

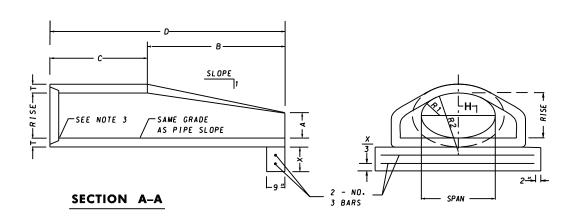
NOTES:

1. END SECTIONS SHALL BE REINFORCED TO CONFORM TO ASTM - CLASS IV REINFORCED CONCRETE PIPE.

2. CONCRETE FOOTER SHALL BE USED WHEN SPECIFIED ON THE PLANS. COST OF THE FOOTER TO BE INCLUDED IN PRICE OF THE END SECTION. THE CONCRETE SHALL BE MIX #2 AND THE REINFORCEMENT IS TO BE #3 BARS.

3. INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON THE CONSTRUCTION PLANS.

PLANS



END VIEW

QUANTITIES FOR ESTIMATING PURPOSES ONLY

HERCP			CONCRETE END SECTION											CONCRETE FOOTER			
RISE	SPAN	EQUIV. DIA.	APPR. SLOPE	WALL T	A	В	С	D	Ε	н	R	R1	R2	W	х	CONC.	REINF.
14"	23"	18"	3.1:1	2 3/4"	8 "	2'-3"	3'-9"	6'-0"	3′-5″	5 3/8"	6 "	6 "	1′-8″	4'-5"	12"	0.12	3.07
19"	30"	24"	2.8:1	3 1/4"	8 1/2"	3'-3"	2'-9"	6'-0"	4'-6"	6 7/8"	7 "	8 1/4"	2'-2 1/4"	5′-6″	15"	0.19	3.86
22"	34"	27"	2.9:1	3 1/2"	9 "	4'-0"	2'-0"	6'-0"	5′-1″	7 3/4"	8 "	9 1/4"	2'-5 1/4"	6'-1"	15"	0.21	4.32
24"	38"	30"	2.9:1	3 3/4"	9 1/2"	4'-6"	1'-6"	6'-0"	5′-8″	8 5/8"	9 "	10 1/4"	2'-8 3/4"	6'-8"	15"	0.23	4.76
29"	45 "	36"	2.7:1	4 1/2"	11 1/4"	5′-0″	3′-0″	8'-0"	6′-9″	10 1/2"	12"	12 1/4"	3'-3 1/4"	8'-0"	15"	0.28	5.76

SPECIFICATION CATEGORY CODE ITEMS

APPROVED

Kill G. MECALL

DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT

APPROVAL • SHA
REVISIONS HIGHWAY ADMINISTRATION
APPROVAL 7-14-08 APPROVAL 01-09-08
REVISED 7-10-09 REVISED 7-27-09
REVISED REVISED REVISED
REVISED REVISED

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD CONCRETE END SECTION HORIZONTAL ELLIPTICAL PIPE

STANDARD NO.

MD 369.00