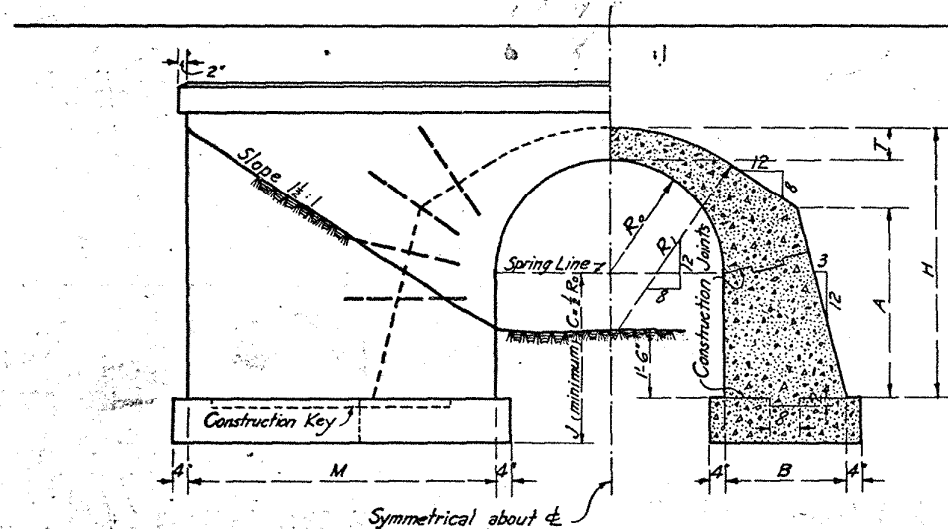
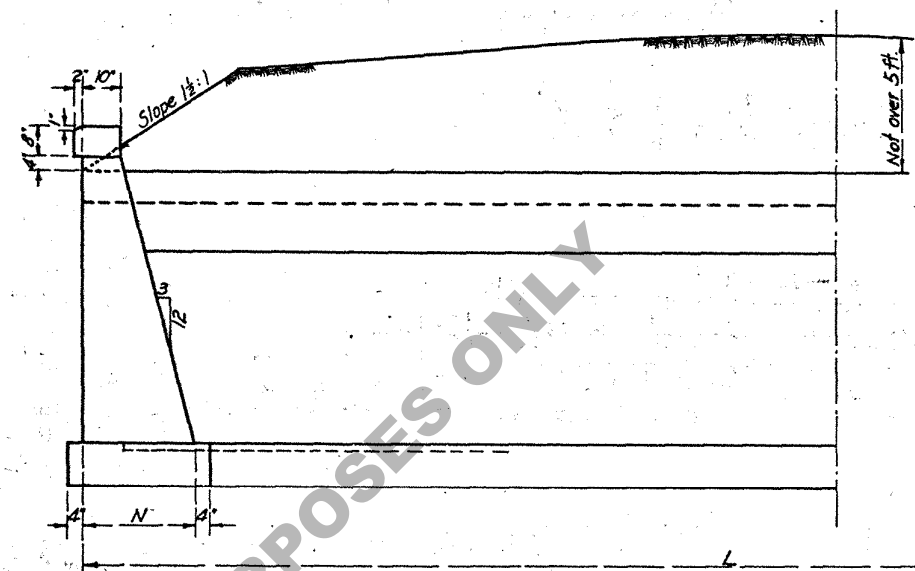


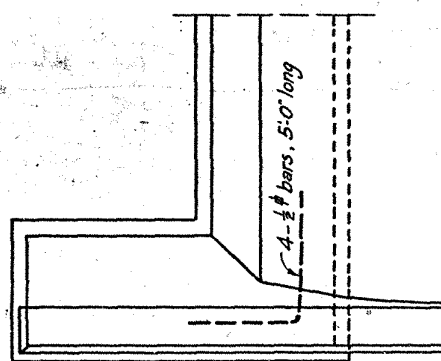


HALF END ELEVATION

HALF SECTION



HALF LONGITUDINAL ELEVATION



HALF PLAN OF END WALL

DIMENSIONS & ESTIMATED QUANTITIES
Based on a Length of Culvert, L = 30 ft.

Clear Span	Area of Waterway	Dimensions									
		R _o	R _i	C	J	B	T	A	H	M	N
4'-0"	10.3'	2'-0"	3'-10 1/2"	1'-0"	2'-6"	2'-4"	8"	3'-8"	5'-2"	5'-6"	2'-2 1/2"
5'-0"	16.1	2'-6"	4'-9"	1'-3"	2'-6"	2'-8"	8 1/2"	4'-2"	5'-11 1/2"	6'-8"	2'-4 3/4"
6'-0"	23.1	3'-0"	5'-7 3/4"	1'-6"	3'-0"	3'-0"	9"	4'-8"	6'-9"	7'-10 1/2"	2'-7 1/4"
		Concrete - Cu. Yds.									
		Arch				2 End Walls		Total	Total	Total	Weight
		Footings		Barrel		Footgs.	Walls	Class A	Class A	of All	in
		Per ft. length	Total	Per ft. length	Total	Total	Total	Conc.	Conc.	Conc.	Lbs.
4'-0"		0.111	3.41	0.695	20.84	1.35	5.80	4.76	26.64	31.40	68
5'-0"		0.124	3.79	0.916	27.47	1.82	8.46	5.61	35.93	41.54	68
6'-0"		0.204	6.25	1.167	35.00	3.54	11.86	9.79	46.86	56.65	68

Notes: All Concrete to be Class A.
1/2" # bars of deformed type and of not sectional area not less than 0.25 sq. in.

NOTES:
Extra rip-rap or paving for channel protection shall be provided where necessary.
The footings shown are intended for use on firm foundation material. Where soft or unstable material is found the footings should be deepened, widened, or otherwise modified to obtain stable foundations.
If other materials are added or the dimensions of footings changed, the quantities and cost should be adjusted accordingly.

ARCH CULVERTS
SPANS 4 TO 6 FT. IN CLEAR **PLAIN CONCRETE** BASED ON 30 FT. CULVERT
HIGHWAY DEPARTMENT
Board of State Engineers, New Orleans
March 1918

Approved: _____
STATE HIGHWAY ENGINEER

Revised Jan. 13-30