

# ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

MN 51 (Snelling Ave) & CSAH 25 (CR B)  
 City: Roseville  
 data by: Spack Solutions  
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & CSAH 25 (CR B)\_2021  
 Site Code : 1735343  
 Start Date : 10/13/2021  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					CSAH 25 (CR B) Westbound					MN 51 (Snelling Ave) Northbound					CSAH 25 (CR B) 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	
06:00 AM	1	101	16	0	118	6	6	3	0	15	5	59	2	0	66	6	3	8	0	17	216
06:15 AM	4	137	14	0	155	2	2	1	0	5	4	82	1	0	87	4	5	5	0	14	261
06:30 AM	0	178	6	2	186	5	8	9	0	22	7	133	4	0	144	8	5	6	0	19	371
06:45 AM	9	255	14	0	278	12	4	3	0	19	11	131	10	0	152	9	7	5	0	21	470
Total	14	671	50	2	737	25	20	16	0	61	27	405	17	0	449	27	20	24	0	71	1318
07:00 AM	17	197	19	0	233	6	15	12	1	34	5	119	11	0	135	9	13	9	0	31	433
07:15 AM	16	237	28	0	281	22	29	18	0	69	9	190	11	1	211	12	26	16	0	54	615
07:30 AM	15	231	23	0	269	14	47	17	0	78	13	213	13	0	239	19	24	15	1	59	645
07:45 AM	19	261	38	0	318	22	26	13	0	61	17	195	14	2	228	14	14	12	1	41	648
Total	67	926	108	0	1101	64	117	60	1	242	44	717	49	3	813	54	77	52	2	185	2341
08:00 AM	17	210	41	3	271	18	24	22	0	64	23	201	15	0	239	12	11	13	1	37	611
08:15 AM	13	238	42	0	293	16	29	19	0	64	22	182	17	1	222	23	16	10	0	49	628
08:30 AM	22	204	52	3	281	18	43	18	0	79	17	177	20	1	215	18	19	8	0	45	620
08:45 AM	32	241	40	1	314	10	46	25	1	82	23	173	25	2	223	17	26	14	0	57	676
Total	84	893	175	7	1159	62	142	84	1	289	85	733	77	4	899	70	72	45	1	188	2535
09:00 AM	31	161	45	0	237	23	44	26	0	93	17	119	20	0	156	22	31	13	1	67	553
09:15 AM	39	172	54	0	265	17	41	26	0	84	23	130	29	1	183	30	47	18	1	96	628
09:30 AM	56	181	47	2	286	20	35	27	1	83	15	146	17	1	179	22	45	15	1	83	631
09:45 AM	49	174	44	3	270	23	55	43	4	125	19	162	21	1	203	18	34	20	0	72	670
Total	175	688	190	5	1058	83	175	122	5	385	74	557	87	3	721	92	157	66	3	318	2482
10:00 AM	43	183	27	0	253	26	37	57	4	124	20	127	19	5	171	12	51	11	1	75	623
10:15 AM	51	157	33	1	242	25	42	39	5	111	18	188	19	3	228	18	43	19	1	81	662
10:30 AM	48	146	30	2	226	23	31	48	0	102	20	188	24	3	235	21	37	16	0	74	637
10:45 AM	61	154	47	2	264	22	46	49	3	120	20	173	27	4	224	21	37	16	1	75	683
Total	203	640	137	5	985	96	156	193	12	457	78	676	89	15	858	72	168	62	3	305	2605
11:00 AM	55	152	38	0	245	28	45	65	1	139	17	187	24	6	234	32	35	26	2	95	713
11:15 AM	58	183	40	0	281	36	38	60	0	134	19	210	31	0	260	22	48	23	0	93	768
11:30 AM	69	212	47	3	331	29	43	79	1	152	24	188	30	6	248	33	61	18	1	113	844
11:45 AM	84	188	54	1	327	46	52	70	1	169	25	191	26	0	242	17	48	30	2	97	835
Total	266	735	179	4	1184	139	178	274	3	594	85	776	111	12	984	104	192	97	5	398	3160
12:00 PM	78	213	50	3	344	30	54	36	2	122	28	215	32	2	277	32	73	27	2	134	877
12:15 PM	84	213	53	1	351	38	45	55	0	138	25	235	26	2	288	31	54	24	0	109	886
12:30 PM	79	192	57	0	328	37	43	73	0	153	20	232	29	1	282	35	57	37	0	129	892
12:45 PM	75	212	64	2	353	38	41	87	0	166	25	234	20	7	286	34	65	26	0	125	930
Total	316	830	224	6	1376	143	183	251	2	579	98	916	107	12	1133	132	249	114	2	497	3585
01:00 PM	63	212	45	3	323	48	38	66	0	152	28	250	21	0	299	29	51	21	0	101	875
01:15 PM	59	190	44	0	293	35	47	61	0	143	24	237	33	3	297	34	37	34	0	105	838
01:30 PM	85	208	40	2	335	31	33	85	1	150	27	214	26	1	268	26	48	23	0	97	850
01:45 PM	60	238	55	3	356	33	36	67	0	136	24	273	29	4	330	27	50	17	4	98	920
Total	267	848	184	8	1307	147	154	279	1	581	103	974	109	8	1194	116	186	95	4	401	3483
02:00 PM	77	190	43	3	313	32	42	19	0	93	30	274	15	4	323	34	56	11	0	101	830
02:15 PM	56	198	33	2	289	35	41	31	0	107	29	272	25	4	330	29	56	19	0	104	830
02:30 PM	49	196	34	0	279	37	55	43	0	135	34	293	16	2	345	27	68	34	0	129	888
02:45 PM	94	216	39	0	349	33	53	62	1	149	21	241	16	3	281	36	85	23	0	144	923
Total	276	800	149	5	1230	137	191	155	1	484	114	1080	72	13	1279	126	265	87	0	478	3471
03:00 PM	58	207	40	4	309	32	42	62	0	136	31	298	36	3	368	33	84	26	2	145	958

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File Name : MN 51 (Snelling Ave) & CSAH 25 (CR B)\_2021  
 Site Code : 1735343  
 Start Date : 10/13/2021  
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					CSAH 25 (CR B) Westbound					MN 51 (Snelling Ave) Northbound					CSAH 25 (CR B) 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	
03:15 PM	53	236	40	4	333	32	35	53	0	120	31	349	26	6	412	34	75	25	1	135	1000
03:30 PM	61	224	36	3	324	28	46	55	0	129	32	353	35	2	422	26	78	22	0	126	1001
03:45 PM	56	247	66	0	369	32	48	74	0	154	30	356	32	3	421	37	101	31	1	170	1114
Total	228	914	182	11	1335	124	171	244	0	539	124	1356	129	14	1623	130	338	104	4	576	4073
04:00 PM	64	241	43	1	349	34	45	74	1	154	34	348	26	8	416	38	101	30	4	173	1092
04:15 PM	66	212	45	1	324	39	48	66	1	154	33	351	45	7	436	32	76	42	3	153	1067
04:30 PM	53	210	42	0	305	40	32	79	0	151	27	352	34	5	418	25	84	34	4	147	1021
04:45 PM	71	288	44	2	405	34	48	88	1	171	22	353	36	3	414	35	97	30	2	164	1154
Total	254	951	174	4	1383	147	173	307	3	630	116	1404	141	23	1684	130	358	136	13	637	4334
05:00 PM	82	258	47	2	389	53	61	72	2	188	26	273	34	3	336	29	105	37	1	172	1085
05:15 PM	86	267	55	3	411	56	64	90	0	210	47	290	29	1	367	35	79	34	0	148	1136
05:30 PM	81	240	45	0	366	38	35	84	0	157	29	302	36	5	372	32	49	24	0	105	1000
05:45 PM	84	228	46	2	360	54	58	93	0	205	28	281	27	6	342	26	53	23	0	102	1009
Total	333	993	193	7	1526	201	218	339	2	760	130	1146	126	15	1417	122	286	118	1	527	4230
06:00 PM	94	221	49	4	368	46	49	93	5	193	20	247	30	5	302	29	53	26	0	108	971
06:15 PM	81	183	51	2	317	46	39	103	1	189	22	245	32	3	302	32	45	16	1	94	902
06:30 PM	79	186	56	2	323	41	49	80	2	172	19	222	25	0	266	35	60	18	0	113	874
06:45 PM	72	182	43	4	301	38	28	73	0	139	17	182	17	0	216	26	47	17	1	91	747
Total	326	772	199	12	1309	171	165	349	8	693	78	896	104	8	1086	122	205	77	2	406	3494
Grand Total	2809	10661	2144	76	15690	1539	2043	2673	39	6294	1156	11636	1218	130	14140	1297	2573	1077	40	4987	41111
Apprch %	17.9	67.9	13.7	0.5		24.5	32.5	42.5	0.6		8.2	82.3	8.6	0.9		26	51.6	21.6	0.8		
Total %	6.8	25.9	5.2	0.2	38.2	3.7	5	6.5	0.1	15.3	2.8	28.3	3	0.3	34.4	3.2	6.3	2.6	0.1	12.1	
Cars	2754	10215	2116	70	15155	1525	2013	2632	38	6208	1144	11175	1203	124	13646	1281	2532	1060	34	4907	39916
% Cars	98	95.8	98.7	92.1	96.6	99.1	98.5	98.5	97.4	98.6	99	96	98.8	95.4	96.5	98.8	98.4	98.4	85	98.4	97.1
Trucks	55	446	28	6	535	14	30	41	1	86	12	461	15	6	494	16	41	17	6	80	1195
% Trucks	2	4.2	1.3	7.9	3.4	0.9	1.5	1.5	2.6	1.4	1	4	1.2	4.6	3.5	1.2	1.6	1.6	15	1.6	2.9

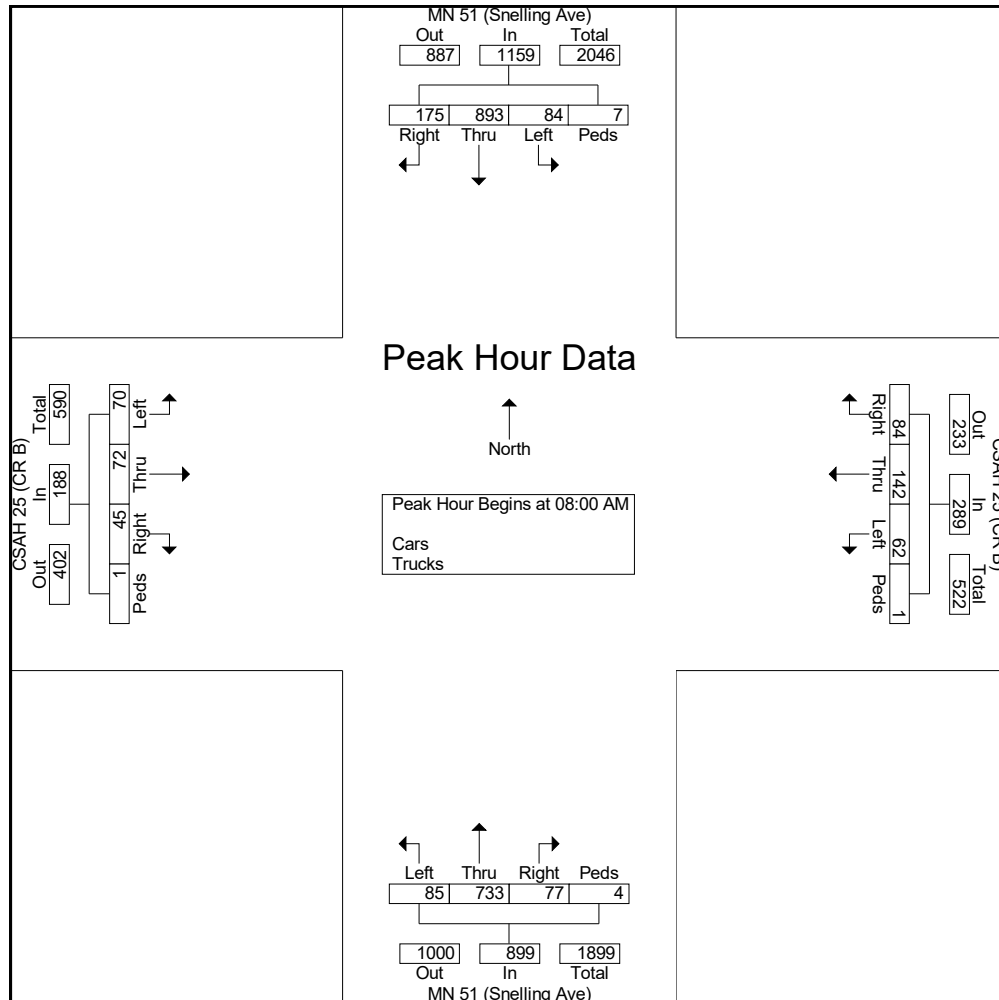
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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:00 AM																					
08:00 AM	17	210	41	3	271	18	24	22	0	64	23	201	15	0	239	12	11	13	1	37	611
08:15 AM	13	238	42	0	293	16	29	19	0	64	22	182	17	1	222	23	16	10	0	49	628
08:30 AM	22	204	52	3	281	18	43	18	0	79	17	177	20	1	215	18	19	8	0	45	620
08:45 AM	32	241	40	1	314	10	46	25	1	82	23	173	25	2	223	17	26	14	0	57	676
Total Volume	84	893	175	7	1159	62	142	84	1	289	85	733	77	4	899	70	72	45	1	188	2535
% App. Total	7.2	77	15.1	0.6		21.5	49.1	29.1	0.3		9.5	81.5	8.6	0.4		37.2	38.3	23.9	0.5		
PHF	.656	.926	.841	.583	.923	.861	.772	.840	.250	.881	.924	.912	.770	.500	.940	.761	.692	.804	.250	.825	.938



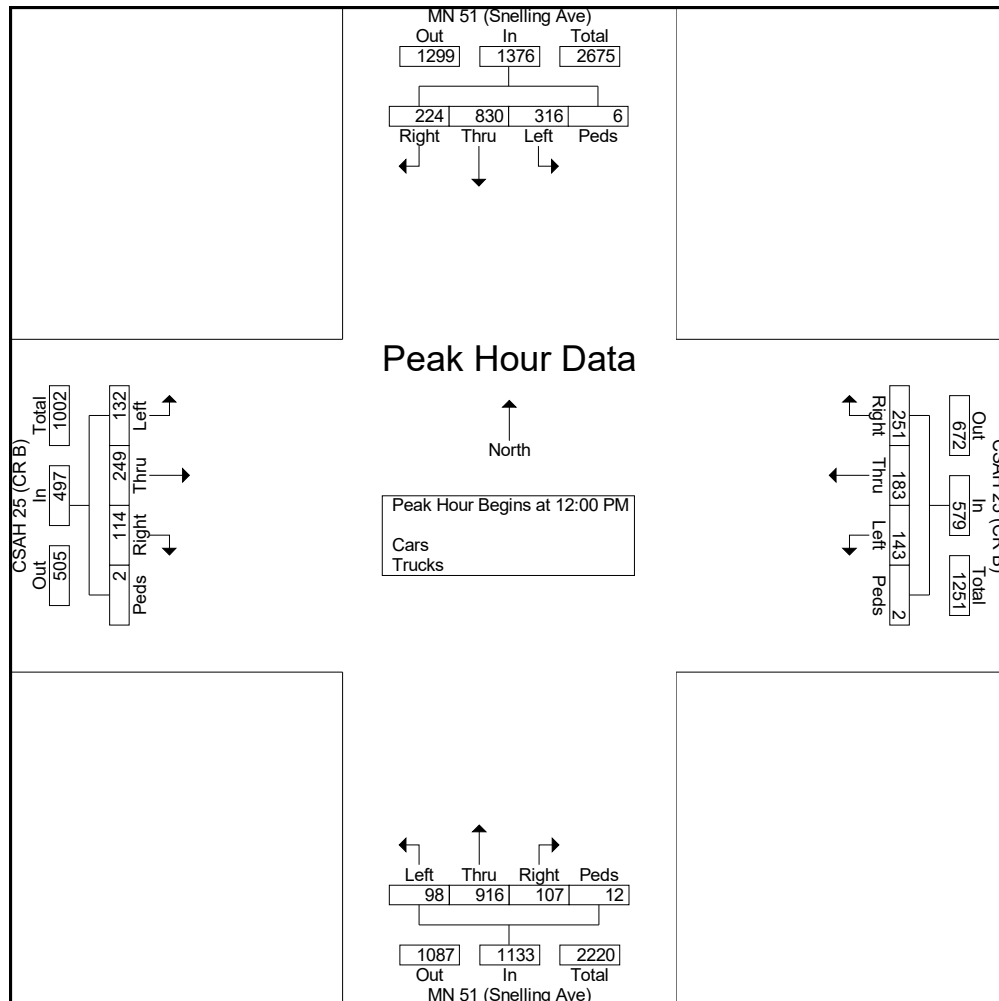
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Start Time	MN 51 (Snelling Ave) Southbound					CSAH 25 (CR B) Westbound					MN 51 (Snelling Ave) Northbound					CSAH 25 (CR B) Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:00 PM																					
12:00 PM	78	213	50	3	344	30	54	36	2	122	28	215	32	2	277	32	73	27	2	134	877
12:15 PM	84	213	53	1	351	38	45	55	0	138	25	235	26	2	288	31	54	24	0	109	886
12:30 PM	79	192	57	0	328	37	43	73	0	153	20	232	29	1	282	35	57	37	0	129	892
12:45 PM	75	212	64	2	353	38	41	87	0	166	25	234	20	7	286	34	65	26	0	125	930
Total Volume	316	830	224	6	1376	143	183	251	2	579	98	916	107	12	1133	132	249	114	2	497	3585
% App. Total	23	60.3	16.3	0.4		24.7	31.6	43.4	0.3		8.6	80.8	9.4	1.1		26.6	50.1	22.9	0.4		
PHF	.940	.974	.875	.500	.975	.941	.847	.721	.250	.872	.875	.974	.836	.429	.984	.943	.853	.770	.250	.927	.964



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Start Time	MN 51 (Snelling Ave) Southbound					CSAH 25 (CR B) Westbound					MN 51 (Snelling Ave) Northbound					CSAH 25 (CR B) 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 02:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	53	210	42	0	305	40	32	79	0	151	27	352	34	5	418	25	84	34	4	147	1021
04:45 PM	71	<b>288</b>	44	2	405	34	48	88	1	171	22	<b>353</b>	<b>36</b>	3	414	<b>35</b>	97	30	2	164	<b>1154</b>
05:00 PM	82	258	47	2	389	53	61	72	2	188	26	273	34	3	336	29	<b>105</b>	<b>37</b>	1	<b>172</b>	1085
05:15 PM	<b>86</b>	267	<b>55</b>	<b>3</b>	<b>411</b>	<b>56</b>	<b>64</b>	<b>90</b>	0	<b>210</b>	<b>47</b>	290	29	1	367	35	79	34	0	148	1136
Total Volume	292	1023	188	7	1510	183	205	329	3	720	122	1268	133	12	1535	124	365	135	7	631	4396
% App. Total	19.3	67.7	12.5	0.5		25.4	28.5	45.7	0.4		7.9	82.6	8.7	0.8		19.7	57.8	21.4	1.1		
PHF	.849	.888	.855	.583	.918	.817	.801	.914	.375	.857	.649	.898	.924	.600	.918	.886	.869	.912	.438	.917	.952

