

ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

TH 61 & Willow Lake Blvd
 Ref Pt: 144+00.140
 data by: Alliant Inc
 TURN MOVEMENT COUNT

File Name : 510_TH 61 and Willow Lake Boulevard
 Site Code : 1735957
 Start Date : 11/7/2019
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH 61 Southbound					Willow Lake Blvd Westbound					TH 61 Northbound					Willow Lake Blvd Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
06:00 AM	3	211	0	0	214	0	0	0	0	0	0	67	9	0	76	8	0	1	0	9	299
06:15 AM	2	302	0	0	304	0	0	0	0	0	0	98	15	0	113	6	0	0	0	6	423
06:30 AM	2	400	0	0	402	0	0	0	0	0	0	117	23	0	140	13	0	0	0	13	555
06:45 AM	7	413	0	0	420	0	0	0	0	0	0	117	35	0	152	6	0	0	0	6	578
Total	14	1326	0	0	1340	0	0	0	0	0	0	399	82	0	481	33	0	1	0	34	1855
07:00 AM	9	415	0	0	424	0	0	0	0	0	0	144	31	0	175	10	0	1	0	11	610
07:15 AM	8	433	0	0	441	0	0	0	0	0	0	154	25	0	179	12	0	0	0	12	632
07:30 AM	4	493	0	0	497	0	0	0	0	0	0	142	27	0	169	6	0	2	0	8	674
07:45 AM	16	388	0	0	404	0	0	0	0	0	0	175	45	0	220	18	0	5	0	23	647
Total	37	1729	0	0	1766	0	0	0	0	0	0	615	128	0	743	46	0	8	0	54	2563
08:00 AM	6	378	0	0	384	0	0	0	0	0	0	148	33	0	181	18	0	1	0	19	584
08:15 AM	6	292	0	0	298	0	0	0	0	0	0	140	37	0	177	13	0	1	0	14	489
08:30 AM	4	285	0	0	289	0	0	0	0	0	0	126	27	0	153	14	0	3	0	17	459
08:45 AM	3	267	0	0	270	0	0	0	0	0	0	191	41	0	232	8	0	4	0	12	514
Total	19	1222	0	0	1241	0	0	0	0	0	0	605	138	0	743	53	0	9	0	62	2046
09:00 AM	4	286	0	0	290	0	0	0	0	0	0	153	20	0	173	11	0	0	0	11	474
09:15 AM	2	230	0	0	232	0	0	0	0	0	0	143	36	0	179	12	0	3	0	15	426
*** BREAK ***																					
Total	6	516	0	0	522	0	0	0	0	0	0	296	56	0	352	23	0	3	0	26	900
*** BREAK ***																					
10:30 AM	3	205	2	0	210	0	0	0	0	0	0	177	29	0	206	21	0	6	0	27	443
10:45 AM	5	229	0	0	234	0	0	0	0	0	0	212	33	0	245	21	0	4	0	25	504
Total	8	434	2	0	444	0	0	0	0	0	0	389	62	0	451	42	0	10	0	52	947
11:00 AM	2	235	0	0	237	0	0	0	0	0	0	204	22	0	226	27	0	4	0	31	494
11:15 AM	6	199	0	0	205	0	0	0	0	0	0	208	33	0	241	27	0	2	0	29	475
11:30 AM	3	217	0	0	220	0	0	0	0	0	0	240	33	0	273	31	0	9	0	40	533
11:45 AM	5	226	0	0	231	0	0	0	0	0	0	243	30	0	273	30	0	16	0	46	550
Total	16	877	0	0	893	0	0	0	0	0	0	895	118	0	1013	115	0	31	0	146	2052
12:00 PM	5	261	0	0	266	0	0	0	0	0	0	195	34	0	229	32	0	5	0	37	532
12:15 PM	10	271	0	0	281	0	0	0	0	0	0	212	47	0	259	20	0	11	0	31	571
12:30 PM	9	254	0	0	263	0	0	0	0	0	0	218	31	0	249	24	0	6	0	30	542
12:45 PM	14	249	0	0	263	0	0	0	0	0	0	246	46	0	292	27	0	5	0	32	587
Total	38	1035	0	0	1073	0	0	0	0	0	0	871	158	0	1029	103	0	27	0	130	2232
01:00 PM	6	248	1	0	255	0	0	0	0	0	0	224	35	0	259	22	0	5	0	27	541
01:15 PM	8	238	0	0	246	0	0	0	0	0	0	208	46	0	254	24	0	7	0	31	531
*** BREAK ***																					
Total	14	486	1	0	501	0	0	0	0	0	0	432	81	0	513	46	0	12	0	58	1072
*** BREAK ***																					
02:30 PM	4	285	0	0	289	0	0	0	0	0	0	325	30	0	355	23	0	8	0	31	675
02:45 PM	8	254	0	0	262	0	0	0	0	0	0	295	33	0	328	18	0	3	0	21	611
Total	12	539	0	0	551	0	0	0	0	0	0	620	63	0	683	41	0	11	0	52	1286
03:00 PM	4	257	0	0	261	0	0	0	0	0	0	316	24	0	340	42	0	7	0	49	650
03:15 PM	9	257	0	0	266	0	0	0	0	0	0	334	25	0	359	28	0	5	0	33	658
03:30 PM	4	279	0	0	283	0	0	0	0	0	0	362	37	0	399	40	0	11	0	51	733

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 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH 61 Southbound					Willow Lake Blvd Westbound					TH 61 Northbound					Willow Lake Blvd Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:45 PM	5	300	0	0	305	0	0	0	0	0	0	412	46	0	458	22	0	4	0	26	789
Total	22	1093	0	0	1115	0	0	0	0	0	0	1424	132	0	1556	132	0	27	0	159	2830
04:00 PM	8	270	0	0	278	0	0	0	0	0	0	374	29	0	403	42	0	6	0	48	729
04:15 PM	8	261	0	0	269	0	0	0	0	0	0	400	22	0	422	31	0	9	0	40	731
04:30 PM	3	315	0	0	318	0	0	0	0	0	0	394	27	0	421	67	0	9	0	76	815
04:45 PM	6	292	0	0	298	0	0	0	0	0	0	447	24	0	471	31	0	2	0	33	802
Total	25	1138	0	0	1163	0	0	0	0	0	0	1615	102	0	1717	171	0	26	0	197	3077
05:00 PM	1	262	0	0	263	0	0	0	0	0	0	437	31	0	468	50	0	12	0	62	793
05:15 PM	10	261	0	0	271	0	0	0	0	0	0	403	20	0	423	29	0	5	0	34	728
05:30 PM	1	269	0	0	270	0	0	0	0	0	0	387	12	0	399	18	0	6	0	24	693
05:45 PM	2	248	0	0	250	0	0	0	0	0	0	312	17	0	329	20	0	3	0	23	602
Total	14	1040	0	0	1054	0	0	0	0	0	0	1539	80	0	1619	117	0	26	0	143	2816
Grand Total	225	11435	3	0	11663	0	0	0	0	0	0	9700	1200	0	10900	922	0	191	0	1113	23676
Apprch %	1.9	98	0	0		0	0	0	0		0	89	11	0		82.8	0	17.2	0		
Total %	1	48.3	0	0	49.3	0	0	0	0	0	0	41	5.1	0	46	3.9	0	0.8	0	4.7	
Cars	217	11073	2	0	11292	0	0	0	0	0	0	9387	1161	0	10548	892	0	189	0	1081	22921
% Cars	96.4	96.8	66.7	0	96.8	0	0	0	0	0	0	96.8	96.8	0	96.8	96.7	0	99	0	97.1	96.8
Trucks	8	362	1	0	371	0	0	0	0	0	0	313	39	0	352	30	0	2	0	32	755
% Trucks	3.6	3.2	33.3	0	3.2	0	0	0	0	0	0	3.2	3.2	0	3.2	3.3	0	1	0	2.9	3.2

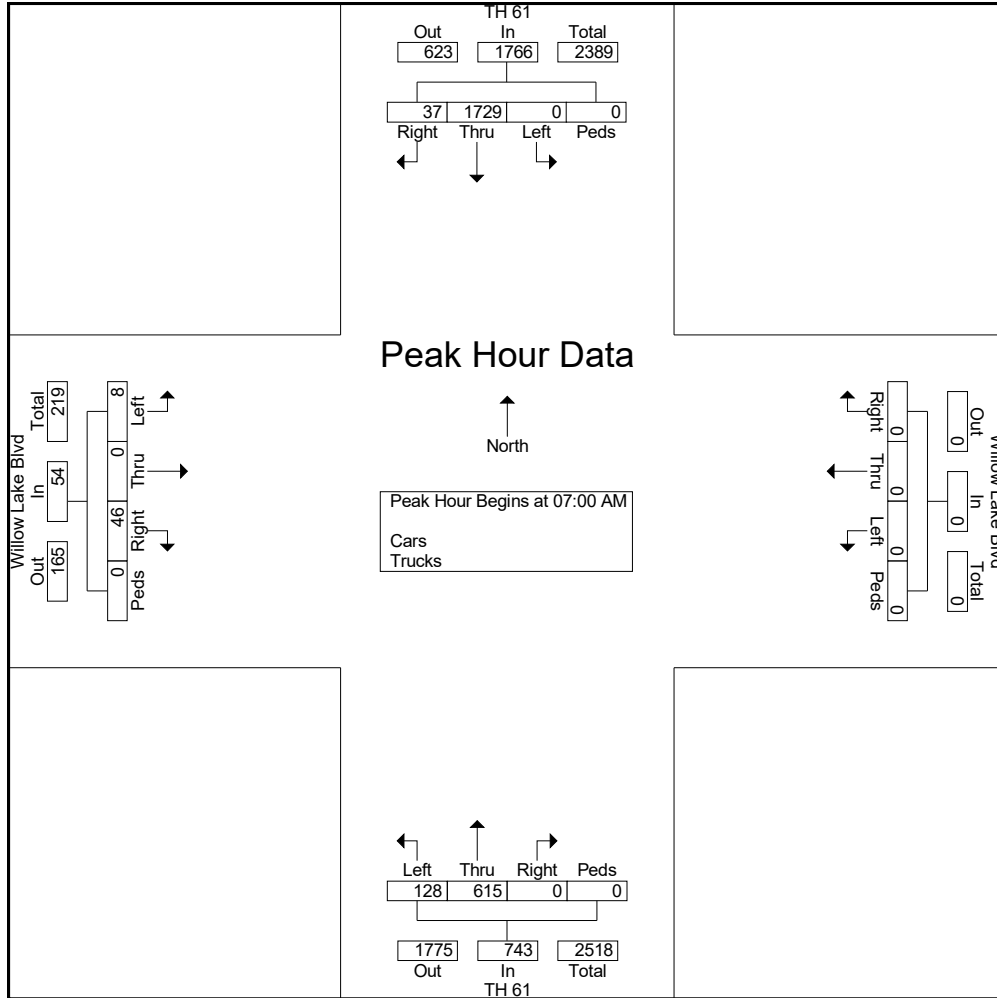
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	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	9	415	0	0	424	0	0	0	0	0	0	144	31	0	175	10	0	1	0	11	610
07:15 AM	8	433	0	0	441	0	0	0	0	0	0	154	25	0	179	12	0	0	0	12	632
07:30 AM	4	493	0	0	497	0	0	0	0	0	0	142	27	0	169	6	0	2	0	8	674
07:45 AM	16	388	0	0	404	0	0	0	0	0	0	175	45	0	220	18	0	5	0	23	647
Total Volume	37	1729	0	0	1766	0	0	0	0	0	0	615	128	0	743	46	0	8	0	54	2563
% App. Total	2.1	97.9	0	0		0	0	0	0		0	82.8	17.2	0		85.2	0	14.8	0		
PHF	.578	.877	.000	.000	.888	.000	.000	.000	.000	.000	.000	.879	.711	.000	.844	.639	.000	.400	.000	.587	.951



