

# Alliant Engineering Inc Minneapolis, MN 55415

Aquila Ave at 37th Ave W / Boone Ave S  
 Ref.Pt.: Knollwood entrance N of TH-7  
 Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : 22\_Aquila Ave at 37th St W\_011111  
 Site Code : 0000022  
 Start Date : 1/11/2011  
 Page No : 1

### Groups Printed- Unshifted - Bank 1

Start Time	Aquila Ave Southbound				Knollwood Mall entrance Westbound				Aquila Ave Northbound				37th St W / Boone Ave S Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
06:00	0	5	0	0	3	0	1	0	5	4	1	0	0	2	7	0	28
06:15	2	13	0	0	1	2	0	0	4	20	0	0	0	0	1	0	43
06:30	1	33	0	1	5	0	0	0	3	25	0	0	0	0	9	0	77
06:45	7	27	2	0	9	0	4	0	13	16	1	0	1	0	8	0	88
Total	10	78	2	1	18	2	5	0	25	65	2	0	1	2	25	0	236
07:00	2	30	3	0	8	4	0	0	10	16	0	0	0	3	4	1	81
07:15	1	36	1	0	9	1	0	0	19	25	3	0	0	1	6	1	103
07:30	2	32	1	0	7	1	3	0	19	19	2	0	0	4	10	0	100
07:45	5	27	4	0	6	1	3	0	25	27	1	0	0	0	10	0	109
Total	10	125	9	0	30	7	6	0	73	87	6	0	0	8	30	2	393
08:00	4	21	4	0	9	0	4	0	33	35	1	0	0	1	15	0	127
08:15	2	27	4	0	15	3	4	1	37	31	0	0	0	2	14	0	140
08:30	6	24	2	0	8	5	4	0	38	32	3	0	2	3	30	0	157
08:45	1	34	8	0	14	0	0	0	47	32	2	0	1	2	24	0	165
Total	13	106	18	0	46	8	12	1	155	130	6	0	3	8	83	0	589
09:00	3	23	7	0	7	3	3	0	60	46	2	0	1	6	36	0	197
09:15	3	22	16	1	15	5	1	0	60	20	4	0	9	9	41	0	206
*** BREAK ***																	
Total	6	45	23	1	22	8	4	0	120	66	6	0	10	15	77	0	403
*** BREAK ***																	
10:30	1	20	3	0	24	1	3	0	45	15	1	0	7	11	42	1	174
10:45	3	25	5	1	23	10	5	0	54	24	4	0	6	5	36	2	203
Total	4	45	8	1	47	11	8	0	99	39	5	0	13	16	78	3	377
11:00	4	23	1	0	26	8	9	0	77	26	2	0	8	4	45	2	235
11:15	7	27	4	0	28	6	2	1	76	34	3	0	10	9	67	0	274
11:30	3	28	4	0	38	4	5	0	82	31	4	0	11	13	76	1	300
11:45	2	27	7	1	36	11	8	0	74	32	5	1	6	10	72	4	296
Total	16	105	16	1	128	29	24	1	309	123	14	1	35	36	260	7	1105
12:00	2	24	12	2	38	8	4	0	119	28	4	0	22	4	84	3	354
12:15	0	36	3	1	37	10	6	0	107	38	2	0	16	5	83	0	344
12:30	5	36	4	0	47	7	5	0	111	30	3	0	8	13	93	0	362
12:45	6	30	7	1	52	6	7	0	92	38	3	0	9	8	64	0	323
Total	13	126	26	4	174	31	22	0	429	134	12	0	55	30	324	3	1383
13:00	1	36	3	0	38	8	10	0	88	26	1	2	11	5	105	0	334
13:15	5	38	9	1	47	13	7	0	95	30	1	1	8	7	59	13	334
*** BREAK ***																	
Total	6	74	12	1	85	21	17	0	183	56	2	3	19	12	164	13	668
*** BREAK ***																	
14:30	5	35	12	2	42	16	8	1	99	42	0	0	16	9	70	3	360
14:45	4	33	5	3	33	6	9	0	71	37	2	0	14	11	74	0	302
Total	9	68	17	5	75	22	17	1	170	79	2	0	30	20	144	3	662
15:00	6	40	7	0	22	8	9	0	70	34	2	0	8	4	84	0	294
15:15	4	35	7	3	39	6	7	0	80	42	3	1	12	7	85	0	331
15:30	5	38	8	1	44	6	10	0	73	44	3	0	11	6	64	2	315
15:45	11	36	7	2	32	14	4	0	96	48	3	2	8	9	84	2	358
Total	26	149	29	6	137	34	30	0	319	168	11	3	39	26	317	4	1298

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 Site Code : 00000022  
 Start Date : 1/11/2011  
 Page No : 2

### Groups Printed- Unshifted - Bank 1

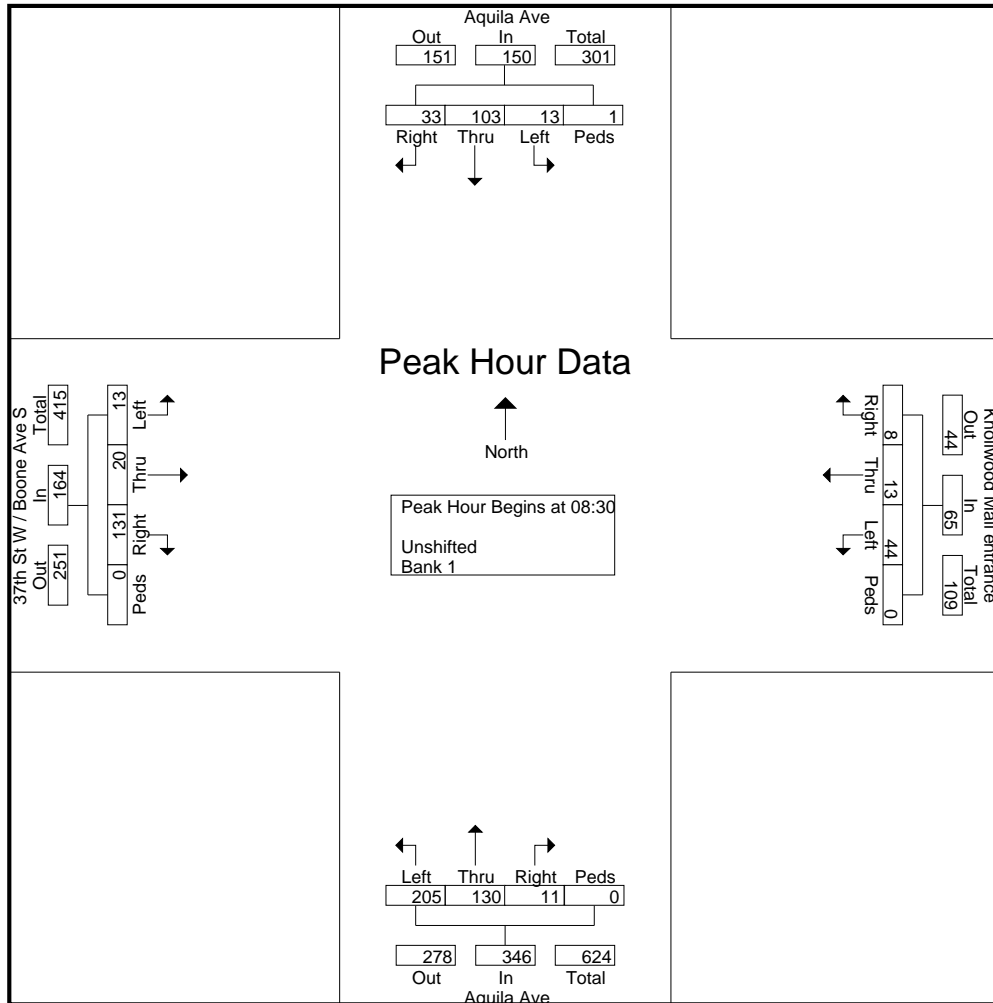
Start Time	Aquila Ave Southbound				Knollwood Mall entrance Westbound				Aquila Ave Northbound				37th St W / Boone Ave S Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
16:00	2	41	13	1	38	8	9	0	80	51	5	0	28	9	96	1	382
16:15	6	34	12	2	37	7	7	1	96	46	1	0	14	10	74	3	350
16:30	2	28	6	1	44	14	6	0	88	41	1	0	16	11	103	2	363
16:45	5	37	7	0	38	8	5	0	82	57	3	0	12	13	112	1	380
Total	15	140	38	4	157	37	27	1	346	195	10	0	70	43	385	7	1475
17:00	2	38	5	0	37	9	5	1	110	70	0	0	16	6	82	1	382
17:15	10	37	6	0	47	9	8	0	88	66	6	0	18	7	94	2	398
17:30	5	37	4	0	28	10	3	0	94	67	2	0	16	7	92	1	366
17:45	4	32	11	0	50	7	5	0	79	71	2	0	19	11	81	0	372
Total	21	144	26	0	162	35	21	1	371	274	10	0	69	31	349	4	1518
Grand Total	149	1205	224	24	1081	245	193	5	2599	1416	86	7	344	247	2236	46	10107
Apprch %	9.3	75.2	14	1.5	70.9	16.1	12.7	0.3	63.3	34.5	2.1	0.2	12	8.6	77.8	1.6	
Total %	1.5	11.9	2.2	0.2	10.7	2.4	1.9	0	25.7	14	0.9	0.1	3.4	2.4	22.1	0.5	
Unshifted	149	1158	209	23	1066	242	188	4	2547	1360	85	7	340	244	2204	45	9871
% Unshifted	100	96.1	93.3	95.8	98.6	98.8	97.4	80	98	96	98.8	100	98.8	98.8	98.6	97.8	97.7
Bank 1	0	47	15	1	15	3	5	1	52	56	1	0	4	3	32	1	236
% Bank 1	0	3.9	6.7	4.2	1.4	1.2	2.6	20	2	4	1.2	0	1.2	1.2	1.4	2.2	2.3

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 Site Code : 0000022  
 Start Date : 1/11/2011  
 Page No : 3

Start Time	Aquila Ave Southbound					Knollwood Mall entrance Westbound					Aquila Ave Northbound					37th St W / Boone Ave S Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 to 09:15 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:30																					
08:30	6	24	2	0	32	8	5	4	0	17	38	32	3	0	73	2	3	30	0	35	157
08:45	1	34	8	0	43	14	0	0	0	14	47	32	2	0	81	1	2	24	0	27	165
09:00	3	23	7	0	33	7	3	3	0	13	60	46	2	0	108	1	6	36	0	43	197
09:15	3	22	16	1	42	15	5	1	0	21	60	20	4	0	84	9	9	41	0	59	206
Total Volume	13	103	33	1	150	44	13	8	0	65	205	130	11	0	346	13	20	131	0	164	725
% App. Total	8.7	68.7	22	0.7		67.7	20	12.3	0		59.2	37.6	3.2	0		7.9	12.2	79.9	0		
PHF	.542	.757	.516	.250	.872	.733	.650	.500	.000	.774	.854	.707	.688	.000	.801	.361	.556	.799	.000	.695	.880

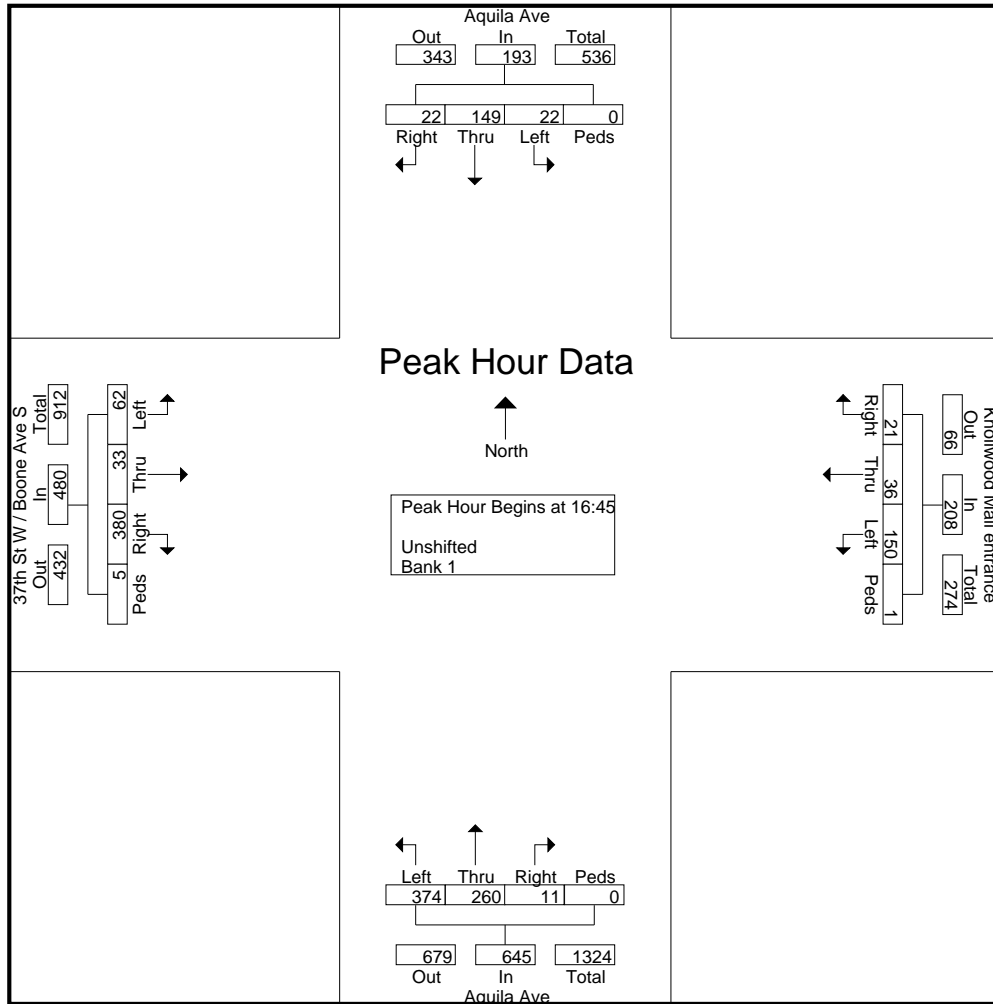


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 Start Date : 1/11/2011  
 Page No : 4

Start Time	Aquila Ave Southbound					Knollwood Mall entrance Westbound					Aquila Ave Northbound					37th St W / Boone Ave S Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 14:30 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:45																					
16:45	5	37	7	0	49	38	8	5	0	51	82	57	3	0	142	12	13	112	1	138	380
17:00	2	38	5	0	45	37	9	5	1	52	110	70	0	0	180	16	6	82	1	105	382
17:15	10	37	6	0	53	47	9	8	0	64	88	66	6	0	160	18	7	94	2	121	398
17:30	5	37	4	0	46	28	10	3	0	41	94	67	2	0	163	16	7	92	1	116	366
Total Volume	22	149	22	0	193	150	36	21	1	208	374	260	11	0	645	62	33	380	5	480	1526
% App. Total	11.4	77.2	11.4	0		72.1	17.3	10.1	0.5		58	40.3	1.7	0		12.9	6.9	79.2	1		
PHF	.550	.980	.786	.000	.910	.798	.900	.656	.250	.813	.850	.929	.458	.000	.896	.861	.635	.848	.625	.870	.959



Peak Hour Begins at 16:45  
 Unshifted  
 Bank 1