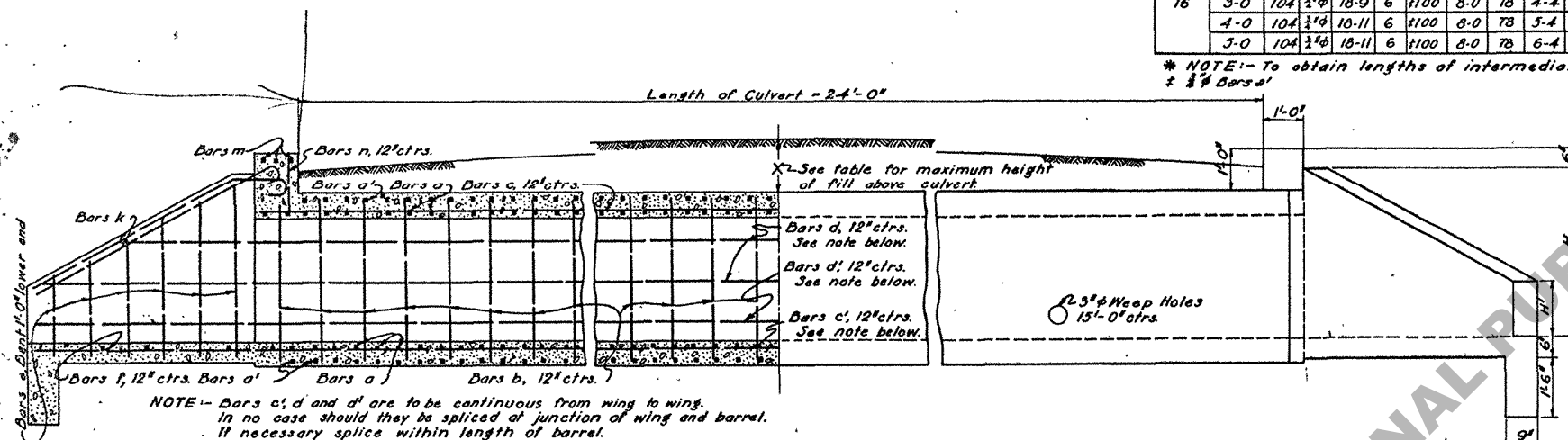


SECTION OF BARREL

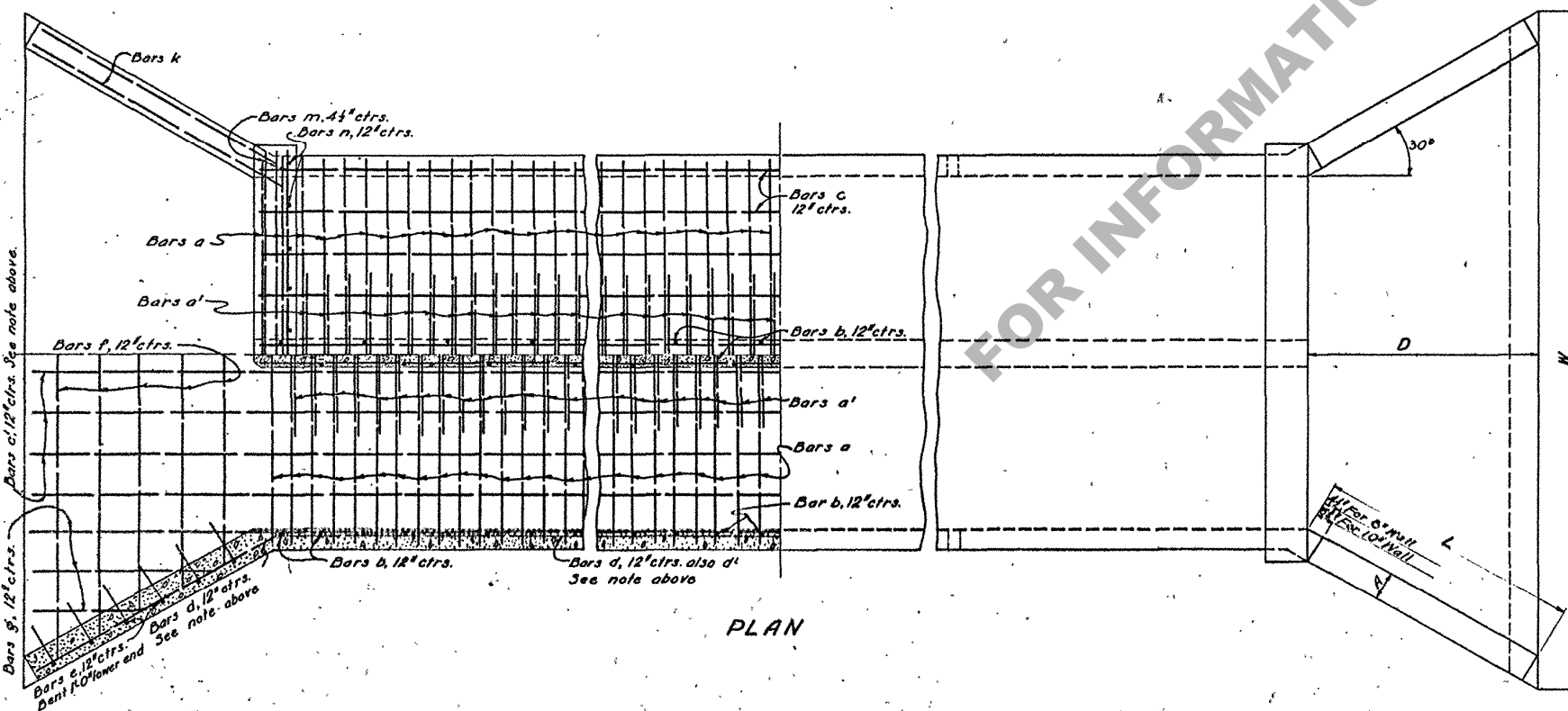
[illegible]

* NOTE:- To obtain lengths of intermediate bars, use variation as increment between short and long bars. Number of bars for each length is also given.
 ± 1/4 Dorsa'



