

**DESIGN FACTORS FOR A DESIGN SPEED OF 25 MPH (RURAL) USING E = 8% MAX.**

DESIGN VELOCITY +25	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMPS																				
	WIDTH- 18 FT				WIDTH-20 FT				WIDTH-22 FT				WIDTH-24 FT				WIDTH-48 FT				WIDTH												
	1 e 9'				1 e 10'				1 e 11'				1 e 12'				2 e 12'				16 FT				18 FT								
	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	Rt	Lr	w	Lt	
2500	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1756	2.0	26	0.0	29	29	0.0	32	32	0.0	35	35	0.0	38	38	0.0	41	41	0.0	44	44	0.0	47	47	0.0	50	50	0.0	53	53	0.0	56	56	
1664	2.1	74	2.0	29	30	0.0	32	33	0.0	35	36	0.0	38	39	0.0	41	42	0.0	44	45	0.0	47	48	0.0	50	51	0.0	53	54	0.0	56	57	
1579	2.2	68	74	2.0	29	32	0.0	32	35	0.0	35	38	0.0	38	41	0.0	41	44	0.0	44	47	0.0	47	50	0.0	50	53	0.0	56	59	0.0	60	63
1502	2.3	65	74	2.0	29	33	0.0	33	37	0.0	35	40	0.0	38	43	0.0	41	46	0.0	44	49	0.0	47	52	0.0	50	55	0.0	58	63	0.0	66	71
1431	2.4	62	74	2.1	29	35	0.0	32	38	0.0	35	42	0.0	40	46	0.0	43	49	0.0	46	52	0.0	49	56	0.0	50	57	0.0	60	67	0.0	70	75
1366	2.5	60	74	2.1	29	36	0.0	32	40	0.0	35	43	0.0	41	48	0.0	44	51	0.0	47	54	0.0	50	57	0.0	50	58	0.0	60	68	0.0	72	78
1306	2.6	57	74	2.1	29	38	0.0	32	41	0.0	35	45	0.0	43	50	0.0	46	53	0.0	49	56	0.0	52	59	0.0	50	58	0.0	60	68	0.0	74	80
1250	2.7	55	74	2.1	29	39	0.0	32	43	0.0	35	47	0.0	45	52	0.0	48	55	0.0	51	58	0.0	54	61	0.0	50	58	0.0	60	68	0.0	74	80
1198	2.8	53	74	2.2	29	40	0.0	32	44	0.0	35	48	0.0	46	53	0.0	49	56	0.0	52	59	0.0	55	62	0.0	50	58	0.0	60	68	0.0	74	80
1149	2.9	52	74	2.2	29	42	0.0	32	46	0.0	35	50	0.0	48	55	0.0	51	58	0.0	54	61	0.0	56	63	0.0	50	58	0.0	60	68	0.0	74	80
1104	3.0	50	74	2.2	29	43	0.0	32	48	0.0	35	52	0.0	50	57	0.0	53	60	0.0	56	63	0.0	58	65	0.0	50	58	0.0	60	68	0.0	74	80
1061	3.1	48	74	2.3	29	45	0.0	32	49	0.0	35	54	0.0	52	59	0.0	55	62	0.0	58	65	0.0	60	67	0.0	50	58	0.0	60	68	0.0	74	80
1021	3.2	47	74	2.3	29	46	0.0	32	51	0.0	35	55	0.0	53	60	0.0	56	63	0.0	59	66	0.0	61	68	0.0	50	58	0.0	60	68	0.0	74	80
983	3.3	45	74	2.3	29	48	0.0	32	52	0.0	35	57	0.0	54	61	0.0	57	64	0.0	60	67	0.0	62	69	0.0	50	58	0.0	60	68	0.0	74	80
948	3.4	44	74	2.4	29	49	0.0	32	54	0.0	35	59	0.0	55	62	0.0	58	65	0.0	61	68	0.0	63	70	0.0	50	58	0.0	60	68	0.0	74	80
914	3.5	43	74	2.4	29	50	0.0	32	55	0.0	35	60	0.0	56	63	0.0	59	66	0.0	62	69	0.0	64	71	0.0	50	58	0.0	60	68	0.0	74	80
882	3.6	42	74	2.4	29	52	0.0	32	57	0.0	35	62	0.0	58	65	0.0	60	67	0.0	63	70	0.0	65	72	0.0	50	58	0.0	60	68	0.0	74	80
852	3.7	40	74	2.5	29	53	0.0	32	59	0.0	35	64	0.0	60	67	0.0	61	68	0.0	64	71	0.0	66	73	0.0	50	58	0.0	60	68	0.0	74	80
823	3.8	39	74	2.5	29	55	0.0	32	60	0.0	35	66	0.0	62	69	0.0	63	70	0.0	65	72	0.0	67	74	0.0	50	58	0.0	60	68	0.0	74	80
795	3.9	38	74	2.6	29	56	0.0	32	62	0.0	35	67	0.0	64	71	0.0	65	72	0.0	66	73	0.0	68	75	0.0	50	58	0.0	60	68	0.0	74	80
769	4.0	37	74	2.6	29	58	0.0	32	63	0.0	35	69	0.0	66	73	0.0	67	74	0.0	68	75	0.0	70	77	0.0	50	58	0.0	60	68	0.0	74	80
744	4.1	37	74	2.6	29	59	0.0	32	65	0.0	35	71	0.0	68	75	0.0	69	76	0.0	70	77	0.0	71	78	0.0	50	58	0.0	60	68	0.0	74	80
720	4.2	36	74	2.7	29	60	0.0	32	66	0.0	35	72	0.0	69	76	0.0	70	77	0.0	71	78	0.0	72	79	0.0	50	58	0.0	60	68	0.0	74	80
696	4.3	35	74	2.7	29	62	0.0	32	68	0.0	35	74	0.0	70	77	0.0	71	78	0.0	72	79	0.0	73	80	0.0	50	58	0.0	60	68	0.0	74	80
674	4.4	34	74	2.7	29	63	0.0	32	70	0.0	35	76	0.0	72	79	0.0	73	80	0.0	74	81	0.0	74	81	0.0	50	58	0.0	60	68	0.0	74	80
652	4.5	33	74	2.8	29	65	0.0	32	71	0.0	35	78	0.0	74	81	0.0	75	82	0.0	75	82	0.0	75	82	0.0	50	58	0.0	60	68	0.0	74	80
632	4.6	33	74	2.8	29	66	0.0	32	73	0.0	35	79	0.0	75	82	0.0	76	83	0.0	76	83	0.0	76	83	0.0	50	58	0.0	60	68	0.0	74	80
612	4.7	32	74	2.9	29	68	0.0	32	74	0.0	35	81	0.0	77	84	0.0	77	84	0.0	77	84	0.0	77	84	0.0	50	58	0.0	60	68	0.0	74	80
592	4.8	31	74	2.9	29	69	0.0	32	76	0.0	35	83	0.0	78	85	0.0	78	85	0.0	78	85	0.0	78	85	0.0	50	58	0.0	60	68	0.0	74	80
573	4.9	31	75	2.9	29	70	0.0	32	77	0.0	35	84	0.0	79	86	0.0	79	86	0.0	79	86	0.0	79	86	0.0	50	58	0.0	60	68	0.0	74	80
555	5.0	30	75	3.0	32	79	0.0	32	79	0.0	35	86	0.0	80	87	0.0	80	87	0.0	80	87	0.0	80	87	0.0	50	58	0.0	60	68	0.0	74	80
537	5.1	31	77	3.0	32	81	0.0	32	81	0.0	35	88	0.0	81	88	0.0	81	88	0.0	81	88	0.0	81	88	0.0	50	58	0.0	60	68	0.0	74	80
519	5.2	31	79	3.1	32	83	0.0	32	82	0.0	35	90	0.0	82	89	0.0	82	89	0.0	82	89	0.0	82	89	0.0	50	58	0.0	60	68	0.0	74	80
502	5.3	31	80	3.1	32	84	0.0	32	84	0.0	35	91	0.0	83	90	0.0	83	90	0.0	83	90	0.0	83	90	0.0	50	58	0.0	60	68	0.0	74	80
485	5.4	31	82	3.2	32	86	0.0	32	86	0.0	35	93	0.0	85	92	0.0	85	92	0.0	85	92	0.0	85	92	0.0	50	58	0.0	60	68	0.0	74	80
468	5.5	31	84	3.2	32	88	0.0	32	88	0.0	35	95	0.0	87	94	0.0	87	94	0.0	87	94	0.0	87	94	0.0	50	58	0.0	60	68	0.0	74	80
452	5.6	31	86	3.3	33	90	0.0	32	88	0.0	35	96	0.0	88	95	0.0	88	95	0.0	88	95	0.0	88	95	0.0	50	58	0.0	60	68	0.0	74	80
437	5.7	31	88	3.4	33	92	0.0	32	90	0.0	35	98	0.0	90	97	0.0	90	97	0.0	90	97	0.0	90	97	0.0	50	58	0.0	60	68	0.0	74	80
423	5.8	31	89	3.4	33	93	0.0	32	93	0.0	35	100	0.0	92	99	0.0	92	99	0.0	92	99	0.0	92	99	0.0	50	58	0.0	60	68	0.0	74	80
409	5.9	31	91	3.5	33	95	0.0	32	95	0.0	35	102	0.0	93	100	0.0	93	100	0.0	93	100	0.0	93	100	0.0	50	58	0.0	60	68	0.0	74	80
396	6.0	31	93	3.5	33	97	0.0	32	95	0.0	35	103	0.0	94	101	0.0	94	101	0.0	94	101	0.0	94	101	0.0	50	58	0.0	60	68	0.0	74	80
383	6.1	32	95	3.6	33	99	0.0	32	96	0.0	35	105	0.0	96	103	0.0	96	103	0.0	96	103	0.0	96	103	0.0	50	58	0.0	60	68	0.0	74	80
371	6.2	32	97	3.7	33	101	0.0	32	98	0.0	35	107	0.0	98	105	0.0	98	105	0.0	98	105	0.0	98	105	0.0	50	58	0.0	60	68	0.0	74	80
359	6.3	32	98	3.7	33	103	0.0	32	99	0.0	35	109	0.0	99	106	0.0	99	106	0.0	99	106	0.0	99	106	0.0	50	58	0.0	60	68	0.0	74	80
347	6.4	32	100	3.8	33	105	0.0	32	101	0.0	35	110	0.0	100	107	0.0	100	107	0.0	100	107	0.0	100	107	0.0	50	58	0.0	60	68	0.0	74	80
336	6.5	32	102	3.9	33	103	0.0</																										