

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

DIMENSIONS						REINFORCING STEEL																													
SPAN	HGHT	T1	T2	T3	T4	A	B	C	D	E	F	BH1			BH2			BH3				BH4				BV1			BV2						
(FT.)	(FT.)	TOP SLAB	BOTTOM SLAB	EXTERIOR WALL (IN.)	INTERIOR WALL (IN.)							SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	α	LENGTH	SIZE	SPACING C-C	α	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH			
3	3	8"	8"	8"	8"	13'	13'-0"	26'	13'-0"	1	1'-0"	4	12"	14'-10"	4	12"	15'-0"	---	---	---	---	4	12"	2'-1 1/4"	2'-8"	4'-6"	4	12"	4'-0"	4	12"	4'-0"	4	12"	4'-0"
3	4	8"	8"	8"	8"	13'	13'-0"	26'	13'-0"	2	2'-0"	4	12"	14'-10"	4	12"	15'-0"	4	12"	2'-4"	4'-6"	4	12"	2'-1 1/4"	3'-2"	5'-0"	4	12"	5'-0"	4	10"	5'-0"			
4	3	9/4"	9/4"	8"	8"	17'	17'-0"	34'	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-3 3/8"	4'-4"	4	12"	2'-3 3/8"	2'-9/4"	4'-10"	4	12"	4'-2"	4	12"	4'-2"			
4	4	9/4"	9/4"	8"	8"	17'	17'-0"	34'	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-3 3/8"	4'-4"	4	12"	2'-3 3/8"	3'-3/4"	5'-4"	4	12"	5'-2"	4	9/2"	5'-2"			
4	5	9/2"	9/2"	8"	8"	17'	17'-0"	34'	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-8"	5'-1"	4	12"	2'-3 3/8"	3'-9/2"	5'-10"	4	12"	6'-3"	4	9"	6'-3"			
4	6	9/2"	9/2"	8"	8"	17'	17'-0"	34'	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-11"	5'-7"	4	12"	2'-3 3/8"	4'-3/2"	6'-4"	4	12"	7'-3"	4	9"	7'-3"			
5	3	9"	9"	8"	8"	21'	21'-0"	42'	21'-0"	1	1'-0"	4	11"	22'-0"	4	11"	23'-0"	4	11"	2'-6"	4'-9"	4	11"	2'-6"	2'-9"	5'-0"	4	12"	4'-2"	4	10"	4'-2"			
5	4	9"	9"	8"	8"	21'	21'-0"	42'	21'-0"	2	2'-0"	4	11"	22'-0"	4	11"	23'-0"	4	11"	2'-6"	4'-9"	4	11"	2'-6"	3'-3"	5'-6"	4	12"	5'-2"	4	7/2"	5'-2"			
5	5	9"	9"	8"	8"	21'	21'-0"	42'	21'-0"	3	3'-0"	4	11"	22'-0"	4	11"	23'-0"	4	11"	2'-6"	4'-9"	4	11"	2'-6"	3'-9"	6'-0"	4	12"	6'-2"	4	7"	6'-2"			
5	6	9"	9"	8"	8"	21'	21'-0"	42'	21'-0"	4	4'-0"	4	11"	22'-0"	5	11"	23'-0"	4	11"	2'-11"	5'-7"	4	11"	2'-6"	4'-3"	6'-6"	4	12"	7'-2"	4	7"	7'-2"			
5	7	9"	9"	8"	8"	21'	21'-0"	42'	21'-0"	5	5'-0"	4	10"	22'-0"	4	10"	23'-0"	4	10"	3'-1"	5'-10"	4	10"	2'-6"	4'-9"	7'-0"	4	12"	8'-2"	4	6 1/2"	8'-2"			
6	4	8 3/4"	8 3/4"	8"	8"	25'	25'-0"	50'	25'-0"	2	2'-0"	4	9"	25'-11"	4	9"	27'-0"	4	9"	2'-8 3/8"	5'-2"	4	9"	2'-8 3/8"	3'-2 3/4"	5'-8"	4	12"	5'-2"	5	9/2"	5'-2"			
6	5	8 3/4"	8 3/4"	8"	8"	25'	25'-0"	50'	25'-0"	3	3'-0"	4	9"	25'-11"	4	9"	27'-0"	4	9"	2'-8 3/8"	5'-2"	4	9"	2'-8 3/8"	3'-8 3/4"	6'-2"	4	12"	6'-2"	5	9"	6'-2"			
6	6	8 3/4"	8 3/4"	8"	8"	25'	25'-0"	50'	25'-0"	4	4'-0"	4	9"	25'-11"	4	9"	27'-0"	4	9"	2'-8 3/8"	5'-2"	4	9"	2'-8 3/8"	4'-2 3/4"	6'-8"	4	12"	7'-2"	4	5/2"	7'-2"			
6	7	8 3/4"	8 3/4"	8"	8"	25'	25'-0"	50'	25'-0"	5	5'-0"	4	9"	25'-11"	4	9"	27'-0"	4	9"	3'-1"	5'-10"	4	9"	2'-8 3/8"	4'-8 3/4"	7'-2"	4	12"	8'-2"	4	5/2"	8'-2"			
6	8	8 3/4"	8 3/4"	8"	8"	25'	25'-0"	50'	25'-0"	6	6'-0"	4	8"	25'-11"	4	8"	27'-0"	4	8"	3'-4"	6'-6"	4	8"	2'-8 3/8"	5'-2 3/4"	7'-8"	4	12"	9'-2"	4	5/2"	9'-2"			
7	4	8 3/4"	8 3/4"	8"	8"	29'	29'-0"	58'	29'-0"	2	2'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	3'-2 3/4"	5'-10"	4	12"	5'-2"	4	7"	5'-2"			
7	6	8 3/4"	8 3/4"	8"	8"	29'	29'-0"	58'	29'-0"	4	4'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	4'-2 3/4"	6'-10"	4	12"	7'-2"	4	7"	7'-2"			
7	8	8 3/4"	8 3/4"	8"	8"	29'	29'-0"	58'	29'-0"	6	6'-0"	5	11"	29'-11"	5	11"	31'-0"	4	11"	3'-4"	6'-6"	5	11"	2'-10 3/4"	5'-2 3/4"	7'-10"	4	12"	9'-2"	4	7"	9'-2"			
7	10	9"	9"	8"	8"	29'	29'-0"	58'	29'-0"	8	8'-0"	5	11"	29'-11"	5	11"	31'-0"	4	11"	3'-8"	6'-11"	5	11"	2'-10 3/4"	6'-3"	8'-10"	4	12"	11'-2"	4	7/2"	11'-2"			
8	4	9"	9"	8"	8"	33'	33'-0"	66'	33'-0"	2	2'-0"	5	12"	33'-8"	5	12"	35'-0"	---	---	---	---	6	12"	3'-7"	3'-7"	6'-9"	4	12"	5'-2"	5	9/2"	5'-2"			
8	6	9"	9"	8"	8"	33'	33'-0"	66'	33'-0"	4	4'-0"	5	11"	33'-8"	5	11"	35'-0"	4	11"	3'-1 1/4"	5'-11"	5	11"	3'-1 1/4"	4'-3"	7'-0"	4	12"	7'-2"	4	6"	7'-2"			
8	8	9/4"	9/4"	8"	8"	33'	33'-0"	66'	33'-0"	6	6'-0"	5	11"	33'-8"	5	11"	35'-0"	4	11"	3'-1 1/4"	5'-11"	5	11"	3'-1 1/4"	5'-3/4"	8'-1"	4	12"	9'-2"	5	9/2"	9'-2"			
8	10	9/4"	9/4"	8"	8"	33'	33'-0"	66'	33'-0"	8	8'-0"	5	10"	33'-8"	5	10"	35'-0"	4	10"	3'-8"	6'-11"	5	10"	3'-1 1/4"	6'-3/4"	9'-1"	4	12"	11'-2"	4	6 1/2"	11'-2"			
9	4	9 1/2"	9 1/2"	8"	8"	37'	37'-0"	74'	37'-0"	2	2'-0"	5	11"	37'-8"	5	11"	39'-0"	---	---	---	---	6	11"	3'-10"	3'-7"	7'-0"	4	12"	5'-3"	4	5/2"	5'-3"			
9	6	9 1/2"	9 1/2"	8"	8"	37'	37'-0"	74'	37'-0"	4	4'-0"	5	10"	37'-8"	5	10"	39'-0"	4	10"	3'-3 3/8"	6'-4"	5	10"	3'-3 3/8"	4'-3/2"	7'-3"	4	12"	7'-3"	4	5/2"	7'-3"			
9	8	9 1/2"	9 1/2"	8"	8"	37'	37'-0"	74'	37'-0"	6	6'-0"	5	10"	37'-8"	5	10"	39'-0"	4	10"	3'-3 3/8"	6'-4"	5	10"	3'-3 3/8"	5'-3/2"	8'-3"	4	12"	9'-3"	4	5/2"	9'-3"			
9	10	9"	9"	8"	8"	37'	37'-0"	74'	37'-0"	8	8'-0"	5	9"	37'-8"	5	9"	39'-0"	4	9"	3'-8"	6'-11"	5	9"	3'-3 3/8"	6'-3"	9'-3"	4	12"	11'-2"	5	8"	11'-2"			
9	12	9"	9"	8"	8"	37'	37'-0"	74'	37'-0"	10	10'-0"	6	12"	37'-8"	6	12"	39'-0"	5	12"	4'-1"	7'-11"	6	12"	3'-10"	7'-7"	11'-0"	5	10 1/2"	13'-2"	4	5/2"	13'-2"			
10	4	9 3/4"	9 3/4"	8"	8"	41'	41'-0"	82'	41'-0"	2	2'-0"	5	10"	41'-8"	5	10"	43'-0"	---	---	---	---	6	10"	4'-0"	3'-8"	7'-3"	4	12"	5'-3"	5	8"	5'-3"			
10	6	9 3/4"	9 3/4"	8"	8"	41'	41'-0"	82'	41'-0"	4	4'-0"	5	9"	41'-8"	5	9"	43'-0"	---	---	---	---	5	9"	3'-6"	4'-3 3/4"	7'-6"	4	12"	7'-3"	4	5"	7'-3"			
10	8	9 3/4"	9 3/4"	8"	8"	41'	41'-0"	82'	41'-0"	6	6'-0"	6	12"	41'-8"	6	12"	43'-0"	4	12"	3'-6"	6'-9"	6	12"	4'-0"	5'-8"	9'-3"	4	12"	9'-3"	4	5"	9'-3"			
10	10	9 3/4"	9 3/4"	8"	8"	41'	41'-0"	82'	41'-0"	8	8'-0"	5	8"	41'-8"	5	8"	43'-0"	4	8"	3'-8"	6'-11"	5	8"	3'-6"	6'-3 3/4"	9'-6"	4	12"	11'-3"	5	8"	11'-3"			
10	12	9 3/4"	9 3/4"	8"	8"	41'	41'-0"	82'	41'-0"	10	10'-0"	5	8"	41'-8"	5	8"	43'-0"	4	8"	4'-1"	7'-11"	5	8"	3'-6"	7'-3 3/4"	10'-6"	5	10 1/2"	13'-3"	5	8"	13'-3"			
12	6	10 1/4"	10 1/4"	8"	8"	49'	49'-0"	98'	49'-0"	4	4'-0"	6	8"	49'-8"	5	8"	51'-0"	4	8"	3'-10 3/4"	7'-6"	5	8"	3'-10 3/4"	4'-4/4"	7'-11"	4	12"	7'-5"	5	6 1/2"	7'-5"			
12	8	10 1/4"	10 1/4"	8"	8"	49'	49'-0"	98'	49'-0"	6	6'-0"	5	8"	49'-8"	5	8"	51'-0"	4	8"	3'-10 3/4"	7'-6"	5	8"	3'-10 3/4"	5'-4/4"	8'-11"	4	10 1/2"	9'-5"	5	6 1/2"	9'-5"			
12	10	10 1/4"	10 1/4"	8"	8"	49'	49'-0"	98'	49'-0"	8	8'-0"	6	11"	49'-8"	6	11"	51'-0"	---	---	---	---	7	11"	4'-10"	6'-11"	11'-3"	4	12"	11'-5"	6	9/2"	11'-5"			
12	12	10 1/4"	10 1/4"	8"	8"	49'	49'-0"	98'	49'-0"	10	10'-0"	6	10"	49'-8"	6	10"	51'-0"	4	10"	4'-1"	7'-11"	6	10"	4'-5"	7'-8"	11'-8"	5	10"	13'-5"	6	9/2"	13'-5"			

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2 REVISION DATE

1005.05 07/11

QUADRUPLE BOX CULVERTS
0 TO 2 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE