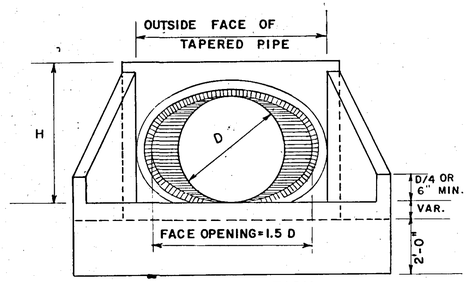
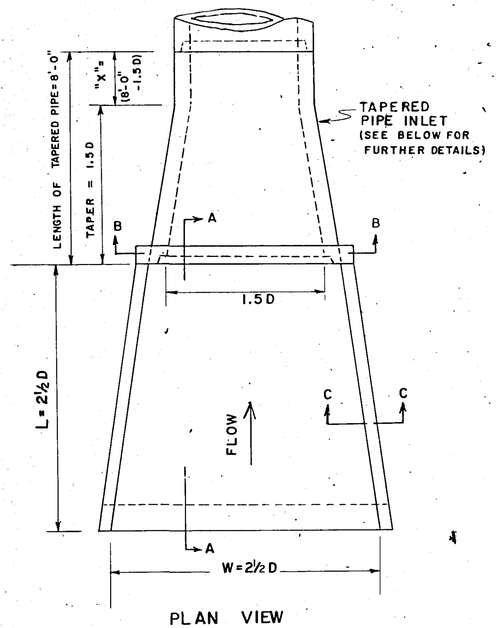
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	TSAP 193(9)	53	135

INLET HEADWALL WITH TAPERED PIPE

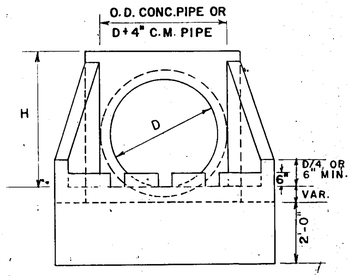


FRONT ELEVATION

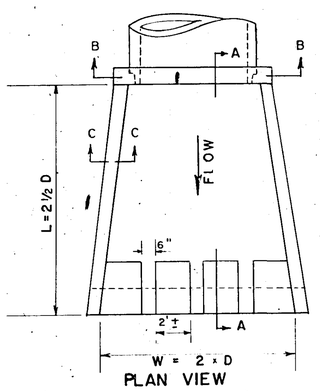


PLAN VIEW

OUTLET HEADWALL

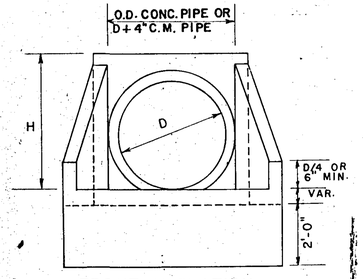


FRONT ELEVATION

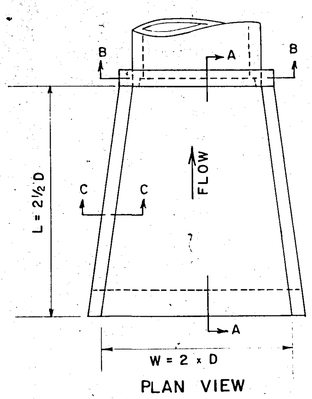


PLAN VIEW

INLET HEADWALL

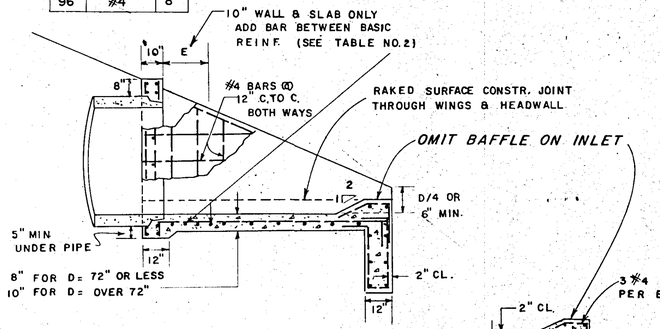


FRONT ELEVATION

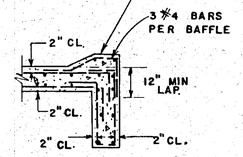


PLAN VIEW

TABLE NO. 2		
D	ADD'L. BAR	E
84"	#4	5'
96"	#4	8'

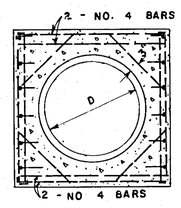


SECTION A-A

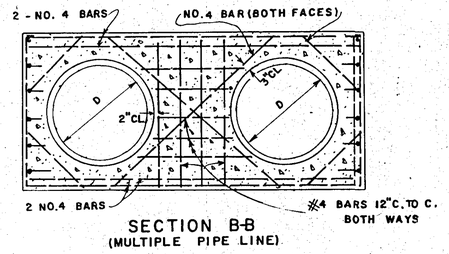


10" SLAB

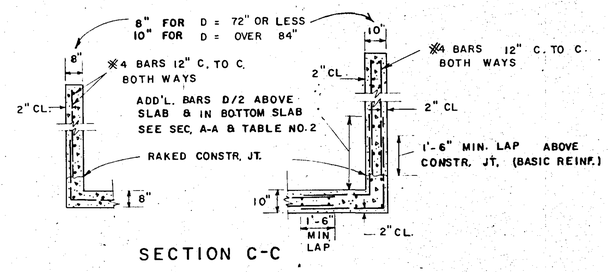
D = INSIDE DIAMETER OF PIPE



SECTION B-B (SINGLE PIPE LINE)



SECTION B-B (MULTIPLE PIPE LINE)



SECTION C-C

TABLE NO. 1 - QUANTITIES FOR HEADWALLS												
D	CU. YDS. CONCRETE (PAY QUANTITIES) *						LBS. STEEL (GIVEN FOR INFORMATION ONLY)					
	FOR SINGLE LINE			ADD FOR EACH ADD'L LINE			FOR SINGLE LINE			ADD FOR EACH ADD'L LINE		
	INLET	OUTLET	INLET HDWL. W/TAP. PIPE	INLET	OUTLET	INLET HDWL. W/TAP. PIPE	INLET	OUTLET	INLET HDWL. W/TAP. PIPE	INLET	OUTLET	INLET HDWL. W/TAP. PIPE
15"	0.87	0.93	—	0.60	0.66	—	102	113	—	73	83	—
18"	1.10	1.16	—	0.85	0.93	—	106	117	—	93	104	—
24"	1.61	1.69	1.78	1.29	1.37	1.24	127	138	136	124	134	122
30"	2.21	2.32	2.45	1.83	1.96	1.76	170	180	183	154	164	151
36"	2.92	3.05	3.29	2.49	2.63	2.38	238	254	253	196	212	191
42"	3.73	3.87	4.39	3.00	3.17	2.85	290	306	306	231	247	225
48"	4.62	4.80	5.11	3.58	3.74	3.39	335	351	361	265	281	257
54"	5.63	5.83	6.21	4.17	4.38	3.93	407	428	435	319	340	309
60"	6.72	6.95	7.42	4.82	5.01	4.52	456	477	499	360	391	347
72"	9.22	9.48	—	6.24	6.46	—	623	649	—	475	494	—
78"	14.84	15.19	—	9.05	9.29	—	1517	1549	—	1017	1044	—
96"	18.88	19.27	—	11.13	11.41	—	2118	2150	—	1323	1350	—

* NOTE:
QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

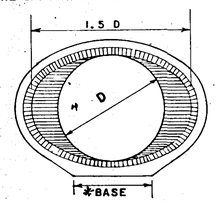
D = INSIDE DIAMETER OF PIPE CULVERT

H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE

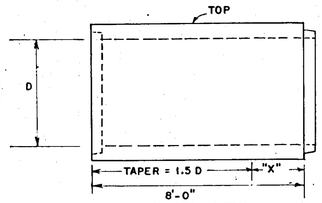
H = D + 10" MIN. FOR C.M. PIPE

TAPERED PIPE INLET

CONCRETE TAPERED PIPE: STRUCTURAL REQUIREMENTS WILL BE ACCORDING TO ASTM. C507- FOR CLASS HE-I HORIZONTAL ELLIPTICAL PIPE. CORRUGATED METAL: MATERIAL REQUIREMENTS TO MEET SEC. 844 (STEEL PIPE) OR SEC. 840 (ALUMINUM PIPE). C.M. PIPE WILL CONFORM TO THE SAME INTERNAL LINES AND DIMENSIONS SHOWN. DETAILS ARE SHOWN FOR CONCRETE.



END VIEW



SIDE VIEW

*BASE = 1/2 FACE (OPTIONAL)

TABLE NO. 3 - TAPERED PIPE DIMENSIONS					
			MIN. THICKNESS (INS.)		
			COR. STEEL		COR. ALUM
D	1.5D	"X"	①	②	
24"	3.00	5.00	.064	—	.060
30"	3.75	4.25	.064	.064	.075
36"	4.50	3.50	.109	.064	.135
42"	5.25	2.75	.109	.064	.135
48"	6.00	2.00	.138	.064	.164
54"	6.75	1.25	.168	.064	—
60"	7.50	0.50	—	.079	—

① DENOTES 2 2/3" x 1/2" CORRUGATION

② DENOTES 3" x 1" — OR 125mm x 25mm CORRUGATION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

INLET HEADWALL — OUTLET HEADWALL
INLET HEADWALL WITH TAPERED PIPE

NO SCALE — NOVEMBER, 1980

DES. 3-70
DRW. J.M.W.
TRA. G.M.E.
CHK. R.M.J.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENG.
(APPROVED) Thomas D. Moreland
STATE HIGHWAY ENGINEER

NUMBER 1125

FORM EF3

PERIMETER REPRODUCTIONS