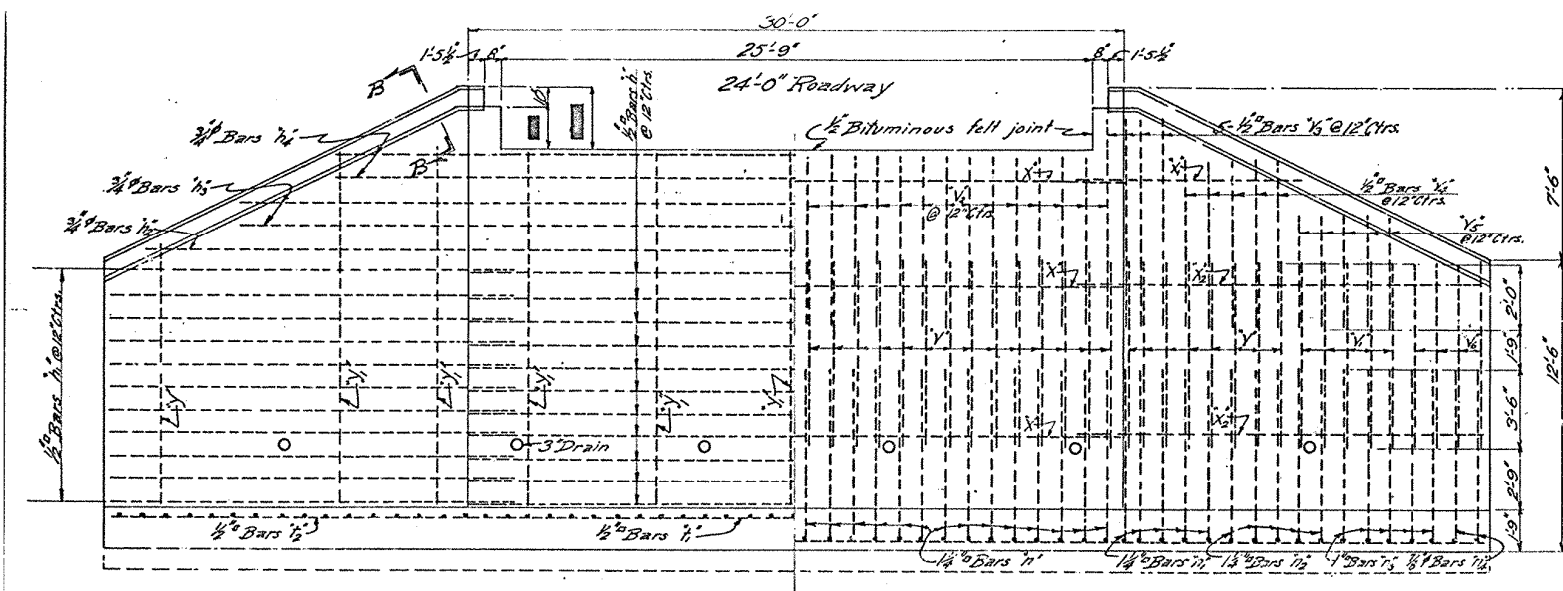
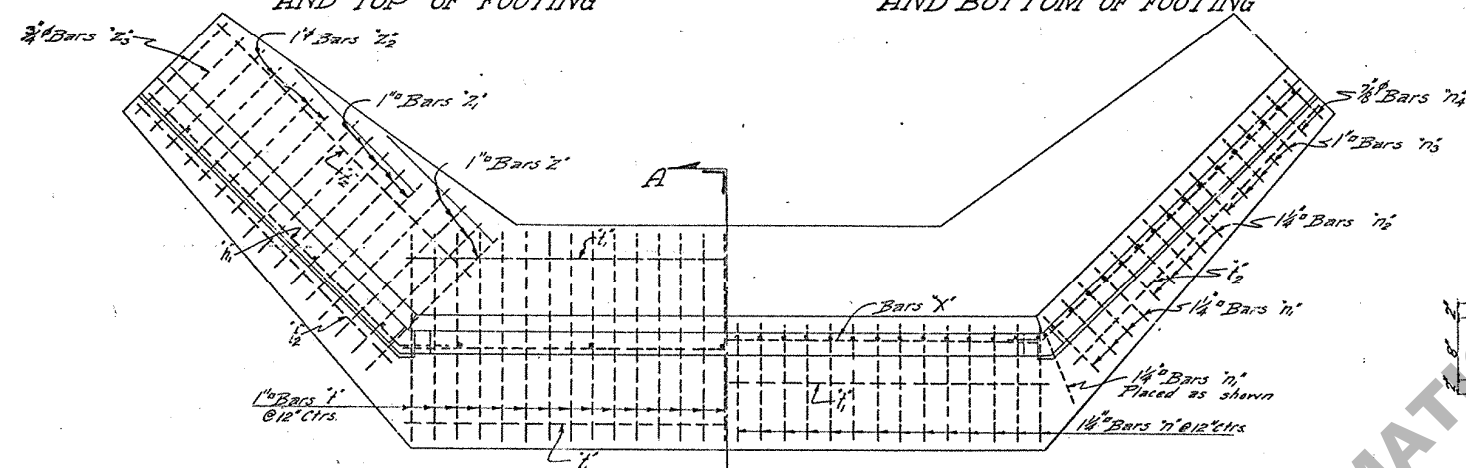




