

EW-2

TABLE OF DIMENSIONS AND CONCRETE VOLUMES PER ENDWALL FOR 42" - 96" CIRCULAR PIPE CULVERTS

DIAMETER OF PIPE CULVERTS												
	DIMENSION	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	DIMENSION
FOR 1/2:1 FILL SLOPE	A	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	A
	B	4'-9 1/2"	5'-4"	5'-10 1/2"	6'-5"	6'-11 1/2"	7'-6"	8'-0 1/2"	8'-7"	9'-2 1/4"	9'-9 3/4"	B
	C	3'-3 3/4"	3'-9"	4'-2 1/4"	4'-7"	5'-0 5/8"	5'-5 3/4"	5'-11"	6'-4 1/4"	6'-9 3/8"	7'-2 5/8"	C
	D	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	D
	E	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	E
	F	0'-5 1/2"	0'-6"	0'-6 1/2"	0'-7"	0'-7 1/2"	0'-8"	0'-8 1/2"	0'-9"	0'-9 1/2"	0'-10"	F
	G	4'-4"	4'-10"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-4"	8'-10"	G
	H	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	H
	I	1'-11"	2'-0 1/2"	2'-3"	2'-5 1/2"	2'-8"	2'-10 1/2"	3'-1"	3'-3 1/2"	3'-6"	3'-8 1/2"	I
	J	5'-8 1/2"	6'-4 1/4"	7'-1 1/4"	7'-10"	8'-7"	9'-4"	10'-0 3/4"	10'-9 5/8"	11'-7"	12'-4 1/8"	J
	K	4'-5 1/2"	4'-11 1/2"	5'-6 3/4"	6'-1 7/8"	6'-9"	7'-4 1/8"	7'-11 1/4"	8'-6 1/2"	9'-2"	9'-9 1/8"	K
	L	6'-7 5/8"	7'-6"	8'-4 1/2"	9'-2 1/8"	10'-1 1/4"	10'-11 5/8"	11'-10"	12'-8 3/8"	13'-6 7/8"	14'-5 1/4"	L
	M	1'-1 1/4"	1'-2 1/8"	1'-3 5/8"	1'-5"	1'-6 1/2"	1'-8"	1'-9 3/8"	1'-10 3/4"	2'-0 3/8"	2'-2"	M
	N	0'-5 3/4"	0'-5 3/4"	0'-6 3/4"	0'-6 3/8"	0'-7 1/2"	0'-8 1/8"	0'-8 5/8"	0'-9 1/4"	0'-10"	0'-10 1/2"	N
	O	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'-4 1/2"	1'-5 1/2"	1'-6 1/2"	1'-7 1/2"	O
	P	5'-9"	6'-6"	7'-3"	8'-0"	8'-9"	9'-6"	10'-3"	11'-0"	11'-9"	12'-6"	P
	R	1'-1"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7"	1'-8 1/2"	1'-10"	1'-11 1/2"	2'-1"	2'-2 1/2"	R
CUBIC YARDS CONCRETE	CONC. PIPE	3.558	4.373	5.635	7.089	8.776	10.702	12.861	15.303	18.195	21.285	CONC. PIPE
	C.M. PIPE	3.791	4.680	6.054	7.642	9.490	11.605	13.984	16.678	19.724	23.107	C.M. PIPE
FOR 2:1 FILL SLOPE	C	4'-4"	4'-10 7/8"	5'-5 3/4"	6'-0 3/4"	6'-7 5/8"	7'-2 5/8"	7'-9 1/2"	8'-4 1/2"	8'-11 3/8"	9'-6 1/4"	C
	F	0'-6 1/2"	0'-7"	0'-7 1/2"	0'-8"	0'-8 1/2"	0'-9"	0'-9 1/2"	0'-10"	0'-10 1/2"	0'-11"	F
	G	4'-3"	4'-9"	5'-3"	5'-9"	6'-3"	6'-9"	7'-3"	7'-9"	8'-3"	8'-9"	G
	I	1'-10 3/4"	2'-0 1/4"	2'-2 3/4"	2'-5 1/4"	2'-7 3/4"	2'-10 1/4"	3'-0 3/4"	3'-3 1/4"	3'-5 3/4"	3'-8 1/4"	I
	J	5'-8 1/4"	6'-4"	7'-1"	7'-9 3/4"	8'-6 3/4"	9'-3 1/2"	10'-0 1/2"	10'-9 1/8"	11'-6 3/8"	12'-3 1/2"	J
	L	8'-8"	9'-9 3/4"	10'-11 5/8"	12'-1 1/2"	13'-3 3/8"	14'-5 1/4"	15'-7"	16'-9"	17'-10 3/4"	19'-0 5/8"	L
	M	1'-1 1/8"	1'-2"	1'-3 1/2"	1'-4 7/8"	1'-6 3/8"	1'-7 3/4"	1'-9 1/4"	1'-10 5/8"	2'-0 1/4"	2'-1 1/8"	M
	P	7'-6"	8'-6"	9'-6"	10'-6"	11'-6"	12'-6"	13'-6"	14'-6"	15'-6"	16'-6"	P
R	1'-0 3/4"	1'-2 1/4"	1'-3 3/4"	1'-5 1/4"	1'-6 3/4"	1'-8 1/4"	1'-9 3/4"	1'-11 1/4"	2'-0 3/4"	2'-2 1/4"	R	
CUBIC YARDS CONCRETE	CONC. PIPE	4.238	5.230	6.761	8.538	10.602	12.958	15.612	18.623	22.104	25.898	CONC. PIPE
	C.M. PIPE	4.469	5.536	7.177	9.088	11.312	13.856	16.730	19.993	23.618	27.704	C.M. PIPE
FOR 1/2:1 AND 2:1 FILL SLOPES	a	0'-4 1/2"	0'-5"	0'-5 3/4"	0'-6 1/4"	0'-7"	0'-7 1/2"	0'-8 1/4"	0'-8 3/4"	0'-9 1/2"	0'-10"	a
	b	0'-3 1/2"	0'-4"	0'-4 1/2"	0'-5"	0'-5 1/2"	0'-6"	0'-6 1/2"	0'-7"	0'-7 1/2"	0'-8"	b

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

**VDOT**  
ROAD AND BRIDGE STANDARDS

SHEET 2 OF 3      REVISION DATE

101.04

**STANDARD ENDWALL FOR PIPE CULVERTS**  
42" - 96" CIRCULAR PIPES  
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE  
105  
302