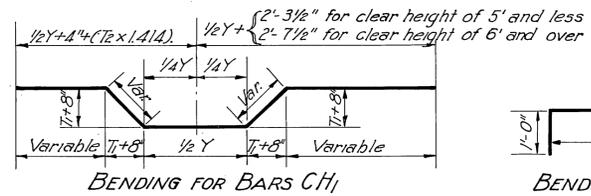
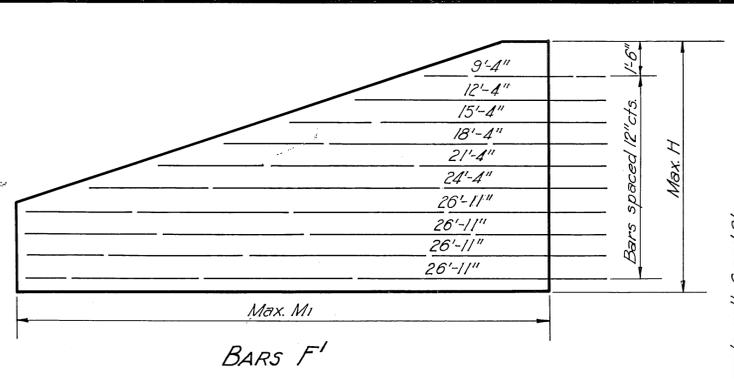


SECTION THRU APRON

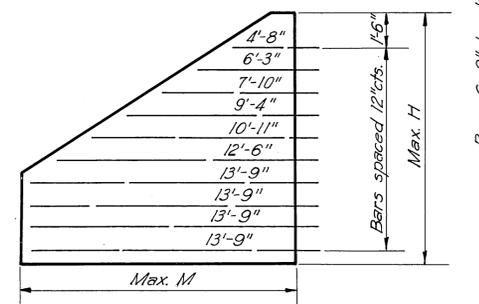


BENDING FOR BARS CH1

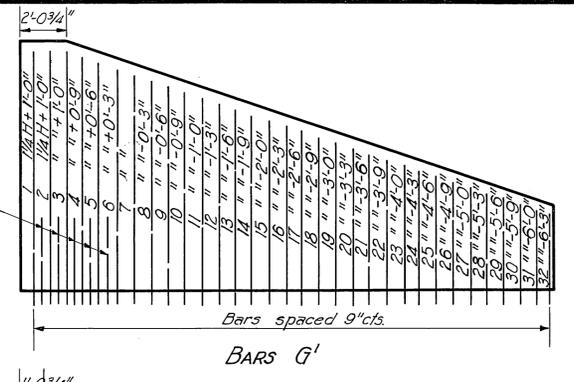
BENDING FOR BARS A1



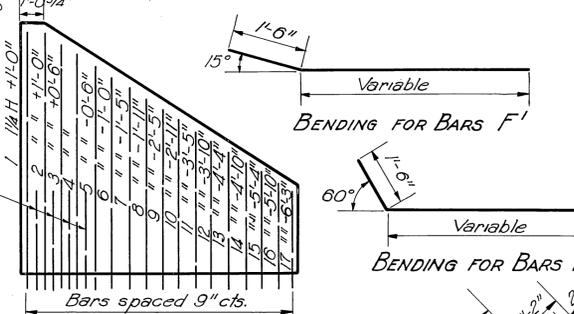
BARS F'



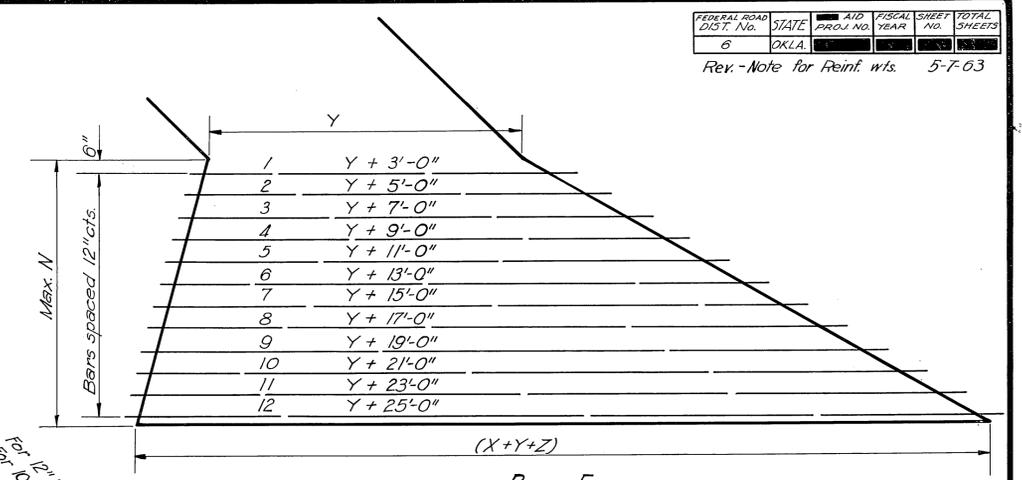
BARS F



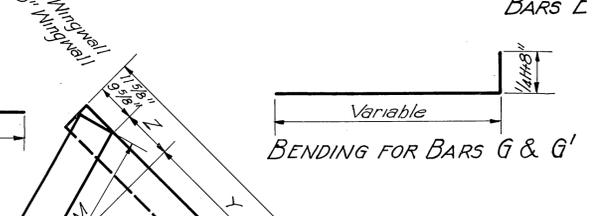
BARS G'



BARS G



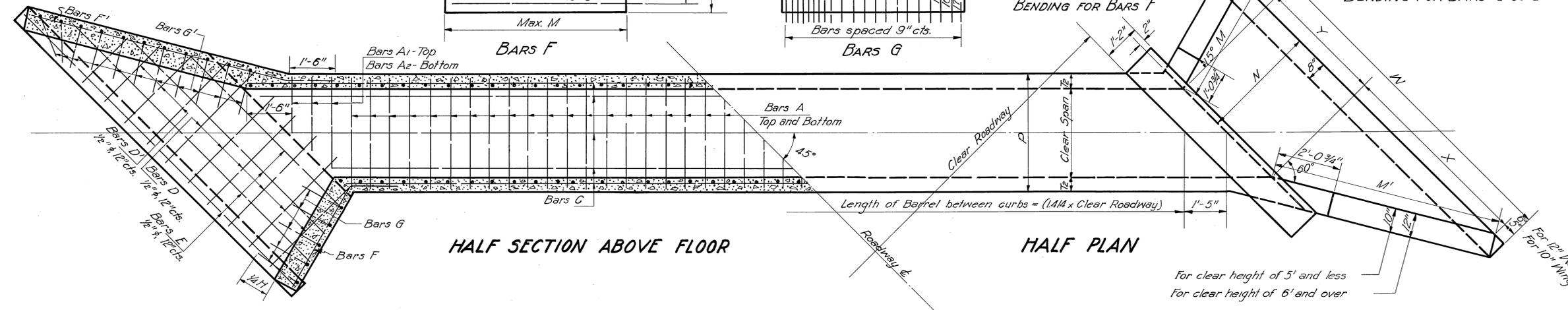
BARS E



BENDING FOR BARS F

BENDING FOR BARS G & G'

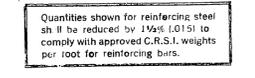
BENDING FOR BARS G1



HALF SECTION ABOVE FLOOR

HALF PLAN

CROSS SECTION OF BARREL



CROSS SECTION OF BARREL

Quantities shown for reinforcing steel sh. It be reduced by 1% (0.15) to comply with approved C.R.S.I. weights per foot for reinforcing bars.

GENERAL NOTES
All reinforcing steel shall be deformed round bars. The design and table are based upon net areas of bars as follows: 1/2" φ = 0.1963 sq. in., 3/8" φ = 0.3068 sq. in., 3/4" φ = 0.442 sq. in. Other sizes may be used provided they are spaced so as to give as much net sectional area per foot width of slab. Plans showing such changed sizes and spacing must be approved.

All exposed concrete surfaces are to have a carborundum finish and this shall be included in the price bid per cu. yd. for concrete.
All exposed edges shall have a 3/4" Chamfer.

DESIGN DATA
Concrete slab L.L.M. = 909 x 40 1/4 = 36,590 in. lbs.
6' Span 8 1/2" 106 lbs. I = 30% L.L.M. = 10,980"
Dirt fill 100" D.L.M. = 1/2 WL²
Paving 6" 75" = 1/2 x 28 1/2 x 6.67 x 12 = 18,730"
Total D.L. 281" = 1/2 x 28 1/2 x 6.67 x 12 = 66,300"

DESIGN NO.	WATERWAY										BARREL OF CULVERT										TWO WINGS AND ONE APRON										TWO CURBS										TOTAL	
	Clear Span	Clear Height	Area of Opening	DIMENSIONS				REINFORCING STEEL				QUANTITIES		DIMENSIONS				REINFORCING STEEL				QUANTITIES		QUANTS		QUANTITIES		DESIGN NO.														
				T1	T2	V	P	Size & Spacing	A1 & A2 Length	A1 Length	A2 Length	Size & Spacing	Length	Steel Lbs.	Concrete Cu. Yds.	H	K	M	M'	N	W	X	Y	Z	Reinf. same size as A Bars	Steel Lbs.	Concrete Cu. Yds.		Steel Lbs.	Concrete Cu. Yds.												
1	2'-0"	4.0	6'	6'	3'-0"	3'-0"	1/2" φ-6"	2'-8"	4	1/2" φ-6"	2'-8"	8	19.34	0.185	2'-10"	1'-8"	2'-10"	5'-6"	2'-9"	9'-6"	4'-9"	2'-10"	0.8%	4	3'-2"	4	3'-2"	4	79	1.25	7'-2"	4'-5"	31	0.50	0.236	1075	11.85	1				

L.L. 909' 6'-8" 909
5.5' 10,000
1.813

OKLAHOMA
STATE HIGHWAY COMMISSION
STANDARD CONC. BOX CULVERTS
SKEWED 45° LEFT FORWARD
SPAN 2 TO 10 FT.
FOR FILLS NOT OVER 3 FT.