

TABLE OF DIMENSIONS AND CONCRETE VOLUMES PER ENDWALL  
FOR ELLIPTICAL PIPE CULVERTS

SIZE OF ELLIPTICAL PIPE CULVERTS (SPAN X RISE)

FOR 1/2:1 FILL SLOPE	DIMENSION	60 x 38	68 x 43	76 x 48	83 x 53	91 x 58	98 x 63	106 x 68	DIMENSION	
	A	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	A
	B	4'-9 1/2"	4'-9 1/2"	5'-4"	5'-10 1/2"	6'-5"	6'-11 1/2"	7'-6"	7'-6"	B
	C	3'-3 3/4"	3'-3 3/4"	3'-9"	4'-2 1/4"	4'-7 1/2"	5'-0 5/8"	5'-5 3/4"	5'-5 3/4"	C
	D	3'-2"	3'-7"	4'-0"	4'-5"	4'-10"	5'-8"	5'-8"	5'-8"	D
	E	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	E
	F	0'-5 1/2"	0'-5 1/2"	0'-6"	0'-6 1/2"	0'-7"	0'-7 1/2"	0'-8"	0'-8"	F
	G	4'-4"	4'-4"	4'-10"	5'-4"	5'-10"	6'-4"	6'-10"	6'-10"	G
	H	0'-10"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-2"	H
	I	1'-11"	1'-11"	2'-0 1/2"	2'-3"	2'-5 1/2"	2'-8"	2'-10 1/2"	2'-10 1/2"	I
	J	7'-2 1/2"	7'-10 1/2"	8'-8 1/4"	9'-6 1/4"	10'-5"	11'-3"	12'-2"	12'-2"	J
	K	5'-11 1/2"	6'-7 1/2"	7'-3 1/2"	7'-11 3/4"	8'-8 1/8"	9'-5"	10'-2 1/8"	10'-2 1/8"	K
	L	6'-7 5/8"	6'-7 5/8"	7'-6"	8'-4 1/2"	9'-2 1/8"	10'-1 1/4"	10'-11 5/8"	10'-11 5/8"	L
	M	1'-1 1/4"	1'-1 1/4"	1'-2 1/8"	1'-3 5/8"	1'-5"	1'-6 1/2"	1'-8"	1'-8"	M
	N	0'-5 3/4"	0'-5 3/4"	0'-5 3/4"	0'-6 3/8"	0'-6 1/8"	0'-7 1/2"	0'-8 1/2"	0'-8 1/2"	N
	O	0'-11 1/2"	0'-11 1/2"	0'-11 1/2"	1'-0 1/2"	1'-1 1/2"	1'-2 1/2"	1'-3 1/2"	1'-3 1/2"	O
	P	5'-9"	5'-9"	6'-6"	7'-3"	8'-0"	8'-9"	9'-6"	9'-6"	P
R	1'-1"	1'-1"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7"	1'-8 1/2"	1'-8 1/2"	R	
S	5'-0"	5'-8"	6'-4"	6'-11"	7'-7"	8'-2"	8'-10"	8'-10"	S	
CUBIC YARDS CONCRETE	CONCRETE PIPE	3.793	3.747	4.601	5.913	7.433	9.191	11.207	CONCRETE PIPE	
FOR 2:1 FILL SLOPE	C	4'-4"	4'-4"	4'-10 7/8"	5'-5 3/4"	6'-0 3/4"	6'-7 5/8"	7'-2 5/8"	C	
	F	0'-6 1/2"	0'-6 1/2"	0'-7"	0'-7 1/2"	0'-8"	0'-8 1/2"	0'-9"	F	
	G	4'-3"	4'-3"	4'-9"	5'-3"	5'-9"	6'-3"	6'-9"	G	
	I	1'-10 3/4"	1'-10 3/4"	2'-0 1/4"	2'-2 3/4"	2'-5 1/4"	2'-7 3/4"	2'-10 1/4"	I	
	J	7'-2 1/2"	7'-10 1/2"	8'-8 1/4"	9'-6 1/4"	10'-5"	11'-3"	12'-2"	J	
	L	8'-8"	8'-8"	9'-9 3/4"	10'-11 5/8"	12'-1 1/2"	13'-3 3/8"	14'-5 1/4"	L	
	M	1'-1 1/8"	1'-1 1/8"	1'-2"	1'-3 1/2"	1'-4 7/8"	1'-6 3/8"	1'-7 3/4"	M	
	P	7'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-6"	12'-6"	P	
R	1'-0 3/4"	1'-0 3/4"	1'-2 1/4"	1'-3 3/4"	1'-5 1/4"	1'-6 3/4"	1'-8 1/4"	R		
CUBIC YARDS CONCRETE	CONCRETE PIPE	4.469	4.423	5.453	7.034	8.876	11.010	13.457	CONCRETE PIPE	
FOR 1/2:1 AND 2:1 FILL SLOPES	a	0'-6 1/4"	0'-7"	0'-8"	0'-8 3/4"	0'-9 1/2"	0'-10 1/4"	0'-11"	a	
	b	0'-5"	0'-5 3/4"	0'-6 1/4"	0'-7"	0'-7 1/2"	0'-8"	0'-8 3/4"	b	

FOR ALL DIMENSIONS NOT SHOWN SEE VALUES LISTED ABOVE FOR 1/2:1 FILL SLOPES

SPECIFICATION REFERENCE
105 302

**STANDARD ENDWALL FOR PIPE CULVERTS**  
60" x 38" - 106" x 68" ELLIPTICAL PIPES  
VIRGINIA DEPARTMENT OF TRANSPORTATION

<b>VDOT</b> ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 3 OF 3
101.05	