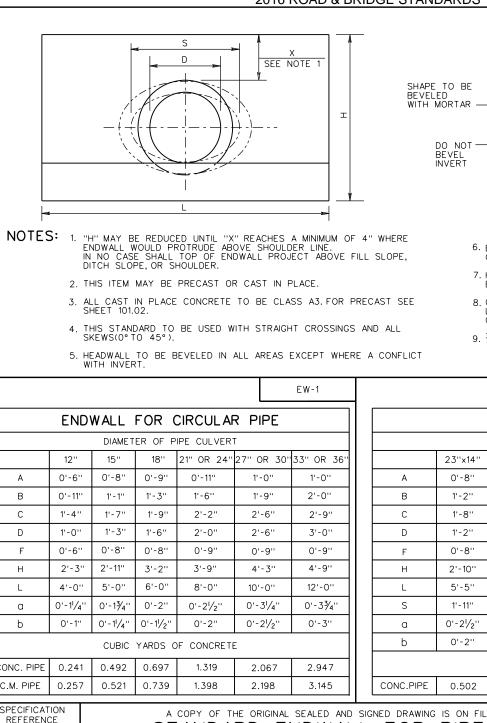
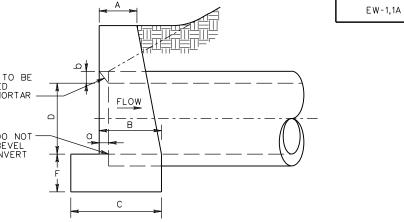
## 2016 ROAD & BRIDGE STANDARDS





- 6. BEVEL EDGE IS REQUIRED ON THE HEADWALL AT THE INLET END OF THE CULVERT (WHERE THE FLOW ENTERS THE CULVERT).
- 7. HEADWALL AT THE OUTLET END OF THE CULVERT MAY BE EITHER SQUARE EDGE OR BEVEL EDGE.
- 8. ON SHALLOW FILLS, WHERE ENDWALLS ARE 1'OR LESS BELOW SHOULDER LINE, THE TOP OF THE ENDWALL SHALL BE CONSTRUCTED PARALLEL TO THE GRADE OF THE ROAD.
- 9.  $\frac{3}{4}$ " CHAMFER MAY BE PROVIDED ON ALL EDGES AT MANUFACTURER'S OPTION.

						EW-1										E۷	W-1A	
ENDWALL FOR CIRCULAR PIPE								ENDWALL FOR ELLIPTICAL PIPE										
DIAMETER OF PIPE CULVERT								SIZE OF ELLIPTICAL PIPE CULVERT (SPAN x RISE)										
	12''	15''	18''	21" OR 24"	'27'' OR 30'	"33" OR 36"			23''×14''	30''×19''	34''×22''	38''x24''	42''x27'	' 45''x29''	49''x3	2''	53''x34''	
А	0'-6''	0'-8''	0'-9''	0'-11''	1'-0''	1'-0''		A	0'-8''	0'-9''	0'-10''	0'-11''	0'-11''	1'-0''	1'-0'	·	1'-0''	
В	0'-11''	1' - 1''	1'-3''	1'-6''	1'-9''	2'-0''		В	1'-2''	1'-5''	1'-6''	1'-8''	1'-9''	1'-10''	1' - 11'		1' - 11''	
С	1'-4''	1'-7''	1'-9''	2'-2''	2'-6''	2'-9''		С	1'-8''	1'-11''	2'-1''	2'-4''	2'-5''	2'-7''	2'-8		2'-9''	
D	1'-0''	1'-3''	1'-6''	2'-0''	2'-6''	3'-0''		D	1'-2''	1'-7''	1' - 10''	2'-0''	2'-3''	2'-5''	2'-8		2'-10''	
F	0'-6''	0'-8''	0'-8''	0'-9''	0'-9''	0'-9''		F	0'-8''	0'-8''	0'-9''	0'-9''	0'-9''	0'-9''	0'-9		0'-9''	
н	2'-3''	2'-11''	3'-2''	3'-9''	4'-3''	4'-9''		н	2'-10''	3'-3''	3'-7''	3'-9''	4'-0''	4'-2''	4'-5		4'-7''	
L	4'-0''	5'-0''	6'-0''	8'-0''	10'-0''	12'-0''		L	5'-5''	7'-2''	8'-6''	9'-2''	10'-2''	10'-11''	12'-1	"	12'-11''	
a	0'-1 <sup> </sup> /4''	0'-1¾''	0'-2''	0'-2 <sup> </sup> /2''	0'-3 <sup> </sup> /4''	0'-3¾''		S	1'-11''	2'-6''	2'-10''	3'-2''	3'-6''	3'-9''	4'-1'		4'-5''	
b	0'-1''	0'-1 <sup> </sup> /4''	0'-11/2''	0'-2''	0'-2 <sup> </sup> /2''	0'-3''		a	0'-2 <sup> </sup> /2''	0'-3 <sup>1</sup> /4''	0'-31/2''	0'-4''	0'-4 <sup>1</sup> /2''	0'-4¾''	0'-5		0'-51/2"	
CUBIC YARDS OF CONCRETE							b	0'-2''	0'-2 <sup> </sup> /2''	0'-2¾''	0'-3''	0'-3 <sup>l</sup> /2''	0'-3¾''	0'-4		0'-4 <sup> </sup> /2''		
CONC. PIPE	0.241	241 0.492 0.697 1.319 2.067 2.947 CUBIC YARDS OF CONCRE																
C.M. PIPE	0.257	0.521	0.739	1.398	2.198	3.145		CONC.PIPE	0.502	0.855	1.236	1.500	1.811	2.101	2.512	2	2.801	
SPECIFICATION REFERENCE		a copy of the original sealed and signed drawing is on file in the central office.												VDOT ND BRIDGE STANDARDS				
105														REVISION DA	TE S	SHEET 1 OF 1		
302					VI	RGINIA DEPART	ΓME	NENT OF TRANSPORTATION								101.01		
					2016	ROAD & B	RII	DGE STAN	DARDS						•			