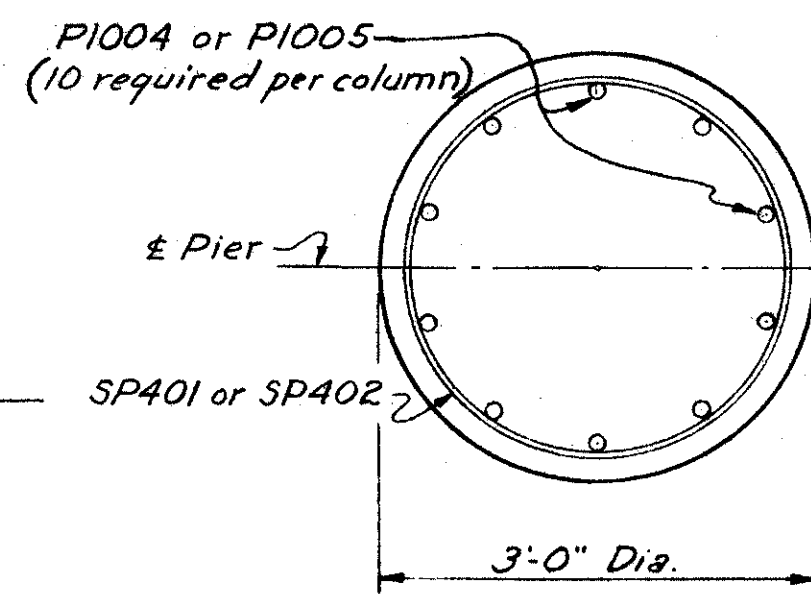
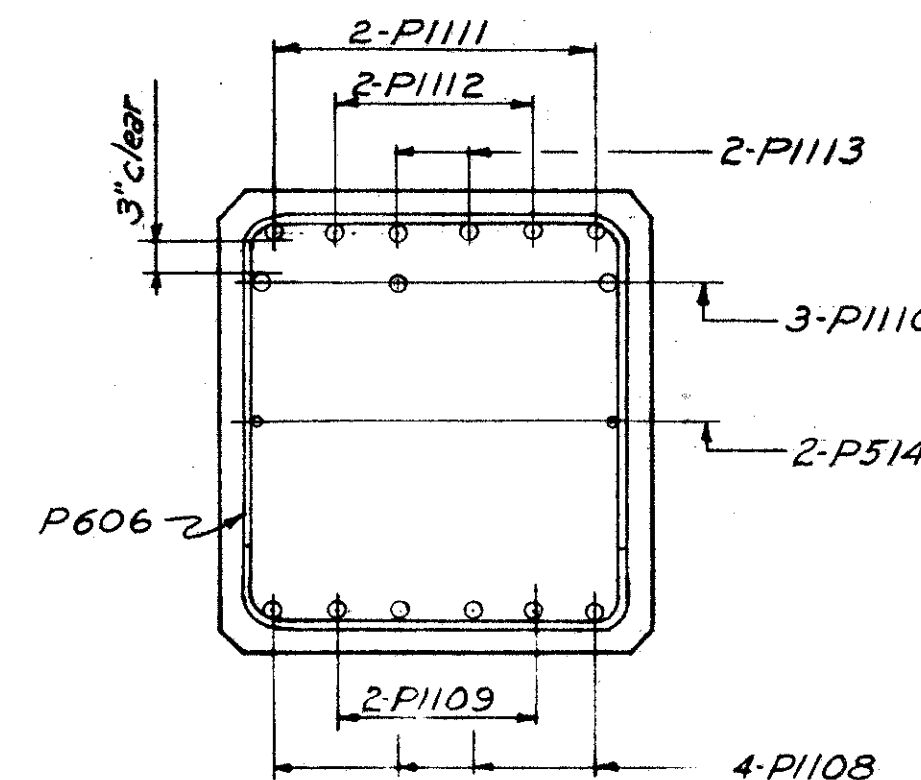


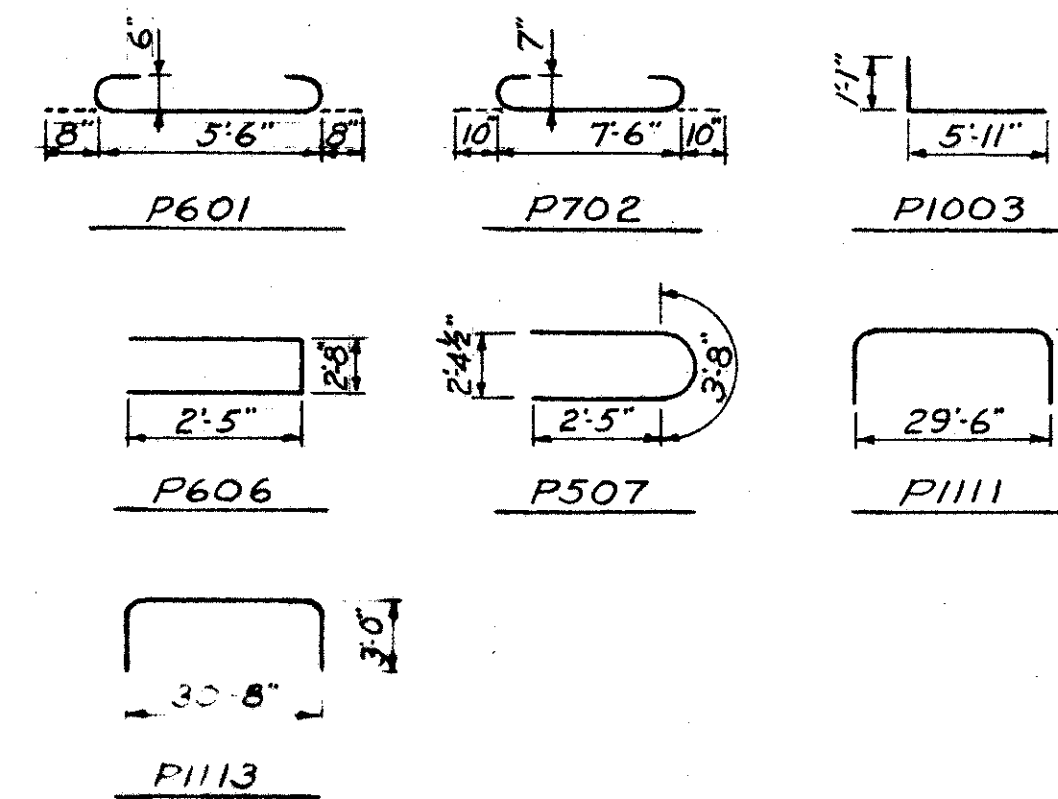
PIER CAP PLAN



SECTION C-C

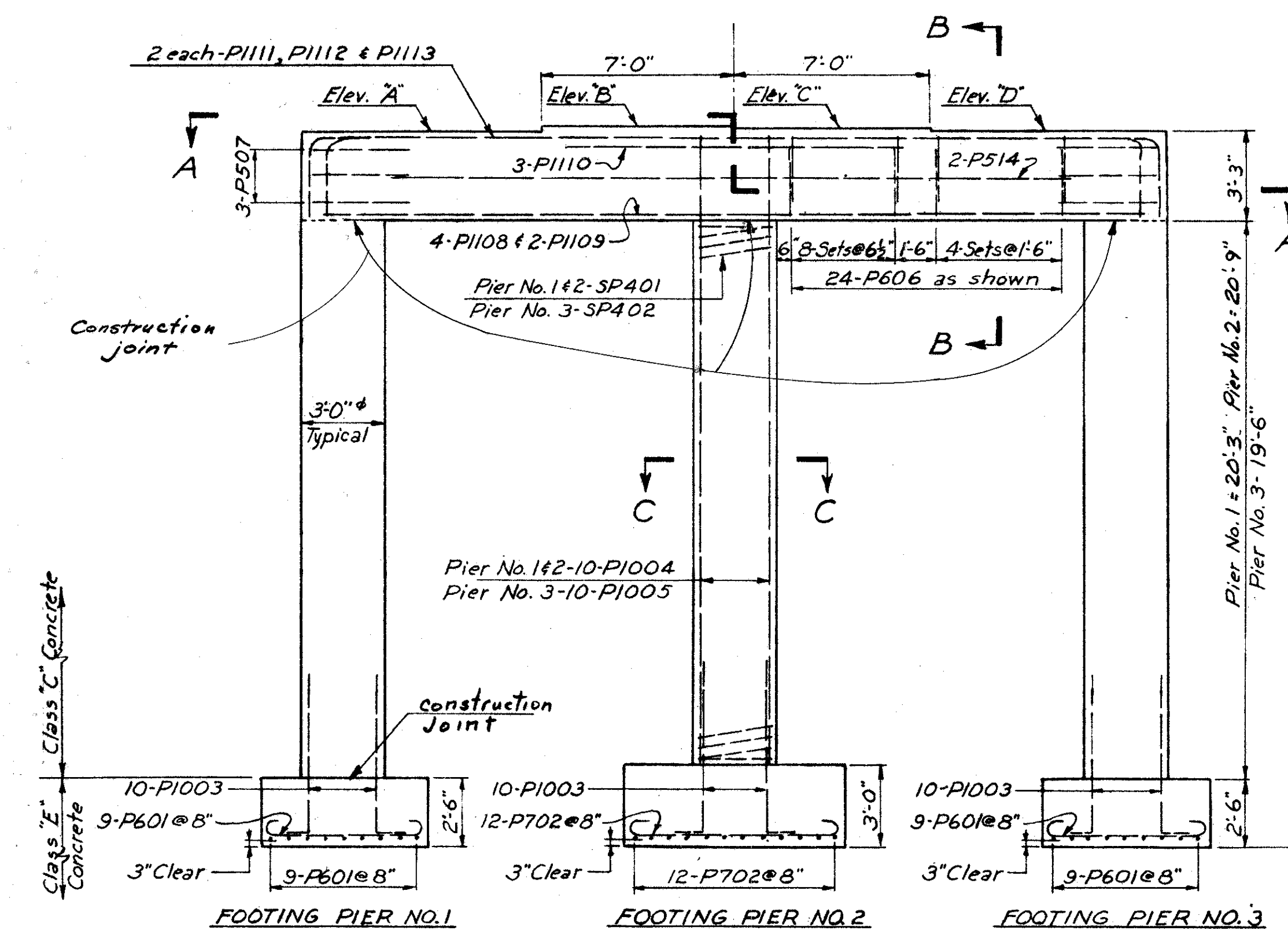


SECTION B-B

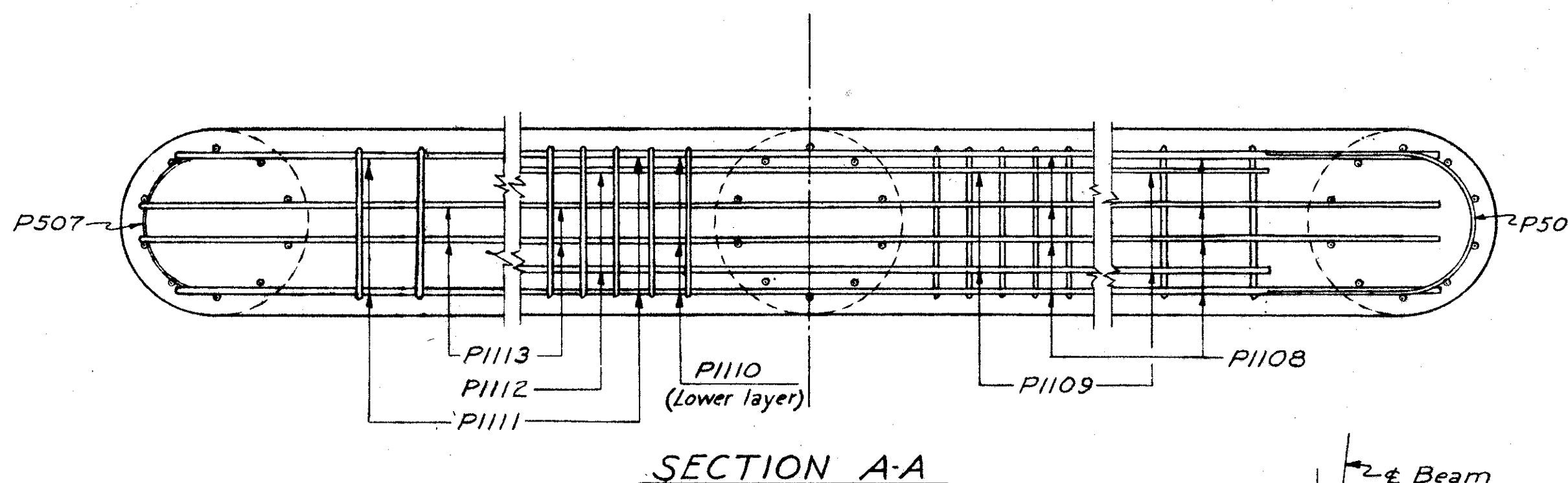


BAR BEND DETAILS

PIER BAR LIST									
MARK	NO. REQ'D			SIZE	LENGTH	TYPE	WEIGHT		
	PIER-1	PIER-2	PIER-3					TOTAL	
P601	54	-	54	108	6	6'-10"	Bent	1108	
P702	-	72	-	72	7	9'-2"	Bent	1350	
P1003	30	30	30	90	10	6'-9"	Bent	2614	
P1004	30	30	-	60	10	23'-3"	Str.	6003	
P1005	-	-	30	30	10	22'-6"	Str.	2905	
P606	48	48	48	144	6	7'-2"	Bent	1550	
P507	6	6	6	18	5	8'-6"	Bent	160	
P1108	4	4	4	12	11	29'-5"	Str.	1876	
P1109	2	2	2	6	11	24'-0"	Str.	765	
P1110	3	3	3	9	11	12'-0"	Str.	574	
P1111	2	2	2	6	11	34'-10"	Bent	1110	
P1112	2	2	2	6	11	20'-0"	Str.	638	
P1113	2	2	2	6	11	36'-0"	Bent	1148	
P514	2	2	2	6	5	27'-0"	Str.	169	
							TOTAL WEIGHT	24,809	

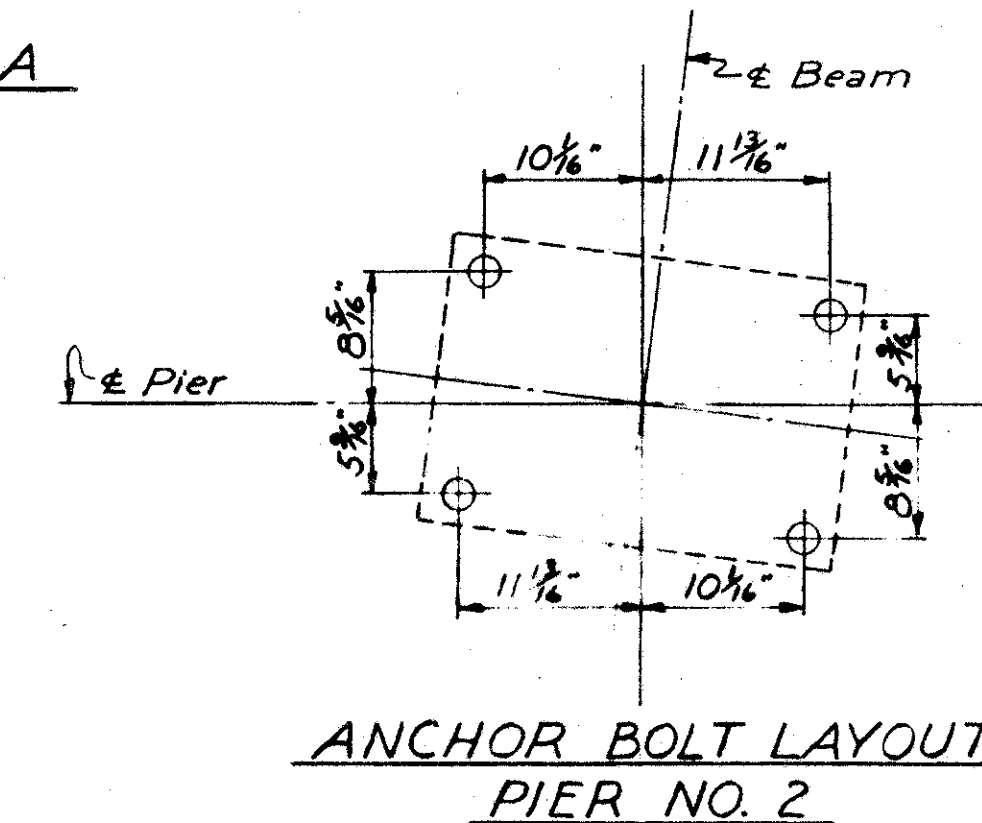


TYPICAL PIER ELEVATION
(LOOKING AHEAD)



SECTION A-A

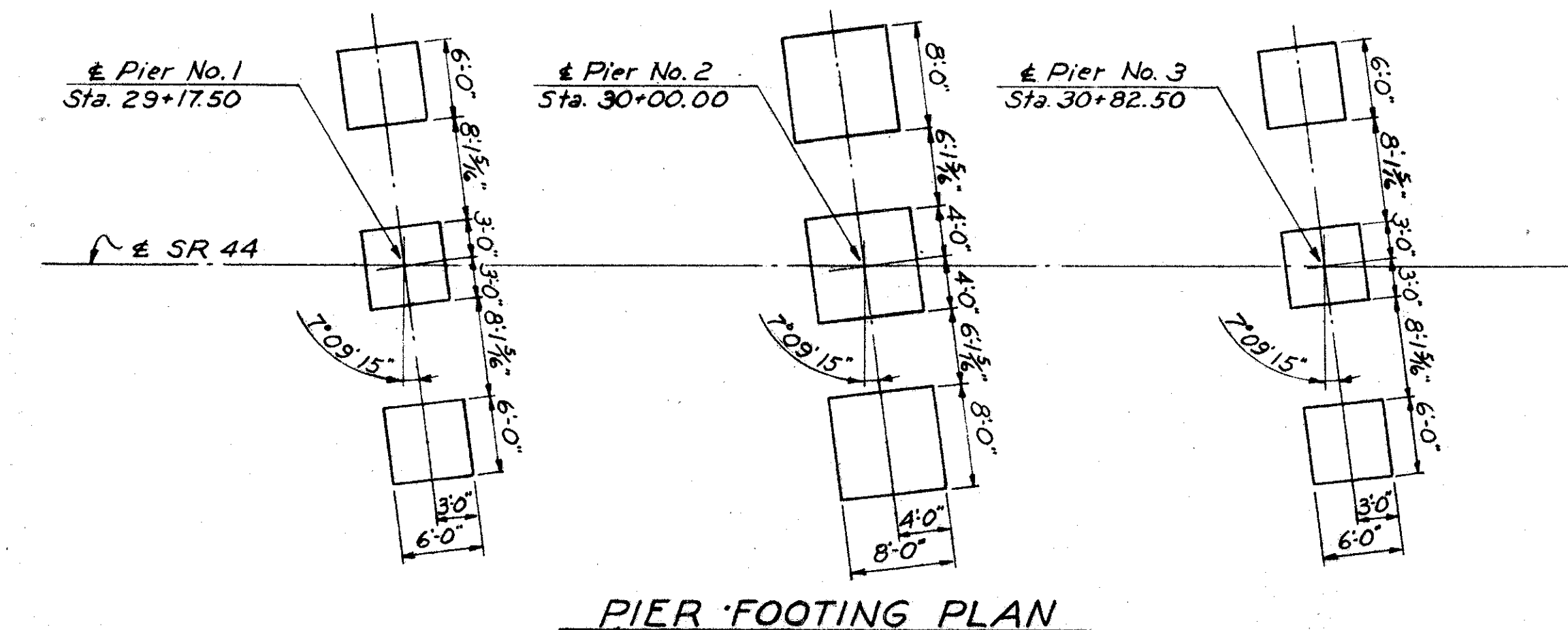
TABLE OF ELEVATIONS				
	A	B	C	D
Pier No. 1	824.19	824.33	824.33	824.18
Pier No. 2	823.57	823.71	823.19	823.54
Pier No. 3	822.49	822.61	822.59	822.43



ANCHOR BOLT LAYOUT
PIER NO. 2

NOTES

- FOOTINGS shall extend a minimum of 3" into shale (may be broken) or to the elevation shown, whichever is lower.
- FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure 5 1/2 tons per sq. ft.
- Special care shall be taken in placing reinforcing steel in the bridge seat so that it will not interfere with the drilling of anchor bolt holes.
- All pier details and reinforcement are symmetrical about the centerline of the pier, unless otherwise noted.
- All columns and footings are similar except as noted.
- SPIRAL REINFORCING BARS: The "Length" shown in the bar list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item S-4. 1/2 closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.



PIER FOOTING PLAN

SEC. C-32 FED. AID PROJ. NO. ACI-1103 (21)

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR
STATE OF OHIO
DEPARTMENT OF HIGHWAYS

PIER DETAILS
BRIDGE NO. LAK-1-1493
S.R. 1 UNDER EXIST. S.R. 44
LAKE COUNTY

STA. 434 + 55.38

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
JFM	JFM		J		