

					STATE	PROJECT		SHEET NUMBER				
NOTE:												
2		. Use end sections on 1V:4H to 1V:6H slopes only. Use toe plate extension where shown on the plans.										
		Fabricate safety and longitudinal bars from steel pipe conforming to ASTM A53 schedule 40 specifications. Galvanize bars hot dipped after fabrication.										
		A longitudinal bar is required for cross drainage end sections when the span is greater than 750 mm. Use additional longitudinal bars if spacing exceeds 750 mm on larger end sections.										
	4. Safety and longitudinal bars are not required on 750 mm and smaller cross drainage end sections.											
	5. Safety bars are not required on 450 mm and smaller parallel drainage end sections.											
	6. 450 mm diameter sleeves have a thickness of 2.01 mm, all others are 2.77 mm.											
	7. Dimensions without units are millimeters.											
END SECTIONS FOR ROUND PIPE CULVERT												
FT	AL			D	IMENSION	IS						
	ICK OVERALL			L								
MIN.)		A	H	W	WIDTH	Slope=4	Slope=	=6				
1.6	53	200	150	600	1000	800	1200	7				
1.63		200	150	750	1150	1400	2100	7				
2.7	77	300	225	900	1500	2000	3000	7				
2.7	77	300	225	1050	1650	2600	3900	,				
2.7	77	400	300	1200	2000	3200	4800	ן רי				

SECTIONS FOR PIPE ARCH CULVERT										
METAL	DIMENSIONS									
THICK	A	Н	W	OVERALL WIDTH	L					
(MIN.)					Slope=4	Slope=6				
1.63	200	150	675	1075	500	750				
1.63	200	150	850	1250	1000	1500				
2.77	300	225	1025	1625	1400	2100				
2.77	300	225	1200	1800	1900	2850				
2.77	400	300	1375	2175	2300	3450				
2.77	400	300	1575	2375	2800	4200				
2.77	400	300	1750	2550	3300	4950				
2.77	400	300	1925	2725	3700	5550				
2.77	400	300	2225	3025	4700	7050				

U.S. DEPARTMENT OF TRANSPORTATION								
FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY								
							METRIC STANDARD	
METAL END SECTIONS								
METAL END SECTIONS WITH SAFETY BARS								
STANDARD APPROVED FOR USE 3/1996	STANDARD							
REVISED: 5/1997 6/2005	M602-9							

NO SCALE

400 300 1650