



REVISED 12-2016; REMOVED NOTE STATING LOCATION FOR HEADWALL NOTES. ENGLISH BE DESIGN/ TRIPLE REINFORCED CONCRETE - TRH 45-2-12 - THIS SHEET ISSUED 04-12.

DIMENSION TABLE																											
S	X	H	12' X 12'	12' X 11'	12' X 10'	12' X 9'	12' X 8'	12' X 7'	12' X 6'	12' X 5'	12' X 4'	12' X 12'	10' X 11'	10' X 10'	10' X 9'	10' X 8'	10' X 7'	10' X 6'	10' X 5'	10' X 4'	S	X	H				
A	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	10'-0	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	10'-0	A	37'-0	34'-0				
B	12'-4	11'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	12'-4	11'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	12'-4	B	12'-4	11'-4					
C	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	24'-8	C	24'-8	22'-8					
CI	34'-10	32'-0	29'-2	26'-4	23'-6	20'-8	17'-11	15'-1	12'-3	34'-10	32'-0	29'-2	26'-4	23'-6	20'-8	17'-11	15'-1	12'-3	34'-10	CI	34'-10	32'-0					
C2	33'-10	31'-1	28'-4	25'-6	22'-8	19'-11	17'-2	14'-4	11'-6	33'-10	31'-1	28'-4	25'-6	22'-8	19'-11	17'-2	14'-4	11'-6	33'-10	C2	33'-10	31'-1					
C3	0'-6	0'-5	0'-5	0'-5	0'-5	0'-4	0'-4	0'-4	0'-4	0'-5	0'-5	0'-5	0'-5	0'-5	0'-4	0'-4	0'-4	0'-4	0'-5	0'-5	C3	0'-6	0'-5				
DL	17'-5	16'-0	14'-7	13'-2	11'-9	10'-4	8'-11	7'-6	6'-1	17'-5	16'-0	14'-7	13'-2	11'-9	10'-4	8'-11	7'-6	6'-1	17'-5	DL	17'-5	16'-0					
DS	10'-5	9'-7	8'-9	7'-11	7'-0	6'-2	5'-4	4'-6	3'-8	10'-5	9'-7	8'-9	7'-11	7'-0	6'-2	5'-4	4'-6	3'-8	10'-5	DS	10'-5	9'-7					
DI	61'-8	56'-8	51'-8	46'-8	41'-8	36'-8	31'-8	26'-8	21'-8	61'-8	56'-8	51'-8	46'-8	41'-8	36'-8	31'-8	26'-8	21'-8	61'-8	DI	61'-8	56'-8					
D2	22'-2	20'-4	18'-7	16'-9	15'-0	13'-2	11'-4	9'-7	7'-9	22'-2	20'-4	18'-7	16'-9	15'-0	13'-2	11'-4	9'-7	7'-9	22'-2	D2	22'-2	20'-4					
E	65'-10	63'-5	61'-0	58'-9	56'-6	54'-1	51'-10	49'-6	47'-3	65'-10	63'-5	61'-0	58'-9	56'-6	54'-1	51'-10	49'-6	47'-3	65'-10	E	65'-10	63'-5					
EI	93'-2	89'-9	86'-4	83'-1	79'-11	76'-6	73'-3	70'-1	66'-10	93'-2	89'-9	86'-4	83'-1	79'-11	76'-6	73'-3	70'-1	66'-10	93'-2	EI	93'-2	89'-9					
FL	17'-9	16'-4	14'-11	13'-6	12'-1	10'-8	9'-3	7'-10	6'-5	17'-9	16'-4	14'-11	13'-6	12'-1	10'-8	9'-3	7'-10	6'-5	17'-9	FL	17'-9	16'-4					
FS	10'-9	9'-11	9'-1	8'-3	7'-4	6'-6	5'-8	4'-10	4'-0	10'-9	9'-11	9'-1	8'-3	7'-4	6'-6	5'-8	4'-10	4'-0	10'-9	FS	10'-9	9'-11					
FI	37'-5	34'-5	31'-5	28'-5	25'-5	22'-5	19'-5	16'-5	13'-5	37'-5	34'-5	31'-5	28'-5	25'-5	22'-5	19'-5	16'-5	13'-5	37'-5	FI	37'-5	34'-5					
F2	2'-11	2'-8	2'-6	2'-4	2'-1	1'-11	1'-8	1'-6	1'-4	2'-11	2'-8	2'-6	2'-4	2'-1	1'-11	1'-8	1'-6	1'-4	2'-11	F2	2'-11	2'-8					
G	37'-4	37'-2	37'-0	37'-0	37'-0	36'-10	36'-10	36'-10	36'-10	37'-4	37'-2	37'-0	37'-0	37'-0	36'-10	36'-10	36'-10	36'-10	37'-4	G	37'-4	37'-2					
G1	52'-9	52'-6	52'-3	52'-3	52'-3	52'-1	52'-1	52'-1	52'-1	52'-9	52'-6	52'-3	52'-3	52'-3	52'-1	52'-1	52'-1	52'-1	52'-9	G1	52'-9	52'-6					
G2	53'-11	53'-9	53'-6	53'-6	53'-6	53'-3	53'-2	53'-2	53'-2	53'-11	53'-9	53'-6	53'-6	53'-6	53'-3	53'-2	53'-2	53'-2	53'-11	G2	53'-11	53'-9					