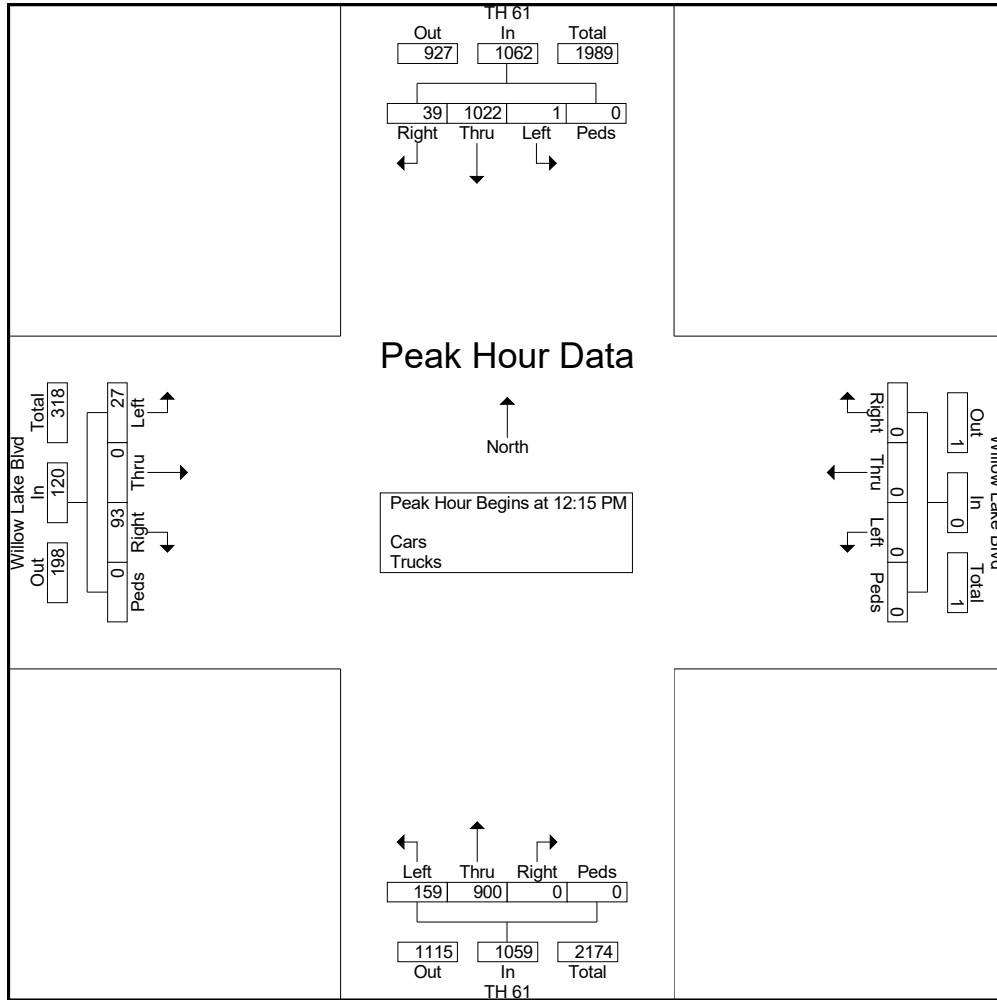
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Start Time	TH 61 Southbound					Willow Lake Blvd Westbound					TH 61 Northbound					Willow Lake Blvd Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:15 PM																					
12:15 PM	10	271	0	0	281	0	0	0	0	0	0	212	47	0	259	20	0	11	0	31	571
12:30 PM	9	254	0	0	263	0	0	0	0	0	0	218	31	0	249	24	0	6	0	30	542
12:45 PM	14	249	0	0	263	0	0	0	0	0	0	246	46	0	292	27	0	5	0	32	587
01:00 PM	6	248	1	0	255	0	0	0	0	0	0	224	35	0	259	22	0	5	0	27	541
Total Volume	39	1022	1	0	1062	0	0	0	0	0	0	900	159	0	1059	93	0	27	0	120	2241
% App. Total	3.7	96.2	0.1	0		0	0	0	0		0	85	15	0		77.5	0	22.5	0		
PHF	.696	.943	.250	.000	.945	.000	.000	.000	.000	.000	.000	.915	.846	.000	.907	.861	.000	.614	.000	.938	.954



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 Page No : 5

Start Time	TH 61 Southbound					Willow Lake Blvd Westbound					TH 61 Northbound					Willow Lake Blvd Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	8	261	0	0	269	0	0	0	0	0	0	400	22	0	422	31	0	9	0	40	731
04:30 PM	3	315	0	0	318	0	0	0	0	0	0	394	27	0	421	67	0	9	0	76	815
04:45 PM	6	292	0	0	298	0	0	0	0	0	0	447	24	0	471	31	0	2	0	33	802
05:00 PM	1	262	0	0	263	0	0	0	0	0	0	437	31	0	468	50	0	12	0	62	793
Total Volume	18	1130	0	0	1148	0	0	0	0	0	0	1678	104	0	1782	179	0	32	0	211	3141
% App. Total	1.6	98.4	0	0		0	0	0	0		0	94.2	5.8	0		84.8	0	15.2	0		
PHF	.563	.897	.000	.000	.903	.000	.000	.000	.000	.000	.000	.938	.839	.000	.946	.668	.000	.667	.000	.694	.963

