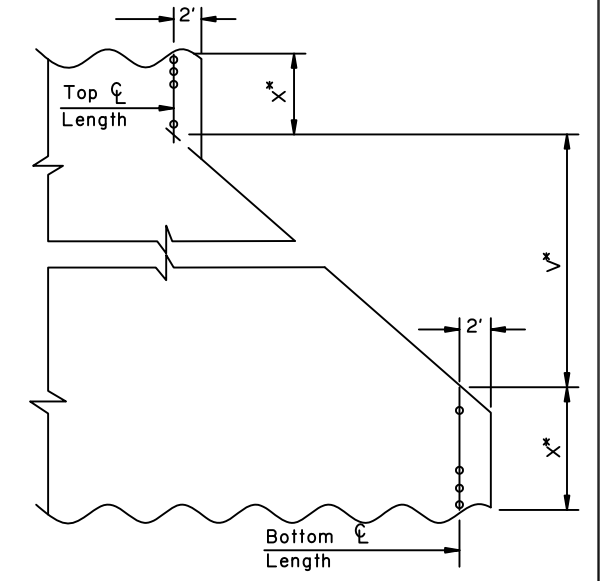


STRUCTURAL PLATE PIPE ARCH

SPAN	RISE	X in ft.	'H' in Feet For Bevels of			'Y' in Feet For Bevels of			'V' in Feet For Bevels of			AREA "A" Sq. Ft.
			1 1/2:1	2:1	3:1	1 1/2:1	2:1	3:1	1 1/2:1	2:1	3:1	
6'- 1"	4'- 7"	2.3			6.0			0.3			2.0	12
6'- 4"	4'- 9"	2.1			6.0			0.7			2.0	11
6'- 9"	4'- 11"	2.4			6.0			0.5			2.0	14
7'- 0"	5'- 1"	2.3			6.0			0.8			2.0	13
7'- 3"	5'- 3"	2.1		6.0	6.0		0.2	1.2		3.0	2.0	14
7'- 8"	5'- 5"	2.3		6.0	6.0		0.1	1.1		3.0	2.0	16
7'-11"	5'- 7"	2.2		6.0	6.0		0.4	1.4		3.0	2.0	15
8'- 2"	5'- 9"	2.0		6.0	6.0		0.8	1.8		3.0	2.0	15
8'- 7"	5'- 11"	2.3		6.0	6.0		0.6	1.6		3.0	2.0	17
8'-10"	6'- 1"	2.2		6.0	6.0		0.9	1.9		3.0	2.0	17
9'- 4"	6'- 3"	2.4		6.0	6.0		0.9	1.9		3.0	2.0	19
9'- 6"	6'- 5"	2.3	6.0	6.0	6.0	0.1	1.1	2.1	4.0	3.0	2.0	20
9'- 9"	6'- 7"	2.2	6.0	6.0	6.0	0.4	1.4	2.4	4.0	3.0	2.0	19
10'- 3"	6'- 9"	2.4	6.0	6.0	6.0	0.4	1.4	2.4	4.0	3.0	2.0	22
10'- 8"	6'- 11"	2.8	6.0	6.0	6.0	0.1	1.1	2.1	4.0	3.0	2.0	25
10'-11"	7'- 1"	2.6	6.0	6.0	6.0	0.5	1.5	2.5	4.0	3.0	2.0	24
11'- 5"	7'- 3"	2.8	6.0	6.0	6.0	0.5	1.5	2.5	4.0	3.0	2.0	27
11'- 7"	7'- 5"	2.7	6.0	6.0	8.0	0.7	1.7	2.0	4.0	3.0	2.7	26
11'-10"	7'- 7"	2.5	6.0	6.0	8.0	1.1	2.1	2.4	4.0	3.0	2.7	26
12'- 4"	7'- 9"	2.8	6.0	6.0	8.0	1.0	1.9	2.3	4.0	3.0	2.7	29
12'- 6"	7'- 11"	2.7	6.0	6.0	8.0	1.2	2.2	2.5	4.0	3.0	2.7	29
12'- 8"	8'- 1"	2.5	6.0	8.0	8.0	1.6	1.6	2.9	4.0	4.0	2.7	27
12'-10"	8'- 4"	2.3	6.0	8.0	8.0	2.0	2.0	3.3	4.0	4.0	2.7	25
13'- 5"	8'- 5"	2.6	6.0	8.0	8.0	1.8	1.8	3.1	4.0	4.0	2.7	30
13'-11"	8'- 7"	2.9	6.0	8.0	8.0	1.7	1.7	3.0	4.0	4.0	2.7	34
14'- 1"	8'- 9"	2.8	6.0	8.0	8.0	2.0	2.0	3.2	4.0	4.0	2.7	33
14'- 3"	8'- 11"	2.6	6.0	8.0	8.0	2.3	2.3	3.6	4.0	4.0	2.7	32
14'-10"	9'- 1"	2.9	6.0	8.0	8.0	2.2	2.2	3.5	4.0	4.0	2.7	37
15'- 4"	9'- 3"	3.2	6.0	8.0	8.0	2.1	2.1	3.4	4.0	4.0	2.7	40
15'- 6"	9'- 5"	3.0	6.0	8.0	12.0	2.4	2.4	2.4	4.0	4.0	4.0	39
15'- 8"	9'- 7"	2.8	6.0	8.0	12.0	2.8	2.8	2.8	4.0	4.0	4.0	38
15'-10"	9'- 10"	2.7	8.0	8.0	14.0	1.8	3.1	2.4	5.3	4.0	4.7	35
16'- 5"	9'- 11"	3.0	8.0	8.0	14.0	1.6	2.9	2.2	5.3	4.0	4.7	41
16'- 7"	10'- 1"	2.8	8.0	8.0	14.0	2.0	3.3	2.6	5.3	4.0	4.7	40