HALF LONGITUDINAL SECTION

HALF SIDE ELEVATION



PLAN

DIMENSIONS AND QUANTITIES FOR 24'-0" CULVERT

DIMENSIONS AND QUANTITIES FOR L.C. COVER.																										
OPENING		BARREL						WINGS & FLOOR								X	PER L.F.T. BARREL QUANTITIES				TOTAL				TWO HEADWALLS	
CLEAR SPAN	CLEAR HEIGHT	AREA	T ₁	T ₂	K	C	M	H	H ₁	L	A	W	D	STEEL	CONC.		STEEL	CONC.	STEEL	CONC.	STEEL	CONC.				
FT.	FT. IN.	Sq. Ft.	IN.	IN.	IN.	IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT.	Lbs.	Cu Yds.	Lbs.	Cu Yds.	Lbs.	Cu Yds.						
8	2-0	16	7	6	8	4	10-2	3-1	1-0	4-0	8	14-2	3-5	9	76.56	5494	2332	16.49	447	531						
	2-6	20	7	6	8	4	10-2	3-7	1-2	4-6	8	14-8	3-11	9	79.83	5602	2430	19.84	514	592						
	3-0	24	7	6	8	4	10-2	4-1	1-4	5-1	8	15-3	4-5	9	83.66	6111	2566	21.27	558	660						
	4-0	32	7	8	10	6	10-9	5-1	1-8	6-4	10	17-1	5-6	9	90.46	7788	2660	27.61	689	912						
	5-0	40	7	8	10	6	10-9	6-1	1-10	7-10	10	18-7	6-9	9	95.56	8591	3179	32.05	886	1141						
10	2-0	20	7½	6	8	4	12-2	3-1½	1-0	4-1	8	16-3	3-6	5	92.37	6718	2827	22.30	510	617						
	2-6	25	7½	6	8	4	12-2	3-7½	1-2	4-7	8	16-9	4-0	5	93.64	7027	2929	23.72	582	685						
	3-0	30	7½	6	8	4	12-2	4-1½	1-4	5-2	8	17-4	4-6	5	97.47	7335	2967	25.19	628	758						
	4-0	40	7½	8	10	6	12-9	5-1½	1-8	6-5	10	19-2	5-7	5	104.27	9026	3501	31.89	799	1022						
	5-0	50	7½	8	10	6	12-9	6-1½	1-10	7-11	10	20-8	6-10	5	109.37	9830	3599	36.19	974	1260						
12	2-0	24	8	8	8	6	14-2	3-2	1-0	4-2	8	18-4	3-7	4	121.42	8500	3506	27.81	592	721						
	2-6	30	8	8	8	6	14-2	3-8	1-2	4-9	8	18-11	4-1	4	122.70	8951	3615	29.45	670	795						
	3-0	36	8	8	8	6	14-2	4-2	1-4	5-4	8	19-6	4-7	4	126.52	9330	3755	31.11	719	872						
	4-0	48	8	8	10	6	14-9	5-2	1-8	6-7	10	21-4	5-8	4	132.30	10391	4073	36.32	898	1138						
	5-0	60	8	8	10	6	14-9	6-2	1-10	8-0	10	22-9	6-11	4	137.40	11193	4380	40.70	1082	1383						
16	2-0	32	9½	8	8	6	18-2	3-3½	1-0	4-5	8	22-7	5-9	7	204.91	12222	5748	38.68	809	934						
	2-6	40	9½	8	8	6	18-2	3-9½	1-2	5-0	8	23-2	4-3	7	206.19	12593	5868	40.55	898	1013						
	3-0	48	9½	8	8	6	18-2	4-3½	1-4	5-7	8	23-9	4-9	7	210.01	12963	6011	42.15	949	1104						
	4-0	64	9½	8	10	6	18-9	5-3½	1-8	6-10	10	25-7	5-10	7	216.12	14048	6365	47.71	1157	1399						
	5-0	80	9½	8	10	6	18-9	6-3½	1-10	8-3	10	27-0	7-1	7	218.22	14831	6683	52.22	1352	1657						

GENERAL NOTES & DESIGN DATA

Construction Specifications: Latest Approved La. Hwy. Dept. Std. Specs.
Concrete: All class A;
Steel: All $\frac{1}{2}$ " deformed bars (Bars at 16' span are $\frac{3}{4}$ " ϕ)
All exposed corners to be chamfered $\frac{1}{2}$ ".

Design Specs: La. Hwy. Commission, Feb. 1929.
Concentrated load:- 15 Ton typical truck, with 30% impact allowance

Entire fill above culvert assumed as acting on culvert.
Horizontal component of earth pressure taken as 30 lbs. per sq. ft.
Steel in tension 16,000 lbs. Concrete in compression 650 lbs.
Fill above slab of culvert is not to exceed the maximum height x
as given in table.

as given in table.
All dimensions relating to bars are to centers of bars.
Bars at splices to be lapped 2'-0" and separated 2'.
Reinforcing bars should be wired at intersections and properly secured against displacement during depositing of concrete.
Place about One (1) Cu.ft. of large size gravel or lean rock behind and around each Weep Hole.

DOUBLE CONCRETE BOX CULVERTS
FLARING WING WALLS
8 FT. TO 16 FT. SPANS
2 FT. TO 5 FT. HEIGHTS

SCALE $\frac{1}{2}$ " = 1'-0"

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

2-AB		X* for 16' span Cops. of 188, 200, 188, 188 over 16' span	1A, 1B, 1C R.D. 115	STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS			
C-10				DESIGNED	DETAILED	TRACED - D.L.H.	
1-10				CHECKED	CHECKED	CHECKED	
DATE	DESCRIPTION	BY	IN CHARGE OF	HEAD	DESIGNER		

(B-3-5d) C-C-7-15