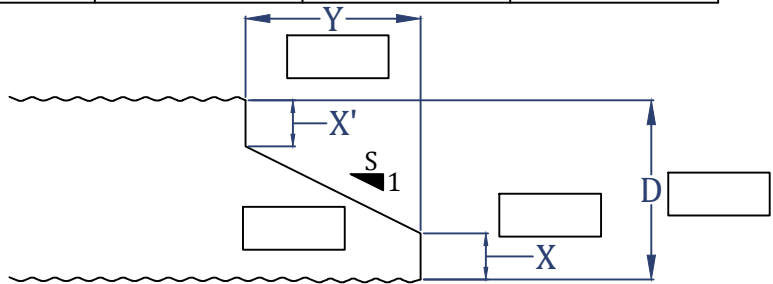
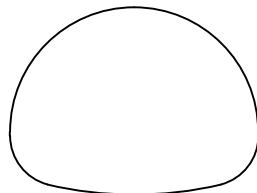


TOP & BOTTOM STEP BEVELS FOR ARCH PIPE						
DIAMETER (IN)	X (IN)	X' (IN)	ARCH SPAN X RISE (IN)	S = 1 ½ TO 1	S = 2 TO 1	S = 3 TO 1
				Y (FEET)	Y (FEET)	Y (FEET)
2 ⅔" x ½" CORRUGATIONS						
12*	---	---	---	---	---	---
15*	4.0	3.0	17 x 13	0.75	1.00	1.50
18*	5.0	3.0	21 x 15	0.88	1.17	1.75
21*	6.0	3.0	24 x 18	1.13	1.50	2.25
24*	6.5	3.0	28 x 20	1.31	1.75	2.63
30	8.0	3.0	35 x 24	1.25	1.67	2.50
36	10.0	6.0	42 x 29	1.63	2.17	3.25
42	11.5	6.0	49 x 33	1.94	2.58	3.88
48	13.0	6.0	57 x 38	2.38	3.17	4.75
54	14.5	6.0	64 x 43	2.81	3.75	5.63
60	16.0	6.0	71 x 47	3.13	4.17	6.25
66	18.0	6.0	77 x 52	3.50	4.67	7.00
72	19.5	8.0	83 x 57	3.69	4.92	7.38
3" x 1" OR 5" x 1" CORRUGATIONS						
36	10.0	6.0	40 x 31	1.88	2.50	3.75
42	11.5	6.0	46 x 36	2.31	3.08	4.63
48	15.0	6.0	53 x 41	2.50	3.33	5.00
54	20.5	6.0	60 x 46	2.44	3.25	4.88
60	23.0	6.0	66 x 51	2.75	3.67	5.50
66	25.0	6.0	73 x 55	3.00	4.00	6.00
72	24.0	6.0	81 x 59	3.63	4.83	7.25
78	26.0	6.0	87 x 63	3.88	5.17	7.75
84	28.0	6.0	95 x 67	4.13	5.50	8.25
90	30.0	8.0	103 x 71	4.13	5.50	8.25
96	31.5	8.0	112 x 75	4.44	5.92	8.88
102	33.5	8.0	117 x 79	4.69	6.25	9.38
108	35.5	8.0	128 x 83	4.94	6.58	9.88
114	38.5	8.0	137 x 87	5.06	6.75	10.13
120	39.5	8.0	142 x 91	5.44	7.25	10.88
126	41.0	10.0	150 x 96	5.63	7.50	11.25
132	43.0	10.0	157 x 101	6.00	8.00	12.00
138	45.0	10.0	164 x 105	6.25	8.33	12.50
144	47.0	10.0	171 x 110	6.63	8.83	13.25

* NOT RECOMMENDED



DESCRIPTION: CSP - TOP & BOTTOM STEP BEVEL FOR ARCH PIPE	PART NO: N/A
DRAWN BY: C. HOMAN	MATERIAL: N/A
DATE: APRIL 17, 12	SHEET NO: 6 OF 6



CUSTOMER APPROVAL SIGNATURE _____ DATE _____

4	E2016-0001 REMOVE FULL BEVEL PAGES	1/6/2016	DRAWING IS NOT TO SCALE ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED ALL WELDS MUST REPAIRED AFTER FABRICATION (PER ASTM 760) PIPE LENGTHS HAVE A TOLERANCE OF ± 2" PIPE DIAMETERS HAVE A TOLERANCE OF THE GREATER OF ± ½" or 1% ALL ANGLES HAVE A TOLERANCE OF ± 3°	TOLERANCES	THIS DESIGN IS PROPERTY OF TRUENORTH STEEL DUPLICATION WITHOUT WRITTEN PERMISSIONS IS STRICTLY PROHIBITED
3	E2015-0336 ADD 2 ½ TO 1 COL. TO ROUNDS	9/18/2015		XX ± 0.5"	
2	ECN-180 REVISED CHARTS	09-14-12		XXX ± 0.25"	
1	INITIAL RELEASE RFD-011	04-17-12		X.XXX ± 0.13"	
NO.	REVISION	DATE			