

# Alliant Engineering Inc

## Minneapolis, MN 55415

TH-65 at Constance Blvd NE / CSAH-60  
 Ref.Pt.: 020.191 HAM LAKE  
 data by Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-65 at Constance Blvd NE 2009  
 Site Code : 00000020  
 Start Date : 1/15/2009  
 Page No : 1

**Groups Printed- Unshifted**

Start Time	TH-65 Southbound				Constance Blvd NE / CSAH-60 Westbound				TH-65 Northbound				Constance Blvd NE / CSAH-60 Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
06:00	9	422	12	0	17	6	2	0	3	17	4	0	2	8	15	0	517
06:15	23	442	12	0	26	10	0	0	2	31	9	0	3	7	14	0	579
06:30	19	416	13	0	36	7	1	0	1	44	12	0	3	11	11	0	574
06:45	10	356	6	0	33	18	3	0	4	50	12	0	4	11	17	0	524
Total	61	1636	43	0	112	41	6	0	10	142	37	0	12	37	57	0	2194
07:00	14	361	7	0	38	16	5	0	0	49	11	0	3	7	13	0	524
07:15	7	347	8	0	26	18	8	0	3	62	13	0	2	20	25	0	539
07:30	23	319	13	0	32	17	13	0	0	75	14	0	2	7	16	0	531
07:45	18	301	15	0	28	22	8	0	5	77	19	0	4	24	13	0	534
Total	62	1328	43	0	124	73	34	0	8	263	57	0	11	58	67	0	2128
08:00	12	213	8	0	31	14	4	0	4	61	13	0	4	19	12	0	395
08:15	15	209	21	0	11	8	13	0	10	63	21	0	3	10	14	0	398
08:30	13	202	9	0	14	6	5	0	3	76	17	0	6	6	9	0	366
08:45	17	195	11	0	22	15	7	0	17	54	15	0	2	13	12	0	380
Total	57	819	49	0	78	43	29	0	34	254	66	0	15	48	47	0	1539
09:00	21	140	9	0	27	17	15	0	0	64	31	0	9	26	16	0	375
09:15	27	160	5	0	40	22	10	0	5	74	22	0	4	12	21	0	402
*** BREAK ***																	
Total	48	300	14	0	67	39	25	0	5	138	53	0	13	38	37	0	777
*** BREAK ***																	
10:30	19	135	10	0	9	11	12	0	6	63	11	0	3	6	6	0	291
10:45	6	133	7	0	21	5	8	0	5	65	15	0	4	10	10	0	289
Total	25	268	17	0	30	16	20	0	11	128	26	0	7	16	16	0	580
11:00	12	152	4	0	18	5	6	0	3	105	10	0	6	8	1	0	330
11:15	7	121	11	0	5	5	4	0	4	96	21	0	7	7	4	0	292
11:30	12	111	10	0	19	13	12	0	3	101	16	0	10	8	9	1	325
11:45	15	128	6	0	17	8	8	0	6	93	6	0	8	6	7	0	308
Total	46	512	31	0	59	31	30	0	16	395	53	0	31	29	21	1	1255
12:00	6	114	12	0	12	9	7	0	2	94	25	0	9	4	10	0	304
12:15	13	130	10	0	19	7	13	0	8	102	16	0	8	10	8	0	344
12:30	16	110	7	0	12	7	17	0	2	122	20	0	5	10	5	0	333
12:45	19	121	7	0	14	8	10	0	5	116	15	0	5	8	7	0	335
Total	54	475	36	0	57	31	47	0	17	434	76	0	27	32	30	0	1316
13:00	17	116	7	0	24	9	13	0	2	94	30	0	5	11	6	0	334
13:15	9	131	6	0	17	9	15	0	7	130	22	0	8	14	6	0	374
*** BREAK ***																	
Total	26	247	13	0	41	18	28	0	9	224	52	0	13	25	12	0	708
*** BREAK ***																	
14:30	6	107	15	0	10	13	19	0	8	203	23	0	12	11	3	0	430
14:45	9	108	7	0	16	8	19	0	5	257	42	0	11	9	4	0	495
Total	15	215	22	0	26	21	38	0	13	460	65	0	23	20	7	0	925
15:00	13	104	12	0	18	8	21	0	5	267	40	0	10	14	4	0	516
15:15	8	133	8	0	18	12	17	0	7	252	38	0	6	17	6	0	522
15:30	8	113	9	0	18	6	19	0	4	329	41	0	16	15	7	0	585
15:45	19	117	9	0	9	13	24	0	13	318	63	0	17	26	11	0	639
Total	48	467	38	0	63	39	81	0	29	1166	182	0	49	72	28	0	2262

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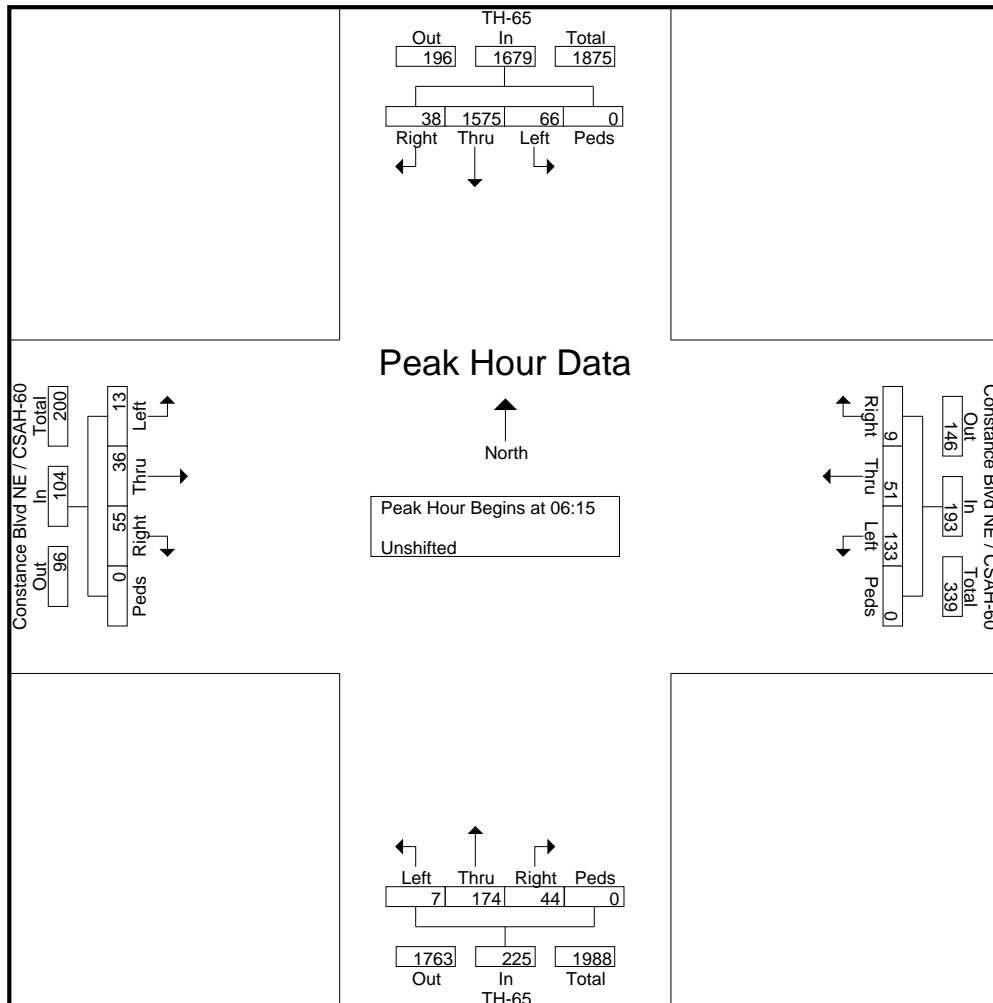
Start Time	TH-65 Southbound				Constance Blvd NE / CSAH-60 Westbound				TH-65 Northbound				Constance Blvd NE / CSAH-60 Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
16:00	8	127	4	0	32	13	23	0	6	332	47	0	20	25	5	0	642
16:15	14	131	4	0	31	19	30	0	11	403	46	0	11	8	9	0	717
16:30	15	137	6	0	25	22	29	0	11	363	47	0	24	14	11	0	704
16:45	18	157	3	0	25	17	24	0	12	406	42	0	18	20	20	0	762
Total	55	552	17	0	113	71	106	0	40	1504	182	0	73	67	45	0	2825
17:00	25	184	4	0	37	15	34	1	6	417	57	0	20	18	9	0	827
17:15	22	136	9	0	29	15	23	0	6	385	43	0	12	18	11	0	709
17:30	17	144	6	0	34	14	24	0	11	261	30	0	9	13	13	0	576
17:45	14	136	5	0	24	11	10	0	5	277	36	0	9	24	13	0	564
Total	78	600	24	0	124	55	91	1	28	1340	166	0	50	73	46	0	2676
Grand Total	575	7419	347	0	894	478	535	1	220	6448	1015	0	324	515	413	1	19185
Apprch %	6.9	88.9	4.2	0	46.9	25.1	28	0.1	2.9	83.9	13.2	0	25.9	41.1	33	0.1	
Total %	3	38.7	1.8	0	4.7	2.5	2.8	0	1.1	33.6	5.3	0	1.7	2.7	2.2	0	

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Start Time	TH-65 Southbound					Constance Blvd NE / CSAH-60 Westbound					TH-65 Northbound					Constance Blvd NE / CSAH-60 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 08:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:15																					
06:15	23	442	12	0	477	26	10	0	0	36	2	31	9	0	42	3	7	14	0	24	579
06:30	19	416	13	0	448	36	7	1	0	44	1	44	12	0	57	3	11	11	0	25	574
06:45	10	356	6	0	372	33	18	3	0	54	4	50	12	0	66	4	11	17	0	32	524
07:00	14	361	7	0	382	38	16	5	0	59	0	49	11	0	60	3	7	13	0	23	524
Total Volume	66	1575	38	0	1679	133	51	9	0	193	7	174	44	0	225	13	36	55	0	104	2201
% App. Total	3.9	93.8	2.3	0		68.9	26.4	4.7	0		3.1	77.3	19.6	0		12.5	34.6	52.9	0		
PHF	.717	.891	.731	.000	.880	.875	.708	.450	.000	.818	.438	.870	.917	.000	.852	.813	.818	.809	.000	.813	.950



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	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 15:00 to 17:45 - Peak 1 of 1  
 Peak Hour for Entire Intersection Begins at 16:15

16:15	14	131	4	0	149	31	19	30	0	80	11	403	46	0	460	11	8	9	0	28	717
16:30	15	137	6	0	158	25	22	29	0	76	11	363	47	0	421	24	14	11	0	49	704
16:45	18	157	3	0	178	25	17	24	0	66	12	406	42	0	460	18	20	20	0	58	762
17:00	25	184	4	0	213	37	15	34	1	87	6	417	57	0	480	20	18	9	0	47	827
Total Volume	72	609	17	0	698	118	73	117	1	309	40	1589	192	0	1821	73	60	49	0	182	3010
% App. Total	10.3	87.2	2.4	0		38.2	23.6	37.9	0.3		2.2	87.3	10.5	0		40.1	33	26.9	0		
PHF	.720	.827	.708	.000	.819	.797	.830	.860	.250	.888	.833	.953	.842	.000	.948	.760	.750	.613	.000	.784	.910

