

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 O-C	LENGTH	SIZE	SPACING O-C	LENGTH	SIZE	SPACING O-C	a	LENGTH	SIZE	SPACING O-C	a	b	LENGTH	SIZE	SPACING O-C	LENGTH	SIZE	SPACING O-C	LENGTH
3	3	8"	8"	8"	8"	13	13'-0"	13	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"
3	4	8"	8"	8"	8"	13	13'-0"	13	13'-0"	2	2'-0"	4	12"	14'-10"	4	12"	15'-0"	---	---	---	---	4	12"	2'-1 1/4"	3'-2"	5'-0"	4	12"	5'-0"	4	12"	5'-0"
4	3	8"	8"	8"	8"	17	17'-0"	17	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	---	---	---	---	4	12"	2'-3 5/8"	2'-8"	4'-8"	4	12"	4'-0"	4	12"	4'-0"
4	4	8"	8"	8"	8"	17	17'-0"	17	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	---	---	---	---	4	12"	2'-3 5/8"	3'-2"	5'-2"	4	12"	5'-0"	4	12"	5'-0"
4	5	8"	8"	8"	8"	17	17'-0"	17	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	---	---	---	---	4	12"	2'-3 5/8"	3'-8"	5'-8"	4	12"	6'-0"	4	12"	6'-0"
4	6	8"	8"	8"	8"	17	17'-0"	17	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	---	---	---	---	4	12"	2'-3 5/8"	4'-2"	6'-2"	4	12"	7'-0"	4	12"	7'-0"
5	3	8"	8"	8"	8"	21	21'-0"	21	21'-0"	1	1'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	2'-8"	4'-11"	4	12"	4'-0"	4	12"	4'-0"
5	4	8"	8"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	3'-2"	5'-5"	4	12"	5'-0"	4	12"	5'-0"
5	5	8"	8"	8"	8"	21	21'-0"	21	21'-0"	3	3'-0"	4	12"	22'-0"	4	12"	23'-0"	3	12"	2'-6"	4'-10"	4	12"	2'-6"	3'-8"	5'-11"	4	12"	6'-0"	4	12"	6'-0"
5	6	8"	8"	8"	8"	21	21'-0"	21	21'-0"	4	4'-0"	4	12"	22'-0"	4	12"	23'-0"	3	12"	2'-6"	4'-10"	4	12"	2'-6"	4'-2"	6'-5"	4	12"	7'-0"	4	12"	7'-0"
5	7	8"	8"	8"	8"	21	21'-0"	21	21'-0"	5	5'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	4'-8"	6'-11"	4	12"	8'-0"	4	12"	8'-0"
6	4	9 1/4"	9 1/4"	8"	8"	25	25'-0"	25	25'-0"	2	2'-0"	4	12"	25'-7"	4	12"	27'-0"	4	12"	2'-8 3/8"	5'-2"	4	12"	2'-8 3/8"	3'-3/4"	5'-8"	4	12"	5'-2"	4	12"	5'-2"
6	5	9 1/4"	9 1/4"	8"	8"	25	25'-0"	25	25'-0"	3	3'-0"	4	11"	25'-7"	4	11"	27'-0"	4	11"	2'-8 3/8"	5'-2"	4	11"	2'-8 3/8"	3'-9/4"	6'-2"	4	12"	6'-2"	4	12"	6'-2"
6	6	9 1/2"	9 1/2"	8"	8"	25	25'-0"	25	25'-0"	4	4'-0"	4	12"	25'-7"	4	12"	27'-0"	4	12"	2'-8 3/8"	5'-2"	4	12"	2'-8 3/8"	4'-3/2"	6'-9"	4	12"	7'-3"	4	12"	7'-3"
6	7	9 1/2"	9 1/2"	8"	8"	25	25'-0"	25	25'-0"	5	5'-0"	4	11"	25'-7"	4	11"	27'-0"	4	11"	2'-8 3/8"	5'-2"	4	11"	2'-8 3/8"	4'-9/2"	7'-3"	4	12"	8'-3"	4	12"	8'-3"
6	8	9 1/2"	9 1/2"	8"	8"	25	25'-0"	25	25'-0"	6	6'-0"	4	11"	25'-7"	4	11"	27'-0"	---	---	---	---	5	11"	2'-8 3/8"	5'-3/2"	7'-8"	4	12"	9'-3"	4	12"	9'-3"
7	4	10 1/2"	10 1/2"	8"	8"	29	29'-0"	29	29'-0"	2	2'-0"	4	10"	29'-2"	4	10"	31'-0"	3	10"	2'-10 3/4"	5'-7"	4	10"	2'-10 3/4"	3'-4/2"	6'-0"	4	12"	5'-5"	4	12"	5'-5"
7	6	10 3/4"	10 3/4"	8"	8"	29	29'-0"	29	29'-0"	4	4'-0"	4	10"	29'-2"	4	10"	31'-0"	3	10"	2'-10 3/4"	5'-7"	4	10"	2'-10 3/4"	4'-4 3/4"	7'-0"	4	12"	7'-5"	4	12"	7'-5"
7	8	11"	11"	8"	8"	29	29'-0"	29	29'-0"	6	6'-0"	4	10"	29'-2"	4	10"	31'-0"	3	10"	2'-10 3/4"	5'-7"	4	10"	2'-10 3/4"	5'-5"	8'-1"	4	12"	9'-6"	4	12"	9'-6"
7	10	11 1/4"	11 1/4"	8"	8"	29	29'-0"	29	29'-0"	8	8'-0"	4	10"	29'-2"	4	10"	31'-0"	3	10"	2'-10 3/4"	5'-7"	5	10"	2'-10 3/4"	6'-5/4"	9'-0"	5	10 1/2"	11'-6"	4	12"	11'-6"
8	4	12"	12"	8"	8"	33	33'-0"	33	33'-0"	2	2'-0"	4	9"	32'-10"	4	9"	35'-0"	3	9"	3'-1 1/4"	6'-0"	4	9"	3'-1 1/4"	3'-6"	6'-4"	4	12"	5'-8"	4	12"	5'-8"
8	6	12 1/4"	12 1/4"	8"	8"	33	33'-0"	33	33'-0"	4	4'-0"	4	9"	32'-10"	4	9"	35'-0"	---	---	---	---	4	9"	3'-1 1/4"	4'-6 1/4"	7'-4"	4	12"	7'-9"	4	12"	7'-9"
8	8	12 1/4"	12 1/4"	8"	8"	33	33'-0"	33	33'-0"	6	6'-0"	5	9"	32'-10"	5	9"	35'-0"	3	9"	3'-1 1/4"	6'-0"	4	9"	3'-1 1/4"	5'-6 1/4"	8'-4"	4	12"	9'-9"	4	12"	9'-9"
8	10	12 1/2"	12 1/2"	8"	8"	33	33'-0"	33	33'-0"	8	8'-0"	5	9"	32'-10"	5	9"	35'-0"	3	9"	3'-1 1/4"	6'-0"	5	9"	3'-1 1/4"	6'-6 1/2"	9'-4"	4	7"	11'-9"	4	12"	11'-9"
9	4	13"	13"	8"	8"	37	37'-0"	37	37'-0"	2	2'-0"	5	8"	36'-5"	5	8"	39'-0"	3	8"	3'-3 3/8"	6'-5"	4	8"	3'-3 3/8"	3'-7"	6'-7"	4	10 1/2"	5'-10"	4	12"	5'-10"
9	6	13 1/4"	13 1/4"	8"	8"	37	37'-0"	37	37'-0"	4	4'-0"	5	8"	36'-5"	5	8"	39'-0"	---	---	---	---	4	8"	3'-3 3/8"	4'-7 1/4"	7'-8"	4	12"	7'-10"	4	12"	7'-10"
9	8	13 3/4"	13 3/4"	8"	8"	37	37'-0"	37	37'-0"	6	6'-0"	5	8"	36'-5"	5	8"	39'-0"	3	8"	3'-3 3/8"	6'-5"	4	8"	3'-3 3/8"	5'-7 1/4"	8'-8"	4	12"	9'-10"	4	12"	9'-10"
9	10	13 1/2"	13 1/2"	8"	8"	37	37'-0"	37	37'-0"	8	8'-0"	5	8"	36'-5"	5	8"	39'-0"	4	8"	3'-3 3/8"	6'-4"	4	8"	3'-3 3/8"	6'-7 1/2"	9'-8"	4	8"	11'-11"	4	12"	11'-11"
9	12	13 1/2"	13 1/2"	8"	8"	37	37'-0"	37	37'-0"	10	10'-0"	5	9"	36'-5"	5	9"	39'-0"	---	---	---	---	7	9"	3'-3 3/8"	7'-7 1/2"	10'-6"	5	7 1/2"	13'-11"	4	12"	13'-11"
10	4	14 1/4"	14 1/4"	8"	8"	41	41'-0"	41	41'-0"	2	2'-0"	5	9"	40'-0"	5	9"	43'-0"	---	---	---	---	5	9"	3'-6"	3'-8 1/4"	6'-10"	4	10"	6'-0"	4	12"	6'-0"
10	6	14 1/2"	14 1/2"	8"	8"	41	41'-0"	41	41'-0"	4	4'-0"	5	9"	40'-0"	5	9"	43'-0"	---	---	---	---	5	9"	3'-6"	4'-8 1/2"	7'-11"	4	12"	8'-1"	4	12"	8'-1"
10	8	14 1/2"	14 1/2"	8"	8"	41	41'-0"	41	41'-0"	6	6'-0"	5	9"	40'-0"	5	9"	43'-0"	---	---	---	---	5	9"	3'-6"	5'-8 1/2"	8'-11"	4	12"	10'-1"	4	12"	10'-1"
10	10	14 3/4"	14 3/4"	8"	8"	41	41'-0"	41	41'-0"	8	8'-0"	5	9"	40'-0"	5	9"	43'-0"	3	9"	3'-6"	6'-10"	5	9"	3'-6"	6'-8 3/4"	9'-11"	4	8"	12'-1"	4	12"	12'-1"
10	12	14 3/4"	14 3/4"	8"	8"	41	41'-0"	41	41'-0"	10	10'-0"	6	9"	40'-0"	5	9"	43'-0"	3	9"	3'-6"	6'-10"	6	9"	3'-6"	7'-8 3/4"	10'-10"	5	7 1/2"	14'-1"	4	12"	14'-1"
12	6	17"	17"	8"	8"	49	49'-0"	49	49'-0"	4	4'-0"	6	8"	47'-2"	5	8"	51'-0"	---	---	---	---	4	8"	3'-10 3/4"	4'-11"	8'-7"	4	12"	8'-6"	4	12"	8'-6"
12	8	17 1/4"	17 1/4"	8"	8"	49	49'-0"	49	49'-0"	6	6'-0"	6	8"	47'-2"	5	8"	51'-0"	3	8"	3'-10 3/4"	7'-7"	4	8"	3'-10 3/4"	5'-11 1/4"	9'-7"	4	12"	10'-6"	4	12"	10'-6"
12	10	17 1/2"	17 1/2"	8"	8"	49	49'-0"	49	49'-0"	8	8'-0"	6	8"	47'-2"	5	8"	51'-0"	---	---	---	---	4	8"	3'-10 3/4"	6'-11 1/2"	10'-7"	4	7 1/2"	12'-7"	4	12"	12'-7"
12	12	17 1/2"	17 1/2"	8"	8"	49	49'-0"	49	49'-0"	10	10'-0"	6	8"	47'-2"	5	8"	51'-0"	4	8"	3'-10 3/4"	7'-6"	5	8"	3'-10 3/4"	7'-11 1/2"	11'-6"	5	7 1/2"	14'-7"	4	12"	14'-7"

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

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2 REVISION DATE

1005.12

QUADRUPLE BOX CULVERTS

15 TO 20 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE