

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"	8"	8"	8"	13	13'- 0"	13	13'- 0"	1	1'- 0"	4	12"	14'-10"	4	12"	15'- 0"	--	---	----	----	4	12"	2'- 1 1/4"	2'- 8"	4'- 6"	4	12"	4'- 0"	4	12"	4'- 0"
3	4	8"	8"	8"	8"	13	13'- 0"	13	13'- 0"	2	2'- 0"	4	12"	14'-10"	4	12"	15'- 0"	--	---	----	----	4	12"	2'- 1 1/4"	3'- 2"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	3	9 1/4"	9 1/4"	8"	8"	17	17'- 0"	17	17'- 0"	1	1'- 0"	4	12"	18'- 5"	4	12"	19'- 0"	--	---	----	----	4	12"	2'- 3 5/8"	2'- 9 1/4"	4'-10"	4	12"	4'- 2"	4	12"	4'- 2"
4	4	9 1/4"	9 1/4"	8"	8"	17	17'- 0"	17	17'- 0"	2	2'- 0"	4	12"	18'- 5"	4	12"	19'- 0"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 3/4"	5'- 4"	4	12"	5'- 2"	4	12"	5'- 2"
4	5	9 1/4"	9 1/4"	8"	8"	17	17'- 0"	17	17'- 0"	3	3'- 0"	4	12"	18'- 5"	4	12"	19'- 0"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 9/4"	5'-10"	4	12"	6'- 2"	4	12"	6'- 2"
4	6	9 1/4"	9 1/4"	8"	8"	17	17'- 0"	17	17'- 0"	4	4'- 0"	4	12"	18'- 5"	4	12"	19'- 0"	3	12"	2'- 3 5/8"	4'- 5"	4	12"	2'- 3 5/8"	4'- 3/4"	6'- 4"	4	12"	7'- 2"	4	12"	7'- 2"
5	3	10 3/4"	10 3/4"	8"	8"	21	21'- 0"	21	21'- 0"	1	1'- 0"	4	11"	22'- 0"	4	11"	23'- 0"	--	---	----	----	4	11"	2'- 6"	2'-10 3/4"	5'- 2"	4	12"	4'- 5"	4	12"	4'- 5"
5	4	10 3/4"	10 3/4"	8"	8"	21	21'- 0"	21	21'- 0"	2	2'- 0"	4	11"	22'- 0"	4	11"	23'- 0"	--	---	----	----	4	11"	2'- 6"	3'- 4 3/4"	5'- 8"	4	12"	5'- 5"	4	12"	5'- 5"
5	5	11"	11"	8"	8"	21	21'- 0"	21	21'- 0"	3	3'- 0"	4	11"	22'- 0"	4	11"	23'- 0"	--	---	----	----	4	11"	2'- 6"	3'-11"	6'- 2"	4	12"	6'- 6"	4	12"	6'- 6"
5	6	11"	11"	8"	8"	21	21'- 0"	21	21'- 0"	4	4'- 0"	4	11"	22'- 0"	4	11"	23'- 0"	3	11"	2'- 6"	4'-10"	4	11"	2'- 6"	4'- 5"	6'- 8"	4	12"	7'- 6"	4	12"	7'- 6"
5	7	11"	11"	8"	8"	21	21'- 0"	21	21'- 0"	5	5'- 0"	4	11"	22'- 0"	4	11"	23'- 0"	4	11"	2'- 6"	4'- 9"	4	11"	2'- 6"	4'-11"	7'- 2"	4	10 1/2"	8'- 6"	4	12"	8'- 6"
6	4	13"	13"	8"	8"	25	25'- 0"	25	25'- 0"	2	2'- 0"	4	9"	25'- 7"	4	9"	27'- 0"	--	---	----	----	4	9"	2'- 8 3/8"	3'- 7"	6'- 0"	4	12"	5'-10"	4	12"	5'-10"
6	5	13"	13"	8"	8"	25	25'- 0"	25	25'- 0"	3	3'- 0"	4	9"	25'- 7"	4	9"	27'- 0"	--	---	----	----	4	9"	2'- 8 3/8"	4'- 1"	6'- 6"	4	12"	6'-10"	4	12"	6'-10"
6	6	13"	13"	8"	8"	25	25'- 0"	25	25'- 0"	4	4'- 0"	4	9"	25'- 7"	4	9"	27'- 0"	--	---	----	----	4	9"	2'- 8 3/8"	4'- 7"	7'- 0"	4	12"	7'-10"	4	12"	7'-10"
6	7	13"	13"	8"	8"	25	25'- 0"	25	25'- 0"	5	5'- 0"	4	9"	25'- 7"	4	9"	27'- 0"	3	9"	2'- 8 3/8"	5'- 2"	4	9"	2'- 8 3/8"	5'- 1"	7'- 6"	4	10 1/2"	8'-10"	4	12"	8'-10"
6	8	13"	13"	8"	8"	25	25'- 0"	25	25'- 0"	6	6'- 0"	4	9"	25'- 7"	4	9"	27'- 0"	--	---	----	----	5	9"	2'- 8 3/8"	5'- 7"	7'-11"	5	10 1/2"	9'-10"	4	12"	9'-10"
7	4	14 1/2"	14 1/2"	8"	8"	29	29'- 0"	29	29'- 0"	2	2'- 0"	5	9"	29'- 2"	5	9"	31'- 0"	--	---	----	----	4	9"	2'-10 3/4"	3'- 8 1/2"	6'- 4"	4	12"	6'- 1"	4	12"	6'- 1"
7	6	14 1/2"	14 1/2"	8"	8"	29	29'- 0"	29	29'- 0"	4	4'- 0"	5	9"	29'- 2"	5	9"	31'- 0"	--	---	----	----	4	9"	2'-10 3/4"	4'- 8 1/2"	7'- 4"	4	12"	8'- 1"	4	12"	8'- 1"
7	8	14 1/2"	14 1/2"	8"	8"	29	29'- 0"	29	29'- 0"	6	6'- 0"	5	9"	29'- 2"	5	9"	31'- 0"	3	9"	2'-10 3/4"	5'- 7"	4	9"	2'-10 3/4"	5'- 8 1/2"	8'- 4"	4	7"	10'- 1"	4	12"	10'- 1"
7	10	14 3/4"	14 3/4"	8"	8"	29	29'- 0"	29	29'- 0"	8	8'- 0"	4	9"	29'- 2"	5	9"	31'- 0"	3	9"	2'-10 3/4"	5'- 7"	5	9"	2'-10 3/4"	6'- 8 3/4"	9'- 4"	6	9 1/2"	12'- 1"	4	12"	12'- 1"
8	4	16 1/2"	16 1/2"	8"	8"	33	33'- 0"	33	33'- 0"	2	2'- 0"	5	8"	32'-10"	5	8"	35'- 0"	--	---	----	----	4	8"	3'- 1 1/4"	3'-10 1/2"	6'- 9"	4	12"	6'- 5"	4	11 1/2"	6'- 5"
8	6	16 1/2"	16 1/2"	8"	8"	33	33'- 0"	33	33'- 0"	4	4'- 0"	5	8"	32'-10"	5	8"	35'- 0"	--	---	----	----	4	8"	3'- 1 1/4"	4'-10 1/2"	7'- 9"	4	12"	8'- 5"	4	11 1/2"	8'- 5"
8	8	16 1/2"	16 1/2"	8"	8"	33	33'- 0"	33	33'- 0"	6	6'- 0"	5	8"	32'-10"	5	8"	35'- 0"	3	8"	3'- 1 1/4"	6'- 0"	4	8"	3'- 1 1/4"	5'-10 1/2"	8'- 9"	5	10 1/2"	10'- 5"	4	11 1/2"	10'- 5"
8	10	16 1/2"	16 1/2"	8"	8"	33	33'- 0"	33	33'- 0"	8	8'- 0"	5	8"	32'-10"	5	8"	35'- 0"	3	8"	3'- 1 1/4"	6'- 0"	5	8"	3'- 1 1/4"	6'-10 1/2"	9'- 8"	6	9 1/2"	12'- 5"	4	11 1/2"	12'- 5"
9	4	18 1/2"	18 1/2"	8"	8"	37	37'- 0"	37	37'- 0"	2	2'- 0"	6	9"	36'- 5"	5	9"	39'- 0"	--	---	----	----	4	9"	3'- 3 5/8"	4'- 1 1/2"	7'- 1"	4	12"	6'- 9"	4	10 1/2"	6'- 9"
9	6	18 1/2"	18 1/2"	8"	8"	37	37'- 0"	37	37'- 0"	4	4'- 0"	6	9"	36'- 5"	5	9"	39'- 0"	--	---	----	----	4	9"	3'- 3 5/8"	5'- 1 1/2"	8'- 1"	4	12"	8'- 9"	4	10 1/2"	8'- 9"
9	8	18 1/2"	18 1/2"	8"	8"	37	37'- 0"	37	37'- 0"	6	6'- 0"	6	9"	36'- 5"	5	9"	39'- 0"	3	9"	3'- 3 5/8"	6'- 5"	4	9"	3'- 3 5/8"	6'- 1 1/2"	9'- 1"	5	10 1/2"	10'- 9"	4	10 1/2"	10'- 9"
9	10	18 1/2"	18 1/2"	8"	8"	37	37'- 0"	37	37'- 0"	8	8'- 0"	6	9"	36'- 5"	5	9"	39'- 0"	--	---	----	----	6	9"	3'- 3 5/8"	7'- 1 1/2"	9'-11"	6	9 1/2"	12'- 9"	4	10 1/2"	12'- 9"
9	12	18 3/4"	18 3/4"	9 1/4"	8"	37	37'- 0"	37	37'- 0"	10	10'- 0"	6	9"	36'- 5"	5	9"	39'- 3"	--	---	----	----	7	9"	3'- 4 7/8"	8'- 3/4"	11'- 0"	5	5 1/2"	14'- 9"	4	10 1/2"	14'- 9"
10	4	20 1/2"	20 1/2"	8"	8"	41	41'- 0"	41	41'- 0"	2	2'- 0"	6	9"	40'- 0"	6	9"	43'- 0"	--	---	----	----	4	9"	3'- 6"	4'- 2 1/2"	7'- 5"	4	12"	7'- 1"	4	10"	7'- 1"
10	6	20 1/2"	20 1/2"	8"	8"	41	41'- 0"	41	41'- 0"	4	4'- 0"	6	9"	40'- 0"	6	9"	43'- 0"	--	---	----	----	4	9"	3'- 6"	5'- 2 1/2"	8'- 5"	4	12"	9'- 1"	4	10"	9'- 1"
10	8	20 1/2"	20 1/2"	8"	8"	41	41'- 0"	41	41'- 0"	6	6'- 0"	6	9"	40'- 0"	6	9"	43'- 0"	3	9"	3'- 6"	6'-10"	4	9"	3'- 6"	6'- 2 1/2"	9'- 5"	4	6 1/2"	11'- 1"	4	10"	11'- 1"
10	10	20 1/2"	20 1/2"	8"	8"	41	41'- 0"	41	41'- 0"	8	8'- 0"	6	9"	40'- 0"	6	9"	43'- 0"	3	9"	3'- 6"	6'-10"	5	9"	3'- 6"	7'- 2 1/2"	10'- 5"	6	9"	13'- 1"	4	10"	13'- 1"
10	12	20 1/2"	20 1/2"	9 1/4"	8"	41	41'- 0"	41	41'- 0"	10	10'- 0"	6	9"	40'- 0"	6	9"	43'- 3"	3	9"	3'- 7 1/4"	7'- 0"	6	9"	3'- 7 1/4"	8'- 2 1/2"	11'- 5"	7	10 1/2"	15'- 1"	4	10"	15'- 1"
12	6	24 1/4"	24 1/4"	8"	8"	49	49'- 0"	49	49'- 0"	4	4'- 0"	6	8"	47'- 2"	6	8"	51'- 0"	--	---	----	----	4	8"	3'-10 3/4"	5'- 6 1/4"	9'- 2"	4	12"	9'- 8"	4	10"	9'- 8"
12	8	24 1/4"	24 1/4"	8"	8"	49	49'- 0"	49	49'- 0"	6	6'- 0"	6	8"	47'- 2"	6	8"	51'- 0"	3	8"	3'-10 3/4"	7'- 7"	4	8"	3'-10 3/4"	6'- 6 1/4"	10'- 2"	5	9 1/2"	11'- 8"	4	10"	11'- 8"
12	10	24 1/4"	24 1/4"	8"	8"	49	49'- 0"	49	49'- 0"	8	8'- 0"	6	8"	47'- 2"	6	8"	51'- 0"	3	8"	3'-10 3/4"	7'- 7"	5	8"	3'-10 3/4"	7'- 6 1/4"	11'- 1"	4	4"	13'- 8"	4	10"	13'- 8"
12	12	24 1/4"	24 1/4"	9 1/4"	8"	49	49'- 0"	49	49'- 0"	10	10'- 0"	6	8"	47'- 2"	6	8"	51'- 3"	4	8"	4'- 0"	7'- 9"	5	8"	4'- 0"	8'- 6 1/4"	12'- 2"	7	10"	15'- 8"	4	10"	15'- 8"

# QUADRUPLE BOX CULVERTS

## 30 TO 35 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE  
AND  
BRIDGE  
DIVISION