

# ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

TH 169 & TH 10/47 S Ramp File Name : 551\_TH 169 (Ferry Street) and TH 10-47 South Ramp (Maple Ln)  
 Ref Pt: 225+00.377 Site Code : 1735041  
 data by: Alliant Inc Start Date : 11/12/2019  
 TURN MOVEMENT COUNT Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH 169/Ferry St Southbound					Maple Ln Westbound					TH 169/Ferry St Northbound					TH 10 S Ramp 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	0	320	101	0	421	2	0	1	0	3	37	51	0	0	88	9	0	3	0	12	524
06:15 AM	0	335	98	0	433	0	0	1	0	1	48	67	0	0	115	11	0	7	0	18	567
06:30 AM	0	349	76	0	425	4	0	2	0	6	64	80	0	0	144	9	0	11	0	20	595
06:45 AM	0	353	89	0	442	2	0	1	0	3	80	95	0	0	175	3	0	14	0	17	637
<b>Total</b>	<b>0</b>	<b>1357</b>	<b>364</b>	<b>0</b>	<b>1721</b>	<b>8</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>13</b>	<b>229</b>	<b>293</b>	<b>0</b>	<b>0</b>	<b>522</b>	<b>32</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>67</b>	<b>2323</b>
07:00 AM	0	359	85	0	444	2	0	1	0	3	85	83	0	0	168	11	0	9	0	20	635
07:15 AM	0	360	99	0	459	1	0	1	0	2	77	110	0	0	187	6	0	8	0	14	662
07:30 AM	0	299	74	0	373	1	0	0	0	1	87	129	0	0	216	7	0	9	0	16	606
07:45 AM	0	312	78	0	390	2	0	0	0	2	76	130	0	0	206	29	1	20	0	50	648
<b>Total</b>	<b>0</b>	<b>1330</b>	<b>336</b>	<b>0</b>	<b>1666</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>325</b>	<b>452</b>	<b>0</b>	<b>0</b>	<b>777</b>	<b>53</b>	<b>1</b>	<b>46</b>	<b>0</b>	<b>100</b>	<b>2551</b>
08:00 AM	0	262	71	0	333	2	0	1	0	3	44	106	0	0	150	15	0	7	0	22	508
08:15 AM	0	286	74	0	360	1	0	0	0	1	61	102	0	0	163	8	1	7	0	16	540
08:30 AM	0	237	67	0	304	0	0	1	0	1	67	118	0	0	185	9	0	7	0	16	506
08:45 AM	0	222	64	0	286	1	0	1	0	2	76	82	0	0	158	8	2	11	0	21	467
<b>Total</b>	<b>0</b>	<b>1007</b>	<b>276</b>	<b>0</b>	<b>1283</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>248</b>	<b>408</b>	<b>0</b>	<b>0</b>	<b>656</b>	<b>40</b>	<b>3</b>	<b>32</b>	<b>0</b>	<b>75</b>	<b>2021</b>
09:00 AM	0	200	77	0	277	2	0	2	0	4	80	81	0	0	161	14	0	9	0	23	465
09:15 AM	0	212	77	0	289	1	0	0	0	1	74	93	0	0	167	14	0	7	0	21	478
*** BREAK ***																					
<b>Total</b>	<b>0</b>	<b>412</b>	<b>154</b>	<b>0</b>	<b>566</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>154</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>328</b>	<b>28</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>44</b>	<b>943</b>
*** BREAK ***																					
10:30 AM	0	165	68	0	233	1	0	0	0	1	72	92	0	0	164	9	0	7	0	16	414
10:45 AM	0	132	61	0	193	3	0	1	0	4	65	90	0	0	155	7	0	11	0	18	370
<b>Total</b>	<b>0</b>	<b>297</b>	<b>129</b>	<b>0</b>	<b>426</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>137</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>319</b>	<b>16</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>34</b>	<b>784</b>
11:00 AM	0	162	79	0	241	1	0	1	0	2	88	81	0	0	169	9	0	5	0	14	426
11:15 AM	0	149	45	0	194	1	0	0	0	1	86	102	0	0	188	9	0	6	0	15	398
11:30 AM	0	156	59	0	215	0	0	0	0	0	86	94	0	0	180	16	0	8	0	24	419
11:45 AM	0	132	71	0	203	0	0	0	0	0	86	114	0	0	200	15	0	10	0	25	428
<b>Total</b>	<b>0</b>	<b>599</b>	<b>254</b>	<b>0</b>	<b>853</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>346</b>	<b>391</b>	<b>0</b>	<b>0</b>	<b>737</b>	<b>49</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>78</b>	<b>1671</b>
12:00 PM	0	162	83	0	245	1	0	1	0	2	100	106	0	0	206	8	0	3	0	11	464
12:15 PM	0	148	53	0	201	0	0	0	0	0	83	103	0	0	186	18	1	6	0	25	412
12:30 PM	0	142	70	0	212	0	0	0	0	0	72	115	0	0	187	10	0	6	0	16	415
12:45 PM	0	159	68	0	227	0	0	1	0	1	75	111	0	0	186	5	3	11	0	19	433
<b>Total</b>	<b>0</b>	<b>611</b>	<b>274</b>	<b>0</b>	<b>885</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>330</b>	<b>435</b>	<b>0</b>	<b>0</b>	<b>765</b>	<b>41</b>	<b>4</b>	<b>26</b>	<b>0</b>	<b>71</b>	<b>1724</b>
01:00 PM	0	126	75	0	201	0	0	1	0	1	74	128	0	0	202	11	0	13	0	24	428
01:15 PM	0	158	53	0	211	0	0	0	0	0	90	120	0	0	210	10	0	8	0	18	439
*** BREAK ***																					
<b>Total</b>	<b>0</b>	<b>284</b>	<b>128</b>	<b>0</b>	<b>412</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>164</b>	<b>248</b>	<b>0</b>	<b>0</b>	<b>412</b>	<b>21</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>42</b>	<b>867</b>
*** BREAK ***																					
02:30 PM	0	146	65	0	211	3	0	0	0	3	123	174	0	0	297	11	0	10	0	21	532
02:45 PM	0	129	69	0	198	1	0	1	0	2	125	191	0	0	316	6	0	9	0	15	531
<b>Total</b>	<b>0</b>	<b>275</b>	<b>134</b>	<b>0</b>	<b>409</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>248</b>	<b>365</b>	<b>0</b>	<b>0</b>	<b>613</b>	<b>17</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>36</b>	<b>1063</b>
03:00 PM	0	175	71	0	246	1	0	0	0	1	111	190	0	0	301	12	0	11	0	23	571
03:15 PM	0	176	72	0	248	2	0	0	0	2	141	195	0	0	336	6	0	11	0	17	603
03:30 PM	0	222	81	0	303	1	0	1	0	2	118	205	0	0	323	15	0	7	0	22	650

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 Ref Pt: 225+00.377 Site Code : 1735041  
 data by: Alliant Inc Start Date : 11/12/2019  
 TURN MOVEMENT COUNT Page No : 2

Groups Printed- Cars - Trucks

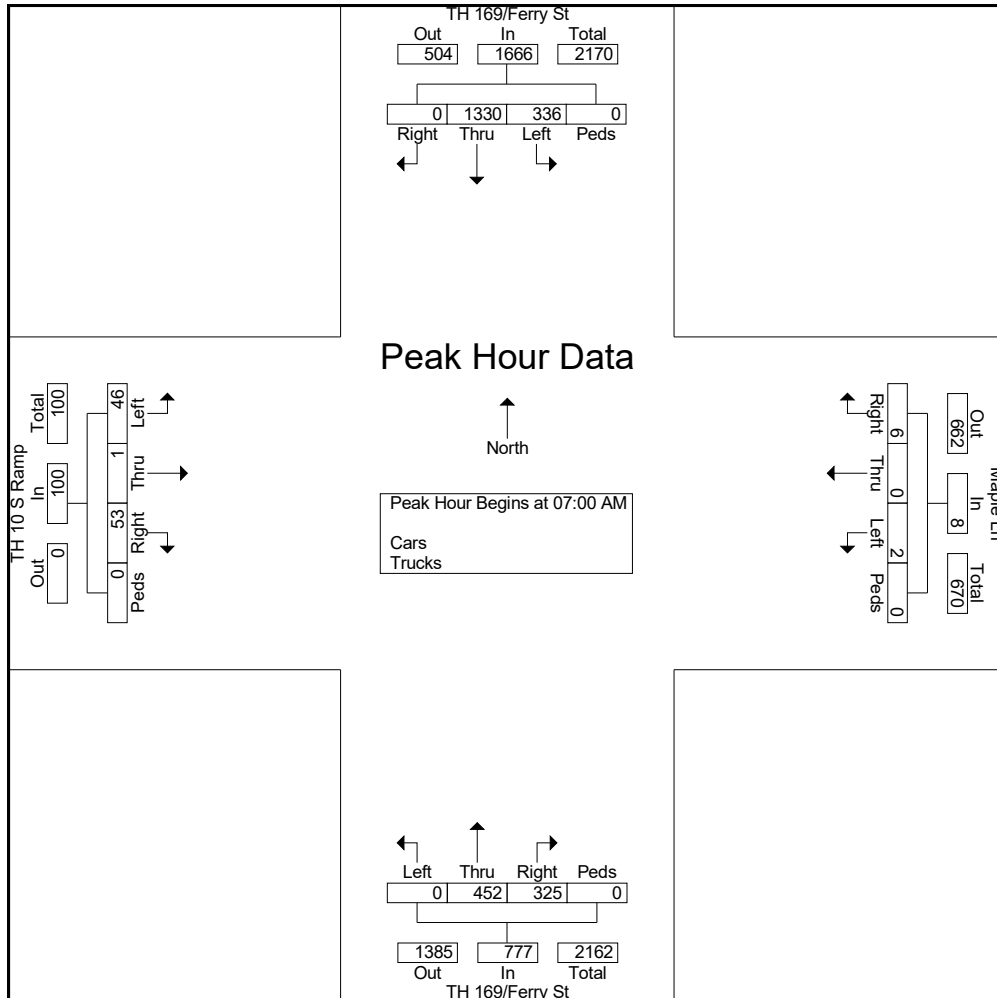
Start Time	TH 169/Ferry St Southbound					Maple Ln Westbound					TH 169/Ferry St Northbound					TH 10 S Ramp Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:45 PM	0	193	54	0	247	2	0	0	0	2	134	195	0	0	329	11	1	14	0	26	604
Total	0	766	278	0	1044	6	0	1	0	7	504	785	0	0	1289	44	1	43	0	88	2428
04:00 PM	0	171	74	0	245	1	0	2	0	3	165	164	0	0	329	7	0	11	0	18	595
04:15 PM	0	196	69	0	265	3	0	1	0	4	180	200	0	0	380	5	0	11	0	16	665
04:30 PM	0	221	87	0	308	1	0	0	0	1	160	184	0	0	344	10	0	14	0	24	677
04:45 PM	0	195	73	0	268	0	0	1	0	1	175	166	0	0	341	11	0	11	0	22	632
Total	0	783	303	0	1086	5	0	4	0	9	680	714	0	0	1394	33	0	47	0	80	2569
05:00 PM	0	236	78	0	314	0	0	0	0	0	158	157	0	0	315	11	0	10	0	21	650
05:15 PM	0	187	66	0	253	1	0	1	0	2	175	184	0	0	359	10	0	11	0	21	635
05:30 PM	0	189	80	0	269	0	0	0	0	0	154	174	0	0	328	3	0	5	0	8	605
05:45 PM	0	165	63	0	228	0	0	0	0	0	135	180	0	0	315	7	1	8	0	16	559
Total	0	777	287	0	1064	1	0	1	0	2	622	695	0	0	1317	31	1	34	0	66	2449
Grand Total	0	8498	2917	0	11415	44	0	24	0	68	3987	5142	0	0	9129	405	10	366	0	781	21393
Apprch %	0	74.4	25.6	0		64.7	0	35.3	0		43.7	56.3	0	0		51.9	1.3	46.9	0		
Total %	0	39.7	13.6	0	53.4	0.2	0	0.1	0	0.3	18.6	24	0	0	42.7	1.9	0	1.7	0	3.7	
Cars	0	8282	2790	0	11072	39	0	22	0	61	3868	4891	0	0	8759	364	7	345	0	716	20608
% Cars	0	97.5	95.6	0	97	88.6	0	91.7	0	89.7	97	95.1	0	0	95.9	89.9	70	94.3	0	91.7	96.3
Trucks	0	216	127	0	343	5	0	2	0	7	119	251	0	0	370	41	3	21	0	65	785
% Trucks	0	2.5	4.4	0	3	11.4	0	8.3	0	10.3	3	4.9	0	0	4.1	10.1	30	5.7	0	8.3	3.7

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 TURN MOVEMENT COUNT Page No : 3

Start Time	TH 169/Ferry St Southbound					Maple Ln Westbound					TH 169/Ferry St Northbound					TH 10 S Ramp 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 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	359	85	0	444	2	0	1	0	3	85	83	0	0	168	11	0	9	0	20	635
07:15 AM	0	360	99	0	459	1	0	1	0	2	77	110	0	0	187	6	0	8	0	14	662
07:30 AM	0	299	74	0	373	1	0	0	0	1	87	129	0	0	216	7	0	9	0	16	606
07:45 AM	0	312	78	0	390	2	0	0	0	2	76	130	0	0	206	29	1	20	0	50	648
Total Volume	0	1330	336	0	1666	6	0	2	0	8	325	452	0	0	777	53	1	46	0	100	2551
% App. Total	0	79.8	20.2	0		75	0	25	0		41.8	58.2	0	0		53	1	46	0		
PHF	.000	.924	.848	.000	.907	.750	.000	.500	.000	.667	.934	.869	.000	.000	.899	.457	.250	.575	.000	.500	.963

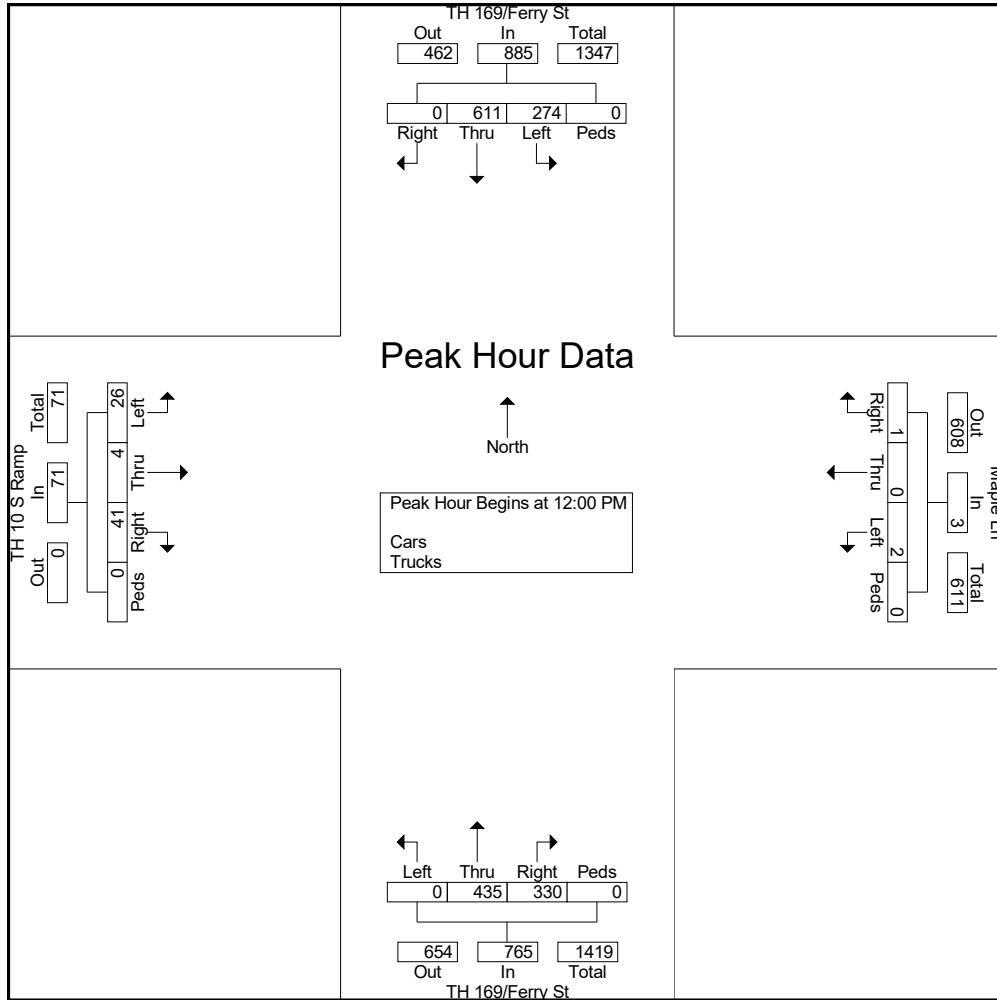


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 TURN MOVEMENT COUNT Page No : 4

Start Time	TH 169/Ferry St Southbound					Maple Ln Westbound					TH 169/Ferry St Northbound					TH 10 S Ramp 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 12:00 PM																					
12:00 PM	0	162	83	0	245	1	0	1	0	2	100	106	0	0	206	8	0	3	0	11	464
12:15 PM	0	148	53	0	201	0	0	0	0	0	83	103	0	0	186	18	1	6	0	25	412
12:30 PM	0	142	70	0	212	0	0	0	0	0	72	115	0	0	187	10	0	6	0	16	415
12:45 PM	0	159	68	0	227	0	0	1	0	1	75	111	0	0	186	5	3	11	0	19	433
Total Volume	0	611	274	0	885	1	0	2	0	3	330	435	0	0	765	41	4	26	0	71	1724
% App. Total	0	69	31	0		33.3	0	66.7	0		43.1	56.9	0	0		57.7	5.6	36.6	0		
PHF	.000	.943	.825	.000	.903	.250	.000	.500	.000	.375	.825	.946	.000	.000	.928	.569	.333	.591	.000	.710	.929



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 TURN MOVEMENT COUNT Page No : 5

Start Time	TH 169/Ferry St Southbound					Maple Ln Westbound					TH 169/Ferry St Northbound					TH 10 S Ramp 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	0	196	69	0	265	3	0	1	0	4	180	200	0	0	380	5	0	11	0	16	665
04:30 PM	0	221	87	0	308	1	0	0	0	1	160	184	0	0	344	10	0	14	0	24	677
04:45 PM	0	195	73	0	268	0	0	1	0	1	175	166	0	0	341	11	0	11	0	22	632
05:00 PM	0	236	78	0	314	0	0	0	0	0	158	157	0	0	315	11	0	10	0	21	650
Total Volume	0	848	307	0	1155	4	0	2	0	6	673	707	0	0	1380	37	0	46	0	83	2624
% App. Total	0	73.4	26.6	0		66.7	0	33.3	0		48.8	51.2	0	0		44.6	0	55.4	0		
PHF	.000	.898	.882	.000	.920	.333	.000	.500	.000	.375	.935	.884	.000	.000	.908	.841	.000	.821	.000	.865	.969

