

DIMENSIONS					REINFORCING STEEL																						
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB (IN.)	T2 BOTTOM SLAB (IN.)	T3 WALL (IN.)	A	B	C	D	E	F	BH1				BH2			BH3			BV1			NO. BL1 BARS	NO. BL2 BARS		
											SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE			SPACING C-C	LENGTH
3	3	8"	8"	8"	2	2'- 0"	2	2'- 0"	1	1'- 0"	4	1 1/2"	4'- 0"	2'- 8"	8'- 10"	5	1 1/2"	4'- 0"	--	----	----	----	4	12"	4'- 0"	16	8
3	4	8"	8"	8"	2	2'- 0"	2	2'- 0"	2	2'- 0"	4	11"	4'- 0"	3'- 2"	9'- 10"	5	11"	4'- 0"	--	----	----	----	4	12"	5'- 0"	16	12
4	3	8"	8"	8"	3	3'- 0"	3	3'- 0"	1	1'- 0"	4	10 1/2"	5'- 0"	2'- 8"	9'- 10"	6	10 1/2"	5'- 0"	4	10 1/2"	2'- 3 5/8"	4'- 4"	4	11 1/2"	4'- 0"	20	8
4	4	8"	8"	8"	3	3'- 0"	3	3'- 0"	2	2'- 0"	4	10"	5'- 0"	3'- 2"	10'- 10"	6	10"	5'- 0"	3	10"	2'- 3 5/8"	4'- 5"	4	12"	5'- 0"	20	12
4	5	8"	8"	8"	3	3'- 0"	3	3'- 0"	3	3'- 0"	4	9 1/2"	5'- 0"	3'- 8"	11'- 10"	6	9 1/2"	5'- 0"	3	9 1/2"	2'- 3 5/8"	4'- 5"	4	12"	6'- 0"	20	16
4	6	8"	8"	8"	3	3'- 0"	3	3'- 0"	4	4'- 0"	4	9 1/2"	5'- 0"	4'- 2"	12'- 10"	6	9 1/2"	5'- 0"	3	9 1/2"	2'- 3 5/8"	4'- 5"	4	12"	7'- 0"	20	20
5	3	9 1/2"	9 1/2"	8"	4	4'- 0"	4	4'- 0"	1	1'- 0"	4	8 1/2"	6'- 0"	2'- 9 1/2"	11'- 1"	6	8 1/2"	6'- 0"	3	8 1/2"	2'- 6"	4'- 10"	4	9"	4'- 3"	24	8
5	4	9 3/4"	9 3/4"	8"	4	4'- 0"	4	4'- 0"	2	2'- 0"	4	8"	6'- 0"	3'- 3 3/4"	12'- 1"	6	8"	6'- 0"	--	----	----	----	4	12"	5'- 3"	24	12
5	5	9 3/4"	9 3/4"	8"	4	4'- 0"	4	4'- 0"	3	3'- 0"	4	8"	6'- 0"	3'- 9 3/4"	13'- 1"	6	8"	6'- 0"	--	----	----	----	4	12"	6'- 3"	24	16
5	6	9 3/4"	9 3/4"	8"	4	4'- 0"	4	4'- 0"	4	4'- 0"	4	8"	6'- 0"	4'- 3 3/4"	14'- 1"	6	8"	6'- 0"	--	----	----	----	4	12"	7'- 3"	24	20
5	7	9 3/4"	9 3/4"	8"	4	4'- 0"	4	4'- 0"	5	5'- 0"	4	8"	6'- 0"	4'- 9 3/4"	15'- 1"	6	8"	6'- 0"	--	----	----	----	4	12"	8'- 3"	24	24
6	4	11 1/2"	11 1/2"	8"	5	5'- 0"	5	5'- 0"	2	2'- 0"	4	7"	7'- 0"	3'- 5 1/2"	13'- 5"	6	7"	7'- 0"	--	----	----	----	4	12"	5'- 7"	28	12
6	5	11 1/2"	11 1/2"	8"	5	5'- 0"	5	5'- 0"	3	3'- 0"	4	6 1/2"	7'- 0"	3'- 11 1/2"	14'- 5"	6	6 1/2"	7'- 0"	--	----	----	----	4	12"	6'- 7"	28	16
6	6	11 1/2"	11 1/2"	8"	5	5'- 0"	5	5'- 0"	4	4'- 0"	4	6 1/2"	7'- 0"	4'- 5 1/2"	15'- 5"	6	6 1/2"	7'- 0"	--	----	----	----	4	12"	7'- 7"	28	20
6	7	11 1/2"	11 1/2"	8"	5	5'- 0"	5	5'- 0"	5	5'- 0"	4	6 1/2"	7'- 0"	4'- 11 1/2"	16'- 5"	6	6 1/2"	7'- 0"	--	----	----	----	4	12"	8'- 7"	28	24
6	8	11 1/2"	11 1/2"	8"	5	5'- 0"	5	5'- 0"	6	6'- 0"	4	6 1/2"	7'- 0"	5'- 5 1/2"	17'- 5"	6	6 1/2"	7'- 0"	--	----	----	----	4	10 1/2"	9'- 7"	28	28
7	4	13"	13"	8"	6	6'- 0"	6	6'- 0"	2	2'- 0"	4	6"	8'- 0"	3'- 7"	14'- 8"	6	6"	8'- 0"	--	----	----	----	4	10 1/2"	5'- 10"	32	12
7	6	13"	13"	8"	6	6'- 0"	6	6'- 0"	4	4'- 0"	5	7 1/2"	8'- 0"	4'- 7"	16'- 6"	8	7 1/2"	8'- 0"	--	----	----	----	4	12"	7'- 10"	32	20
7	8	13"	13"	8"	6	6'- 0"	6	6'- 0"	6	6'- 0"	5	7"	8'- 0"	5'- 7"	18'- 6"	7	7"	8'- 0"	--	----	----	----	4	12"	9'- 10"	32	28
7	10	13"	13"	8"	6	6'- 0"	6	6'- 0"	8	8'- 0"	5	5 1/2"	8'- 0"	6'- 7"	20'- 6"	6	5 1/2"	8'- 0"	--	----	----	----	4	5 1/2"	11'- 10"	32	36
8	4	13 3/4"	13 3/4"	8"	7	7'- 0"	7	7'- 0"	2	2'- 0"	5	8"	9'- 0"	3'- 7 3/4"	15'- 8"	8	8"	9'- 0"	3	8"	3'- 1 1/4"	6'- 0"	4	8"	6'- 0"	36	12
8	6	13 3/4"	13 3/4"	8"	7	7'- 0"	7	7'- 0"	4	4'- 0"	4	8"	9'- 0"	4'- 7 3/4"	17'- 9"	8	8"	9'- 0"	3	8"	3'- 1 1/4"	6'- 0"	4	12"	8'- 0"	36	20
8	8	13 3/4"	13 3/4"	8"	7	7'- 0"	7	7'- 0"	6	6'- 0"	5	6"	9'- 0"	5'- 7 3/4"	19'- 8"	7	6"	9'- 0"	--	----	----	----	4	12"	10'- 0"	36	28
8	10	13 1/2"	13 1/2"	8"	7	7'- 0"	7	7'- 0"	8	8'- 0"	5	6"	9'- 0"	6'- 7 1/2"	21'- 7"	7	6"	9'- 0"	--	----	----	----	4	6"	11'- 11"	36	36
9	4	15 1/4"	15 1/4"	8"	8	8'- 0"	8	8'- 0"	2	2'- 0"	4	7 1/2"	10'- 0"	3'- 9 1/4"	17'- 0"	8	7 1/2"	10'- 0"	4	7 1/2"	3'- 3 5/8"	6'- 4"	4	7 1/2"	6'- 3"	40	12
9	6	15 1/2"	15 1/2"	8"	8	8'- 0"	8	8'- 0"	4	4'- 0"	4	7 1/2"	10'- 0"	4'- 9 1/2"	19'- 1"	8	7 1/2"	10'- 0"	3	7 1/2"	3'- 3 5/8"	6'- 5"	4	12"	8'- 3"	40	20
