

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

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

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2 REVISION DATE

1002.17

SINGLE BOX CULVERTS
30 TO 35 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE