

BCD-25

DIMENSIONS						REINFORCING STEEL																													
SPAN (FT.)	HGHT (FT.)	T1	T2	T3	T4	A	B	C	D	E	F	BH1			BH2			BH3			BH4			BV1			BV2								
		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"	6	6'- 0"	6	6'- 0"	1	1'- 0"	4	12"	7'- 6"	4	12"	7'- 8"	--	---	----	----	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"	6	6'- 0"	6	6'- 0"	2	2'- 0"	4	12"	7'- 6"	4	12"	7'- 8"	--	---	----	----	4	12"	2'- 1 1/4"	3'- 2"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	3	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	1	1'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	----	----	4	12"	2'- 3 5/8"	2'- 8"	4'- 8"	4	12"	4'- 0"	4	12"	4'- 0"	4	12"	4'- 0"
4	4	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	2	2'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 2"	5'- 2"	4	12"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	5	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	3	3'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 8"	5'- 8"	4	12"	6'- 0"	4	12"	6'- 0"	4	12"	6'- 0"
4	6	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	4	4'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	----	----	4	12"	2'- 3 5/8"	4'- 2"	6'- 2"	4	12"	7'- 0"	4	12"	7'- 0"	4	12"	7'- 0"
5	3	9"	9"	8"	8"	10	10'- 0"	10	10'- 0"	1	1'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	2'- 9"	5'- 0"	4	12"	4'- 2"	4	12"	4'- 2"	4	12"	4'- 2"
5	4	9"	9"	8"	8"	10	10'- 0"	10	10'- 0"	2	2'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	3'- 3"	5'- 6"	4	12"	5'- 2"	4	12"	5'- 2"	4	12"	5'- 2"
5	5	9 1/4"	9 1/4"	8"	8"	10	10'- 0"	10	10'- 0"	3	3'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	----	----	4	12"	2'- 6"	3'- 9/4"	6'- 0"	4	12"	6'- 2"	4	12"	6'- 2"	4	12"	6'- 2"
5	6	9 1/4"	9 1/4"	8"	8"	10	10'- 0"	10	10'- 0"	4	4'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	4'- 3/4"	6'- 6"	4	12"	7'- 2"	4	12"	7'- 2"	4	12"	7'- 2"
5	7	9 1/4"	9 1/4"	8"	8"	10	10'- 0"	10	10'- 0"	5	5'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	4'- 9/4"	7'- 0"	4	12"	8'- 2"	4	12"	8'- 2"	4	12"	8'- 2"
6	4	10 3/4"	10 3/4"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	3	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	3'- 4 3/4"	5'- 10"	4	12"	5'- 5"	4	12"	5'- 5"	4	12"	5'- 5"
6	5	10 3/4"	10 3/4"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	4	11"	12'- 3"	4	11"	13'- 8"	--	---	----	----	4	11"	2'- 8 3/8"	3'- 10 3/4"	6'- 4"	4	12"	6'- 5"	4	12"	6'- 5"	4	12"	6'- 5"
6	6	11"	11"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	4	11"	12'- 3"	4	11"	13'- 8"	--	---	----	----	4	11"	2'- 8 3/8"	4'- 5"	6'- 10"	4	12"	7'- 6"	4	12"	7'- 6"	4	12"	7'- 6"
6	7	11"	11"	8"	8"	12	12'- 0"	12	12'- 0"	5	5'- 0"	4	11"	12'- 3"	4	11"	13'- 8"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	4'- 11"	7'- 4"	4	12"	8'- 6"	4	12"	8'- 6"	4	12"	8'- 6"
6	8	11"	11"	8"	8"	12	12'- 0"	12	12'- 0"	6	6'- 0"	4	11"	12'- 3"	4	11"	13'- 8"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	5'- 5"	7'- 10"	4	10 1/2"	9'- 6"	4	12"	9'- 6"	4	12"	9'- 6"
7	4	12 1/4"	12 1/4"	8"	8"	14	14'- 0"	14	14'- 0"	2	2'- 0"	4	9"	13'- 10"	4	9"	15'- 8"	--	---	----	----	4	9"	2'- 10 3/4"	3'- 6 1/4"	6'- 2"	4	12"	5'- 9"	4	12"	5'- 9"	4	12"	5'- 9"
7	6	12 3/4"	12 3/4"	8"	8"	14	14'- 0"	14	14'- 0"	4	4'- 0"	4	9"	13'- 10"	4	9"	15'- 8"	--	---	----	----	4	9"	2'- 10 3/4"	4'- 6 3/4"	7'- 2"	4	12"	7'- 9"	4	12"	7'- 9"	4	12"	7'- 9"
7	8	12 3/4"	12 3/4"	8"	8"	14	14'- 0"	14	14'- 0"	6	6'- 0"	4	9"	13'- 10"	4	9"	15'- 8"	3	9"	2'- 10 3/4"	5'- 7"	4	9"	2'- 10 3/4"	5'- 6 3/4"	8'- 2"	4	11"	9'- 9"	4	12"	9'- 9"	4	12"	9'- 9"
7	10	13"	13"	8"	8"	14	14'- 0"	14	14'- 0"	8	8'- 0"	4	9"	13'- 10"	4	9"	15'- 8"	3	9"	2'- 10 3/4"	5'- 7"	5	9"	2'- 10 3/4"	6'- 7"	9'- 2"	5	9"	11'- 10"	4	12"	11'- 10"	4	12"	11'- 10"
8	4	13 3/4"	13 3/4"	8"	8"	16	16'- 0"	16	16'- 0"	2	2'- 0"	5	8"	15'- 6"	4	8"	17'- 8"	--	---	----	----	4	8"	3'- 1 1/4"	3'- 7 3/4"	6'- 6"	4	12"	6'- 0"	4	12"	6'- 0"	4	12"	6'- 0"
8	6	13 3/4"	13 3/4"	8"	8"	16	16'- 0"	16	16'- 0"	4	4'- 0"	5	8"	15'- 6"	4	8"	17'- 8"	--	---	----	----	4	8"	3'- 1 1/4"	4'- 7 3/4"	7'- 6"	4	12"	8'- 0"	4	12"	8'- 0"	4	12"	8'- 0"
8	8	14"	14"	8"	8"	16	16'- 0"	16	16'- 0"	6	6'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	5'- 8"	8'- 6"	4	12"	10'- 0"	4	12"	10'- 0"	4	12"	10'- 0"
8	10	14"	14"	8"	8"	16	16'- 0"	16	16'- 0"	8	8'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	3	9"	3'- 1 1/4"	6'- 0"	5	9"	3'- 1 1/4"	6'- 8"	9'- 5"	4	6"	12'- 0"	4	12"	12'- 0"	4	12"	12'- 0"
9	4	15 1/4"	15 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	6	9"	17'- 1"	5	9"	19'- 8"	--	---	----	----	4	9"	3'- 3 5/8"	3'- 9 1/4"	6'- 10"	4	12"	6'- 3"	4	12"	6'- 3"	4	12"	6'- 3"
9	6	15 1/2"	15 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	6	9"	17'- 1"	5	9"	19'- 8"	--	---	----	----	4	9"	3'- 3 5/8"	4'- 9 1/2"	7'- 10"	4	12"	8'- 3"	4	12"	8'- 3"	4	12"	8'- 3"
9	8	15 1/2"	15 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	6	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	4	9"	3'- 3 5/8"	5'- 9 1/2"	8'- 10"	4	12"	10'- 3"	4	12"	10'- 3"	4	12"	10'- 3"
9	10	15 1/2"	15 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	8	8'- 0"	6	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	5	9"	3'- 3 5/8"	6'- 9 1/2"	9'- 9"	4	6"	12'- 3"	4	12"	12'- 3"	4	12"	12'- 3"
9	12	15 1/2"	15 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	10	10'- 0"	6	9"	17'- 1"	5	9"	19'- 8"	4	9"	3'- 3 5/8"	6'- 4"	6	9"	3'- 3 5/8"	7'- 9 1/2"	10'- 8"	7	11 1/2"	14'- 3"	4	12"	14'- 3"	4	12"	14'- 3"
10	4	16 3/4"	16 3/4"	8"	8"	20	20'- 0"	20	20'- 0"	2	2'- 0"	6	9"	18'- 8"	4	9"	21'- 8"	--	---	----	----	4	9"	3'- 6"	3'- 10 3/4"	7'- 2"	4	12"	6'- 6"	4	12"	6'- 6"	4	12"	6'- 6"
10	6	16 3/4"	16 3/4"	8"	8"	20	20'- 0"	20	20'- 0"	4	4'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	--	---	----	----	4	9"	3'- 6"	4'- 10 3/4"	8'- 2"	4	12"	8'- 6"	4	11 1/2"	8'- 6"	4	11 1/2"	8'- 6"
10	8	17"	17"	8"	8"	20	20'- 0"	20	20'- 0"	6	6'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	5'- 11"	9'- 2"	4	12"	10'- 6"	4	11 1/2"	10'- 6"	4	11 1/2"	10'- 6"
10	10	17"	17"	8"	8"	20	20'- 0"	20	20'- 0"	8	8'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	5	9"	3'- 6"	6'- 11"	10'- 1"	4	6"	12'- 6"	4	11 1/2"	12'- 6"	4	11 1/2"	12'- 6"
10	12	17 1/4"	17 1/4"	8"	8"	20	20'- 0"	20	20'- 0"	10	10'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	4	9"	3'- 6"	6'- 9"	6	9"	3'- 6"	7'- 11 1/4"	11'- 0"	7	11 1/2"	14'- 6"	4	11 1/2"	14'- 6"	4	11 1/2"	14'- 6"
12	6	19 3/4"	19 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	7	9"	21'- 10"	6	9"	25'- 8"	--	---	----	----	4	9"	3'- 10 3/4"	5'- 1 3/4"	8'- 9"	4	12"	9'- 0"	4	10"	9'- 0"	4	10"	9'- 0"
12	8	19 3/4"	19 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	7	9"	21'- 10"	6	9"	25'- 8"	3	9"	3'- 10 3/4"	7'- 7"	4	9"	3'- 10 3/4"	6'- 1 3/4"	9'- 9"	4	12"	11'- 0"	4	10"	11'- 0"	4	10"	11'- 0"
12	10	19 3/4"	19 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	7	9"	21'- 10"	6	9"	25'- 8"	3	9"	3'- 10 3/4"	7'- 7"	5	9"	3'- 10 3/4"	7'- 1 3/4"	10'- 9"	4	6"	13'- 0"	4	10"	13'- 0"	4	10"	13'- 0"
12	12	19 3/4"	19 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	10	10'- 0"	7	9"	21'- 10"	6	9"	25'- 8"	3	9"	3'- 10 3/4"	7'- 7"	6	9"	3'- 10 3/4"	8'- 1 3/4"	11'- 8"	7	11 1/2"	15'- 0"	4	10"	15'- 0"	4	10"	15'- 0"

Sheet 1 of 2

For Typical Section, notes and other details, refer to standard BCD-DT.

DOUBLE BOX CULVERTS

20 TO 25 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION

1003.14