


DIMENSIONS					REINFORCING STEEL																						
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB (IN.)	T2 BOTTOM SLAB (IN.)	T3 WALL (IN.)	A	B	C	D	E	F	BH1			BH2			BH3			BV1			NO. BL1 BARS	NO. BL2 BARS			
											SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	LENGTH		
3	3	8"	8"	8"	2	2'-0"	2	2'-0"	1	1'-0"	4	12"	4'-0"	2'-8"	8'-10"	5	12"	4'-0"	3	12"	2'-1 1/4"	4'-0"	4	12"	4'-0"	16	8
3	4	8"	8"	8"	2	2'-0"	2	2'-0"	2	2'-0"	4	12"	4'-0"	3'-2"	9'-10"	5	12"	4'-0"	--	--	--	--	4	12"	5'-0"	16	12
4	3	8"	8"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	10 1/2"	5'-0"	2'-8"	9'-10"	5	10 1/2"	5'-0"	--	--	--	--	4	12"	4'-0"	20	8
4	4	8"	8"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	10"	5'-0"	3'-2"	10'-10"	5	10"	5'-0"	--	--	--	--	4	12"	5'-0"	20	12
4	5	8"	8"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	9 1/2"	5'-0"	3'-8"	11'-10"	5	9 1/2"	5'-0"	--	--	--	--	4	12"	6'-0"	20	16
4	6	8"	8"	8"	3	3'-0"	3	3'-0"	4	4'-0"	4	9 1/2"	5'-0"	4'-2"	12'-10"	5	9 1/2"	5'-0"	--	--	--	--	4	12"	7'-0"	20	20
5	3	8"	8"	8"	4	4'-0"	4	4'-0"	1	1'-0"	5	10 1/2"	6'-0"	2'-8"	10'-8"	6	10 1/2"	6'-0"	--	--	--	--	4	9"	4'-0"	24	8
5	4	8"	8"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	10"	6'-0"	3'-2"	11'-10"	6	10"	6'-0"	3	10"	2'-6"	4'-10"	4	12"	5'-0"	24	12
5	5	8"	8"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	9 1/2"	6'-0"	3'-8"	12'-10"	6	9 1/2"	6'-0"	3	9 1/2"	2'-6"	4'-10"	4	12"	6'-0"	24	16
5	6	8"	8"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	9"	6'-0"	4'-2"	13'-10"	6	9"	6'-0"	--	--	--	--	4	12"	7'-0"	24	20
5	7	8"	8"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	9"	6'-0"	4'-8"	14'-10"	6	9"	6'-0"	--	--	--	--	4	12"	8'-0"	24	24
6	4	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	2	2'-0"	5	8"	7'-0"	3'-2 3/4"	12'-10"	6	8"	7'-0"	--	--	--	--	4	9"	5'-2"	28	12
6	5	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	8"	7'-0"	3'-8 3/4"	13'-11"	6	8"	7'-0"	3	8"	2'-8 3/8"	5'-2"	4	12"	6'-2"	28	16
6	6	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	7 1/2"	7'-0"	4'-2 3/4"	14'-11"	6	7 1/2"	7'-0"	3	7 1/2"	2'-8 3/8"	5'-2"	4	12"	7'-2"	28	20
6	7	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	7 1/2"	7'-0"	4'-8 3/4"	15'-11"	6	7 1/2"	7'-0"	3	7 1/2"	2'-8 3/8"	5'-2"	4	12"	8'-2"	28	24
6	8	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	6	6'-0"	5	7"	7'-0"	5'-2 3/4"	16'-10"	6	7"	7'-0"	--	--	--	--	4	12"	9'-2"	28	28
7	4	9 3/4"	9 3/4"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	7"	8'-0"	3'-3 3/4"	14'-1"	6	7"	8'-0"	3	7"	2'-10 3/4"	5'-7"	4	7 1/2"	5'-3"	32	12
7	6	10"	10"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	6 1/2"	8'-0"	4'-4"	16'-2"	6	6 1/2"	8'-0"	--	--	--	--	4	12"	7'-4"	32	20
7	8	10"	10"	8"	6	6'-0"	6	6'-0"	6	6'-0"	5	6 1/2"	8'-0"	5'-4"	18'-0"	6	6 1/2"	8'-0"	--	--	--	--	4	12"	9'-4"	32	28
7	10	10"	10"	8"	6	6'-0"	6	6'-0"	8	8'-0"	5	7 1/2"	8'-0"	6'-4"	20'-0"	7	7 1/2"	8'-0"	3	7 1/2"	2'-10 3/4"	5'-7"	4	9 1/2"	11'-4"	32	36
8	4	10 3/4"	10 3/4"	8"	7	7'-0"	7	7'-0"	2	2'-0"	4	6"	9'-0"	3'-4 3/4"	15'-3"	6	6"	9'-0"	3	6"	3'-1 1/4"	6'-0"	4	6 1/2"	5'-5"	36	12
8	6	11"	11"	8"	7	7'-0"	7	7'-0"	4	4'-0"	5	7"	9'-0"	4'-5"	17'-2"	7	7"	9'-0"	--	--	--	--	4	11"	7'-6"	36	20
8	8	11 1/4"	11 1/4"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	9"	9'-0"	5'-5/4"	19'-3"	8	9"	9'-0"	3	9"	3'-1 1/4"	6'-0"	4	12"	9'-6"	36	28
8	10	11 1/4"	11 1/4"	8"	7	7'-0"	7	7'-0"	8	8'-0"	5	5 1/2"	9'-0"	6'-5/4"	21'-3"	6	5 1/2"	9'-0"	--	--	--	--	4	10 1/2"	11'-6"	36	36
9	4	12"	12"	8"	8	8'-0"	8	8'-0"	2	2'-0"	4	5 1/2"	10'-0"	3'-6"	16'-6"	6	5 1/2"	10'-0"	3	5 1/2"	3'-3 5/8"	6'-5"	4	6"	5'-8"	40	12
9	6	12 1/4"	12 1/4"	8"	8	8'-0"	8	8'-0"	4	4'-0"	5	8"	10'-0"	4'-6 1/4"	18'-5"	8	8"	10'-0"	--	--	--	--	4	10"	7'-9"	40	20
9	8	12 1/4"	12 1/4"	8"	8	8'-0"	8	8'-0"	6	6'-0"	4	6 1/2"	10'-0"	5'-6 1/4"	20'-6"	7	6 1/2"	10'-0"	3	6 1/2"	3'-3 5/8"	6'-5"	4	12"	9'-9"	40	28
9	10	12 1/2"	12 1/2"	8"	8	8'-0"	8	8'-0"	8	8'-0"	5	6"	10'-0"	6'-6 1/2"	22'-5"	7	6"	10'-0"	--	--	--	--	4	12"	11'-9"	40	36
9	12	12 1/2"	12 1/2"	8"	8	8'-0"	8	8'-0"	10	10'-0"	6	7 1/2"	10'-0"	7'-6 1/2"	24'-3"	8	7 1/2"	10'-0"	3	7 1/2"	3'-3 5/8"	6'-5"	4	5 1/2"	13'-9"	40	44
10	4	13"	13"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	6"	11'-0"	3'-7"	17'-6"	7	6"	11'-0"	--	--	--	--	4	5"	5'-10"	44	12
10	6	13"	13"	8"	9	9'-0"	9	9'-0"	4	4'-0"	5	7 1/2"	11'-0"	4'-7"	19'-6"	8	7 1/2"	11'-0"	3	7 1/2"	3'-6"	6'-10"	4	8"	7'-10"	44	20
10	8	13"	13"	8"	9	9'-0"	9	9'-0"	6	6'-0"	5	7 1/2"	11'-0"	5'-7"	21'-6"	8	7 1/2"	11'-0"	3	7 1/2"	3'-6"	6'-10"	4	12"	9'-10"	44	28
10	10	13"	13"	8"	9	9'-0"	9	9'-0"	8	8'-0"	5	5 1/2"	11'-0"	6'-7"	23'-6"	7	5 1/2"	11'-0"	--	--	--	--	4	12"	11'-10"	44	36
10	12	13"	13"	8"	9	9'-0"	9	9'-0"	10	10'-0"	7	7"	11'-0"	7'-7"	25'-3"	8	7"	11'-0"	--	--	--	--	4	6"	13'-10"	44	44
12	6	15"	15"	8"	11	11'-0"	11	11'-0"	4	4'-0"	5	6 1/2"	13'-0"	4'-9"	21'-10"	8	6 1/2"	13'-0"	--	--	--	--	4	6"	8'-2"	52	20
12	8	15 1/4"	15 1/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	6	6"	13'-0"	5'-9 1/4"	23'-9"	8	6"	13'-0"	--	--	--	--	4	10"	10'-3"	52	28
12	10	15 1/4"	15 1/4"	8"	11	11'-0"	11	11'-0"	8	8'-0"	4	6"	13'-0"	6'-9 1/4"	26'-0"	8	6"	13'-0"	4	6"	3'-10 3/4"	7'-6"	4	12"	12'-3"	52	36
12	12	15 1/4"	15 1/4"	8"	11	11'-0"	11	11'-0"	10	10'-0"	6	6"	13'-0"	7'-9 1/4"	27'-9"	8	6"	13'-0"	--	--	--	--	4	6 1/2"	14'-3"	52	44

FOR TYPICAL SECTION, NOTES AND OTHER DETAILS, REFER TO STANDARD BCS-DT.

 ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2 1002.11	REVISION DATE

SINGLE BOX CULVERTS
15 TO 20 FT. FILLS
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE