

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	a	LENGTH	SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH
3	3	8 1/2"	8 1/2"	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 1/2"	4'- 7"	4	12"	4'- 1"	4	12"	4'- 1"
3	4	8 1/2"	8 1/2"	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 1/2"	5'- 1"	4	12"	5'- 1"	4	12"	5'- 1"
4	3	10 3/4"	10 3/4"	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'- 10 3/4"	4'- 11"	4	12"	4'- 5"	4	12"	4'- 5"
4	4	10 3/4"	10 3/4"	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'- 4 3/4"	5'- 5"	4	12"	5'- 5"	4	12"	5'- 5"
4	5	10 3/4"	10 3/4"	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'- 10 3/4"	5'- 11"	4	12"	6'- 5"	4	12"	6'- 5"
4	6	10 3/4"	10 3/4"	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'- 4"	4	12"	2'- 3 5/8"	4'- 4 3/4"	6'- 5"	4	10 1/2"	7'- 5"	4	12"	7'- 5"
5	3	13"	13"	8"	8"	10	10'- 0"	10	10'- 0"	1	1'- 0"	4	11"	10'- 8"	4	11"	11'- 8"	--	---	----	----	4	11"	2'- 6"	3'- 1"	5'- 4"	4	12"	4'- 10"	4	12"	4'- 10"
5	4	13"	13"	8"	8"	10	10'- 0"	10	10'- 0"	2	2'- 0"	4	11"	10'- 8"	4	11"	11'- 8"	--	---	----	----	4	11"	2'- 6"	3'- 7"	5'- 10"	4	12"	5'- 10"	4	12"	5'- 10"
5	5	13"	13"	8"	8"	10	10'- 0"	10	10'- 0"	3	3'- 0"	4	11"	10'- 8"	4	11"	11'- 8"	--	---	----	----	4	11"	2'- 6"	4'- 1"	6'- 4"	4	12"	6'- 10"	4	12"	6'- 10"
5	6	13"	13"	8"	8"	10	10'- 0"	10	10'- 0"	4	4'- 0"	4	11"	10'- 8"	4	11"	11'- 8"	3	11"	2'- 6"	4'- 10"	4	11"	2'- 6"	4'- 7"	6'- 10"	4	11"	7'- 10"	4	12"	7'- 10"
5	7	13"	13"	8"	8"	10	10'- 0"	10	10'- 0"	5	5'- 0"	4	11"	10'- 8"	4	11"	11'- 8"	--	---	----	----	5	11"	2'- 6"	5'- 1"	7'- 3"	4	7"	8'- 10"	4	12"	8'- 10"
6	4	15 1/2"	15 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	----	----	4	9"	2'- 8 3/8"	3'- 9 1/2"	6'- 3"	4	12"	6'- 3"	4	11"	6'- 3"
6	5	15 1/2"	15 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	----	----	4	9"	2'- 8 3/8"	4'- 3 1/2"	6'- 9"	4	12"	7'- 3"	4	11 1/2"	7'- 3"
6	6	15 1/2"	15 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	----	----	4	9"	2'- 8 3/8"	4'- 9 1/2"	7'- 3"	4	10 1/2"	8'- 3"	4	11 1/2"	8'- 3"
6	7	15 1/2"	15 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	5	5'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	3	9"	2'- 8 3/8"	5'- 2"	4	9"	2'- 8 3/8"	5'- 3 1/2"	7'- 9"	4	7"	9'- 3"	4	11 1/2"	9'- 3"
6	8	15"	15"	8"	8"	12	12'- 0"	12	12'- 0"	6	6'- 0"	4	9"	12'- 3"	4	9"	13'- 8"	--	---	----	----	5	9"	2'- 8 3/8"	5'- 9"	8'- 1"	4	5 1/2"	10'- 2"	4	11 1/2"	10'- 2"
7	4	18"	18"	8"	8"	14	14'- 0"	14	14'- 0"	2	2'- 0"	5	8"	13'- 10"	4	8"	15'- 8"	--	---	----	----	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"	14	14'- 0"	14	14'- 0"	4	4'- 0"	5	8"	13'- 10"	4	8"	15'- 8"	--	---	----	----	4	8"	2'- 10 3/4"	4'- 11 3/4"	7'- 7"	4	10 1/2"	8'- 7"	4	10"	8'- 7"
7	8	17 3/4"	17 3/4"	8"	8"	14	14'- 0"	14	14'- 0"	6	6'- 0"	5	8"	13'- 10"	4	8"	15'- 8"	3	8"	2'- 10 3/4"	5'- 7"	4	8"	2'- 10 3/4"	5'- 11 3/4"	8'- 7"	6	11 1/2"	10'- 7"	4	10"	10'- 7"
7	10	17 1/2"	17 1/2"	9"	8"	14	14'- 0"	14	14'- 0"	8	8'- 0"	5	9"	13'- 10"	5	9"	15'- 10"	3	9"	2'- 11 3/4"	5'- 9"	5	9"	2'- 11 3/4"	6'- 11 1/2"	9'- 7"	5	6"	12'- 7"	4	10"	12'- 7"
8	4	19 1/2"	19 1/2"	8"	8"	16	16'- 0"	16	16'- 0"	2	2'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	----	----	4	9"	3'- 1 1/4"	4'- 1 1/2"	7'- 0"	4	12"	6'- 11"	4	10"	6'- 11"
8	6	19 3/4"	19 3/4"	8"	8"	16	16'- 0"	16	16'- 0"	4	4'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	----	----	4	9"	3'- 1 1/4"	5'- 1 3/4"	8'- 0"	4	10"	9'- 0"	4	10"	9'- 0"
8	8	20"	20"	8"	8"	16	16'- 0"	16	16'- 0"	6	6'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	----	----	5	9"	3'- 1 1/4"	6'- 2"	8'- 11"	6	11 1/2"	11'- 0"	4	10"	11'- 0"
8	10	19 3/4"	19 3/4"	9"	8"	16	16'- 0"	16	16'- 0"	8	8'- 0"	6	9"	15'- 6"	5	9"	17'- 10"	--	---	----	----	6	9"	3'- 2 1/4"	7'- 1 3/4"	9'- 11"	5	6"	13'- 0"	4	10"	13'- 0"
9	4	22 1/4"	22 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"	4'- 4 1/4"	7'- 5"	4	12"	7'- 4"	4	10"	7'- 4"
9	6	22"	22"	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"	5'- 4"	8'- 4"	4	9 1/2"	9'- 4"	4	10"	9'- 4"
9	8	21 3/4"	21 3/4"	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"	6'- 3 3/4"	9'- 4"	5	8"	11'- 3"	4	10"	11'- 3"
9	10	21 1/2"	21 1/2"	9"	8"	18	18'- 0"	18	18'- 0"	8	8'- 0"	6	9"	17'- 1"	5	9"	19'- 10"	3	9"	3'- 4 5/8"	6'- 7"	5	9"	3'- 4 5/8"	7'- 3 1/2"	10'- 4"	5	6"	13'- 3"	4	10"	13'- 3"
9	12	22 1/4"	22 1/4"	10 1/2"	8"	18	18'- 0"	18	18'- 0"	10	10'- 0"	6	9"	17'- 1"	5	9"	20'- 1"	3	9"	3'- 6 1/8"	6'- 10"	6	9"	3'- 6 1/8"	8'- 4 1/4"	11'- 6"	5	5"	15'- 4"	4	10"	15'- 4"
10	4	24 1/2"	24 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	2	2'- 0"	6	8"	18'- 8"	5	8"	21'- 8"	--	---	----	----	4	8"	3'- 6"	4'- 6 1/2"	7'- 9"	4	12"	7'- 9"	4	9"	7'- 9"
10	6	24 1/4"	24 1/4"	8"	8"	20	20'- 0"	20	20'- 0"	4	4'- 0"	6	8"	18'- 8"	5	8"	21'- 8"	--	---	----	----	4	8"	3'- 6"	5'- 6 1/4"	8'- 9"	4	9"	9'- 8"	4	9"	9'- 8"
10	8	24 1/4"	24 1/4"	8"	8"	20	20'- 0"	20	20'- 0"	6	6'- 0"	6	8"	18'- 8"	5	8"	21'- 8"	3	8"	3'- 6"	6'- 10"	4	8"	3'- 6"	6'- 6 1/4"	9'- 9"	5	7 1/2"	11'- 8"	4	9"	11'- 8"
10	10	24 1/4"	24 1/4"	9"	8"	20	20'- 0"	20	20'- 0"	8	8'- 0"	7	9"	18'- 8"	6	9"	21'- 10"	3	9"	3'- 7"	7'- 0"	5	9"	3'- 7"	7'- 6 1/4"	10'- 9"	6	8"	13'- 8"	4	9"	13'- 8"
10	12	24 1/4"	24 1/4"	10 1/2"	8"	20	20'- 0"	20	20'- 0"	10	10'- 0"	7	9"	18'- 8"	6	9"	22'- 1"	3	9"	3'- 8 1/2"	7'- 3"	6	9"	3'- 8 1/2"	8'- 6 1/4"	11'- 10"	5	5"	15'- 8"	4	9"	15'- 8"
12	6	28 1/4"	28 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	8	9"	21'- 10"	6	9"	25'- 8"	--	---	----	----	4	9"	3'- 10 3/4"	5'- 10 1/4"	9'- 6"	4	8"	10'- 5"	4	7"	10'- 5"
12	8	28 1/4"	28 1/4"	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'- 10 1/4"	10'- 6"	4	4 1/2"	12'- 5"	4	7 1/2"	12'- 5"
12	10	28 1/4"	28 1/4"	9 1/4"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	7	9"	21'- 10"	6	9"	25'- 10"	3	9"	4'- 0"	7'- 10"	5	9"	4'- 0"	7'- 10 1/4"	11'- 6"	6	8"	14'- 5"	4	7 1/2"	14'- 5"
12	12	28 1/2"	28 1/2"	10 1/2"	8"	24	24'- 0"	24	24'- 0"	10	10'- 0"	7	9"	21'- 10"	7	9"	26'- 1"	3	9"	4'- 1 1/4"	8'- 0"	6	9"	4'- 1 1/4"	8'- 10 1/2"	12'- 7"	8	12"	16'- 5"	5	12"	16'- 5"

DOUBLE BOX CULVERTS

40 TO 45 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION