BCT-35

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"	9	9'- 0"	9	9'- 0"	1	1'- 0"	4	12"	11'- 2"	4	12"	11'- 4"	3	12"	2'- 1¼"	4'- 0"	4	12"	2'- 1¼"	2'- 8"	4'- 6"	4	12"	4'- 0"	4	12"	4'- 0"
3	4	8"	8"	8"	8"	9	9'- 0"	9	9'- 0"	2	2'- 0"	4	12"	11'- 2"	4	12"	11'- 4"	--	---	-----	-----	4	12"	2'- 1¼"	3'- 2"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	3	9¼"	9¼"	8"	8"	12	12'- 0"	12	12'- 0"	1	1'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	-----	-----	4	12"	2'- 3⅝"	2'- 9¼"	4'-10"	4	12"	4'- 2"	4	12"	4'- 2"
4	4	9¼"	9¼"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	-----	-----	4	12"	2'- 3⅝"	3'- 3¼"	5'- 4"	4	12"	5'- 2"	4	12"	5'- 2"
4	5	9¼"	9¼"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	-----	-----	4	12"	2'- 3⅝"	3'- 9¼"	5'-10"	4	12"	6'- 2"	4	12"	6'- 2"
4	6	9¼"	9¼"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	3	12"	2'- 3⅝"	4'- 5"	4	12"	2'- 3⅝"	4'- 3¼"	6'- 4"	4	12"	7'- 2"	4	12"	7'- 2"
5	3	10¾"	10¾"	8"	8"	15	15'- 0"	15	15'- 0"	1	1'- 0"	4	11"	16'- 4"	4	11"	17'- 4"	--	---	-----	-----	4	11"	2'- 6"	2'-10¾"	5'- 2"	4	12"	4'- 5"	4	12"	4'- 5"
5	4	10¾"	10¾"	8"	8"	15	15'- 0"	15	15'- 0"	2	2'- 0"	4	11"	16'- 4"	4	11"	17'- 4"	--	---	-----	-----	4	11"	2'- 6"	3'- 4¾"	5'- 8"	4	12"	5'- 5"	4	12"	5'- 5"
5	5	11"	11"	8"	8"	15	15'- 0"	15	15'- 0"	3	3'- 0"	4	11"	16'- 4"	4	11"	17'- 4"	--	---	-----	-----	4	11"	2'- 6"	3'-11"	6'- 2"	4	12"	6'- 6"	4	12"	6'- 6"
5	6	11"	11"	8"	8"	15	15'- 0"	15	15'- 0"	4	4'- 0"	4	11"	16'- 4"	4	11"	17'- 4"	3	11"	2'- 6"	4'-10"	4	11"	2'- 6"	4'- 5"	6'- 8"	4	12"	7'- 6"	4	12"	7'- 6"
5	7	11"	11"	8"	8"	15	15'- 0"	15	15'- 0"	5	5'- 0"	4	11"	16'- 4"	4	11"	17'- 4"	4	11"	2'- 6"	4'- 9"	4	11"	2'- 6"	4'-11"	7'- 2"	4	10½"	8'- 6"	4	12"	8'- 6"
6	4	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	4	9"	18'-11"	4	9"	20'- 4"	--	---	-----	-----	4	9"	2'- 8⅜"	3'- 7"	6'- 0"	4	12"	5'-10"	4	12"	5'-10"
6	5	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	3	3'- 0"	4	9"	18'-11"	4	9"	20'- 4"	--	---	-----	-----	4	9"	2'- 8⅜"	4'- 1"	6'- 6"	4	12"	6'-10"	4	12"	6'-10"
6	6	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	4	9"	18'-11"	4	9"	20'- 4"	--	---	-----	-----	4	9"	2'- 8⅜"	4'- 7"	7'- 0"	4	12"	7'-10"	4	12"	7'-10"
6	7	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	5	5'- 0"	4	9"	18'-11"	4	9"	20'- 4"	3	9"	2'- 8⅜"	5'- 2"	4	9"	2'- 8⅜"	5'- 1"	7'- 6"	4	11"	8'-10"	4	12"	8'-10"
6	8	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	4	9"	18'-11"	4	9"	20'- 4"	--	---	-----	-----	5	9"	2'- 8⅜"	5'- 7"	7'-11"	5	10½"	9'-10"	4	12"	9'-10"
7	4	14½"	14½"	8"	8"	21	21'- 0"	21	21'- 0"	2	2'- 0"	4	9"	21'- 6"	5	9"	23'- 4"	--	---	-----	-----	4	9"	2'-10¾"	3'- 8½"	6'- 4"	4	12"	6'- 1"	4	12"	6'- 1"
7	6	14½"	14½"	8"	8"	21	21'- 0"	21	21'- 0"	4	4'- 0"	4	9"	21'- 6"	5	9"	23'- 4"	--	---	-----	-----	4	9"	2'-10¾"	4'- 8½"	7'- 4"	4	12"	8'- 1"	4	12"	8'- 1"
7	8	14½"	14½"	8"	8"	21	21'- 0"	21	21'- 0"	6	6'- 0"	4	9"	21'- 6"	5	9"	23'- 4"	3	9"	2'-10¾"	5'- 7"	4	9"	2'-10¾"	5'- 8½"	8'- 4"	4	7"	10'- 1"	4	12"	10'- 1"
7	10	14½"	14½"	8"	8"	21	21'- 0"	21	21'- 0"	8	8'- 0"	4	9"	21'- 6"	5	9"	23'- 4"	--	---	-----	-----	6	9"	2'-10¾"	6'- 8½"	9'- 2"	6	9½"	12'- 1"	4	12"	12'- 1"
8	4	16¼"	16¼"	8"	8"	24	24'- 0"	24	24'- 0"	2	2'- 0"	5	9"	24'- 2"	5	9"	26'- 4"	--	---	-----	-----	4	9"	3'- 1¼"	3'-10¼"	6'- 8"	4	12"	6'- 4"	4	12"	6'- 4"
8	6	16¼"	16¼"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	5	8"	24'- 2"	5	8"	26'- 4"	--	---	-----	-----	4	8"	3'- 1¼"	4'-10¼"	7'- 8"	4	12"	8'- 4"	4	12"	8'- 4"
8	8	16¼"	16¼"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	5	8"	24'- 2"	5	8"	26'- 4"	3	8"	3'- 1¼"	6'- 0"	4	8"	3'- 1¼"	5'-10¼"	8'- 8"	4	7½"	10'- 4"	4	12"	10'- 4"
8	10	16¼"	16¼"	8"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	5	8"	24'- 2"	5	8"	26'- 4"	3	8"	3'- 1¼"	6'- 0"	5	8"	3'- 1¼"	6'-10¼"	9'- 8"	6	9½"	12'- 4"	4	12"	12'- 4"
9	4	18¼"	18¼"	8"	8"	27	27'- 0"	27	27'- 0"	2	2'- 0"	6	9"	26'- 9"	5	9"	29'- 4"	--	---	-----	-----	4	9"	3'- 3⅝"	4'- ¼"	7'- 1"	4	12"	6'- 9"	4	10½"	6'- 9"
9	6	18¼"	18¼"	8"	8"	27	27'- 0"	27	27'- 0"	4	4'- 0"	6	9"	26'- 9"	5	9"	29'- 4"	--	---	-----	-----	4	9"	3'- 3⅝"	5'- ¼"	8'- 1"	4	12"	8'- 9"	4	10½"	8'- 9"
9	8	18¼"	18¼"	8"	8"	27	27'- 0"	27	27'- 0"	6	6'- 0"	6	9"	26'- 9"	5	9"	29'- 4"	--	---	-----	-----	5	9"	3'- 3⅝"	6'- ¼"	9'- 0"	5	10½"	10'- 9"	4	10½"	10'- 9"
9	10	18¼"	18¼"	8"	8"	27	27'- 0"	27	27'- 0"	8	8'- 0"	6	9"	26'- 9"	5	9"	29'- 4"	--	---	-----	-----	6	9"	3'- 3⅝"	7'- ¼"	9'-11"	6	9½"	12'- 9"	4	11"	12'- 9"
9	12	18½"	18½"	9¼"	8"	27	27'- 0"	27	27'- 0"	10	10'- 0"	6	9"	26'- 9"	5	9"	29'- 6"	--	---	-----	-----	7	9"	3'- 4⅞"	8'- ½"	11'- 0"	5	5½"	14'- 9"	4	10½"	14'- 9"
10	4	20"	20"	8"	8"	30	30'- 0"	30	30'- 0"	2	2'- 0"	6	9"	29'- 4"	6	9"	32'- 4"	--	---	-----	-----	4	9"	3'- 6"	4'- 2"	7'- 5"	4	12"	7'- 0"	4	10"	7'- 0"
10	6	20"	20"	8"	8"	30	30'- 0"	30	30'- 0"	4	4'- 0"	6	9"	29'- 4"	6	9"	32'- 4"	--	---	-----	-----	4	9"	3'- 6"	5'- 2"	8'- 5"	4	12"	9'- 0"	4	10"	9'- 0"
10	8	20"	20"	8"	8"	30	30'- 0"	30	30'- 0"	6	6'- 0"	6	9"	29'- 4"	6	9"	32'- 4"	3	9"	3'- 6"	6'-10"	4	9"	3'- 6"	6'- 2"	9'- 5"	5	10½"	11'- 0"	4	10"	11'- 0"
10	10	20"	20"	8"	8"	30	30'- 0"	30	30'- 0"	8	8'- 0"	6	9"	29'- 4"	6	9"	32'- 4"	3	9"	3'- 6"	6'-10"	5	9"	3'- 6"	7'- 2"	10'- 4"	6	9½"	13'- 0"	4	10"	13'- 0"
10	12	20¼"	20¼"	9¼"	8"	30	30'- 0"	30	30'- 0"	10	10'- 0"	6	9"	29'- 4"	6	9"	32'- 6"	3	9"	3'- 7¼"	7'- 0"	6	9"	3'- 7¼"	8'- 2¼"	11'- 5"	5	5½"	15'- 0"	4	10"	15'- 0"
12	6	24"	24"	8"	8"	36	36'- 0"	36	36'- 0"	4	4'- 0"	6	8"	34'- 6"	6	8"	38'- 4"	--	---	-----	-----	4	8"	3'-10¾"	5'- 6"	9'- 2"	4	12"	9'- 8"	4	10"	9'- 8"
12	8	24"	24"	8"	8"	36	36'- 0"	36	36'- 0"	6	6'- 0"	6	8"	34'- 6"	6	8"	38'- 4"	3	8"	3'-10¾"	7'- 7"	4	8"	3'-10¾"	6'- 6"	10'- 2"	5	9½"	11'- 8"	4	10"	11'- 8"
12	10	24"	24"	8"	8"	36	36'- 0"	36	36'- 0"	8	8'- 0"	6	8"	34'- 6"	6	8"	38'- 4"	3	8"	3'-10¾"	7'- 7"	5	8"	3'-10¾"	7'- 6"	11'- 1"	4	4"	13'- 8"	4	10"	13'- 8"
12	12	24"	24"	9¼"	8"	36	36'- 0"	36	36'- 0"	10	10'- 0"	6	8"	34'- 6"	6	8"	38'- 6"	4	8"	4'- 0"	7'- 9"	5	8"	4'- 0"	8'- 6"	12'- 2"	6	7½"	15'- 8"	4	10"	15'- 8"

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

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2

REVISION DATE

1004.18

TRIPLE BOX CULVERTS

30 TO 35 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE