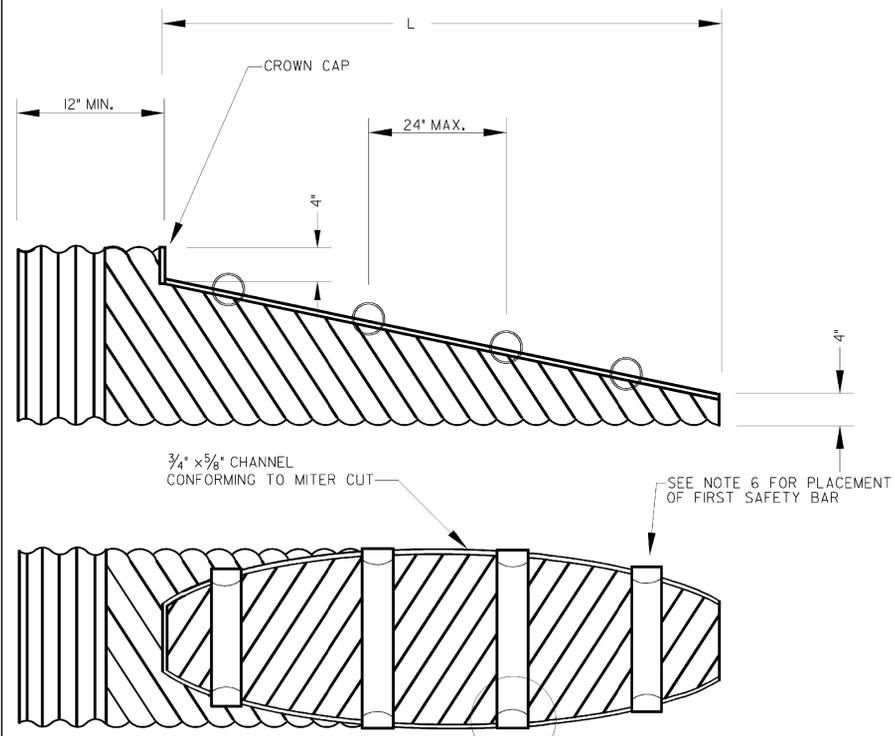


ALTERNATE 2



END TREATMENT DIMENSIONS FOR ARCHED METAL PIPE				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
17"x13"	16	.064"	1'-8"	2'-6"
21"x15"	16	.064"	2'-4"	3'-6"
24"x18"	16	.064"	3'-4"	5'-0"
28"x20"	16	.064"	4'-0"	6'-0"
35"x24"	14	.079"	5'-4"	8'-0"
42"x29"	14	.079"	7'-0"	10'-6"
49"x33"	14	.079"	8'-4"	12'-6"
57"x38"	12	.109"	10'-0"	15'-0"
64"x43"	12	.109"	11'-8"	17'-6"
71"x47"	10	.138"	13'-0"	19'-6"

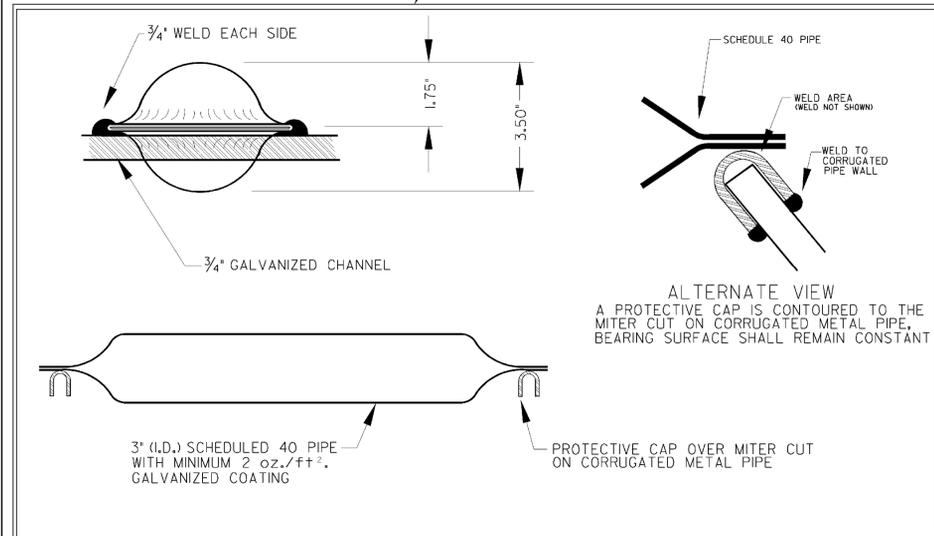
END TREATMENT DIMENSIONS FOR CIRCULAR METAL AND CIRCULAR CONCRETE PIPES				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
15"	16	.064"	2'-4"	3'-6"
18"	16	.064"	3'-4"	5'-0"
21"	16	.064"	4'-4"	6'-6"
24"	16	.064"	5'-4"	8'-0"
30"	16	.064"	7'-4"	11'-0"
36"	16	.064"	9'-4"	14'-0"
42"	14	.079"	11'-4"	17'-0"
48"	14	.079"	13'-4"	20'-0"
54"	14	.079"	15'-4"	23'-0"
60"	12	.109"	17'-4"	26'-0"

* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

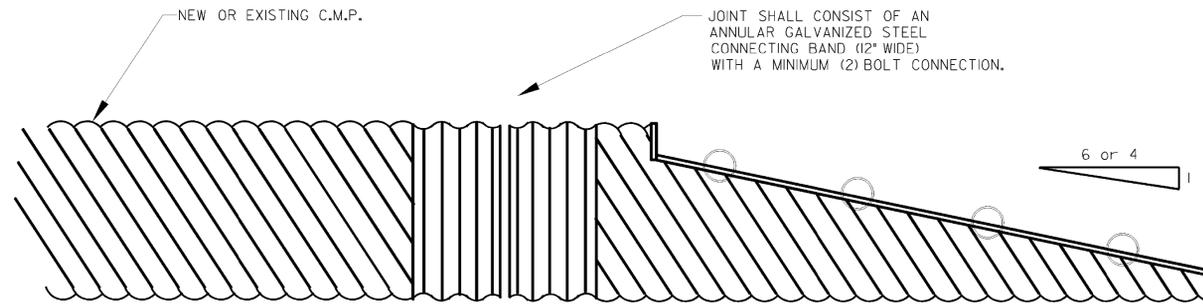
GENERAL NOTE ALTERNATE 2:

- THE MATERIAL USED IN FABRICATION OF SLOPED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 218 (GALVANIZED STEEL)
- SLOPED END SECTIONS SHALL BE FORMED FROM FULL CIRCLE PIPE, MAY BE FORMED INTO PIPE ARCHES, WHERE SPECIFIED, AND SHALL MEET ALL REQUIREMENTS FOR CORRUGATION, GAGE, AND OTHER FABRICATION REQUIREMENTS.
- THE EXPOSED EDGE CUT ON THE TOP SHALL BE COVERED WITH A PROTECTIVE CAP OVERLAPPING THE TOP OF THE ARCH BY NOT LESS THAN 3/8 INCH. THE 4 TO 1 OR 6 TO 1 BEVEL SHALL BE ENCASED WITH A PROTECTIVE CAP OVERLAPPING EACH SIDE OF THE CUT BY NOT LESS THAN 3/8 INCH. THE PROTECTIVE CAP IS TO BE THE SAME MATERIAL AS THE PIPE AND MINIMUM 14 GAGE (.079"), PROTECTIVE CAPS SHALL BE WELDED WITH 1/2 INCH WELDS ALTERNATING FROM SIDE TO SIDE OF THE CAP AT 12 INCH INTERVALS. WELDS SHALL BE AT THE ENDS OF ALL CAPS, REGARDLESS OF SPACING. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS SECTION 645.
- CONNECTIONS OF GALVANIZED STEEL END TREATMENTS TO CORRUGATED ALUMINUM OR ALUMINIZED STEEL PIPE MUST UTILIZED A POLYMER COATED GALVANIZED STEEL BAND MEETING THE REQUIREMENTS OF AASHTO M 256 84.
- ADAPTER SLEEVE IS TO BE CONSTRUCTED OF GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M 218, MINIMUM 12 GAGE (.109") MATERIAL.
- BOTTOM SAFETY BAR SHALL HAVE A MAXIMUM CLEARANCE OF 5" WHEN MEASURED FROM THE BOTTOM OF THE INSTALLED BAR TO INSIDE CREST OF PIPE CORRUGATION.



ALTERNATE VIEW
A PROTECTIVE CAP IS CONTOURED TO THE MITER CUT ON CORRUGATED METAL PIPE, BEARING SURFACE SHALL REMAIN CONSTANT

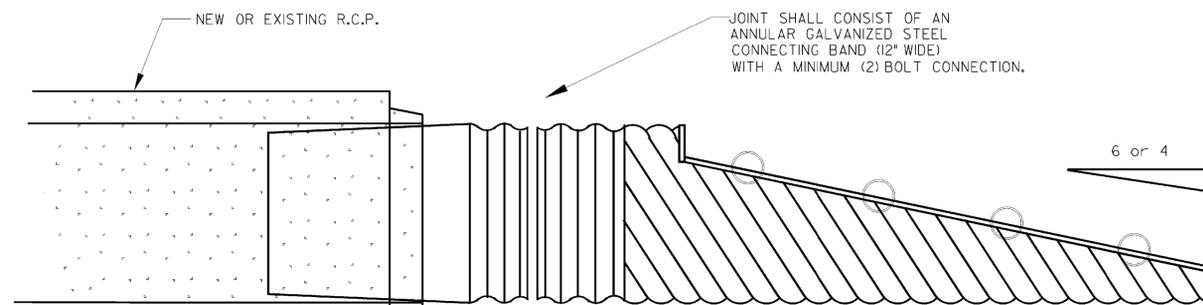
NOTE: ENDS OF BARS SHALL BE WELDED SOLID TO PREVENT SOIL AND WATER INFILTRATION



JOINT SHALL CONSIST OF AN ANNULAR GALVANIZED STEEL CONNECTING BAND (12" WIDE) WITH A MINIMUM (2) BOLT CONNECTION.

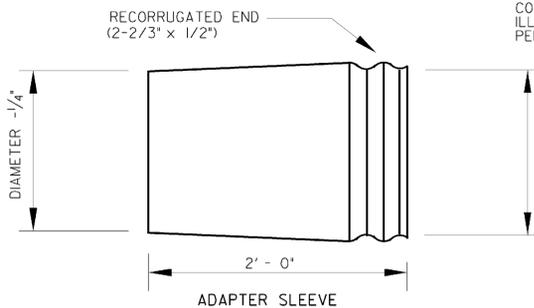
SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN JOE POINTS OF THE END SECTION ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.



JOINT SHALL CONSIST OF AN ANNULAR GALVANIZED STEEL CONNECTING BAND (12" WIDE) WITH A MINIMUM (2) BOLT CONNECTION.

NOTE: CONNECTION TO OUTLET END OF CONCRETE PIPE IS ILLUSTRATED. CONNECTION TO INLET END WILL BE PERFORMED IN THE SAME MANNER.



RECORRUGATED END (2-2/3" x 1/2")

ADAPTER SLEEVE

DATE		DEPARTMENT OF TRANSPORTATION	
REVISION		STATE OF GEORGIA	
		STANDARD SAFETY END SECTION (METAL)	
		(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)	
		ALTERNATE 2	
NO SCALE		JAN. 2005	
DESIGNED	BY	(SUBMITTED) <i>B. J. Smith</i>	NUMBER
DRAWN	BY	(STATE ROAD & AIRPORT DESIGN ENGINEER)	1122
TRACED	BY	(APPROVED) <i>O. J. Smith</i>	SHEET 2 OF 3
CHECKED	BY	(CHIEF ENGINEER)	

DRAWING No. 41-0011