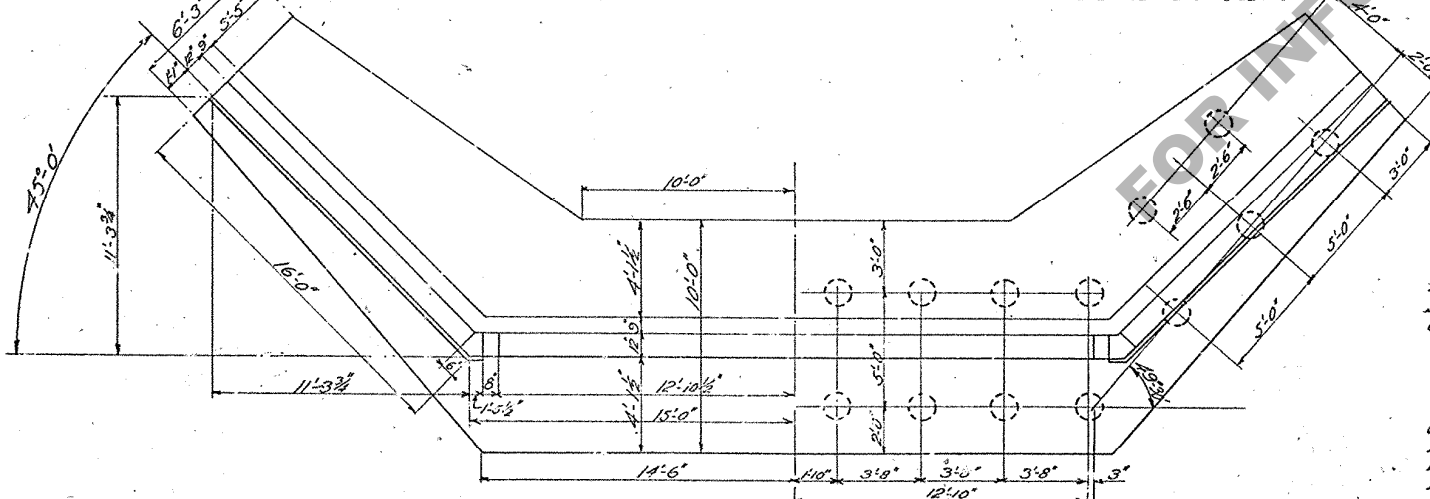
FRONT ELEVATION
SHOWING
REINFORCEMENT IN FRONT OF WALL
AND TOP OF FOOTING

FRONT ELEVATION
SHOWING
REINFORCEMENT IN BACK OF WALL
AND BOTTOM OF FOOTING



PLAN
SHOWING
REINFORCEMENT IN FRONT OF WALL
AND TOP OF FOOTING

PLAN
SHOWING
REINFORCEMENT IN BACK OF WALL
AND BOTTOM OF FOOTING



PLAN-WITHOUT PILES

PLAN-WITH PILES

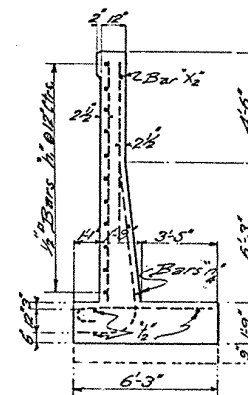
Specification - Louisiana Highway Commission
Shear class A concrete 40 Lbs. per sq. inch.
Concrete in compression 650 Lbs. per sq. inch.

DESIGN DATA

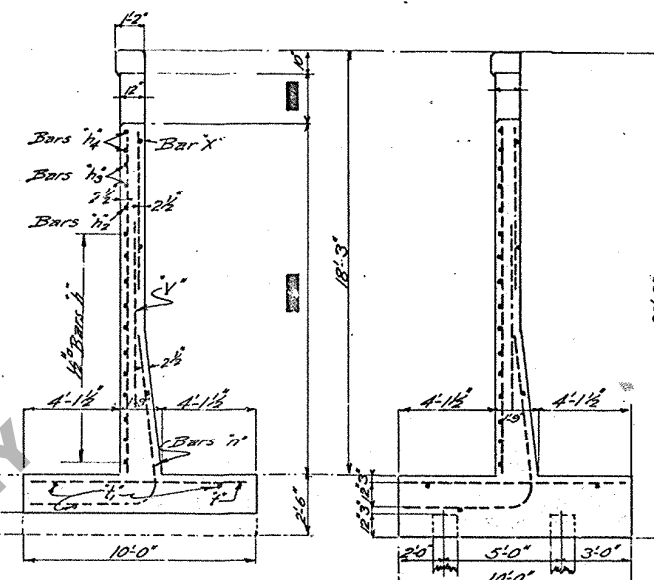
Steel in tension 16000 Lbs. per sq. inch.
Equivalent fluid pressure 30 Lbs. per cu. ft.

GENERAL NOTES

Class A concrete to be used throughout. Proportions 1:6
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 splicing of bars will be permitted other than those shown on plans.
3' Drains to be placed at 10' c'trs. in Wings and Abutments just above ground line.
All material and workmanship as per specifications of the Louisiana Highway Commission.
If piles are used, fouling is to be deepened 9' as shown by dotted lines on drawings.
The number, kind and amount of reinforcing steel to remain unchanged.



END OF WING



SECTION A-A
WITHOUT PILES

SECTION A-A
WITH PILES

BILL OF MATERIAL

Bar	No	Size	Length	Unit	Total	Weight	Location
V ₁	28	1/2"	7'-6"		210'-0"		Vertical in web
V ₂	10	"	9'-6"		95'-0"		"
V ₃	10	"	7'-0"		70'-0"		"
V ₄	10	"	4'-6"		45'-0"		"
V ₅	8	"	7'-3"		58'-0"		"
H ₁	11	"	30'-0"		330'-0"		Horizontal in web
H ₂	22	"	17'-9"		390'-6"		"
H ₃	3	"	28'-3"		84'-3"		"
H ₄	6	"	15'-3"		91'-6"		"
X ₁	3	"	29'-2"		87'-6"		"
X ₂	2	"	9'-3"		18'-6"		"
X ₃	4	"	17'-6"		70'-0"		"
Y ₁	2	"	11'-3"		22'-6"		Vertical in
Y ₂	9	"	15'-3"		137'-3"		"
Total 1/2" Bars					1710'-6"	1454"	
T	29	1"	9'-6"		275'-6"		Horizontal in Base
Z	8	"	9'-3"		74'-0"		"
Z ₁	10	"	8'-3"		82'-6"		"
T ₂	10	"	9'-10"		90'-4"		"
Total 1" Bars					530'-4"	1803"	
N	28	1 1/4"	12'-9"		357'-0"		"
N ₁	10	"	10'-8"		105'-8"		"
N ₂	10	"	10'-3"		102'-6"		"
Total 1 1/4" Bars					566'-2"	3008"	
V ₁	10	3/4"	7'-3"		72'-6"		Vertical in web
V ₂	2	"	30'-3"		60'-6"		Horizontal in web
H ₃	4	"	26'-0"		104'-0"		"
H ₄	4	"	21'-9"		87'-0"		"
Z ₃	4	"	7'-0"		28'-0"		"
Total 3/4" Bars					352'-0"	529"	
N ₃	4	1 1/2"	9'-8"		38'-8"		"
Total 1 1/2" Bars					38'-8"	79"	
Y	44	1"	7'-3"		319'-0"		Vertical in Web
Z ₂	10	"	7'-0"		70'-0"		Horizontal in Web
Total 1" Bars					389'-0"	1039"	
Total Reinforcing Steel						7912 Lbs.	
Class A concrete (with piling)						89.82 Cu. Yds.	
Class B concrete (without piling)						74.94 Cu. Yds.	
26 Piles @ 20' =					520' Lin Ft.	(For estimating only)	

STANDARD PLAN

REINFORCED CONCRETE ABUTMENT

20 FOOT HEIGHT FOR

24 FOOT ROADWAY BRIDGE

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA.

JANUARY, 1930

SCALE 1/4"=1'-0"

SS-22 (15-2-2-14)