STRUCTURAL PLATE PIPE

Dia. Inches	'H' in Feet For Bevels of			'V' in Feet For Bevels of			'X' in Feet For Bevels of			Area "A" in Sq. Ft.		
	1 1/2:1	2:1	3:1	1 1/2:1	2:1	3:1	1 1/2:1	2:1	3:1	1 1/2:1	2:1	3:1
60	6.0	6.0	8.0	4.0	3.0	2.7	0.5	1.0	1.2	0.7	2.5	3.2
66	6.0	6.0	8.0	4.0	3.0	2.7	0.8	1.2	1.4	1.5	3.7	4.6
72	6.0	8.0	12.0	4.0	4.0	4.0	1.0	1.0	1.0	2.6	3.5	2.8
78	6.0	6.0	12.0	4.0	3.0	4.0	1.2	1.2	1.2	3.9	6.7	4.2
84	6.0	8.0	12.0	4.0	4.0	4.0	1.5	1.5	1.5	5.4	5.6	5.7
90	6.0	8.0	12.0	4.0	4.0	4.0	1.8	1.8	1.8	7.1	7.3	7.5
96	8.0	8.0	16.0	5.3	4.0	5.3	1.4	2.0	1.4	4.9	9.3	5.2
102	8.0	8.0	14.0	5.3	4.0	4.7	1.6	2.2	1.9	6.7	12.0	9.2
108	8.0	8.0	14.0	5.3	4.0	4.7	1.8	2.5	2.2	8.5	13.8	11.4
114	8.0	14.0	14.0	5.3	7.0	4.7	2.1	1.2	2.4	10.7	5.0	13.8
120	8.0	14.0	18.0	5.3	7.0	6.0	2.4	1.5	2.0	13.0	6.8	10.7
126	8.0	14.0	18.0	5.3	7.0	6.0	2.6	1.8	2.2	15.5	8.9	13.1
132	12.0	14.0	18.0	8.0	7.0	6.0	1.5	2.0	2.5	6.9	11.1	15.7
138	12.0	16.0	24.0	8.0	8.0	8.0	1.8	1.8	1.8	9.1	9.3	9.5
144	12.0	12.0	20.0	8.0	6.0	6.7	2.0	3.0	2.6	11.4	21.2	18.2
150	12.0	16.0	24.0	8.0	8.0	8.0	2.2	2.2	2.2	14.0	14.2	14.5
156	12.0	16.0	24.0	8.0	8.0	8.0	2.5	2.5	2.5	16.8	17.0	17.3
162	12.0	16.0	24.0	8.0	8.0	8.0	2.8	2.8	2.8	19.6	20.1	20.4
168	14.0	14.0	22.0	9.3	7.0	7.3	2.4	3.5	3.3	15.8	29.1	27.4
174	14.0	14.0	24.0	9.3	7.0	8.0	2.6	3.8	3.2	18.8	32.8	26.9
180	12.0	16.0	24.0	8.0	8.0	8.0	3.5	3.5	3.5	31.1	30.3	30.7



* For elliptical pipe, increase vertical dimensions by percent of ellipse.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT BEVELS

Adopted as an Alaska
Standard Plan by: *Kenneth J. Fisher*
Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029