

DIMENSIONS					REINFORCING STEEL																						
SPAN	HGHT	T1	T2	T3	BH1												BH2			BH3			BV1			NO. BL1 BARS	NO. BL2 BARS
(FT.)	(FT.)	TOP SLAB (IN.)	BOTTOM SLAB (IN.)	WALL (IN.)	A	B	C	D	E	F	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	9"	4'- 0"	2'- 8"	8'- 10"	5	9"	4'- 0"	3	9"	2'- 1 1/4"	4'- 0"	4	12"	4'- 0"	16	8
3	4	8"	8"	8"	2	2'- 0"	2	2'- 0"	2	2'- 0"	4	9"	4'- 0"	3'- 2"	9'- 10"	5	9"	4'- 0"	--	--	----	----	4	12"	5'- 0"	16	12
4	3	9 1/4"	9 1/4"	8"	3	3'- 0"	3	3'- 0"	1	1'- 0"	4	9"	5'- 0"	2'- 9 1/4"	10'- 0"	6	9"	5'- 0"	--	--	----	----	4	12"	4'- 2"	20	8
4	4	9"	9"	8"	3	3'- 0"	3	3'- 0"	2	2'- 0"	4	8 1/2"	5'- 0"	3'- 3"	11'- 0"	6	8 1/2"	5'- 0"	--	--	----	----	4	12"	5'- 2"	20	12
4	5	9"	9"	8"	3	3'- 0"	3	3'- 0"	3	3'- 0"	4	8 1/2"	5'- 0"	3'- 9"	12'- 0"	6	8 1/2"	5'- 0"	--	--	----	----	4	12"	6'- 2"	20	16
4	6	9 1/4"	9 1/4"	8"	3	3'- 0"	3	3'- 0"	4	4'- 0"	4	8 1/2"	5'- 0"	4'- 3 1/4"	13'- 0"	6	8 1/2"	5'- 0"	--	--	----	----	4	12"	7'- 2"	20	20
5	3	11 3/4"	11 3/4"	8"	4	4'- 0"	4	4'- 0"	1	1'- 0"	4	7 1/2"	6'- 0"	2'- 11 3/4"	11'- 5"	6	7 1/2"	6'- 0"	--	--	----	----	4	11 1/2"	4'- 8"	24	8
5	4	11 3/4"	11 3/4"	8"	4	4'- 0"	4	4'- 0"	2	2'- 0"	4	7"	6'- 0"	3'- 5 3/4"	12'- 5"	6	7"	6'- 0"	--	--	----	----	4	12"	5'- 8"	24	12
5	5	12"	12"	8"	4	4'- 0"	4	4'- 0"	3	3'- 0"	4	7"	6'- 0"	4'- 0"	13'- 6"	6	7"	6'- 0"	--	--	----	----	4	12"	6'- 8"	24	16
5	6	12"	12"	8"	4	4'- 0"	4	4'- 0"	4	4'- 0"	4	7"	6'- 0"	4'- 6"	14'- 6"	6	7"	6'- 0"	--	--	----	----	4	12"	7'- 8"	24	20
5	7	11 1/4"	11 1/4"	8"	4	4'- 0"	4	4'- 0"	5	5'- 0"	4	7"	6'- 0"	4'- 11 1/4"	15'- 4"	6	7"	6'- 0"	--	--	----	----	4	10 1/2"	8'- 6"	24	24
6	4	13"	13"	8"	5	5'- 0"	5	5'- 0"	2	2'- 0"	4	6"	7'- 0"	3'- 7"	13'- 8"	6	6"	7'- 0"	--	--	----	----	4	12"	5'- 10"	28	12
6	5	13"	13"	8"	5	5'- 0"	5	5'- 0"	3	3'- 0"	4	6"	7'- 0"	4'- 1"	14'- 8"	6	6"	7'- 0"	--	--	----	----	4	12"	6'- 10"	28	16
6	6	13"	13"	8"	5	5'- 0"	5	5'- 0"	4	4'- 0"	4	6"	7'- 0"	4'- 7"	15'- 8"	6	6"	7'- 0"	--	--	----	----	4	12"	7'- 10"	28	20
6	7	13"	13"	8"	5	5'- 0"	5	5'- 0"	5	5'- 0"	4	6"	7'- 0"	5'- 1"	16'- 8"	6	6"	7'- 0"	--	--	----	----	4	12"	8'- 10"	28	24
6	8	13"	13"	8"	5	5'- 0"	5	5'- 0"	6	6'- 0"	4	6"	7'- 0"	5'- 7"	17'- 8"	6	6"	7'- 0"	--	--	----	----	5	10 1/2"	9'- 10"	28	28
7	4	14 3/4"	14 3/4"	8"	6	6'- 0"	6	6'- 0"	2	2'- 0"	4	5"	8'- 0"	3'- 8 3/4"	14'- 11"	6	5"	8'- 0"	--	--	----	----	4	12"	6'- 1"	32	12
7	6	14 3/4"	14 3/4"	8"	6	6'- 0"	6	6'- 0"	4	4'- 0"	4	5"	8'- 0"	4'- 8 3/4"	16'- 11"	6	5"	8'- 0"	--	--	----	----	4	12"	8'- 1"	32	20
7	8	14 3/4"	14 3/4"	8"	6	6'- 0"	6	6'- 0"	6	6'- 0"	4	5"	8'- 0"	5'- 8 3/4"	18'- 11"	6	5"	8'- 0"	--	--	----	----	4	7 1/2"	10'- 1"	32	28
