

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 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	9"	9"	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'-9"	4'-7"	4	12"	4'-2"	4	12"	4'-2"
3	4	9"	9"	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'-3"	5'-1"	4	12"	5'-2"	4	12"	5'-2"
4	3	11"	11"	8"	8"	17	17'-0"	17	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	2'-11"	4'-11"	4	12"	4'-6"	4	12"	4'-6"
4	4	11 1/4"	11 1/4"	8"	8"	17	17'-0"	17	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	3'-5 1/4"	5'-6"	4	12"	5'-6"	4	12"	5'-6"
4	5	11"	11"	8"	8"	17	17'-0"	17	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	3'-11"	5'-11"	4	12"	6'-6"	4	12"	6'-6"
4	6	11 1/4"	11 1/4"	8"	8"	17	17'-0"	17	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-3 3/8"	4'-4"	4	12"	2'-3 3/8"	4'-5 1/4"	6'-6"	4	9"	7'-6"	4	12"	7'-6"
5	3	13 1/4"	13 1/4"	8"	8"	21	21'-0"	21	21'-0"	1	1'-0"	4	10"	22'-0"	4	10"	23'-0"	--	--	----	----	4	10"	2'-6"	3'-1 1/4"	5'-4"	4	12"	4'-10"	4	12"	4'-10"
5	4	13 1/4"	13 1/4"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	4	9"	22'-0"	4	9"	23'-0"	--	--	----	----	4	9"	2'-6"	3'-7 1/4"	5'-10"	4	12"	5'-10"	4	12"	5'-10"
5	5	13 1/4"	13 1/4"	8"	8"	21	21'-0"	21	21'-0"	3	3'-0"	4	9"	22'-0"	4	9"	23'-0"	--	--	----	----	4	9"	2'-6"	4'-1 1/4"	6'-4"	4	12"	6'-10"	4	12"	6'-10"
5	6	13 1/4"	13 1/4"	8"	8"	21	21'-0"	21	21'-0"	4	4'-0"	4	10"	22'-0"	4	10"	23'-0"	3	10"	2'-6"	4'-10"	4	10"	2'-6"	4'-7 1/4"	6'-10"	4	10"	7'-10"	4	12"	7'-10"
5	7	13 1/4"	13 1/4"	8"	8"	21	21'-0"	21	21'-0"	5	5'-0"	4	10"	22'-0"	4	10"	23'-0"	--	--	----	----	5	10"	2'-6"	5'-1 1/4"	7'-3"	5	10 1/2"	8'-10"	4	12"	8'-10"
6	4	15 3/4"	15 3/4"	8"	8"	25	25'-0"	25	25'-0"	2	2'-0"	4	9"	25'-7"	5	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	3'-9 3/4"	6'-3"	4	12"	6'-3"	4	11"	6'-3"
6	5	15 3/4"	15 3/4"	8"	8"	25	25'-0"	25	25'-0"	3	3'-0"	4	9"	25'-7"	5	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	4'-3 3/4"	6'-9"	4	12"	7'-3"	4	11"	7'-3"
6	6	15 3/4"	15 3/4"	8"	8"	25	25'-0"	25	25'-0"	4	4'-0"	4	9"	25'-7"	5	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	4'-9 3/4"	7'-3"	4	9 1/2"	8'-3"	4	11"	8'-3"
6	7	16"	16"	8"	8"	25	25'-0"	25	25'-0"	5	5'-0"	4	9"	25'-7"	5	9"	27'-0"	3	9"	2'-8 3/8"	5'-2"	4	9"	2'-8 3/8"	5'-4"	7'-9"	4	6 1/2"	9'-4"	4	11"	9'-4"
6	8	15 1/2"	15 1/2"	8"	8"	25	25'-0"	25	25'-0"	6	6'-0"	4	9"	25'-7"	5	9"	27'-0"	--	--	----	----	5	9"	2'-8 3/8"	5'-9 1/2"	8'-2"	4	5"	10'-3"	4	11"	10'-3"
7	4	18"	18"	8"	8"	29	29'-0"	29	29'-0"	2	2'-0"	5	8"	29'-2"	5	8"	31'-0"	--	--	----	----	4	8"	2'-10 3/4"	4'-0"	6'-8"	4	12"	6'-8"	4	10"	6'-8"
7	6	17 3/4"	17 3/4"	8"	8"	29	29'-0"	29	29'-0"	4	4'-0"	5	8"	29'-2"	5	8"	31'-0"	--	--	----	----	4	8"	2'-10 3/4"	4'-11 3/4"	7'-7"	4	9 1/2"	8'-7"	4	10"	8'-7"
7	8	17 3/4"	17 3/4"	8"	8"	29	29'-0"	29	29'-0"	6	6'-0"	5	9"	29'-2"	5	9"	31'-0"	--	--	----	----	5	9"	2'-10 3/4"	5'-11 3/4"	8'-7"	5	7 1/2"	10'-7"	4	10"	10'-7"
7	10	18"	18"	9 3/4"	8"	29	29'-0"	29	29'-0"	8	8'-0"	5	9"	29'-2"	5	9"	31'-3"	4	9"	3'-1 1/2"	5'-10"	5	9"	3'-1 1/2"	7'-0"	9'-9"	6	9"	12'-8"	4	10"	12'-8"
8	4	20 1/2"	20 1/2"	8"	8"	33	33'-0"	33	33'-0"	2	2'-0"	6	9"	32'-10"	5	9"	35'-0"	--	--	----	----	4	9"	3'-1 1/4"	4'-2 1/2"	7'-1"	4	12"	7'-1"	4	10"	7'-1"
8	6	20 1/2"	20 1/2"	8"	8"	33	33'-0"	33	33'-0"	4	4'-0"	6	9"	32'-10"	5	9"	35'-0"	--	--	----	----	4	9"	3'-1 1/4"	5'-2 1/2"	8'-1"	4	9"	9'-1"	4	10"	9'-1"
8	8	20 1/4"	20 1/4"	8"	8"	33	33'-0"	33	33'-0"	6	6'-0"	6	9"	32'-10"	5	9"	35'-0"	--	--	----	----	5	9"	3'-1 1/4"	6'-2 1/4"	9'-0"	4	4 1/2"	11'-0"	4	10"	11'-0"
8	10	20 1/4"	20 1/4"	9 3/4"	8"	33	33'-0"	33	33'-0"	8	8'-0"	6	9"	32'-10"	5	9"	35'-3"	--	--	----	----	6	9"	3'-3"	7'-2 1/4"	10'-0"	6	9"	13'-0"	4	10"	13'-0"
9	4	23"	23"	8"	8"	37	37'-0"	37	37'-0"	2	2'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	----	----	4	9"	3'-3 3/8"	4'-5"	7'-5"	4	12"	7'-6"	4	10"	7'-6"
9	6	23"	23"	8"	8"	37	37'-0"	37	37'-0"	4	4'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	----	----	4	9"	3'-3 3/8"	5'-5"	8'-5"	4	8"	9'-6"	4	10"	9'-6"
9	8	22 3/4"	22 3/4"	8"	8"	37	37'-0"	37	37'-0"	6	6'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	----	----	5	9"	3'-3 3/8"	6'-4 3/4"	9'-4"	5	7 1/2"	11'-6"	4	10"	11'-6"
9	10	22 3/4"	22 3/4"	9 3/4"	8"	37	37'-0"	37	37'-0"	8	8'-0"	6	9"	36'-5"	6	9"	39'-3"	--	--	----	----	6	9"	3'-5 3/8"	7'-4 3/4"	10'-5"	5	6"	13'-6"	4	10"	13'-6"
9	12	22 1/2"	22 1/2"	11"	8"	37	37'-0"	37	37'-0"	10	10'-0"	6	9"	36'-5"	6	9"	39'-6"	3	9"	3'-6 5/8"	6'-11"	7	9"	3'-6 5/8"	8'-4 1/2"	11'-6"	6	7"	15'-5"	4	10"	15'-5"
10	4	25"	25"	8"	8"	41	41'-0"	41	41'-0"	2	2'-0"	7	9"	40'-0"	6	9"	43'-0"	--	--	----	----	4	9"	3'-6"	4'-7"	7'-10"	4	12"	7'-10"	4	9"	7'-10"
10	6	24 3/4"	24 3/4"	8"	8"	41	41'-0"	41	41'-0"	4	4'-0"	6	9"	40'-0"	6	9"	43'-0"	--	--	----	----	4	9"	3'-6"	5'-6 3/4"	8'-10"	4	8"	9'-9"	4	9"	9'-9"
10	8	24 3/4"	24 3/4"	8"	8"	41	41'-0"	41	41'-0"	6	6'-0"	6	9"	40'-0"	6	9"	43'-0"	3	9"	3'-6"	6'-10"	4	9"	3'-6"	6'-6 3/4"	9'-10"	4	4 1/2"	11'-9"	4	9"	11'-9"
10	10	24 3/4"	24 3/4"	9 3/4"	8"	41	41'-0"	41	41'-0"	8	8'-0"	6	9"	40'-0"	6	9"	43'-3"	3	9"	3'-7 3/4"	7'-1"	5	9"	3'-7 3/4"	7'-6 3/4"	10'-11"	5	6"	13'-9"	4	9"	13'-9"
10	12	24 3/4"	24 3/4"	11"	8"	41	41'-0"	41	41'-0"	10	10'-0"	6	9"	40'-0"	6	9"	43'-6"	3	9"	3'-9"	7'-4"	6	9"	3'-9"	8'-6 3/4"	11'-11"	7	9 1/2"	15'-9"	4	9"	15'-9"
12	6	29 1/2"	29 1/2"	8"	8"	49	49'-0"	49	49'-0"	4	4'-0"	7	9"	47'-2"	7	9"	51'-0"	--	--	----	----	4	9"	3'-10 3/4"	5'-11 1/2"	9'-7"	4	7"	10'-7"	4	7 1/2"	10'-7"
12	8	29 1/2"	29 1/2"	8"	8"	49	49'-0"	49	49'-0"	6	6'-0"	7	9"	47'-2"	7	9"	51'-0"	3	9"	3'-10 3/4"	7'-7"	4	9"	3'-10 3/4"	6'-11 1/2"	10'-7"	5	6 1/2"	12'-7"	4	7 1/2"	12'-7"
12	10	29 1/2"	29 1/2"	9 3/4"	8"	49	49'-0"	49	49'-0"	8	8'-0"	7	9"	47'-2"	7	9"	51'-3"	--	--	----	----	6	9"	4'-1 1/2"	7'-11 1/2"	11'-7"	6	8"	14'-7"	4	7 1/2"	14'-7"
12	12	29 3/4"	29 3/4"	11 1/4"	8"	49	49'-0"	49	49'-0"	10	10'-0"	7	8"	47'-2"	7	8"	51'-6"	3	8"	4'-2"	8'-2"	6	8"	4'-2"	8'-11 3/4"	12'-9"	8	12"	16'-8"	4	7 1/2"	16'-8"

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

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2 REVISION DATE

1005.24

QUADRUPLE BOX CULVERTS
45 TO 50 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE