

DESIGN FACTORS FOR A DESIGN SPEED OF 35 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY-35		WIDTH-18 FT			WIDTH-20 FT			WIDTH-22 FT			WIDTH-24 FT			WIDTH-48 FT			WIDTH-72 FT		
		IGRDS EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)																	
		1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			2 @ 12'			3 @ 12'		
RADIUS (FT)	E(%)	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w
20000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
15000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
10000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
7000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
5000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
4000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
3000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
2500	2.5	28	120	2.9	101	120	0.0	101	120	0.0	101	120	0.0	101	120	0.0	101	120	0.0
2250	2.8	27	120	3.0	29	120	2.0	90	120	0.0	90	120	0.0	90	120	0.0	90	120	0.0
2000	3.0	27	120	3.1	29	120	2.0	84	120	0.0	84	120	0.0	84	120	0.0	84	120	0.0
1750	3.4	27	120	3.2	29	120	2.2	75	120	0.0	75	120	0.0	75	120	0.0	87	140	0.0
1500	3.8	27	120	3.3	29	120	2.3	67	120	0.0	67	120	0.0	67	120	0.0	89	160	0.0
1300	4.3	27	120	3.4	29	120	2.4	59	120	0.0	59	120	0.0	69	140	0.0	88	180	0.0
1150	4.7	27	120	3.5	28	120	2.5	54	120	0.0	54	120	0.0	63	140	0.0	81	180	0.0
1000	5.2	27	120	3.6	28	120	2.6	49	120	0.0	49	120	0.0	65	160	0.0	81	200	0.0
900	5.5	27	120	3.8	28	120	2.8	46	120	0.0	46	120	0.0	62	160	0.0	84	220	0.0
800	5.9	26	120	3.9	28	120	2.9	43	120	0.0	43	120	0.0	65	180	0.0	61	240	2.7
750	6.1	26	120	4.0	28	120	3.0	29	120	2.0	42	120	0.0	51	200	2.0	66	260	3.0
700	6.4	26	120	4.1	28	120	3.1	34	140	2.0	46	140	0.0	51	200	2.2	66	260	3.3
650	6.6	26	120	4.2	32	140	3.2	34	140	2.2	45	140	0.0	50	200	2.4	70	280	3.6
600	6.9	30	140	4.3	32	140	3.3	34	140	2.3	43	140	0.0	55	220	2.6	70	280	3.9
550	7.1	30	140	4.4	32	140	3.4	34	140	2.4	42	140	0.0	55	220	2.8	75	300	4.2
500	7.4	30	140	4.6	32	140	3.6	38	160	2.6	46	160	0.0	60	240	3.2	79	320	4.8
475	7.6	30	140	4.7	36	160	3.7	38	160	2.7	45	160	0.0	59	240	3.4	79	320	5.1
450	7.7	30	140	4.8	36	160	3.8	38	160	2.8	44	160	0.0	59	240	3.6	79	320	5.4
425	7.8	34	160	4.9	36	160	3.9	38	160	2.9	44	160	0.0	64	260	3.8	83	340	5.7
400	7.9	33	160	5.0	35	160	4.0	37	160	3.0	44	180	2.0	63	260	4.0	83	340	6.0
375	8.0	33	160	5.2	35	160	4.2	37	160	3.2	44	180	2.2	63	260	4.4	82	340	6.6
350 ⊗	8.0	33	160	5.3	35	160	4.3	42	180	3.3	44	180	2.3	63	260	4.6	82	340	6.9

NOTE:

Lt, Lr, & w VALUES IN FEET.

FOR PAVEMENT WIDTHS  
GREATER THAN 72 FEET  
USE Lr VALUES DEVELOPED  
BY IGRDS.

⊗ MINIMUM ALLOWABLE RADIUS.