

BCQ-02

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

DIMENSIONS						REINFORCING STEEL																													
SPAN	HGHT	T1	T2	T3	T4	BH1			BH2			BH3			BH4			BV1			BV2														
(FT.)	(FT.)	TOP SLAB	BOTTOM SLAB	EXTERIOR WALL (IN.)	INTERIOR WALL (IN.)	A	B	C	D	E	F	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	a	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	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	7'- 3"	4	12"	7'- 3"	4	5 1/2"	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 1/2"	8'- 3"	4	12"	9'- 3"	4	5 1/2"	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 1/2"	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 1/2"	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 1/2"	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