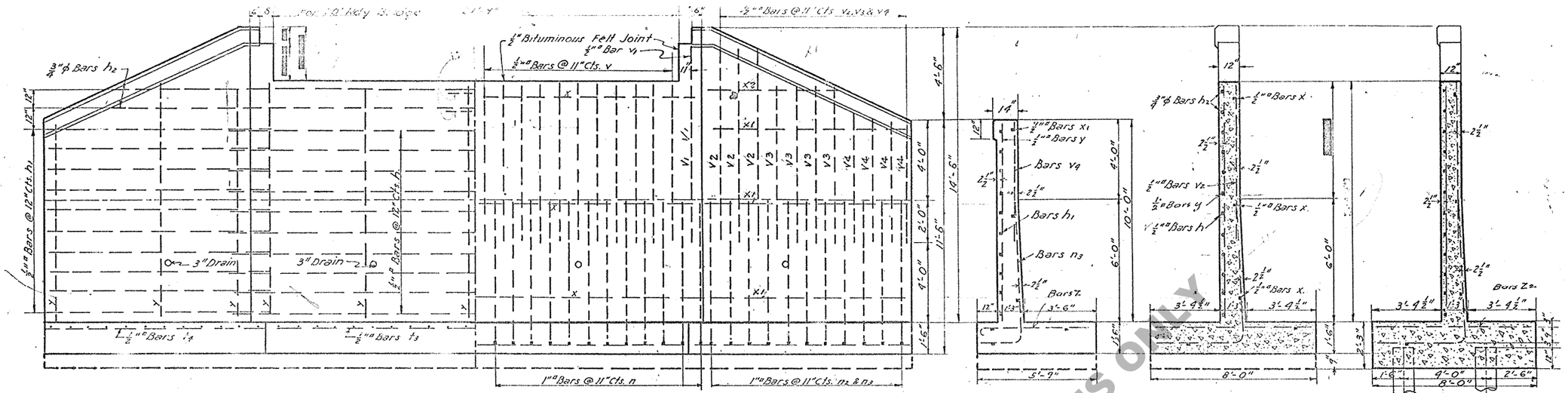


SHOWING REINFORCEMENT IN FRONT OF WALL AND TOP OF FOOTING.

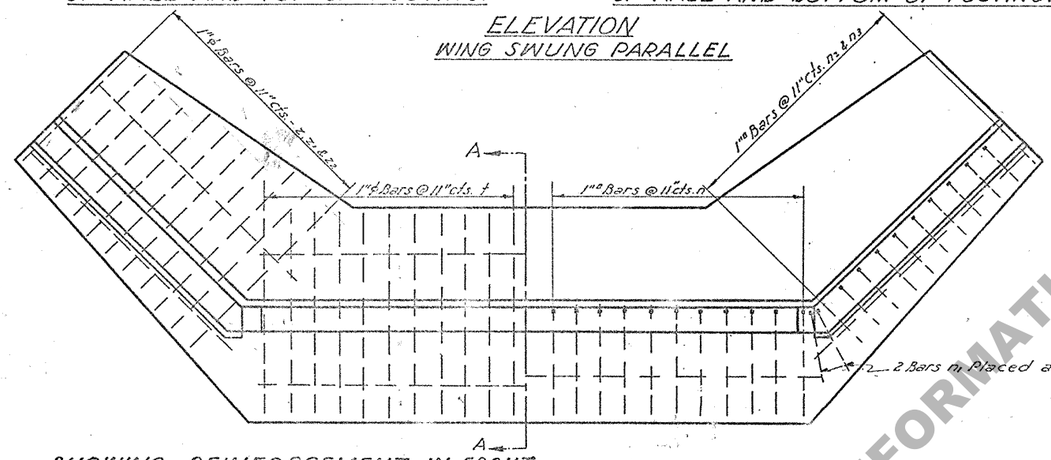
SHOWING REINFORCEMENT IN BACK OF WALL AND BOTTOM OF FOOTING.

END OF WING

SECTION A-A WITHOUT PILES

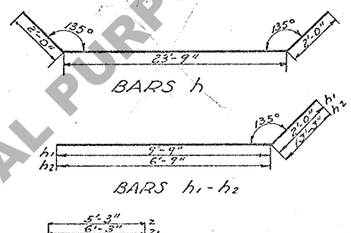
SECTION A-A WITH PILES

ELEVATION
WING SWUNG PARALLEL

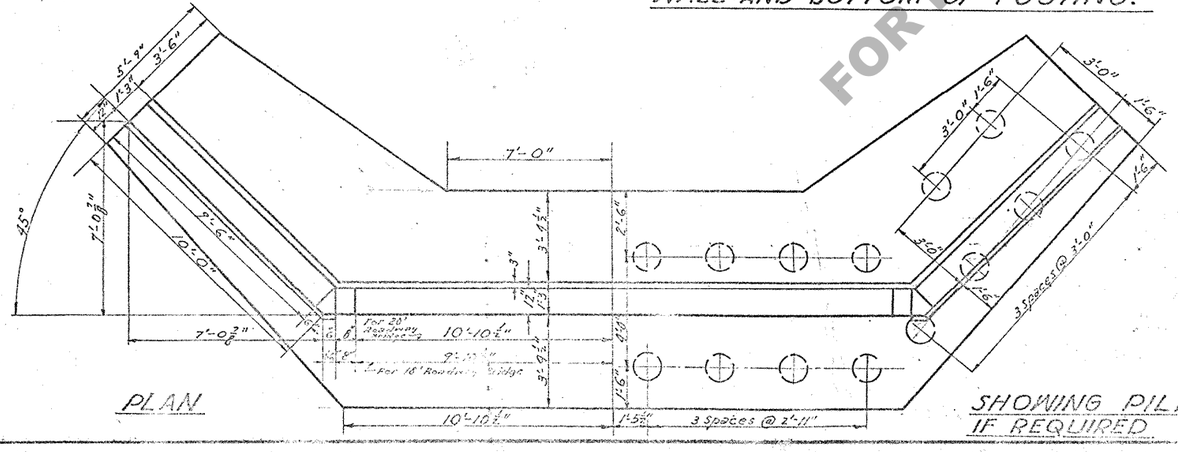


SHOWING REINFORCEMENT IN FRONT OF WALL AND TOP OF FOOTING.

SHOWING REINFORCEMENT IN BACK OF WALL AND BOTTOM OF FOOTING.



BENDING DIAGRAMS



SHOWING PILES IF REQUIRED

BILL OF MATERIALS.

BAR	No.	SIZE	LENGTH UNIT	LENGTH TOTAL	WEIGHT	LOCATION
h1	10	1/2"ø	27'-9"	227'-6"		HORIZONTALS IN MAIN WALL
h1	20	"	11'-9"	235'-0"		" " WING "
t3	3	"	21'-0"	63'-0"		TOP OF FOOTING UNDER M. WALL
t2	6	"	11'-0"	66'-0"		" " " WING "
v	23	"	5'-6"	126'-6"		VERTICALS IN MAIN WALL
v1	7	"	10'-6"	73'-6"		" " " "
v2	12	"	9'-6"	114'-0"		" " " WING "
v3	8	"	7'-9"	62'-0"		" " " "
v4	10	"	6'-3"	62'-6"		" " " "
x	3	"	23'-9"	71'-3"		FOR HOLDING REINF.
y	11	"	11'-6"	126'-6"	1051	" " "
h2	4	3/4"ϕ	20'-0"	80'-0"	120	HORIZ. WING & MAIN WALL
t	24	1"ø	7'-6"	180'-0"		TOP OF FOOTING UNDER M. WALL
z	8	"	6'-6"	52'-0"		" " " " WING "
z1	8	"	7'-6"	60'-0"		" " " " " "
z2	6	"	8'-3"	49'-6"		" " " " " "
					912	
n	25	1"ø	11'-0"	275'-0"		MAIN WALL AND FOOTING
n1	4	"	9'-9"	39'-0"		" " " "
n2	12	"	9'-0"	108'-0"		WING WALL " "
n3	12	"	8'-9"	105'-0"		" " " "
					1791	

Total Reinforcing Steel 3874 Lbs.
38.4 Cu. Yds. Class A. concrete (No Piling)
46.9 " " " " (With Piling)
23 Piles @ 20'-0" = 560 Lin. Ft. Piling (For Estimating Purposes Only)

DESIGN DATA

Specifications - Louisiana Highway Commission.
Equivalent fluid pressure 30 lbs. per cu. ft.
Steel in tension 16000 lbs. per sq. inch.
Concrete in compression 650 lbs. per sq. inch.
Shear class A concrete 90 lbs. per sq. inch.
This design is based on the net area of bars as follows: 1/2"ø = 0.25 sq. in. 3/4"ϕ = 0.442 sq. in., 1"ø = 0.785 sq. in., 1"ø = 1", 1 1/2"ø 1.563 sq. in.

GENERAL NOTES

Class A concrete to be used throughout. Proportions 1:2:4.
Reinforcing steel shall be deformed bars. Square twisted bars are not to be considered as deformed bars.
All dimensions relative to reinforcement are to centers of bars. No splices of bars will be permitted other than those shown on plans.
3" drains to be placed at 10'-0" ctrs. in wings and abutments just above ground line.
All material and workmanship as per specifications of the La. Hwy. Comm.
All exposed corners to be chamfered 1".
If piles are used, footing is to be deepened 9" as shown by dotted lines in the drawings. The number, kind and amount of reinforcing steel to remain unchanged.

STANDARD
16 FT. R. C. ABUTMENT.

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA.

Scale, 3/8" = 1'-0"
Dated Oct. 1923
Approved
State Highway Engineer

B-2-76 C-5-5