


SPAN		HIGHT		REINFORCING STEEL											QUAN./LF			HEADWALLS						WINGWALL		
(FT.)	(FT.)	SIZE	SPACING C-C	a	b	c	d	e	f	g	LENGTH	NO. BL1 BARS	NO. BL2 BARS	REINFORCING STEEL (LBS./LONG. JT)	CONCRETE CLASS A4 (CY/LF)	REINFORCING STEEL (LBS./LF)	G HEADWALL LENGTH	HW1 SIZE	HW1 LENGTH	NO. HW2 BARS	NO. HW3 BARS	INLET CONCRETE CL. A4 (CY)	INLET REINFORCING STEEL (LBS)		OUTLET CONCRETE CL. A4 (CY)	OUTLET REINFORCING STEEL (LBS)
3	3	4	12"	2'- 8 3/4"	0'- 4 3/4"	1'- 6 3/8"	0'- 6 1/4"	0'- 4"	11'- 3 3/8"	1'- 5 5/8"	11'-11"	44	16	42,388	1,006	119,910	13'- 2"	6	12'-10"	2	8	1,823	102,932	1,804	77,103	A
3	4	4	12"	2'- 8 3/4"	0'- 4 3/4"	1'- 6 3/8"	0'- 6 1/4"	0'- 4"	11'- 3 3/8"	1'- 5 5/8"	11'-11"	44	24	45,212	1,105	128,262	13'- 2"	6	12'-10"	2	10	1,928	109,835	1,896	77,103	C
4	3	4	12"	3'- 5 1/4"	0'- 7"	1'- 9"	0'- 9 3/8"	0'- 6 1/4"	14'- 4"	1'-10 1/2"	15'- 2"	56	16	52,408	1,362	132,045	16'- 2"	6	15'-10"	2	8	2,085	120,956	2,076	95,127	B
4	4	4	12"	3'- 5 1/4"	0'- 7"	1'- 9"	0'- 9 3/8"	0'- 6 1/4"	14'- 4"	1'-10 1/2"	15'- 2"	56	24	55,232	1,460	140,397	16'- 2"	6	15'-10"	2	10	2,190	127,859	2,168	95,127	D
4	5	4	12"	3'- 5 1/8"	0'- 7 1/4"	1'- 8 3/4"	0'- 9 3/4"	0'- 6 1/2"	14'- 4"	1'-10 1/4"	15'- 3"	56	32	58,056	1,581	148,861	16'- 2"	6	15'-10"	2	12	2,289	134,761	2,255	95,127	F
4	6	4	12"	3'- 5 1/8"	0'- 7 1/4"	1'- 8 3/4"	0'- 9 3/4"	0'- 6 1/2"	14'- 4"	1'-10 1/4"	15'- 3"	56	40	60,880	1,678	169,692	16'- 2"	6	15'-10"	2	14	2,394	141,664	2,347	95,127	H
5	3	4	10"	4'- 1 1/8"	0'- 9"	1'-11 3/4"	1'- 1/4"	0'- 8 1/4"	17'- 4"	2'- 3 3/4"	18'- 6"	68	16	62,428	1,772	170,945	19'- 2"	6	18'-10"	2	8	2,295	138,980	2,296	113,151	B
5	4	4	10"	4'- 1 1/8"	0'- 9"	1'-11 3/4"	1'- 1/4"	0'- 8 1/4"	17'- 4"	2'- 3 3/4"	18'- 6"	68	24	65,252	1,870	179,564	19'- 2"	6	18'-10"	2	10	2,401	145,883	2,389	113,151	D
5	5	4	10"	4'- 1 1/8"	0'- 9"	1'-11 3/4"	1'- 1/4"	0'- 8 1/4"	17'- 4"	2'- 3 3/4"	18'- 6"	68	32	68,076	1,968	188,184	19'- 2"	6	18'-10"	2	12	2,506	152,785	2,481	113,151	F
5	6	4	10"	4'- 1 1/8"	0'- 9"	1'-11 3/4"	1'- 1/4"	0'- 8 1/4"	17'- 4"	2'- 3 3/4"	18'- 6"	68	40	70,900	2,066	196,803	19'- 2"	6	18'-10"	2	14	2,611	159,688	2,574	113,151	H
5	7	4	10"	4'- 1 1/8"	0'- 9"	1'-11 3/4"	1'- 1/4"	0'- 8 1/4"	17'- 4"	2'- 3 3/4"	18'- 6"	68	48	73,724	2,162	225,486	19'- 2"	6	18'-10"	2	16	2,716	166,591	2,667	113,151	J
6	4	4	9"	4'-10 3/8"	0'-11 1/4"	2'- 2 1/4"	1'- 3 3/8"	0'-10 1/2"	20'- 4"	2'- 8 3/4"	21'- 9"	80	24	75,272	2,384	237,810	22'- 2"	6	21'-10"	2	10	2,563	163,907	2,561	131,175	D
6	5	4	9"	4'-10 3/8"	0'-11 1/4"	2'- 2 1/4"	1'- 3 3/8"	0'-10 1/2"	20'- 4"	2'- 8 3/4"	21'- 9"	80	32	78,096	2,482	246,608	22'- 2"	6	21'-10"	2	12	2,668	170,809	2,654	131,175	F
6	6	4	9"	4'-10 3/8"	0'-11 1/4"	2'- 2 1/4"	1'- 3 3/8"	0'-10 1/2"	20'- 4"	2'- 8 3/4"	21'- 9"	80	40	80,920	2,580	255,405	22'- 2"	6	21'-10"	2	14	2,773	177,712	2,746	131,175	H
6	7	4	9"	4'-10 3/8"	0'-11 1/4"	2'- 2 1/4"	1'- 3 3/8"	0'-10 1/2"	20'- 4"	2'- 8 3/4"	21'- 9"	80	48	83,744	2,677	281,845	22'- 2"	6	21'-10"	2	16	2,878	184,615	2,839	131,175	J
6	8	4	9"	4'-10 3/8"	0'-11 1/4"	2'- 2 1/4"	1'- 3 3/8"	0'-10 1/2"	20'- 4"	2'- 8 3/4"	21'- 9"	80	56	86,568	2,774	304,790	22'- 2"	6	21'-10"	2	18	2,983	191,517	2,932	131,175	L
7	4	5	9"	5'- 6 3/4"	1'- 1 1/8"	2'- 4 5/8"	1'- 7"	1'- 1"	23'- 4 1/8"	3'- 1 3/8"	25'- 1"	92	24	85,292	3,018	295,429	25'- 2"	6	24'-10"	2	10	2,689	181,931	2,697	149,199	E
7	6	4	9"	5'- 6 3/4"	1'- 1 3/4"	2'- 4 5/8"	1'- 6 3/8"	1'- 1"	23'- 4 1/8"	3'- 1 3/8"	25'- 1"	92	40	90,940	3,214	309,518	25'- 2"	6	24'-10"	2	14	2,899	195,736	2,882	149,199	I
7	8	4	9"	5'- 6 3/4"	1'- 1 3/4"	2'- 4 5/8"	1'- 6 3/8"	1'- 1"	23'- 4 1/8"	3'- 1 3/8"	25'- 1"	92	56	96,588	3,408	363,278	25'- 2"	6	24'-10"	2	18	3,109	209,541	3,068	149,199	M
7	10	4	9"	5'- 7 3/4"	1'- 1 3/4"	2'- 4 5/8"	1'- 6 3/8"	1'- 1"	23'- 6 1/8"	3'- 1 3/8"	25'- 3"	92	72	102,236	3,681	410,043	25'- 2"	6	24'-10"	2	22	3,241	223,347	3,174	149,199	Q
8	4	5	8"	6'- 3 1/4"	1'- 3 3/8"	2'- 7 3/8"	1'- 9 3/8"	1'- 3"	26'- 3 3/8"	3'- 6 3/8"	28'- 5"	104	24	95,312	3,660	384,188	28'- 2"	6	27'-10"	2	10	2,781	199,955	2,799	167,223	E
8	6	5	8"	6'- 3 1/4"	1'- 3 3/8"	2'- 7 3/8"	1'- 9 3/8"	1'- 3"	26'- 3 3/8"	3'- 6 3/8"	28'- 5"	104	40	100,960	3,858	377,182	28'- 2"	6	27'-10"	2	14	2,991	213,760	2,985	167,223	I
8	8	5	8"	6'- 3 3/8"	1'- 3 3/8"	2'- 7 5/8"	1'- 9 1/2"	1'- 2 3/4"	26'- 3 3/8"	3'- 6 3/8"	28'- 4"	104	56	106,608	4,011	425,598	28'- 2"	6	27'-10"	2	18	3,217	227,565	3,186	167,223	M
8	10	5	8"	6'- 4 1/4"	1'- 3 3/8"	2'- 7 3/8"	1'- 9 3/8"	1'- 3"	26'- 5 3/8"	3'- 6 3/8"	28'- 7"	104	72	112,256	4,324	513,594	28'- 2"	6	27'-10"	2	22	3,331	241,371	3,274	167,223	Q
9	4	5	9"	6'-11 1/8"	1'- 5 3/8"	2'-10 1/4"	2'- 5 3/8"	1'- 5"	29'- 4"	3'-11 3/4"	31'- 8"	116	24	105,332	4,377	458,279	31'- 2"	6	30'-10"	2	10	2,855	217,979	2,883	185,247	F
