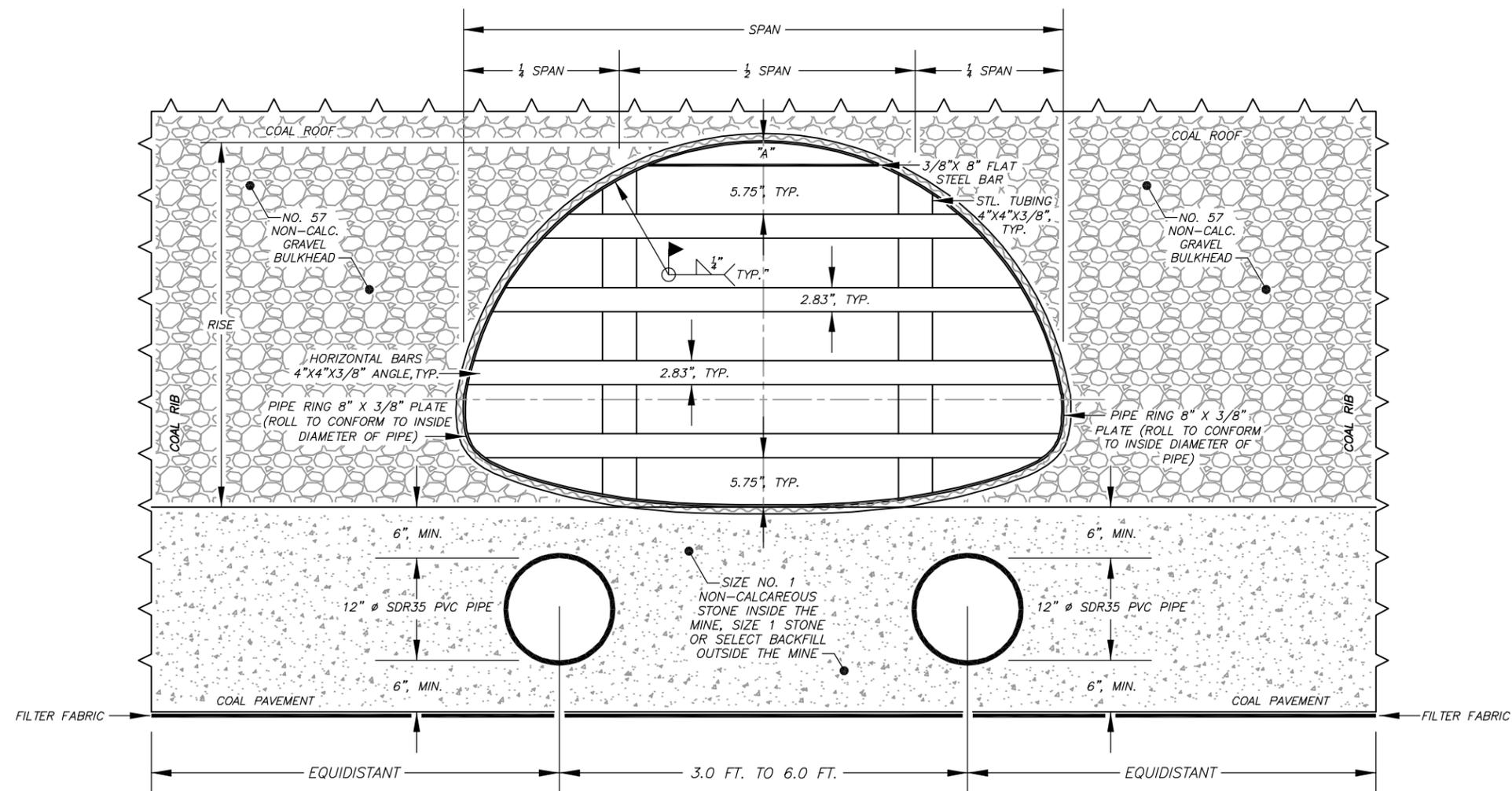


CORRUGATED METAL PIPE ARCH TABLE

SPAN (INCHES)	RISE (INCHES)	CORRUGATIONS (INCHES)	WALL THICKNESS (INCHES)	HORIZONTAL BARS		FLAT BAR	DIMENSION "A" (INCHES)
				(EACH)	SIZE		
71	47	2 3/4 X 1 1/2	0.168	4	4 X 4 X 3/8	YES	2.92
73	55	3 X 1	0.079	4	4 X 4 X 3/8	YES	4.12
81	59	3 X 1	0.079	5	4 X 4 X 3/8	NO	4.60
87	63	3 X 1	0.079	5	4 X 4 X 3/8	YES	3.51
95	67	3 X 1	0.079	6	4 X 4 X 3/8	NO	5.04
103	71	3 X 1	0.079	6	4 X 4 X 3/8	YES	4.39
112	75	3 X 1	0.079	7	4 X 4 X 3/8	YES	2.97*
117	79	3 X 1	0.109	8	4 X 4 X 3/8	NO	2.76
128	83	3 X 1	0.109	8	4 X 4 X 3/8	YES	1.66
137	87	3 X 1	0.109	9	4 X 4 X 3/8	NO	3.79
142	91	3 X 1	0.138	9	4 X 4 X 3/8	YES	3.15
150	96	3 X 1	0.138	10	4 X 4 X 3/8	NO	5.58

* DISTANCE FROM FLAT BAR TO HORIZONTAL BAR = 2.97" AND THE DISTANCE FROM THE FLAT BAR TO THE TOP OF THE CMP ARCH CULVERT = 2.97".

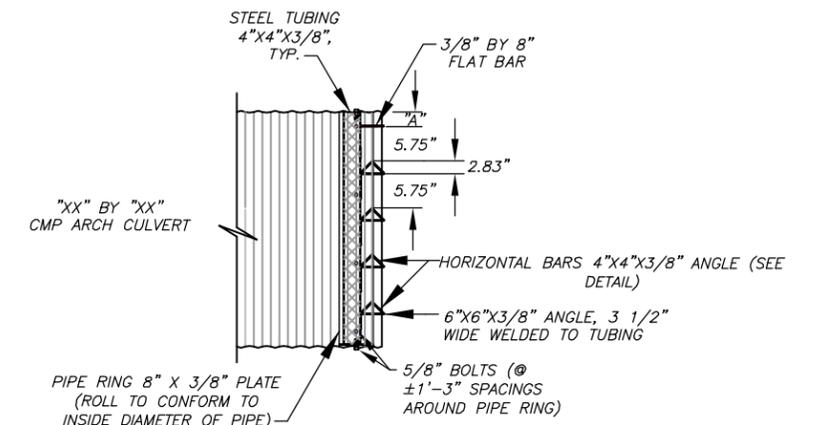


71 BY 47 TO 150 BY 96 CORRUGATED STEEL PIPE ARCH CROSS SECTION

SCALE: 1" = 1 FT.

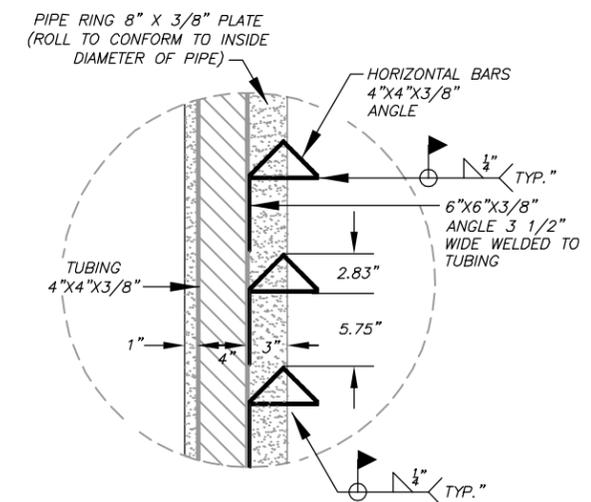
**DETAIL XX
BAT GATE DETAIL**

SCALE AS NOTED



PIPE RING SECTION, TYP.

NOT TO SCALE



HORIZONTAL BAR DETAIL, TYP.

NOT TO SCALE

NOTES:

- CONTRACTOR TO DETERMINE WIDTH OF OPENING AND MAINTAIN SPACINGS BETWEEN COAL RIBS AND 12" PERFORATED PIPES AS SHOWN AND APPROVED BY THE ENGINEER
- HORIZONTAL BAR SPACINGS ARE NOT TO BE ALTERED. AN ADDITIONAL HORIZONTAL "FLAT" BAR MAY BE REQUIRED TO MAINTAIN SPACINGS THROUGHOUT ENTIRE HEIGHT OF CULVERT. THESE MODIFICATIONS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO BEING PERFORMED.
- THE 3/8" FLAT BAR SHALL BE CONNECTED TO THE PIPE RING BY A CONTINUOUS WELD A ALONG THE TOP AND BOTTOM OF THE BAR.
- SIZE NO. 1 (AASHTO NO. 1) STONE SHALL MEET THE GRADATION REQUIREMENTS IN TABLE 703.4 OF THE WDOH SPECIFICATIONS FOR ROADS AND BRIDGES.