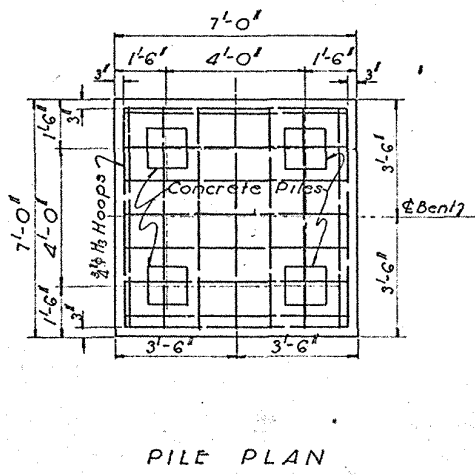
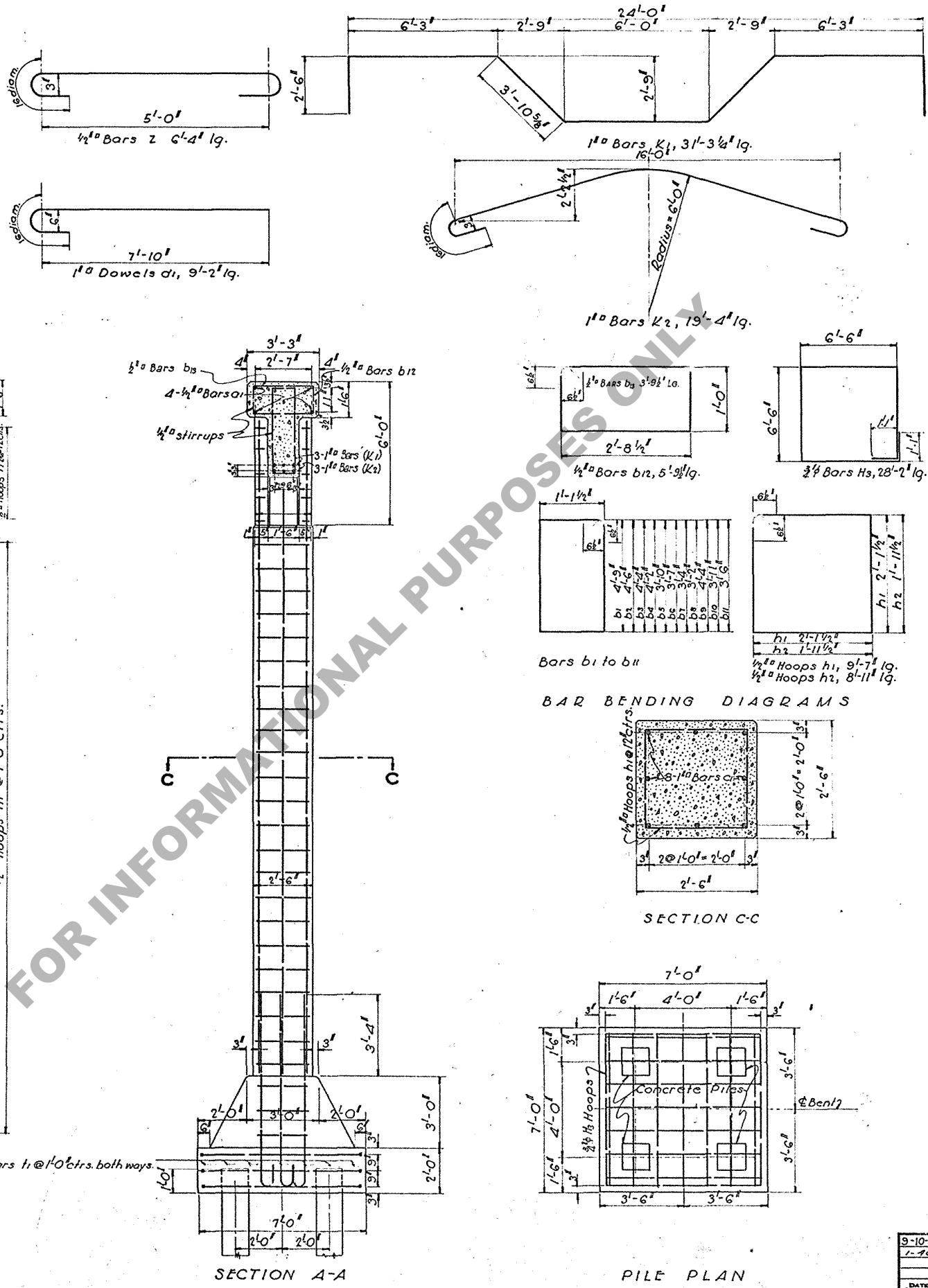
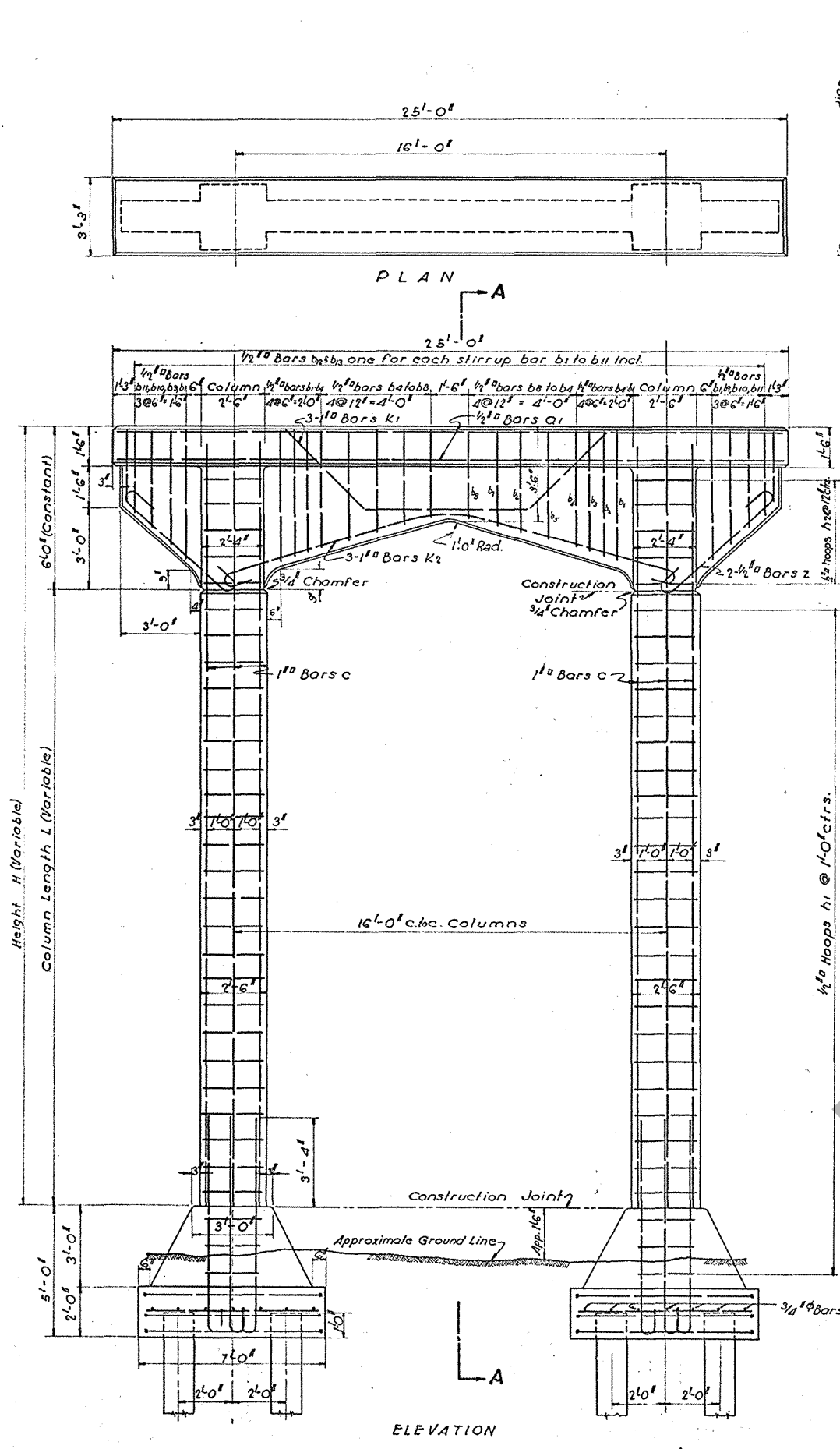




BILL OF MATERIAL FOR ONE BENT OF 10' HT.

BAR NO.	SIZE	Unit Lgth.	Total Lgth.	LOCATION
a1	4	1/2"	24'-6"	98'-0" Flange of Cap
b1	4	-	12'-10"	51'-4" Stirrups in Cap
b2	2	-	12'-4"	24'-8" - - -
b3	2	-	12'-0"	24'-0" - - -
b4	2	-	11'-8"	23'-4" - - -
b5	2	-	11'-0"	22'-0" - - -
b6	2	-	10'-6"	21'-0" - - -
b7	2	-	10'-0"	20'-0" - - -
b8	2	-	9'-8"	19'-4" - - -
b9	2	-	12'-0"	24'-0" - - -
b10	2	-	11'-2"	22'-4" - - -
b11	2	-	10'-4"	20'-8" - - -
b12	24	-	5'-9"	139'-0" - - -
b13	24	-	3'-9"	31'-0" - - -
h1	14	-	9'-7"	134'-2" Hoops in Cols.
h2	10	-	8'-11"	89'-2" - - -
z	4	-	6'-4"	25'-4" Incap overhang
Total 1/2" Bars 849'-4" = 722 Pounds				
h3	6	3/4"	28'-2"	169'-0" Hoops in base.
f1	28	-	6'-6"	182'-0" Horiz. in footing
Total 3/4" bars 351'-0" = 527 Pounds				
k1	3	1"	31'-3"	93'-9" Cap beam
k2	3	-	19'-4"	58'-0" - - -
c	16	-	9'-6"	152'-0" Vert. bars in Cols.
d1	16	-	9'-2"	146'-8" Dowels flg. to col.
Total 1" Bars 450'-3" = 1531 Pounds				

Note: H = distance from top of cap to pedestal.

QUANTITIES IN ONE CONC. COL. BENT

H	Class A' Reinf'g.	Unit load on piles in tons per pile	40' Span	36' Span	32' Span	28' Span
10'-0"	22.95	2180	23.5	21.6	20.0	18.3
12'-0"	23.88	2902	23.7	21.8	20.2	18.5
14'-0"	24.80	3064	24.0	22.1	20.5	18.8
16'-0"	25.73	3206	24.2	22.3	20.7	19.0
18'-0"	26.65	3348	24.4	22.5	20.9	19.2
20'-0"	27.58	3490	24.7	22.8	21.2	19.5
22'-0"	28.51	3631	24.9	23.0	21.4	19.7
24'-0"	29.43	3774	25.1	23.2	21.6	19.9
26'-0"	30.36	3916	25.4	23.5	21.9	20.2
28'-0"	31.28	4058	25.6	23.7	22.1	20.4
30'-0"	32.21	4200	25.8	23.9	22.3	20.6
32'-0"	33.14	4342	26.1	24.2	22.6	20.8
34'-0"	34.06	4484	26.3	24.4	22.8	21.1
36'-0"	34.99	4626	26.5	24.6	23.0	21.3

Variation in unit pile load = .11 tons per ft. of height.

ADDITIONAL QUANTITIES PER FOOT OF COLUMN HEIGHT

Class A' Concrete 463 Cu. Yds.

Reinforcing Steel 71 Pounds

General Notes

1. All dimensions of reinforcing steel are to bar centers. Bar splices are allowed only at points shown. All exposed corners unless otherwise noted are to be chamfered 1". All concrete above ground level to have a rubbed finish. 14" precast conc. piles used in calculating conc. quantities.

STANDARD PLAN

Reinf. Concrete Column Bent

For Std. R.C. Deck Girder Spans

C.G. 34-15 & C.G. 35-15

DESIGNED	CHECKED	TRACED
DATE	DESCRIPTION	BY
REVISIONS	IN CHARGE OF	BRIDGE DESIGNING ENGINEER