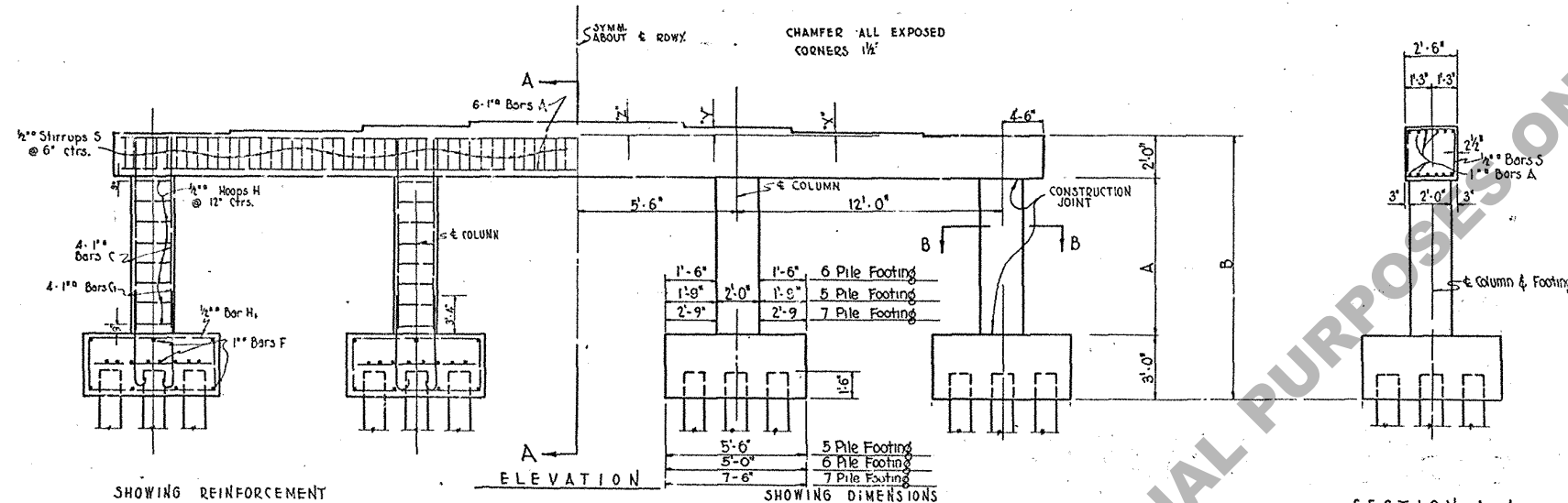


PLAN OF CAP

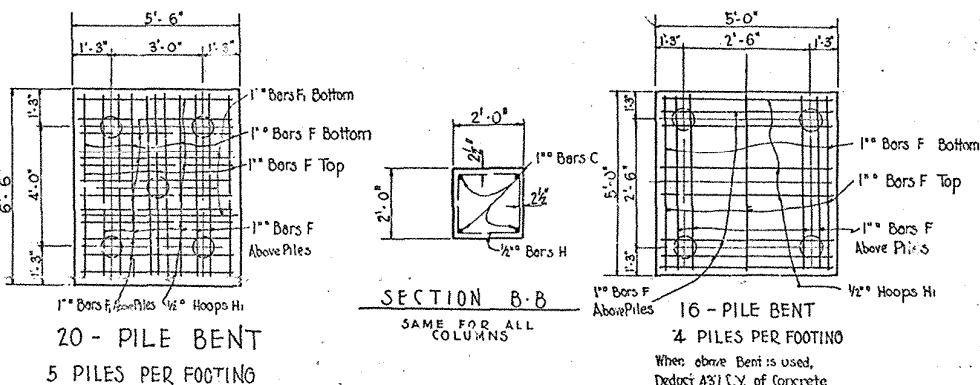


SHOWING REINFORCEMENT

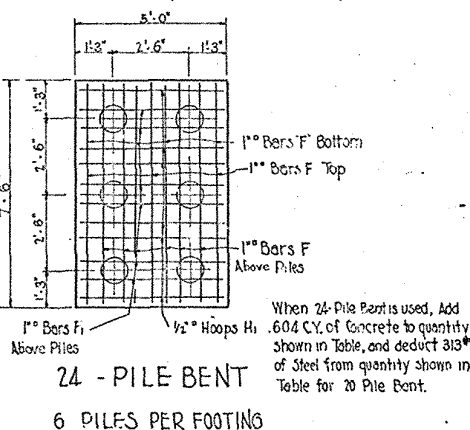
ELEVATION

SHOWING DIMENSIONS

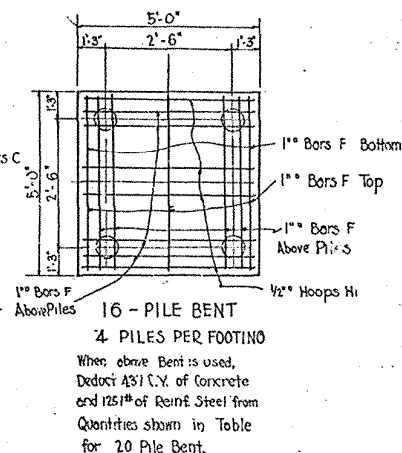
SECTION A-A



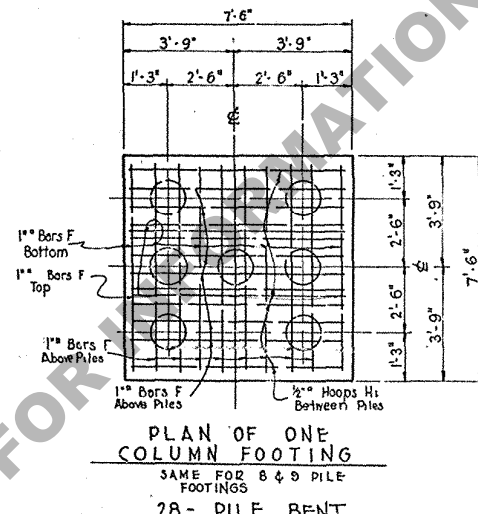
20-PILE BENT
5 PILES PER FOOTING



24-PILE BENT
6 PILES PER FOOTING

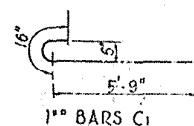
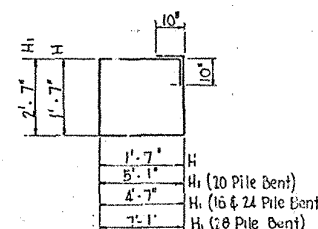
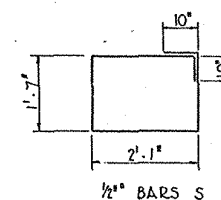


16-PILE BENT
4 PILES PER FOOTING
When above Bent is used,
Deduct 437 C.Y. of Concrete
and 1251# of Reinf. Steel from
Quantities shown in Table
for 20-Pile Bent.



PLAN OF ONE
COLUMN FOOTING
SAME FOR 8 & 9 PILE
FOOTINGS
28-PILE BENT

When 28-Pile Bent is used, add 8,762 C.Y.
of Concrete and 476# of Reinf. Steel to
Quantities shown in Table for 20-Pile Bent.



BILL OF REINF STEEL - 20 PILE BENT					
MARK	SIZE	Nº	UNIT LENGTH FT. - IN.	TOTAL LENGTH FT. - IN.	LOCATION
S	1/2"	88	9'-0"	792'-0"	Stirrups - Cap
H	1/2"	Variable	8'-0"		Columns
H1	1/2"	24	17'-0"	403'-0"	Footings
H1	1/2"	16	17'-0"	272'-0"	Footings (16 Pile Bent)
A	1"	12	43'-8"	524'-0"	Cap
C	1"	16	A + 1'-9"		Columns
C1	1"	16	7'-1"	113'-4"	Columns - Footings
F	1"	60	6'-2"	370'-0"	Footings (20 Pile Bent)
F	1"	40	5'-2"	206'-8"	Footings (20 Pile Bent)
F	1"	52	7'-1"	372'-8"	Footings (24 Pile Bent)
F1	1"	24	4'-8"	112'-0"	Footings (24 Pile Bent)
F	1"	100	7'-2"	716'-8"	Footings (28 Pile Bent)
F	1"	52	4'-8"	242'-8"	Footings (16 Pile Bent)

TABLE OF QUANTITIES - 20 PILE BENT			
DIMENSIONS	CLASS 'A' CONCRETE CU. YDS.	REINF. STEEL LBS.	
A 8	24.94	5488	
4 9	25.53	5569	
5 10	26.13	5651	
6 11	26.72	5732	
7 12	27.31	5814	
8 13	27.91	5896	
9 14	28.50	5977	
10 15	29.09	6059	
11 16	29.68	6140	
12 17	30.28	6222	
13 18	30.87	6304	
14 19	31.46	6385	
15 20	32.05	6467	

Class 'A' Concrete in above table does not include the concrete in risers

For Estimating Purposes - Pile Butt is taken @ 1'-0" ϕ
Load on Piles = 16 Tons Per Pile

SPAN IN FEET	DIST. 'X' IN INCHES	DIST. 'Y' IN INCHES	DIST. 'Z' IN INCHES	CONC. IN RISERS
30	2 1/2	4	4	0.822 C.Y.
35	2 1/2	3 1/2	4	0.64
40	2 1/2	3 1/2	4	0.861
45	2 1/2	4	4	0.911
50	2 1/2	3 1/2	4	0.841
55	2 1/2	3 1/2	4	0.834
60	2 1/2	3 1/2	4	0.822

LENGTH OF SPANS (Two Spans)	No PILES REQD. PER BENT
60 - "	16
80 - 91	20
100	24

GENERAL NOTES
LOUISIANA HIGHWAY COMMISSION SPECIFICATIONS
ALL CONCRETE TO BE CLASS 'A'
ALL REINFORCING STEEL TO BE DEFORMED BARS
SQUARE TWISTED BARS NOT CONSIDERED AS DEFORMED
ALL DIMENSIONS OF REINFORCING ARE TO BAR CENTERS
ALL EXPOSED SURFACES TO HAVE A "RUBBED" FINISH

To Be Used With S.C.41-15

- STANDARD PLAN -

FOUR COLUMN REINFORCED CONCRETE
INTERMEDIATE BENT ON TIMBER PILES
FOR 40'-41' ROADWAY BRIDGE

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA. NOV. 1935

DATE	DESCRIPTION	BY	IN CHARGE