9	6	5	9"	6'-11 1/8"	1'- 5 3/8"	2'-10 1/4"	2'- 5 3/8"	1'- 5"	29'- 4"	3'-11 3/4"	31'- 8"	116	40	110,980	4,573	478,066	31'- 2"	6	30'-10"	2	14	3,065	231,784	3,068	185,247	J
9	8	5	9"	6'-11 1/8"	1'- 5 3/8"	2'-10 1/4"	2'- 5 3/8"	1'- 5"	29'- 4"	3'-11 3/4"	31'- 8"	116	56	116,628	4,766	534,043	31'- 2"	6	30'-10"	2	18	3,275	245,589	3,254	185,247	N
9	10	5	9"	7'- 7/8"	1'- 5 3/8"	2'-10 1/4"	2'- 5 3/8"	1'- 5"	29'- 6"	3'-11 3/4"	31'-10"	116	72	122,276	5,042	598,272	31'- 2"	6	30'-10"	2	22	3,403	259,395	3,356	185,247	R
9	12	5	9"	7'- 2 1/4"	1'- 6 1/8"	2'-10"	2'- 1"	1'- 5 1/4"	29'- 9"	3'-11 1/2"	32'- 1"	116	88	127,924	5,437	673,368	31'- 2"	6	30'-10"	2	26	3,439	273,200	3,366	185,247	V
10	4	6	9"	7'- 8 1/2"	1'- 8"	3'- 1"	2'- 3 3/8"	1'- 7"	32'- 4"	4'- 5"	34'-11"	128	24	115,352	5,167	542,758	34'- 2"	6	33'-10"	2	10	2,873	236,003	2,911	203,271	F
10	8	6	9"	7'- 8 1/2"	1'- 8"	3'- 1"	2'- 3 3/8"	1'- 7"	32'- 4"	4'- 5"	34'-11"	128	40	121,000	5,363	563,235	34'- 2"	6	33'-10"	2	14	3,083	249,808	3,097	203,271	J
10	8	6	9"	7'- 8 1/2"	1'- 8"	3'- 1"	2'- 3 3/8"	1'- 7"	32'- 4"	4'- 5"	34'-11"	128	56	126,648	5,557	614,472	34'- 2"	6	33'-10"	2	18	3,294	263,613	3,282	203,271	N
10	10	6	9"	7'- 9 1/2"	1'- 8"	3'- 1"	2'- 3 3/8"	1'- 7"	32'- 6"	4'- 5"	35'- 1"	128	72	132,296	5,836	673,740	34'- 2"	6	33'-10"	2	22	3,419	277,419	3,382	203,271	R
10	12	6	9"	7'-10 3/8"	1'- 8 1/4"	3'- 3/4"	2'- 4"	1'- 7 1/4"	32'- 9"	4'- 4 3/4"	35'- 5"	128	88	137,944	6,238	745,759	34'- 2"	6	33'-10"	2	26	3,450	291,224	3,387	203,271	V
12	6	6	8"	9'- 1 1/8"	2'- 1/4"	3'- 6 3/8"	2'- 9 5/8"	1'-11 1/4"	38'- 4 1/8"	5'- 3 3/8"	41'- 6"	152	40	141,040	7,222	782,525	40'- 2"	6	39'-10"	2	14	3,003	285,856	3,036	239,319	K
12	8	6	8"	9'- 1 5/8"	2'- 1/4"	3'- 6 3/8"	2'- 9 5/8"	1'-11 1/4"	38'- 4 1/8"	5'- 3 3/8"	41'- 6"	152	56	146,688	7,415	839,828	40'- 2"	6	39'-10"	2	18	3,213	299,661	3,221	239,319	O
12	10	6	8"	9'- 2 1/8"	2'- 1/4"	3'- 6 3/8"	2'- 9 5/8"	1'-11 1/4"	38'- 6 3/8"	5'- 3 3/8"	41'- 9"	152	72	152,336	7,725	848,516	40'- 2"	6	39'-10"	2	22	3,312	313,467	3,294	239,319	S
12	12	6	8"	9'- 4 1/8"	2'- 1/4"	3'- 6 3/8"	2'- 9 5/8"	1'-11 1/4"	38'- 9 1/8"	5'- 3 3/8"	41'-11"	152	88	157,984	8,059	933,076	40'- 2"	6	39'-10"	2	26	3,379	327,272	3,336	239,319	W

SPECIFICATION REFERENCE	<h2>TRIPLE BOX CULVERTS</h2> <h3>40 TO 45 FT. FILLS</h3> <p>VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	 ROAD AND BRIDGE STANDARDS	REVISION DATE	SHEET 2 OF 2
			10/09	1004-23