9	8	15 1/2"	15 1/2"	8"	8	8'- 0"	8	8'- 0"	6	6'- 0"	4	7 1/2"	10'- 0"	5'- 9 1/2"	21'- 1"	8	7 1/2"	10'- 0"	4	7 1/2"	3'- 3 5/8"	6'- 4"	4	12"	10'- 3"	40	28
9	10	15 1/2"	15 1/2"	8"	8	8'- 0"	8	8'- 0"	8	8'- 0"	5	5 1/2"	10'- 0"	6'- 9 1/2"	22'- 11"	7	5 1/2"	10'- 0"	--	----	----	----	4	6"	12'- 3"	40	36
9	12	15 1/4"	15 1/4"	8 1/2"	8	8'- 0"	8	8'- 0"	10	10'- 0"	6	5 1/2"	10'- 1"	7'- 9 1/4"	24'- 10"	7	5 1/2"	10'- 1"	--	----	----	----	6	9"	14'- 3"	40	44
10	4	17"	17"	8"	9	9'- 0"	9	9'- 0"	2	2'- 0"	5	5 1/2"	11'- 0"	3'- 11"	18'- 2"	7	5 1/2"	11'- 0"	--	----	----	----	4	7 1/2"	6'- 6"	44	12
10	6	17 1/4"	17 1/4"	8"	9	9'- 0"	9	9'- 0"	4	4'- 0"	5	7"	11'- 0"	4'- 11 1/4"	20'- 3"	8	7"	11'- 0"	--	----	----	----	4	12"	8'- 6"	44	20
10	8	17 1/4"	17 1/4"	8"	9	9'- 0"	9	9'- 0"	6	6'- 0"	5	7"	11'- 0"	5'- 11 1/4"	22'- 3"	8	7"	11'- 0"	--	----	----	----	4	12"	10'- 6"	44	28
10	10	17 1/4"	17 1/4"	8"	9	9'- 0"	9	9'- 0"	8	8'- 0"	6	6 1/2"	11'- 0"	6'- 11 1/4"	24'- 1"	8	6 1/2"	11'- 0"	--	----	----	----	4	6"	12'- 6"	44	36
10	12	17"	17"	8 3/4"	9	9'- 0"	9	9'- 0"	10	10'- 0"	6	6"	11'- 1 1/2"	7'- 11"	26'- 2"	8	6"	11'- 1"	--	----	----	----	6	9 1/2"	14'- 6"	44	44
12	6	19 1/2"	19 1/2"	8"	11	11'- 0"	11	11'- 0"	4	4'- 0"	4	5 1/2"	13'- 0"	5'- 1 1/2"	22'- 9"	8	5 1/2"	13'- 0"	--	----	----	----	4	12"	8'- 11"	52	20
12	8	20"	20"	8"	11	11'- 0"	11	11'- 0"	6	6'- 0"	5	6"	13'- 0"	6'- 2"	24'- 8"	8	6"	13'- 0"	--	----	----	----	4	12"	11'- 0"	52	28
12	10	20 1/4"	20 1/4"	8"	11	11'- 0"	11	11'- 0"	8	8'- 0"	6	5 1/2"	13'- 0"	7'- 2 1/4"	26'- 7"	8	5 1/2"	13'- 0"	--	----	----	----	5	9 1/2"	13'- 0"	52	36
12	12	20 1/4"	20 1/4"	8 3/4"	11	11'- 0"	11	11'- 0"	10	10'- 0"	6	5 1/2"	13'- 1 1/2"	8'- 2 1/4"	28'- 8"	8	5 1/2"	13'- 1"	--	----	----	----	6	9 1/2"	15'- 0"	52	44

SINGLE BOX CULVERTS
25 TO 30 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION