

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 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"	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"
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	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	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	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	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"
5	3	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	1	1'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	-----	-----	4	12"	2'- 6"	2'- 8"	4'- 11"	4	12"	4'- 0"	4	12"	4'- 0"
5	4	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	2	2'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	-----	-----	4	12"	2'- 6"	3'- 2"	5'- 5"	4	12"	5'- 0"	4	12"	5'- 0"
5	5	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	3	3'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	-----	-----	4	12"	2'- 6"	3'- 8"	5'- 11"	4	12"	6'- 0"	4	12"	6'- 0"
5	6	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	4	4'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	-----	-----	4	12"	2'- 6"	4'- 2"	6'- 5"	4	12"	7'- 0"	4	12"	7'- 0"
5	7	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	5	5'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	--	---	-----	-----	4	12"	2'- 6"	4'- 8"	6'- 11"	4	12"	8'- 0"	4	12"	8'- 0"
6	4	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	3'- 2"	5'- 7"	4	12"	5'- 0"	4	12"	5'- 0"
6	5	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	3'- 8"	6'- 1"	4	12"	6'- 0"	4	12"	6'- 0"
6	6	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	4'- 2"	6'- 7"	4	12"	7'- 0"	4	12"	7'- 0"
6	7	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	5	5'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	4'- 8"	7'- 1"	4	12"	8'- 0"	4	12"	8'- 0"
6	8	8 1/4"	8 1/4"	8"	8"	12	12'- 0"	12	12'- 0"	6	6'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	5'- 2 1/4"	7'- 7"	4	12"	9'- 0"	4	12"	9'- 0"
7	4	8 3/4"	8 3/4"	8"	8"	14	14'- 0"	14	14'- 0"	2	2'- 0"	4	11"	13'- 10"	4	11"	15'- 8"	--	---	-----	-----	5	11"	2'- 10 3/4"	3'- 2 3/4"	5'- 10"	4	11"	5'- 2"	4	12"	5'- 2"
7	6	9"	9"	8"	8"	14	14'- 0"	14	14'- 0"	4	4'- 0"	4	11"	13'- 10"	4	11"	15'- 8"	4	11"	2'- 10 3/4"	5'- 6"	4	11"	2'- 10 3/4"	4'- 3"	6'- 11"	4	12"	7'- 2"	4	12"	7'- 2"
7	8	9 1/4"	9 1/4"	8"	8"	14	14'- 0"	14	14'- 0"	6	6'- 0"	4	11"	13'- 10"	4	11"	15'- 8"	4	11"	2'- 10 3/4"	5'- 6"	4	11"	2'- 10 3/4"	5'- 3 1/4"	7'- 11"	4	12"	9'- 2"	4	12"	9'- 2"
7	10	9 1/2"	9 1/2"	8"	8"	14	14'- 0"	14	14'- 0"	8	8'- 0"	4	11"	13'- 10"	4	11"	15'- 8"	3	11"	2'- 10 3/4"	5'- 7"	5	11"	2'- 10 3/4"	6'- 3 1/2"	8'- 10"	4	9"	11'- 3"	4	12"	11'- 3"
8	4	10 1/4"	10 1/4"	8"	8"	16	16'- 0"	16	16'- 0"	2	2'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	3'- 4 1/4"	6'- 2"	4	10 1/2"	5'- 5"	4	12"	5'- 5"
8	6	10 1/2"	10 1/2"	8"	8"	16	16'- 0"	16	16'- 0"	4	4'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	--	---	-----	-----	4	9"	3'- 1 1/4"	4'- 4 1/2"	7'- 3"	4	12"	7'- 5"	4	12"	7'- 5"
8	8	10 3/4"	10 3/4"	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'- 4 3/4"	8'- 3"	4	12"	9'- 5"	4	12"	9'- 5"
8	10	11"	11"	8"	8"	16	16'- 0"	16	16'- 0"	8	8'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	--	---	-----	-----	5	9"	3'- 1 1/4"	6'- 5"	9'- 2"	4	10"	11'- 6"	4	12"	11'- 6"
9	4	11 1/4"	11 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	5	8"	17'- 1"	4	8"	19'- 8"	3	8"	3'- 3 5/8"	6'- 5"	4	8"	3'- 3 5/8"	3'- 5 1/4"	6'- 6"	4	10"	5'- 6"	4	12"	5'- 6"
9	6	11 1/2"	11 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	5	8"	17'- 1"	4	8"	19'- 8"	--	---	-----	-----	4	8"	3'- 3 5/8"	4'- 5 1/2"	7'- 6"	4	12"	7'- 7"	4	12"	7'- 7"
9	8	11 3/4"	11 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	5	8"	17'- 1"	4	8"	19'- 8"	--	---	-----	-----	4	8"	3'- 3 5/8"	5'- 5 3/4"	8'- 6"	4	12"	9'- 8"	4	12"	9'- 8"
9	10	11 3/4"	11 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	8	8'- 0"	5	8"	17'- 1"	4	8"	19'- 8"	3	8"	3'- 3 5/8"	6'- 5"	4	8"	3'- 3 5/8"	6'- 5 3/4"	9'- 6"	4	11"	11'- 8"	4	12"	11'- 8"
9	12	12 1/4"	12 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	10	10'- 0"	5	8"	17'- 1"	4	8"	19'- 8"	4	8"	3'- 3 5/8"	6'- 4"	5	8"	3'- 3 5/8"	7'- 6 1/4"	10'- 6"	5	9"	13'- 9"	4	12"	13'- 9"
10	4	12 1/4"	12 1/4"	8"	8"	20	20'- 0"	20	20'- 0"	2	2'- 0"	5	9"	18'- 8"	5	9"	21'- 8"	--	---	-----	-----	5	9"	3'- 6"	3'- 6 1/4"	6'- 8"	4	9"	5'- 9"	4	12"	5'- 9"
10	6	12 1/2"	12 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	4	4'- 0"	5	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	4'- 6 1/2"	7'- 9"	4	12"	7'- 9"	4	12"	7'- 9"
10	8	12 3/4"	12 3/4"	8"	8"	20	20'- 0"	20	20'- 0"	6	6'- 0"	5	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	5'- 6 3/4"	8'- 10"	4	12"	9'- 9"	4	12"	9'- 9"
10	10	13"	13"	8"	8"	20	20'- 0"	20	20'- 0"	8	8'- 0"	5	9"	18'- 8"	5	9"	21'- 8"	--	---	-----	-----	5	9"	3'- 6"	6'- 7"	9'- 9"	4	11 1/2"	11'- 10"	4	12"	11'- 10"
10	12	13"	13"	8"	8"	20	20'- 0"	20	20'- 0"	10	10'- 0"	5	9"	18'- 8"	5	9"	21'- 8"	4	9"	3'- 6"	6'- 9"	5	9"	3'- 6"	7'- 7"	10'- 9"	4	6"	13'- 10"	4	12"	13'- 10"
12	6	14 3/4"	14 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	6	8"	21'- 10"	4	8"	25'- 8"	3	8"	3'- 10 3/4"	7'- 7"	4	8"	3'- 10 3/4"	4'- 8 3/4"	8'- 4"	4	12"	8'- 1"	4	12"	8'- 1"
12	8	15"	15"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	6	8"	21'- 10"	4	8"	25'- 8"	3	8"	3'- 10 3/4"	7'- 7"	4	8"	3'- 10 3/4"	5'- 9"	9'- 5"	4	12"	10'- 2"	4	12"	10'- 2"
12	10	15 1/4"	15 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	6	8"	21'- 10"	4	8"	25'- 8"	4	8"	3'- 10 3/4"	7'- 6"	4	8"	3'- 10 3/4"	6'- 9 1/4"	10'- 5"	4	12"	12'- 3"	4	12"	12'- 3"
12	12	15 1/2"	15 1/2"	8"	8"	24	24'- 0"	24	24'- 0"	10	10'- 0"	6	8"	21'- 10"	5	8"	25'- 8"	4	8"	3'- 10 3/4"	7'- 6"	5	8"	3'- 10 3/4"	7'- 9 1/2"	11'- 4"	4	6"	14'- 3"	4	12"	14'- 3"

DOUBLE BOX CULVERTS  
10 TO 15 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE  
AND  
BRIDGE  
DIVISION