5:1 SLOPE										
Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	8'-9"	2'-0"	8'-11 1/8"	1	10'-11 1/2"	1	2'-7 1/2"	6'-1 1/8"	4'-6"
21 x 15	1'-11"	9'-7"	2'-0"	9'-9 1/4"	1	11'-9 5/8"	1	2'-7 1/2"	6'-8 1/4"	4'-9"
24 x 18	2'-2"	10'-10"	3'-0"	11-0 5/8"	2	13'-1"	1	3'-7 1/2"	8'-8 5/8"	4'-0"
28 x 20	2'-4"	11'-6"	3'-0"	11-0 3/4"	2	13'-11 1/8"	1	3'-7 1/2"	9'-6 3/4"	4'-0"
35 x 24	2'-8"	13'-4"	4'-0"	13'-7 1/8"	3	15'-7 1/2"	1	4'-7 1/2"	12'-3 1/8"	3'-0"
42 x 29	3'-1"	15'-5"	4'-0"	15'-8 3/8"	3	17'-9"	1	4'-7 1/2"	12'-10 3/8"	4'-6"
49 x 33	3'-5"	17'-1"	5'-0"	17'-5"	3	19'-5 1/2"	1	5'-7 1/2"	13'-1"	6'-0"
57 x 38	3'-10"	19'-2"	5'-0"	19'-6 1/2"	3	21'-6 7/8"	1	5'-7 1/2"	13'-2 1/2"	8'-0"
64 x 43	4'-3"	21'-3"	6'-0"	21'-8"	4	23'-8 3/8"	1	6'-7 1/2"	12'-10"	10'-6"
71 x 47	4'-7"	22'-11"	6'-0"	23'-4 3/8"	4	25'-4 3/4"	1	6'-7 1/2"	13'-6 3/8"	11'-6"

6:1 SLOPE										
Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	10'-6"	2'-0"	10'-7 3/4"	1	13'-0"	2	2'-7 1/2"	6'-7 3/4"	3'-0"
21 x 15	1'-11"	11'-6"	2'-0"	11'-7 7/8"	1	14'-0 1/8"	2	2'-7 1/2"	6'-1 7/8"	3'-9"
24 x 18	2'-2"	13'-0"	3'-0"	13'-2 1/8"	2	15'-6 3/8"	1	3'-7 1/2"	9'-8 1/8"	5'-6"
28 x 20	2'-4"	14'-0"	3'-0"	14'-2 1/4"	2	16'-6 1/2"	1	3'-7 1/2"	9'-8 1/4"	6'-6"
35 x 24	2'-5"	16'-0"	4'-0"	16'-2 5/8"	3	18'-6 7/8"	1	4'-7 1/2"	13'-2 5/8"	5'-0"
42 x 29	3'-1"	18'-6"	4'-0"	18'-9"	3	21'-1 1/4"	1	4'-7 1/2"	13'-6"	7'-3"
49 x 33	3'-5"	20'-6"	5'-0"	20'-9 3/8"	3	23'-1 5/8"	1	5'-7 1/2"	13'-3 3/8"	9'-6"
57 x 38	3'-10"	23'-0"	5'-0"	23'-3 3/4"	3	25'-8"	1	5'-7 1/2"	13'-9 3/4"	11'-6"
64 x 43	4'-3"	25'-6"	6'-0"	25'-10 1/4"	4	28'-2 1/2"	2	6'-7 1/2"	13'-4 1/4"	7'-3"
71 x 47	4'-7"	27'-6"	6'-0"	27'-10 1/2"	4	30'-2 3/4"	2	6'-7 1/2"	13'-4 1/2"	8'-3"

INDIANA DEPARTMENT OF TRANSPORTATION

GRATED BOX END SECTION TYPE I DIMENSIONS

JANUARY 1999

STANDARD DRAWING NO. E 715-GBTO-07

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

DETAILS PLACED IN THIS FORMAT 11-15-99

/s/ Anthony L. Uremovich 11-15-99
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 11-15-99
CHIEF HIGHWAY ENGINEER DATE

ORIGINALLY APPROVED 1-04-99