G3	39'-5	36'-3	33'-1	29'-11	26'-9	23'-7	20'-5	17'-3	14'-1	39'-5	36'-3	33'-1	29'-11	26'-9	23'-7	20'-5	17'-3	14'-1	39'-5	G3	39'-5	36'-3					
G4	39'-9	36'-3	32'-8	29'-6	26'-4	22'-10	19'-8	16'-6	13'-4	39'-9	36'-3	32'-8	29'-6	26'-4	22'-10	19'-8	16'-6	13'-4	39'-9	G4	39'-9	36'-3					
G5	12'-8	11'-7	10'-7	9'-7	8'-7	7'-7	6'-6	5'-6	4'-6	12'-8	11'-7	10'-7	9'-7	8'-7	7'-7	6'-6	5'-6	4'-6	12'-8	G5	12'-8	11'-7					
G6	14'-2	13'-0	11'-10	10'-10	9'-10	8'-8	7'-8	6'-8	5'-8	14'-2	13'-0	11'-10	10'-10	9'-10	8'-8	7'-8	6'-8	5'-8	14'-2	G6	14'-2	13'-0					
G7	0'-1	0'-6	0'-10	0'-10	0'-10	0'-10	1'-2	1'-2	1'-2	0'-1	0'-6	0'-10	0'-10	0'-10	0'-10	1'-2	1'-2	1'-2	0'-1	G7	0'-1	0'-6					
G8	0'-6	0'-7	0'-8	0'-8	0'-8	0'-9	0'-9	0'-9	0'-9	0'-6	0'-7	0'-8	0'-8	0'-8	0'-9	0'-9	0'-9	0'-9	0'-6	G8	0'-6	0'-7					
K	38'-0	37'-10	37'-8	37'-8	37'-8	37'-6	37'-6	37'-6	37'-6	38'-0	37'-10	37'-8	37'-8	37'-8	37'-6	37'-6	37'-6	37'-6	38'-0	K	38'-0	37'-10					
KI	53'-8	53'-6	53'-3	53'-3	53'-3	53'-0	53'-0	53'-0	53'-0	53'-8	53'-6	53'-3	53'-3	53'-3	53'-0	53'-0	53'-0	53'-0	53'-8	KI	53'-8	53'-6					
PL	71'-11	66'-1	60'-3	54'-5	48'-7	42'-9	36'-11	31'-1	25'-3	71'-11	66'-1	60'-3	54'-5	48'-7	42'-9	36'-11	31'-1	25'-3	71'-11	PL	71'-11	66'-1					
PS	43'-1	39'-7	36'-1	32'-7	29'-1	25'-7	22'-1	18'-7	15'-1	43'-1	39'-7	36'-1	32'-7	29'-1	25'-7	22'-1	18'-7	15'-1	43'-1	PS	43'-1	39'-7					
RL	72'-11	67'-0	61'-1	55'-2	49'-3	43'-4	37'-5	31'-6	25'-7	72'-11	67'-0	61'-1	55'-2	49'-3	43'-4	37'-5	31'-6	25'-7	72'-11	RL	72'-11	67'-0					
RS	44'-10	41'-2	37'-7	33'-11	30'-3	26'-8	23'-0	19'-4	15'-9	44'-10	41'-2	37'-7	33'-11	30'-3	26'-8	23'-0	19'-4	15'-9	44'-10	RS	44'-10	41'-2					
RI	35'-7	32'-8	29'-9	26'-9	23'-9	20'-10	17'-10	14'-10	11'-10	35'-7	32'-8	29'-9	26'-9	23'-9	20'-10	17'-10	14'-10	11'-10	35'-7	RI	35'-7	32'-8					
SI	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	16'-11	SI	16'-11	16'-11				
T	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	T	1'-2	1'-2					
U	1'-0	0'-11	0'-10	0'-10	0'-10	0'-9	0'-9	0'-9	0'-9	1'-0	0'-11	0'-10	0'-10	0'-10	0'-9	0'-9	0'-9	0'-9	0'-9	U	1'-0	0'-11					
V	1'-0	0'-11	0'-10	0'-10	0'-10	0'-9	0'-9	0'-9	0'-9	1'-0	0'-11	0'-10	0'-10	0'-10	0'-9	0'-9	0'-9	0'-9	0'-9	V	1'-0	0'-11					
VI	1'-5	1'-3	1'-2	1'-2	1'-2	1'-0	1'-0	1'-0	1'-0	1'-5	1'-3	1'-2	1'-2	1'-2	1'-0	1'-0	1'-0	1'-0	1'-0	VI	1'-5	1'-3					
W	5'-0	4'-9	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	5'-0	4'-9	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	3'-6	W	5'-0	4'-9					

NOTES:

- SEE SHEET TRRCB G1-12 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
- SEE SHEETS TRH 45-1-12 AND TRH 45-3-12 THRU TRH 45-6-12 FOR LOCATION OF CERTAIN DIMENSIONS TABULATED.

12-2016 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN TRIPLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012	
		FLARED WING HEADWALLS 45° SKEW	TRH 45-2-12