEVATION	AVERAGE "AS BUILT" PILE TIP ELEVATION	AVERAGE STROKE HEIGHT	AVERAGE BLOW PER FOOT	AVERAGE BEARING VALUE (TONS)
ABUT. 1	836.7	767.2	770.3	770.3	9.02'	66.4	212.6
PIER 3	778.9	754.0	754.0	754.0	9.16'	41.7	156.3
PIER 4	780.4	756.0	761.7	756.2	9.53'	51.5	189.3
PIER 5	781.4	751.4	758.0	756.6	8.46'	27.8	105.3
PIER 6	783.9	760.4	761.9	760.9	9.47'	46.4	174.7
PIER 7	786.4	764.5	768.1	766.3	9.57'	78.9	251.1
ABUT. 8	842.9	781.9	784.1	784.1	8.50	37.0	132.5

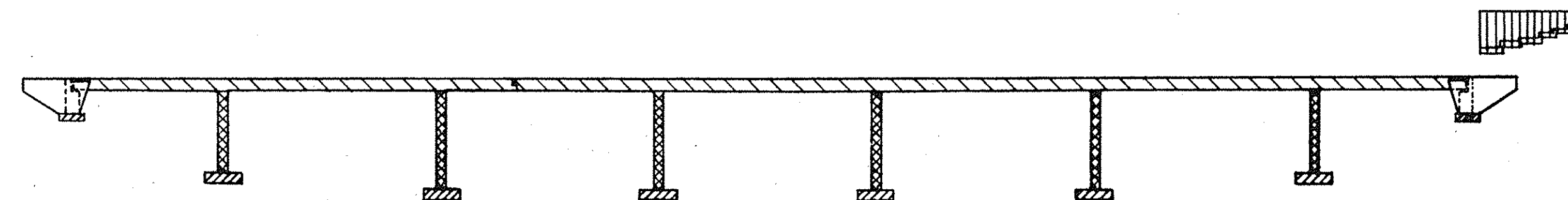
PILE DATA				
LOCATION	DESIGN LOADING	PILE TYPE	SPECIFIED TIP ELEVATION	PROBABLE TIP ELEVATION
ABUT. 1	70 TON	HP 10X57 STEEL PILE	770.00	767.00
PIER 3	90 TON	HP 12X74 STEEL PILE	754.00	751.00
PIER 4	" "	" " " "	756.00	753.00
PIER 5	" "	" " " "	758.00	755.00
PIER 6	" "	" " " "	761.00	758.00
PIER 7	" "	" " " "	765.00	762.00
ABUT. 8	70 TON	HP 10X57 STEEL PILE	785.00	782.00

FOUNDATION PLAN

1" = 50'

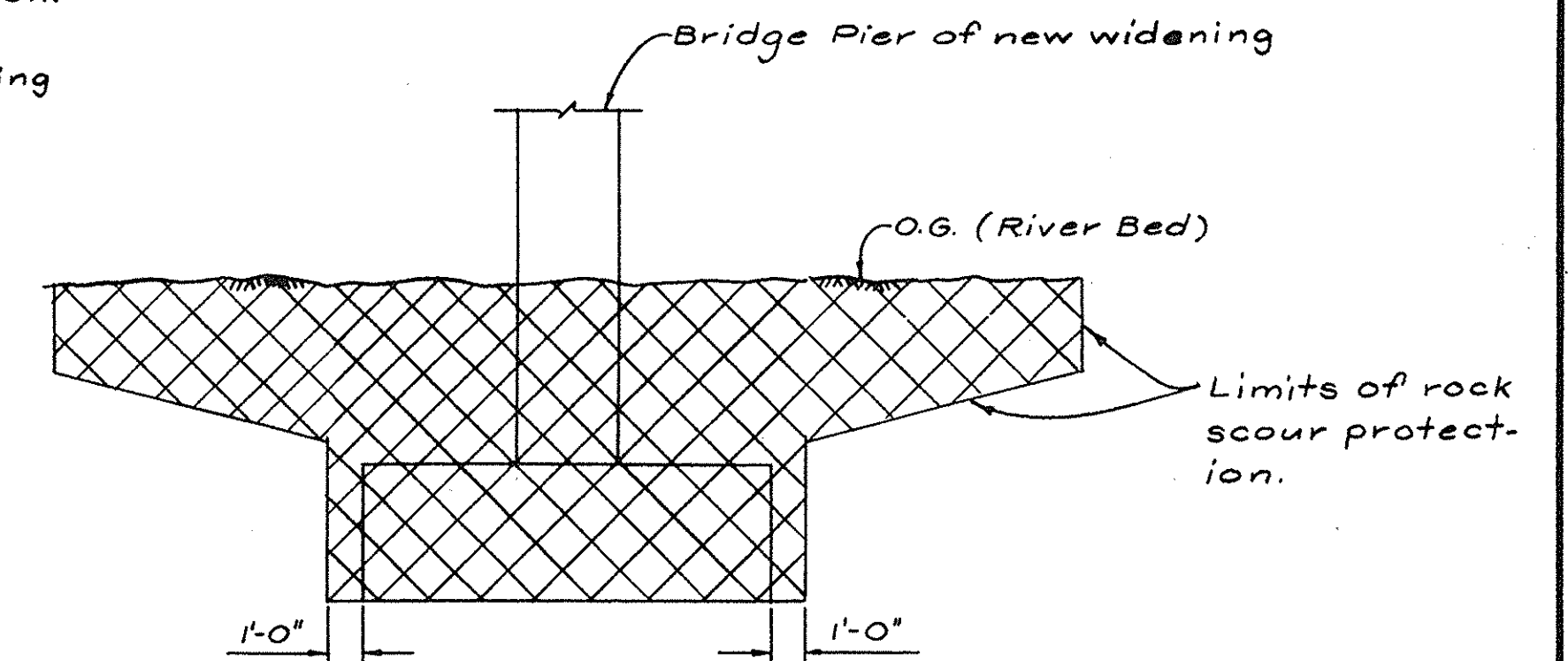
836.30 — Denotes bottom of footing elevation.

NOTE 1: See "Abutment Details-2" for retaining wall bottom of footing elevations.



- — Structural Concrete, Bridge
- ▨ — Structural Concrete, Bridge (4000 psi @ 28 days)
- ▩ — Structural Concrete, Bridge (3250 psi @ 28 days)
- ▧ — Structural Concrete, Bridge Footing
- ▦ — Structural Concrete, Retaining Wall

CONCRETE STRENGTH & TYPE LIMITS



Structure Excavation (Type D)

Note: For limits not shown, see AG2-C & AG2-B

LIMITS OF EXCAVATION

No Scale

GENERAL NOTES
LOAD FACTOR DESIGN
 DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 ASSHTO with Interims and CALTRANS Supplements).
 DEAD LOAD: Includes 35 psf for future wearing surface.
 LIVE LOADING: HS20-44 and Alternative and Permit Design Load.
 REINFORCED CONCRETE: $f'_c = 3,250$ psi
 $f_y = 60,000$ psi
 $n = 9$
 TRANSVERSE DECK SLABS: $f'_c = 1,200$ psi
 (Working Stress Design) $f_s = 20,000$ psi
 $n = 10$
 PRESTRESSED CONCRETE: See "Prestressing Notes"
 FOOTING PRESSURE (TONS PER SF): ALLOWABLE DESIGN
 PIER 2 6.0 5.6



AS BUILT 3.93 SLH

 McDANIEL ENGINEERING COMPANY, INC. 5000 OLD TOWN AVE., SUITE 200, SAN DIEGO, CA 92110 (619) 592-1000	DESIGNED BY WMA DRAWN BY RLA CHECKED BY CCC FIELD BOOK	SANTA MARGARITA PARKWAY BRIDGE OVER ARROYO TRABUCO - WIDENING	SHEET 25 OF 57 DATES
	APPROVED BY DATE 6-28-89	R.E. C34299 9-30-91	FOUNDATION PLAN

DR. 14 15799