

**9" x 2½" STRUCTURAL PLATE ALUMINUM ALLOY PIPE (STEEL BOLTED)
HEIGHT OF COVER LIMITS (ft.)**

	AREA (sft.)	DIAMETER (in.)	THICKNESS (in.)																			
			0.225		0.250																	
			MIN.	MAX.	MIN.	MAX.																
	19.6	60	1.0	92.4	1.0	100.0																
	23.8	66	1.0	84.0	1.0	94.0																
	28.3	72	1.0	77.0	1.0	86.2																
	33.2	78	1.0	71.1	1.0	79.5																
	38.5	84	1.0	66.0	1.0	73.8																
	44.2	90	1.0	61.6	1.0	68.9																
	50.3	96	1.0	57.7	1.0	64.6																
	56.7	102	1.1	54.3	1.1	60.8																
	63.6	108	1.1	51.3	1.1	57.4																
	70.9	114	1.2	48.6	1.2	54.4																
	78.5	120	1.3	46.2	1.3	51.7																
	86.6	126	1.3	44.0	1.3	49.2																
	95.0	132	1.4	42.0	1.4	47.0																
	103.9	138	1.4	40.1	1.4	44.9																
	113.1	144	1.5	38.5	1.5	43.1																
	122.7	150	1.6	36.9	1.6	41.3																
	132.7	156	1.6	35.5	1.6	39.7																
	143.1	162	1.7	34.2	1.7	38.3																
	153.9	168	1.8	33.0	1.8	36.9																
	165.1	174	1.8	31.8	1.8	35.6																
	176.7	180	1.9	30.8	1.9	34.4																
	188.7	186	1.9	29.8	1.9	33.3																
	201.1	192	2.0	28.8	2.0	32.3																
	213.8	198	2.1	28.0	2.1	31.3																
	227.0	204	2.1	27.1	2.1	30.4																
	240.5	210	2.2	26.4	2.2	29.5																
	254.5	216	2.3	25.6	2.3	28.7																
	268.8	222			2.3	27.9																
	283.5	228			2.4	27.2																

NOTE:

1. The tabulated cover depths shall be measured from the bottom of the asphalt or concrete pavement to the top of the pipe.

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
JANUARY 1998
STANDARD DRAWING NO. **E 717-PHCL-02**

	DETAILS PLACED IN THIS FORMAT	11-15-99
	/s/ Anthony L. Uremovich	11-15-99
	DESIGN STANDARDS ENGINEER	DATE
/s/ Firooz Zandi	11-15-99	
DESIGN STANDARDS ENGINEER	CHIEF HIGHWAY ENGINEER	DATE
ORIGINALLY APPROVED		1-02-98