

# ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

TH 61 & County Road J (120th St N)  
 Ref Pt: 150+00.052  
 data by: Alliant Inc  
 TURN MOVEMENT COUNT

File Name : 521\_TH 61 and County Road J (120th Street North)  
 Site Code : 1736246  
 Start Date : 11/7/2019  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH 61 Southbound					120th St N Westbound					TH 61 Northbound					County Rd J 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	142	5	0	147	5	0	20	0	25	1	28	0	0	29	5	2	0	0	7	208
06:15 AM	1	185	13	0	199	10	0	40	0	50	1	50	0	0	51	13	0	0	0	13	313
06:30 AM	2	259	12	0	273	11	1	37	0	49	4	67	1	0	72	9	1	2	0	12	406
06:45 AM	0	267	14	0	281	11	0	36	0	47	4	86	0	0	90	11	9	2	0	22	440
<b>Total</b>	<b>3</b>	<b>853</b>	<b>44</b>	<b>0</b>	<b>900</b>	<b>37</b>	<b>1</b>	<b>133</b>	<b>0</b>	<b>171</b>	<b>10</b>	<b>231</b>	<b>1</b>	<b>0</b>	<b>242</b>	<b>38</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>54</b>	<b>1367</b>
07:00 AM	3	271	19	0	293	20	1	41	0	62	4	65	1	0	70	12	5	0	0	17	442
07:15 AM	0	272	23	0	295	20	5	56	0	81	5	78	2	0	85	18	5	1	0	24	485
07:30 AM	2	298	13	0	313	14	2	36	0	52	9	68	2	0	79	15	4	7	0	26	470
07:45 AM	3	238	14	0	255	16	4	47	0	67	11	74	2	0	87	13	4	2	0	19	428
<b>Total</b>	<b>8</b>	<b>1079</b>	<b>69</b>	<b>0</b>	<b>1156</b>	<b>70</b>	<b>12</b>	<b>180</b>	<b>0</b>	<b>262</b>	<b>29</b>	<b>285</b>	<b>7</b>	<b>0</b>	<b>321</b>	<b>58</b>	<b>18</b>	<b>10</b>	<b>0</b>	<b>86</b>	<b>1825</b>
08:00 AM	2	192	21	0	215	24	2	34	0	60	9	90	2	0	101	6	9	3	0	18	394
08:15 AM	1	142	12	0	155	11	1	17	0	29	10	81	3	0	94	11	4	1	0	16	294
08:30 AM	2	153	14	0	169	9	2	25	0	36	2	72	1	0	75	6	2	1	0	9	289
08:45 AM	3	170	15	0	188	7	7	38	0	52	6	63	2	0	71	11	1	2	0	14	325
<b>Total</b>	<b>8</b>	<b>657</b>	<b>62</b>	<b>0</b>	<b>727</b>	<b>51</b>	<b>12</b>	<b>114</b>	<b>0</b>	<b>177</b>	<b>27</b>	<b>306</b>	<b>8</b>	<b>0</b>	<b>341</b>	<b>34</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>57</b>	<b>1302</b>
09:00 AM	0	131	21	0	152	23	1	22	0	46	7	76	4	0	87	8	3	1	0	12	297
09:15 AM	2	123	11	0	136	14	4	11	0	29	9	74	2	0	85	13	3	3	0	19	269
*** BREAK ***																					
<b>Total</b>	<b>2</b>	<b>254</b>	<b>32</b>	<b>0</b>	<b>288</b>	<b>37</b>	<b>5</b>	<b>33</b>	<b>0</b>	<b>75</b>	<b>16</b>	<b>150</b>	<b>6</b>	<b>0</b>	<b>172</b>	<b>21</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>31</b>	<b>566</b>
*** BREAK ***																					
10:30 AM	2	103	10	0	115	15	1	13	0	29	5	79	5	0	89	5	2	0	0	7	240
10:45 AM	1	92	15	0	108	22	1	16	0	39	7	93	4	0	104	1	3	2	0	6	257
<b>Total</b>	<b>3</b>	<b>195</b>	<b>25</b>	<b>0</b>	<b>223</b>	<b>37</b>	<b>2</b>	<b>29</b>	<b>0</b>	<b>68</b>	<b>12</b>	<b>172</b>	<b>9</b>	<b>0</b>	<b>193</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>13</b>	<b>497</b>
11:00 AM	1	110	17	0	128	20	2	12	0	34	9	86	5	0	100	9	1	0	0	10	272
11:15 AM	0	104	13	0	117	19	2	15	0	36	3	89	2	0	94	9	7	1	0	17	264
11:30 AM	2	91	14	0	107	25	5	24	0	54	7	100	4	0	111	2	4	1	0	7	279
11:45 AM	0	109	11	0	120	12	3	9	0	24	9	83	4	0	96	6	4	1	0	11	251
<b>Total</b>	<b>3</b>	<b>414</b>	<b>55</b>	<b>0</b>	<b>472</b>	<b>76</b>	<b>12</b>	<b>60</b>	<b>0</b>	<b>148</b>	<b>28</b>	<b>358</b>	<b>15</b>	<b>0</b>	<b>401</b>	<b>26</b>	<b>16</b>	<b>3</b>	<b>0</b>	<b>45</b>	<b>1066</b>
12:00 PM	2	111	13	0	126	13	1	13	0	27	4	92	4	0	100	9	1	1	0	11	264
12:15 PM	1	94	19	0	114	17	5	13	0	35	9	90	3	0	102	4	1	1	0	6	257
12:30 PM	1	102	14	0	117	18	1	21	0	40	10	98	1	0	109	8	4	1	0	13	279
12:45 PM	1	102	13	0	116	22	2	14	0	38	14	108	6	0	128	6	3	0	0	9	291
<b>Total</b>	<b>5</b>	<b>409</b>	<b>59</b>	<b>0</b>	<b>473</b>	<b>70</b>	<b>9</b>	<b>61</b>	<b>0</b>	<b>140</b>	<b>37</b>	<b>388</b>	<b>14</b>	<b>0</b>	<b>439</b>	<b>27</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>39</b>	<b>1091</b>
01:00 PM	1	79	14	0	94	22	3	20	0	45	10	97	4	0	111	5	7	0	0	12	262
01:15 PM	1	83	10	0	94	16	5	9	0	30	12	108	5	0	125	4	2	2	0	8	257
*** BREAK ***																					
<b>Total</b>	<b>2</b>	<b>162</b>	<b>24</b>	<b>0</b>	<b>188</b>	<b>38</b>	<b>8</b>	<b>29</b>	<b>0</b>	<b>75</b>	<b>22</b>	<b>205</b>	<b>9</b>	<b>0</b>	<b>236</b>	<b>9</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>20</b>	<b>519</b>
*** BREAK ***																					
02:30 PM	2	99	11	0	112	22	2	13	0	37	12	156	7	0	175	6	1	2	0	9	333
02:45 PM	1	110	11	0	122	22	1	7	0	30	15	169	8	0	192	3	5	4	0	12	356
<b>Total</b>	<b>3</b>	<b>209</b>	<b>22</b>	<b>0</b>	<b>234</b>	<b>44</b>	<b>3</b>	<b>20</b>	<b>0</b>	<b>67</b>	<b>27</b>	<b>325</b>	<b>15</b>	<b>0</b>	<b>367</b>	<b>9</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>21</b>	<b>689</b>
03:00 PM	1	146	8	0	155	17	3	33	0	53	13	191	8	0	212	1	4	2	0	7	427
03:15 PM	1	122	10	0	133	29	8	7	0	44	18	191	5	0	214	9	1	6	0	16	407
03:30 PM	1	126	15	0	142	23	2	25	0	50	22	177	8	0	207	6	4	4	0	14	413

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File Name : 521\_TH 61 and County Road J (120th Street North)  
 Site Code : 1736246  
 Start Date : 11/7/2019  
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH 61 Southbound					120th St N Westbound					TH 61 Northbound					County Rd J 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	131	20	0	156	22	6	20	0	48	16	219	11	0	246	8	3	5	0	16	466
Total	8	525	53	0	586	91	19	85	0	195	69	778	32	0	879	24	12	17	0	53	1713
04:00 PM	3	133	16	0	152	21	5	17	0	43	15	213	13	0	241	7	7	7	0	21	457
04:15 PM	0	127	13	0	140	30	4	9	0	43	26	182	8	0	216	5	5	3	0	13	412
04:30 PM	4	156	13	0	173	23	5	27	0	55	11	196	14	0	221	7	8	2	0	17	466
04:45 PM	1	157	13	0	171	25	4	26	0	55	18	210	19	0	247	6	7	6	0	19	492
Total	8	573	55	0	636	99	18	79	0	196	70	801	54	0	925	25	27	18	0	70	1827
05:00 PM	3	151	25	0	179	22	6	17	0	45	9	236	9	0	254	8	6	1	0	15	493
05:15 PM	3	126	16	0	145	8	2	7	0	17	17	211	15	0	243	10	1	0	0	11	416
05:30 PM	1	142	25	0	168	25	7	17	0	49	24	181	7	0	212	5	6	3	0	14	443
05:45 PM	2	107	13	0	122	28	5	14	0	47	8	183	6	0	197	12	3	0	0	15	381
Total	9	526	79	0	614	83	20	55	0	158	58	811	37	0	906	35	16	4	0	55	1733
Grand Total	62	5856	579	0	6497	733	121	878	0	1732	405	4810	207	0	5422	312	152	80	0	544	14195
Apprch %	1	90.1	8.9	0		42.3	7	50.7	0		7.5	88.7	3.8	0		57.4	27.9	14.7	0		
Total %	0.4	41.3	4.1	0	45.8	5.2	0.9	6.2	0	12.2	2.9	33.9	1.5	0	38.2	2.2	1.1	0.6	0	3.8	
Cars	61	5609	538	0	6208	692	113	796	0	1601	379	4569	204	0	5152	311	147	78	0	536	13497
% Cars	98.4	95.8	92.9	0	95.6	94.4	93.4	90.7	0	92.4	93.6	95	98.6	0	95	99.7	96.7	97.5	0	98.5	95.1
Trucks	1	247	41	0	289	41	8	82	0	131	26	241	3	0	270	1	5	2	0	8	698
% Trucks	1.6	4.2	7.1	0	4.4	5.6	6.6	9.3	0	7.6	6.4	5	1.4	0	5	0.3	3.3	2.5	0	1.5	4.9

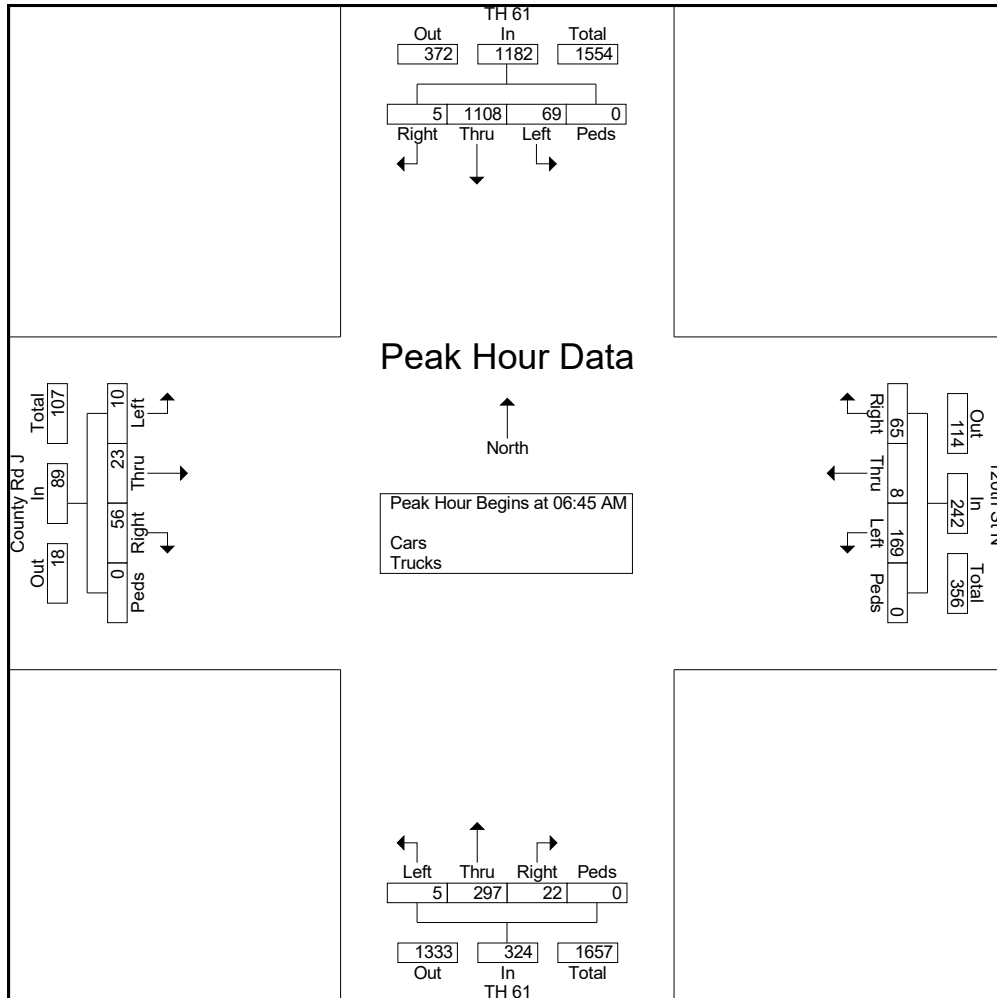
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Start Time	TH 61 Southbound					120th St N Westbound					TH 61 Northbound					County Rd J Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:45 AM																					
06:45 AM	0	267	14	0	281	11	0	36	0	47	4	<b>86</b>	0	0	<b>90</b>	11	<b>9</b>	2	0	22	440
07:00 AM	<b>3</b>	271	19	0	293	<b>20</b>	1	41	0	62	4	65	1	0	70	12	5	0	0	17	442
07:15 AM	0	272	<b>23</b>	0	295	20	<b>5</b>	<b>56</b>	0	<b>81</b>	5	78	<b>2</b>	0	85	<b>18</b>	5	1	0	24	<b>485</b>
07:30 AM	2	<b>298</b>	13	0	<b>313</b>	14	2	36	0	52	<b>9</b>	68	2	0	79	15	4	<b>7</b>	0	<b>26</b>	470
Total Volume	5	1108	69	0	1182	65	8	169	0	242	22	297	5	0	324	56	23	10	0	89	1837
% App. Total	0.4	93.7	5.8	0		26.9	3.3	69.8	0		6.8	91.7	1.5	0		62.9	25.8	11.2	0		
PHF	.417	.930	.750	.000	.944	.813	.400	.754	.000	.747	.611	.863	.625	.000	.900	.778	.639	.357	.000	.856	.947



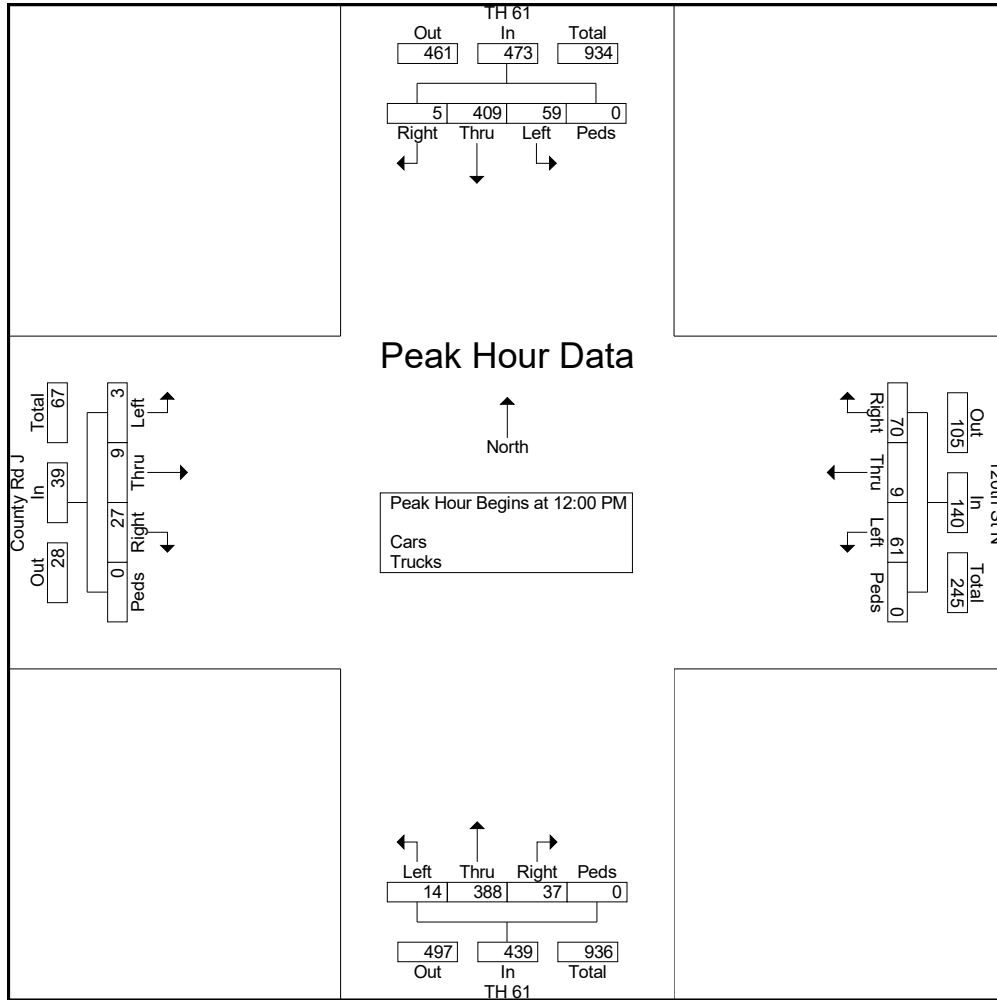
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 Page No : 4

Start Time	TH 61 Southbound					120th St N Westbound					TH 61 Northbound					County Rd J 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	2	111	13	0	126	13	1	13	0	27	4	92	4	0	100	9	1	1	0	11	264
12:15 PM	1	94	19	0	114	17	5	13	0	35	9	90	3	0	102	4	1	1	0	6	257
12:30 PM	1	102	14	0	117	18	1	21	0	40	10	98	1	0	109	8	4	1	0	13	279
12:45 PM	1	102	13	0	116	22	2	14	0	38	14	108	6	0	128	6	3	0	0	9	291
Total Volume	5	409	59	0	473	70	9	61	0	140	37	388	14	0	439	27	9	3	0	39	1091
% App. Total	1.1	86.5	12.5	0		50	6.4	43.6	0		8.4	88.4	3.2	0		69.2	23.1	7.7	0		
PHF	.625	.921	.776	.000	.938	.795	.450	.726	.000	.875	.661	.898	.583	.000	.857	.750	.563	.750	.000	.750	.937



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File Name : 521\_TH 61 and County Road J (120th Street North)  
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 Page No : 5

Start Time	TH 61 Southbound					120th St N Westbound					TH 61 Northbound					County Rd J 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 04:30 PM																					
04:30 PM	4	156	13	0	173	23	5	27	0	55	11	196	14	0	221	7	8	2	0	17	466
04:45 PM	1	157	13	0	171	25	4	26	0	55	18	210	19	0	247	6	7	6	0	19	492
05:00 PM	3	151	25	0	179	22	6	17	0	45	9	236	9	0	254	8	6	1	0	15	493
05:15 PM	3	126	16	0	145	8	2	7	0	17	17	211	15	0	243	10	1	0	0	11	416
Total Volume	11	590	67	0	668	78	17	77	0	172	55	853	57	0	965	31	22	9	0	62	1867
% App. Total	1.6	88.3	10	0		45.3	9.9	44.8	0		5.7	88.4	5.9	0		50	35.5	14.5	0		
PHF	.688	.939	.670	.000	.933	.780	.708	.713	.000	.782	.764	.904	.750	.000	.950	.775	.688	.375	.000	.816	.947