7	10	14 1/2"	14 1/2"	8 1/2"	6	6'- 0"	6	6'- 0"	8	8'- 0"	6	8"	8'- 1"	6'- 8 1/2"	20'- 8"	8	8"	8'- 1"	--	--	----	----	5	7"	12'- 1"	32	36
8	4	17"	17"	8"	7	7'- 0"	7	7'- 0"	2	2'- 0"	4	6"	9'- 0"	3'- 11"	16'- 4"	7	6"	9'- 0"	--	--	----	----	4	12"	6'- 6"	36	12
8	6	17 1/4"	17 1/4"	8"	7	7'- 0"	7	7'- 0"	4	4'- 0"	4	6"	9'- 0"	4'- 11 1/4"	18'- 4"	7	6"	9'- 0"	--	--	----	----	4	12"	8'- 6"	36	20
8	8	17 1/4"	17 1/4"	8"	7	7'- 0"	7	7'- 0"	6	6'- 0"	5	6"	9'- 0"	5'- 11 1/4"	20'- 3"	7	6"	9'- 0"	--	--	----	----	4	7"	10'- 6"	36	28
8	10	17"	17"	8 1/2"	7	7'- 0"	7	7'- 0"	8	8'- 0"	6	7 1/2"	9'- 1"	6'- 11"	22'- 1"	8	7 1/2"	9'- 1"	--	--	----	----	5	7"	12'- 6"	36	36
9	4	18 3/4"	18 3/4"	8"	8	8'- 0"	8	8'- 0"	2	2'- 0"	4	5 1/2"	10'- 0"	4'- 3 1/4"	17'- 7"	7	5 1/2"	10'- 0"	--	--	----	----	4	12"	6'- 9"	40	12
9	6	18 3/4"	18 3/4"	8"	8	8'- 0"	8	8'- 0"	4	4'- 0"	4	5 1/2"	10'- 0"	5'- 3 1/4"	19'- 7"	7	5 1/2"	10'- 0"	--	--	----	----	4	12"	8'- 9"	40	20
9	8	18 3/4"	18 3/4"	8"	8	8'- 0"	8	8'- 0"	6	6'- 0"	4	5 1/2"	10'- 0"	6'- 3 1/4"	21'- 7"	7	5 1/2"	10'- 0"	--	--	----	----	4	7 1/2"	10'- 9"	40	28
9	10	18 1/2"	18 1/2"	8 1/2"	8	8'- 0"	8	8'- 0"	8	8'- 0"	6	7"	10'- 1"	7'- 1 1/2"	23'- 4"	8	7"	10'- 1"	--	--	----	----	4	4 1/2"	12'- 9"	40	36
9	12	18 1/2"	18 1/2"	10"	8	8'- 0"	8	8'- 0"	10	10'- 0"	7	7"	10'- 4"	8'- 1 1/2"	25'- 6"	8	7"	10'- 4"	--	--	----	----	5	6"	14'- 9"	40	44
10	4	20"	20"	8"	9	9'- 0"	9	9'- 0"	2	2'- 0"	5	6 1/2"	11'- 0"	4'- 2"	18'- 8"	8	6 1/2"	11'- 0"	--	--	----	----	4	11"	7'- 0"	44	12
10	6	20 1/4"	20 1/4"	8"	9	9'- 0"	9	9'- 0"	4	4'- 0"	5	6 1/2"	11'- 0"	5'- 2 1/4"	20'- 9"	8	6 1/2"	11'- 0"	--	--	----	----	4	12"	9'- 0"	44	20
10	8	20 1/2"	20 1/2"	8"	9	9'- 0"	9	9'- 0"	6	6'- 0"	5	6"	11'- 0"	6'- 2 1/2"	22'- 9"	8	6"	11'- 0"	--	--	----	----	4	7 1/2"	11'- 1"	44	28
10	10	20 3/4"	20 3/4"	8 1/2"	9	9'- 0"	9	9'- 0"	8	8'- 0"	6	6"	11'- 1"	7'- 2 3/4"	24'- 9"	8	6"	11'- 1"	--	--	----	----	4	4 1/2"	13'- 1"	44	36
10	12	20 1/2"	20 1/2"	10"	9	9'- 0"	9	9'- 0"	10	10'- 0"	6	5 1/2"	11'- 4"	8'- 2 1/2"	26'- 11"	8	5 1/2"	11'- 4"	--	--	----	----	5	6"	15'- 1"	44	44
12	6	23 1/4"	23 1/4"	8"	11	11'- 0"	11	11'- 0"	4	4'- 0"	5	5 1/2"	13'- 0"	5'- 5 1/4"	23'- 3"	8	5 1/2"	13'- 0"	--	--	----	----	4	9 1/2"	9'- 6"	52	20
12	8	23 1/4"	23 1/4"	8"	11	11'- 0"	11	11'- 0"	6	6'- 0"	5	5 1/2"	13'- 0"	6'- 5 1/4"	25'- 3"	8	5 1/2"	13'- 0"	--	--	----	----	4	8"	11'- 6"	52	28
12	10	23"	23"	8 1/2"	11	11'- 0"	11	11'- 0"	8	8'- 0"	5	5"	13'- 1"	7'- 5"	27'- 3"	8	5"	13'- 1"	--	--	----	----	4	5"	13'- 6"	52	36
12	12	22 3/4"	22 3/4"	10"	11	11'- 0"	11	11'- 0"	10	10'- 0"	6	5"	13'- 4"	8'- 4 3/4"	29'- 4"	8	5"	13'- 4"	--	--	----	----	6	9 1/2"	15'- 6"	52	44

SINGLE BOX CULVERTS  
35 TO 40 FT. FILLS  
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION