

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	11/2"	4'-0"	2'-8"	8'-10"	5	11/2"	4'-0"	--	--	----	----	4	12"	4'-0"	16	8
3	4	8"	8"	8"	2	2'-0"	2	2'-0"	2	2'-0"	4	11"	4'-0"	3'-2"	9'-10"	5	11"	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"	6	10 1/2"	5'-0"	4	10 1/2"	2'-3 3/8"	4'-4"	4	11 1/2"	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"	6	10"	5'-0"	3	10"	2'-3 3/8"	4'-5"	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"	6	9 1/2"	5'-0"	3	9 1/2"	2'-3 3/8"	4'-5"	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"	6	9 1/2"	5'-0"	3	9 1/2"	2'-3 3/8"	4'-5"	4	12"	7'-0"	20	20
5	3	9 1/2"	9 1/2"	8"	4	4'-0"	4	4'-0"	1	1'-0"	4	8 1/2"	6'-0"	2'-9 1/2"	11'-1"	6	8 1/2"	6'-0"	3	8 1/2"	2'-6"	4'-10"	4	9"	4'-3"	24	8
5	4	9 3/4"	9 3/4"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	8"	6'-0"	3'-3 3/4"	12'-1"	6	8"	6'-0"	--	--	----	----	4	12"	5'-3"	24	12
5	5	9 3/4"	9 3/4"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	8"	6'-0"	3'-9 3/4"	13'-1"	6	8"	6'-0"	--	--	----	----	4	12"	6'-3"	24	16
5	6	9 3/4"	9 3/4"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	8"	6'-0"	4'-3 3/4"	14'-1"	6	8"	6'-0"	--	--	----	----	4	12"	7'-3"	24	20
5	7	9 3/4"	9 3/4"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	8"	6'-0"	4'-9 3/4"	15'-1"	6	8"	6'-0"	--	--	----	----	4	12"	8'-3"	24	24
6	4	11 1/2"	11 1/2"	8"	5	5'-0"	5	5'-0"	2	2'-0"	4	7"	7'-0"	3'-5 1/2"	13'-5"	6	7"	7'-0"	--	--	----	----	4	12"	5'-7"	28	12
6	5	11 1/2"	11 1/2"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	6 1/2"	7'-0"	3'-11 1/2"	14'-5"	6	6 1/2"	7'-0"	--	--	----	----	4	12"	6'-7"	28	16
6	6	11 1/2"	11 1/2"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	6 1/2"	7'-0"	4'-5 1/2"	15'-5"	6	6 1/2"	7'-0"	--	--	----	----	4	12"	7'-7"	28	20
6	7	11 1/2"	11 1/2"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	6 1/2"	7'-0"	4'-11 1/2"	16'-5"	6	6 1/2"	7'-0"	--	--	----	----	4	12"	8'-7"	28	24
6	8	11 1/2"	11 1/2"	8"	5	5'-0"	5	5'-0"	6	6'-0"	4	6 1/2"	7'-0"	5'-5 1/2"	17'-5"	6	6 1/2"	7'-0"	--	--	----	----	4	10 1/2"	9'-7"	28	28
7	4	13"	13"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	6"	8'-0"	3'-7"	14'-8"	6	6"	8'-0"	--	--	----	----	4	10 1/2"	5'-10"	32	12
7	6	13"	13"	8"	6	6'-0"	6	6'-0"	4	4'-0"	5	7 1/2"	8'-0"	4'-7"	16'-6"	8	7 1/2"	8'-0"	--	--	----	----	4	12"	7'-10"	32	20
7	8	13"	13"	8"	6	6'-0"	6	6'-0"	6	6'-0"	5	7"	8'-0"	5'-7"	18'-6"	7	7"	8'-0"	--	--	----	----	4	12"	9'-10"	32	28
7	10	13"	13"	8"	6	6'-0"	6	6'-0"	8	8'-0"	5	5 1/2"	8'-0"	6'-7"	20'-6"	6	5 1/2"	8'-0"	--	--	----	----	4	5 1/2"	11'-10"	32	36
8	4	13 3/4"	13 3/4"	8"	7	7'-0"	7	7'-0"	2	2'-0"	5	8"	9'-0"	3'-7 3/4"	15'-8"	8	8"	9'-0"	3	8"	3'-1 1/4"	6'-0"	4	8"	6'-0"	36	12
8	6	13 3/4"	13 3/4"	8"	7	7'-0"	7	7'-0"	4	4'-0"	4	8"	9'-0"	4'-7 3/4"	17'-9"	8	8"	9'-0"	3	8"	3'-1 1/4"	6'-0"	4	12"	8'-0"	36	20
8	8	13 3/4"	13 3/4"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	6"	9'-0"	5'-7 3/4"	19'-8"	7	6"	9'-0"	--	--	----	----	4	12"	10'-0"	36	28
8	10	13 1/2"	13 1/2"	8"	7	7'-0"	7	7'-0"	8	8'-0"	5	6"	9'-0"	6'-7 1/2"	21'-7"	7	6"	9'-0"	--	--	----	----	4	6"	11'-11"	36	36
9	4	15 1/4"	15 1/4"	8"	8	8'-0"	8	8'-0"	2	2'-0"	4	7 1/2"	10'-0"	3'-9 1/4"	17'-0"	8	7 1/2"	10'-0"	4	7 1/2"	3'-3 3/8"	6'-4"	4	7 1/2"	6'-3"	40	12
9	6	15 1/2"	15 1/2"	8"	8	8'-0"	8	8'-0"	4	4'-0"	4	7 1/2"	10'-0"	4'-9 1/2"	19'-1"	8	7 1/2"	10'-0"	3	7 1/2"	3'-3 3/8"	6'-5"	4	12"	8'-3"	40	20
9	8	15 1/2"	15 1/2"	8"	8	8'-0"	8	8'-0"	6	6'-0"	4	7 1/2"	10'-0"	5'-9 1/2"	21'-1"	8	7 1/2"	10'-0"	4	7 1/2"	3'-3 3/8"	6'-4"	4	12"	10'-3"	40	28
9	10	15 1/2"	15 1/2"	8"	8	8'-0"	8	8'-0"	8	8'-0"	5	5 1/2"	10'-0"	6'-9 1/2"	22'-11"	7	5 1/2"	10'-0"	--	--	----	----	4	6"	12'-3"	40	36
9	12	15 1/4"	15 1/4"	8 1/2"	8	8'-0"	8	8'-0"	10	10'-0"	6	5 1/2"	10'-1"	7'-9 1/4"	24'-10"	7	5 1/2"	10'-1"	--	--	----	----	6	9"	14'-3"	40	44
10	4	17"	17"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	5 1/2"	11'-0"	3'-11"	18'-2"	7	5 1/2"	11'-0"	--	--	----	----	4	7 1/2"	6'-6"	44	12
10	6	17 1/4"	17 1/4"	8"	9	9'-0"	9	9'-0"	4	4'-0"	5	7"	11'-0"	4'-11 1/4"	20'-3"	8	7"	11'-0"	--	--	----	----	4	12"	8'-6"	44	20
10	8	17 1/4"	17 1/4"	8"	9	9'-0"	9	9'-0"	6	6'-0"	5	7"	11'-0"	5'-11 1/4"	22'-3"	8	7"	11'-0"	--	--	----	----	4	12"	10'-6"	44	28
10	10	17 1/4"	17 1/4"	8"	9	9'-0"	9	9'-0"	8	8'-0"	6	6 1/2"	11'-0"	6'-11 1/4"	24'-1"	8	6 1/2"	11'-0"	--	--	----	----	4	6"	12'-6"	44	36
10	12	17"	17"	8 3/4"	9	9'-0"	9	9'-0"	10	10'-0"	6	6"	11'-1 1/2"	7'-11"	26'-2"	8	6"	11'-1"	--	--	----	----	6	9 1/2"	14'-6"	44	44
12	6	19 1/2"	19 1/2"	8"	11	11'-0"	11	11'-0"	4	4'-0"	4	5 1/2"	13'-0"	5'-1 1/2"	22'-9"	8	5 1/2"	13'-0"	--	--	----	----	4	12"	8'-11"	52	20
12	8	20"	20"	8"	11	11'-0"	11	11'-0"	6	6'-0"	5	6"	13'-0"	6'-2"	24'-8"	8	6"	13'-0"	--	--	----	----	4	12"	11'-0"	52	28
12	10	20 1/4"	20 1/4"	8"	11	11'-0"	11	11'-0"	8	8'-0"	6	5 1/2"	13'-0"	7'-2 1/4"	26'-7"	8	5 1/2"	13'-0"	--	--	----	----	5	9 1/2"	13'-0"	52	36
12	12	20 1/4"	20 1/4"	8 3/4"	11	11'-0"	11	11'-0"	10	10'-0"	6	5 1/2"	13'-1 1/2"	8'-2 1/4"	28'-8"	8	5 1/2"	13'-1"	--	--	----	----	6	9 1/2"	15'-0"	52	44

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

<b>VDOT</b>	
ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2	REVISION DATE
1002.15	

## SINGLE BOX CULVERTS

### 25 TO 30 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION  
REFERENCE