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# Memorandum

The City of Traverse City  
Engineering Department



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TO: Timothy J. Lodge, P.E., City Engineer  
FROM: Abhishek Deora, Engineering Aide  
DATE: June 14th, 2017  
SUBJECT: East Front St(Bridge) East of Hall St Classification Count

This memo is to formalize City Engineering's initial findings and observations in regard to the class of vehicles traveling on E. Front St, East of Hall St.

City Engineering performed a 24-hour classification count of E. Front St began at 3:20 pm on June 12th, 2017 and ended at 4:20 pm on June 13th, 2017. The data was gathered using a Jamar Traffic Counter which collected traffic data, including vehicle classification, for each lane of traffic (northbound and southbound) using two parallel tubes that are placed on the road and are connected to the device. This information was then analyzed and the data for each lane compiled into one report, regardless of direction, using TraxPro. The TraxPro report organized the classification of the vehicles into groups. The report shows how many vehicles were within the specified class during one hour intervals as indicated by the report.

A total of 10,727 vehicles traveled on E. Front St during the 24-hour class count. The vehicle class count showed that 832 vehicles, 7.8 percent, traveling on E. Front St during the count were a class 6 (FHA Scheme F) or higher. This means that 7.8 percent of the vehicles traveling on the road have at least three axels (not including buses or class 14).

1335 vehicles, 12.4 percent, fell into class 14 which is for bicycles and unknown vehicles. This number suggests that many people use this section of E. Front St as a bicycling route. This number could also be partially due to vehicles parking on the tubes for the traffic counter.

## Summary:

- Number of Vehicles: 10727 vehicles
- Class 6 or Higher: 7.8%
- Class 1 to 5: 79.8%
- Class 14 (Unknown/Bicycles): 12.4%

Encl.: Detailed TraxPro Classification Report

E. Front St  
 East Of Hall St  
 Count# 27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	4	256	56	7	11	1	6	6	9	14	0	5	11	49	435
17:00	1	272	37	9	6	0	6	7	4	9	0	2	9	51	413
18:00	3	250	35	1	3	0	3	2	3	8	0	0	0	15	323
19:00	2	211	31	3	5	0	2	2	2	0	0	1	0	18	277
20:00	3	167	22	1	5	0	0	1	0	3	0	0	1	14	217
21:00	2	118	8	0	2	0	0	1	1	2	0	0	0	3	137
22:00	1	76	9	1	1	0	0	0	1	1	0	0	1	3	94
23:00	0	37	2	0	0	0	0	0	0	0	0	0	0	0	39
Total	16	1387	200	22	33	1	17	19	20	37	0	8	22	153	1935
Percent	0.8%	71.7%	10.3%	1.1%	1.7%	0.1%	0.9%	1.0%	1.0%	1.9%	0.0%	0.4%	1.1%	7.9%	
AM Peak Vol.															
PM Peak Vol.	16:00	17:00	16:00	17:00	16:00	16:00	16:00	17:00	16:00	16:00		16:00	16:00	17:00	
	4	272	56	9	11	1	6	7	9	14		5	11	51	

E. Front St  
 East Of Hall St  
 Count# 27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/13/17	0	26	3	0	0	0	0	0	0	0	0	0	0	0	29
01:00	0	15	1	0	0	0	0	0	0	0	0	0	0	0	16
02:00	0	15	1	0	0	0	0	0	0	0	0	0	0	0	16
03:00	0	9	0	0	0	1	0	0	0	0	0	0	0	0	10
04:00	0	2	3	1	0	0	0	1	0	0	0	0	0	0	7
05:00	0	17	2	1	3	0	0	0	0	0	0	0	0	1	24
06:00	1	69	19	0	10	1	0	3	1	1	0	0	0	6	111
07:00	2	167	32	3	8	1	3	4	5	10	0	0	6	22	263
08:00	0	207	43	2	9	0	3	2	8	9	1	0	4	13	301
09:00	2	205	48	6	11	0	0	9	8	6	0	1	6	27	329
10:00	3	213	44	3	12	0	2	4	10	11	1	1	6	43	353
11:00	3	262	51	12	5	2	1	19	8	5	0	2	12	64	446
12 PM	1	236	50	10	4	1	5	16	4	10	0	1	11	72	421
13:00	3	279	50	10	11	2	5	11	0	7	0	1	10	68	457
14:00	3	206	48	4	6	0	1	8	4	4	0	2	7	61	354
15:00	1	260	51	6	9	1	5	16	5	7	0	3	3	50	417
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	19	2188	446	58	88	9	25	93	53	70	2	11	65	427	3554
Percent	0.5%	61.6%	12.5%	1.6%	2.5%	0.3%	0.7%	2.6%	1.5%	2.0%	0.1%	0.3%	1.8%	12.0%	
AM Peak	10:00	11:00	11:00	11:00	10:00	11:00	07:00	11:00	10:00	10:00	08:00	11:00	11:00	11:00	
Vol.	3	262	51	12	12	2	3	19	10	11	1	2	12	64	
PM Peak	13:00	13:00	15:00	12:00	13:00	13:00	12:00	12:00	15:00	12:00		15:00	12:00	12:00	
Vol.	3	279	51	10	11	2	5	16	5	10		3	11	72	
Grand Total	35	3575	646	80	121	10	42	112	73	107	2	19	87	580	5489
Percent	0.6%	65.1%	11.8%	1.5%	2.2%	0.2%	0.8%	2.0%	1.3%	1.9%	0.0%	0.3%	1.6%	10.6%	

E. Front St  
 East Of Hall St  
 Count# 27

Site Code: 000000000000  
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Latitude: 0' 0.0000 South

B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	3	211	73	3	10	1	1	26	1	7	0	1	4	68	409
17:00	4	206	67	3	6	0	1	21	0	5	1	2	0	49	365
18:00	3	151	38	2	1	0	0	13	0	1	0	0	0	23	232
19:00	1	110	29	2	4	0	0	6	0	0	0	0	2	11	165
20:00	0	87	26	2	3	2	1	5	1	0	0	0	0	11	138
21:00	0	71	13	1	5	2	0	2	0	0	0	0	0	6	100
22:00	3	36	7	0	1	0	0	1	0	0	0	0	0	1	49
23:00	0	26	3	0	0	0	0	0	0	0	0	0	0	3	32
Total	14	898	256	13	30	5	3	74	2	13	1	3	6	172	1490
Percent	0.9%	60.3%	17.2%	0.9%	2.0%	0.3%	0.2%	5.0%	0.1%	0.9%	0.1%	0.2%	0.4%	11.5%	
AM Peak Vol.															
PM Peak Vol.	17:00	16:00	16:00	16:00	16:00	20:00	16:00	16:00	16:00	16:00	17:00	17:00	16:00	16:00	
	4	211	73	3	10	2	1	26	1	7	1	2	4	68	

E. Front St  
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Site Code: 000000000000  
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B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/13/17	0	13	5	0	0	0	0	0	0	0	0	0	0	0	18
01:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00	0	3	0	0	0	1	0	0	0	0	0	0	0	0	4
03:00	0	6	3	0	0	0	0	0	0	0	0	0	0	2	11
04:00	0	7	2	0	0	0	0	0	0	0	0	0	0	1	10
05:00	1	38	18	0	3	0	0	0	0	0	0	0	0	1	61
06:00	2	100	46	2	11	0	0	4	0	0	0	0	0	8	173
07:00	2	220	69	3	13	0	1	24	0	1	1	2	1	30	367
08:00	4	240	76	4	4	1	1	18	2	1	0	0	0	19	370
09:00	4	197	89	7	12	1	0	12	0	2	0	0	2	35	361
10:00	2	237	57	4	3	0	1	29	0	3	0	0	2	58	396
11:00	3	217	55	4	3	0	0	22	1	4	0	0	1	54	364
12 PM	1	239	47	10	7	0	1	22	1	2	0	0	7	81	418
13:00	1	208	43	4	4	0	0	27	1	3	0	2	3	65	361
14:00	2	182	35	7	7	0	2	19	0	7	1	1	1	171	435
15:00	1	241	48	5	6	1	2	24	0	3	0	0	5	58	394
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	23	2153	593	50	73	4	8	201	5	26	2	5	22	583	3748
Percent	0.6%	57.4%	15.8%	1.3%	1.9%	0.1%	0.2%	5.4%	0.1%	0.7%	0.1%	0.1%	0.6%	15.6%	
AM Peak	08:00	08:00	09:00	09:00	07:00	02:00	07:00	10:00	08:00	11:00	07:00	07:00	09:00	10:00	
Vol.	4	240	89	7	13	1	1	29	2	4	1	2	2	58	
PM Peak	14:00	15:00	15:00	12:00	12:00	15:00	14:00	13:00	12:00	14:00	14:00	13:00	12:00	14:00	
Vol.	2	241	48	10	7	1	2	27	1	7	1	2	7	171	
Grand Total	37	3051	849	63	103	9	11	275	7	39	3	8	28	755	5238
Percent	0.7%	58.2%	16.2%	1.2%	2.0%	0.2%	0.2%	5.3%	0.1%	0.7%	0.1%	0.2%	0.5%	14.4%	

E. Front St  
 East Of Hall St  
 Count# 27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	7	467	129	10	21	2	7	32	10	21	0	6	15	117	844
17:00	5	478	104	12	12	0	7	28	4	14	1	4	9	100	778
18:00	6	401	73	3	4	0	3	15	3	9	0	0	0	38	555
19:00	3	321	60	5	9	0	2	8	2	0	0	1	2	29	442
20:00	3	254	48	3	8	2	1	6	1	3	0	0	1	25	355
21:00	2	189	21	1	7	2	0	3	1	2	0	0	0	9	237
22:00	4	112	16	1	2	0	0	1	1	1	0	0	1	4	143
23:00	0	63	5	0	0	0	0	0	0	0	0	0	0	3	71
Total	30	2285	456	35	63	6	20	93	22	50	1	11	28	325	3425
Percent	0.9%	66.7%	13.3%	1.0%	1.8%	0.2%	0.6%	2.7%	0.6%	1.5%	0.0%	0.3%	0.8%	9.5%	
AM Peak Vol.															
PM Peak Vol.	16:00	17:00	16:00	17:00	16:00	16:00	16:00	16:00	16:00	16:00	17:00	16:00	16:00	16:00	
	7	478	129	12	21	2	7	32	10	21	1	6	15	117	

E. Front St  
 East Of Hall St  
 Count# 27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
06/13/17	0	39	8	0	0	0	0	0	0	0	0	0	0	0	47
01:00	0	20	1	0	0	0	0	0	0	0	0	0	0	0	21
02:00	0	18	1	0	0	1	0	0	0	0	0	0	0	0	20
03:00	0	15	3	0	0	1	0	0	0	0	0	0	0	2	21
04:00	0	9	5	1	0	0	0	1	0	0	0	0	0	1	17
05:00	1	55	20	1	6	0	0	0	0	0	0	0	0	2	85
06:00	3	169	65	2	21	1	0	7	1	1	0	0	0	14	284
07:00	4	387	101	6	21	1	4	28	5	11	1	2	7	52	630
08:00	4	447	119	6	13	1	4	20	10	10	1	0	4	32	671
09:00	6	402	137	13	23	1	0	21	8	8	0	1	8	62	690
10:00	5	450	101	7	15	0	3	33	10	14	1	1	8	101	749
11:00	6	479	106	16	8	2	1	41	9	9	0	2	13	118	810
12 PM	2	475	97	20	11	1	6	38	5	12	0	1	18	153	839
13:00	4	487	93	14	15	2	5	38	1	10	0	3	13	133	818
14:00	5	388	83	11	13	0	3	27	4	11	1	3	8	232	789
15:00	2	501	99	11	15	2	7	40	5	10	0	3	8	108	811
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	42	4341	1039	108	161	13	33	294	58	96	4	16	87	1010	7302
Percent	0.6%	59.4%	14.2%	1.5%	2.2%	0.2%	0.5%	4.0%	0.8%	1.3%	0.1%	0.2%	1.2%	13.8%	
AM Peak	09:00	11:00	09:00	11:00	09:00	11:00	07:00	11:00	08:00	10:00	07:00	07:00	11:00	11:00	
Vol.	6	479	137	16	23	2	4	41	10	14	1	2	13	118	
PM Peak	14:00	15:00	15:00	12:00	13:00	13:00	15:00	15:00	12:00	12:00	14:00	13:00	12:00	14:00	
Vol.	5	501	99	20	15	2	7	40	5	12	1	3	18	232	
Grand Total	72	6626	1495	143	224	19	53	387	80	146	5	27	115	1335	10727
Percent	0.7%	61.8%	13.9%	1.3%	2.1%	0.2%	0.5%	3.6%	0.7%	1.4%	0.0%	0.3%	1.1%	12.4%	

E Front St  
 East Of Hall St  
 Count#27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	<b>40</b>	<b>121</b>	201	33	3	<b>2</b>	1	<b>2</b>	0	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>25</b>	<b>435</b>	16-25	324
17:00	20	108	<b>203</b>	48	2	1	1	2	<b>3</b>	2	0	1	1	21	413	16-25	312
18:00	7	39	199	<b>61</b>	<b>7</b>	1	1	0	0	1	0	0	0	7	323	21-30	260
19:00	5	68	165	33	0	0	<b>2</b>	1	0	0	0	0	0	3	277	16-25	233
20:00	6	64	111	26	2	1	1	0	0	0	0	0	0	6	217	16-25	175
21:00	1	21	79	32	2	0	0	0	0	0	0	0	0	2	137	21-30	111
22:00	3	16	43	27	2	1	0	1	0	0	0	0	0	1	94	21-30	70
23:00	0	7	19	9	4	0	0	0	0	0	0	0	0	0	39	21-30	28
Total	82	444	1020	269	22	6	6	6	3	5	1	2	4	65	1935		
Percent	4.2%	22.9%	52.7%	13.9%	1.1%	0.3%	0.3%	0.3%	0.2%	0.3%	0.1%	0.1%	0.2%	3.4%			
AM Peak Vol.																	
PM Peak Vol.	16:00	16:00	17:00	18:00	18:00	16:00	19:00	16:00	17:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	435
	40	121	203	61	7	2	2	2	3	2	1	1	3	25			



E Front St  
 East Of Hall St  
 Count#27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
06/13/17	2	5	14	8	0	0	0	0	0	0	0	0	0	0	0	29	21-30	22
01:00	0	1	11	4	0	0	0	0	0	0	0	0	0	0	0	16	21-30	15
02:00	0	1	10	4	1	0	0	0	0	0	0	0	0	0	0	16	21-30	14
03:00	1	1	4	4	0	0	0	0	0	0	0	0	0	0	0	10	21-30	8
04:00	0	1	5	1	0	0	0	0	0	0	0	0	0	0	0	7	16-25	6
05:00	0	7	5	8	4	0	0	0	0	0	0	0	0	0	0	24	21-30	13
06:00	3	12	49	43	2	0	0	0	0	0	0	0	0	2	111	21-30	92	
07:00	6	15	146	80	5	2	0	0	0	1	0	0	1	7	263	21-30	226	
08:00	5	31	187	62	5	1	0	1	0	2	0	0	0	7	301	21-30	249	
09:00	15	64	196	35	5	0	2	1	0	0	0	0	0	11	329	16-25	261	
10:00	9	109	182	29	1	2	1	1	1	0	0	2	0	16	353	16-25	291	
11:00	36	177	164	21	8	2	1	5	0	0	3	0	3	26	446	16-25	343	
12 PM	44	178	148	19	2	3	1	4	2	0	2	1	0	17	421	16-25	328	
13:00	49	176	171	21	4	2	3	4	2	3	0	1	1	18	457	16-25	349	
14:00	18	176	121	15	2	0	1	0	0	0	1	1	0	19	354	16-25	298	
15:00	22	170	173	25	4	3	1	0	2	1	3	1	1	11	417	16-25	344	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	210	1124	1586	379	43	15	10	16	7	7	12	5	6	134	3554			
Percent	5.9%	31.6%	44.6%	10.7%	1.2%	0.4%	0.3%	0.5%	0.2%	0.2%	0.3%	0.1%	0.2%	3.8%				
AM Peak	11:00	11:00	09:00	07:00	11:00	07:00	09:00	11:00	10:00	08:00	11:00	10:00	11:00	11:00	11:00	11:00		
Vol.	36	177	196	80	8	2	2	5	1	2	3	2	3	26	446			
PM Peak	13:00	12:00	15:00	15:00	13:00	12:00	13:00	12:00	12:00	13:00	13:00	12:00	13:00	14:00	13:00	13:00		
Vol.	49	178	173	25	4	3	3	4	2	3	3	1	1	19	457			
Total	292	1568	2606	648	65	21	16	22	10	12	13	7	10	199	5489			
Percent	5.3%	28.6%	47.5%	11.8%	1.2%	0.4%	0.3%	0.4%	0.2%	0.2%	0.2%	0.1%	0.2%	3.6%				

15th Percentile : 16 MPH  
 50th Percentile : 21 MPH  
 85th Percentile : 25 MPH  
 95th Percentile : 29 MPH

Stats  
 10 MPH Pace Speed : 16-25 MPH  
 Number in Pace : 4188  
 Percent in Pace : 76.3%  
 Number of Vehicles > 25 MPH : 1023  
 Percent of Vehicles > 25 MPH : 18.6%  
 Mean Speed(Average) : 22 MPH

E Front St  
 East Of Hall St  
 Count#27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	<b>27</b>	<b>27</b>	<b>174</b>	<b>137</b>	<b>19</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>409</b>	21-30	312
17:00	14	19	161	<b>140</b>	13	0	0	2	1	0	1	0	1	<b>13</b>	365	21-30	302
18:00	13	2	75	103	<b>27</b>	2	1	1	0	0	0	0	<b>3</b>	<b>5</b>	232	21-30	179
19:00	3	7	62	74	11	1	0	1	0	<b>1</b>	0	0	1	4	165	21-30	136
20:00	5	11	56	54	8	0	0	0	1	0	0	0	0	3	138	21-30	110
21:00	2	2	36	45	12	1	0	0	0	0	0	0	0	2	100	21-30	81
22:00	0	1	19	24	5	0	0	0	0	0	0	0	0	0	49	21-30	43
23:00	0	1	14	12	5	0	0	0	0	0	0	0	0	0	32	21-30	26
Total	64	70	597	589	100	8	3	8	3	1	2	1	5	39	1490		
Percent	4.3%	4.7%	40.1%	39.5%	6.7%	0.5%	0.2%	0.5%	0.2%	0.1%	0.1%	0.1%	0.3%	2.6%			
AM Peak Vol.																	
PM Peak Vol.	16:00	16:00	16:00	17:00	18:00	16:00	16:00	16:00	16:00	19:00	16:00	16:00	18:00	17:00	16:00		
	27	27	174	140	27	4	2	4	1	1	1	1	3	13	409		

E Front St  
East Of Hall St  
Count#27

Site Code: 000000000000  
Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
06/13/17	0	1	9	7	1	0	0	0	0	0	0	0	0	0	0	18	21-30	16
01:00	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5	14-23	3
02:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	20-29	4
03:00	1	0	7	2	1	0	0	0	0	0	0	0	0	0	0	11	21-30	9
04:00	0	0	4	3	1	2	0	0	0	0	0	0	0	0	0	10	21-30	7
05:00	0	0	18	33	9	1	0	0	0	0	0	0	0	0	0	61	21-30	51
06:00	4	1	20	119	21	6	1	0	0	0	0	0	0	1	173	26-35	140	
07:00	9	3	80	203	50	4	3	0	0	3	1	1	1	9	367	21-30	283	
08:00	6	5	118	190	44	1	0	0	0	0	0	0	1	5	370	21-30	308	
09:00	11	23	134	156	26	1	0	1	0	2	1	0	0	6	361	21-30	291	
10:00	27	33	171	131	12	1	1	3	0	0	1	2	2	12	396	21-30	303	
11:00	17	41	182	95	8	1	0	2	1	0	0	1	1	15	364	21-30	278	
12 PM	32	66	192	84	8	0	2	3	2	2	3	1	3	20	418	21-30	277	
13:00	22	67	181	61	8	1	2	1	0	1	2	2	0	13	361	16-25	249	
14:00	145	40	171	54	5	5	1	0	0	2	1	1	0	10	435	21-30	230	
15:00	24	40	172	122	7	1	4	3	1	3	1	0	2	14	394	21-30	295	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	298	322	1462	1264	201	24	14	13	4	13	10	8	10	105	3748			
Percent	8.0%	8.6%	39.0%	33.7%	5.4%	0.6%	0.4%	0.3%	0.1%	0.3%	0.3%	0.2%	0.3%	2.8%				
AM Peak	10:00	11:00	11:00	07:00	07:00	06:00	07:00	10:00	11:00	07:00	07:00	10:00	10:00	11:00	10:00			
Vol.	27	41	182	203	50	6	3	3	1	3	1	2	2	15	396			
PM Peak	14:00	13:00	12:00	15:00	12:00	14:00	15:00	12:00	12:00	15:00	12:00	13:00	12:00	12:00	14:00			
Vol.	145	67	192	122	8	5	4	3	2	3	3	2	3	20	435			
Total	362	392	2059	1853	301	32	17	21	7	14	12	9	15	144	5238			
Percent	6.9%	7.5%	39.3%	35.4%	5.7%	0.6%	0.3%	0.4%	0.1%	0.3%	0.2%	0.2%	0.3%	2.7%				

15th Percentile : 20 MPH  
50th Percentile : 24 MPH  
85th Percentile : 29 MPH  
95th Percentile : 32 MPH

Stats  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 3929  
Percent in Pace : 75.0%  
Number of Vehicles > 25 MPH : 2425  
Percent of Vehicles > 25 MPH : 46.3%  
Mean Speed(Average) : 25 MPH

E Front St  
East Of Hall St  
Count#27

Site Code: 000000000000  
Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/12/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	<b>67</b>	<b>148</b>	<b>375</b>	170	22	<b>6</b>	<b>3</b>	<b>6</b>	1	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>37</b>	<b>844</b>	21-30	548
17:00	34	127	364	<b>188</b>	15	1	1	4	<b>4</b>	2	1	1	2	34	778	21-30	554
18:00	20	41	274	164	<b>34</b>	3	2	1	0	1	0	0	3	12	555	21-30	439
19:00	8	75	227	107	11	1	2	2	0	1	0	0	1	7	442	21-30	334
20:00	11	75	167	80	10	1	1	0	1	0	0	0	0	9	355	21-30	247
21:00	3	23	115	77	14	1	0	0	0	0	0	0	0	4	237	21-30	192
22:00	3	17	62	51	7	1	0	1	0	0	0	0	0	1	143	21-30	113
23:00	0	8	33	21	9	0	0	0	0	0	0	0	0	0	71	21-30	54
Total	146	514	1617	858	122	14	9	14	6	6	3	3	9	104	3425		
Percent	4.3%	15.0%	47.2%	25.1%	3.6%	0.4%	0.3%	0.4%	0.2%	0.2%	0.1%	0.1%	0.3%	3.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	16:00	16:00	17:00	18:00	16:00	16:00	16:00	17:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00
	67	148	375	188	34	6	3	6	4	2	2	2	3	37	844		

E Front St  
 East Of Hall St  
 Count#27

Site Code: 000000000000  
 Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
06/13/17	2	6	23	15	1	0	0	0	0	0	0	0	0	0	0	47	21-30	38
01:00	0	3	12	6	0	0	0	0	0	0	0	0	0	0	0	21	21-30	18
02:00	0	1	12	6	1	0	0	0	0	0	0	0	0	0	0	20	21-30	18
03:00	2	1	11	6	1	0	0	0	0	0	0	0	0	0	0	21	21-30	17
04:00	0	1	9	4	1	2	0	0	0	0	0	0	0	0	0	17	21-30	13
05:00	0	7	23	41	13	1	0	0	0	0	0	0	0	0	0	85	21-30	64
06:00	7	13	69	162	23	6	1	0	0	0	0	0	0	3	284	21-30	231	
07:00	15	18	226	283	55	6	3	0	0	4	1	1	2	16	630	21-30	510	
08:00	11	36	305	252	49	2	0	1	0	2	0	0	1	12	671	21-30	558	
09:00	26	87	330	191	31	1	2	2	0	2	1	0	0	17	690	21-30	522	
10:00	36	142	353	160	13	3	2	4	1	0	1	4	2	28	749	21-30	515	
11:00	53	218	346	116	16	3	1	7	1	0	3	1	4	41	810	16-25	566	
12 PM	76	244	340	103	10	3	3	7	4	2	5	2	3	37	839	16-25	587	
13:00	71	243	352	82	12	3	5	5	2	4	5	2	1	31	818	16-25	598	
14:00	163	216	292	69	7	5	2	0	0	2	2	2	0	29	789	16-25	515	
15:00	46	210	345	147	11	4	5	3	3	4	4	1	3	25	811	16-25	557	
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	508	1446	3048	1643	244	39	24	29	11	20	22	13	16	239	7302			
Percent	7.0%	19.8%	41.7%	22.5%	3.3%	0.5%	0.3%	0.4%	0.2%	0.3%	0.3%	0.2%	0.2%	3.3%				
AM Peak	11:00	11:00	10:00	07:00	07:00	06:00	07:00	11:00	10:00	07:00	11:00	10:00	11:00	11:00	11:00	11:00		
Vol.	53	218	353	283	55	6	3	7	1	4	3	4	4	41	810			
PM Peak	14:00	12:00	13:00	15:00	13:00	14:00	13:00	12:00	12:00	13:00	12:00	12:00	12:00	12:00	12:00	12:00		
Vol.	163	244	352	147	12	5	5	7	4	4	5	2	3	37	839			
Total	654	1960	4665	2501	366	53	33	43	17	26	25	16	25	343	10727			
Percent	6.1%	18.3%	43.5%	23.3%	3.4%	0.5%	0.3%	0.4%	0.2%	0.2%	0.2%	0.1%	0.2%	3.2%				

15th Percentile : 17 MPH  
 50th Percentile : 22 MPH  
 85th Percentile : 28 MPH  
 95th Percentile : 31 MPH

Stats  
 10 MPH Pace Speed : 21-30 MPH  
 Number in Pace : 7194  
 Percent in Pace : 67.1%  
 Number of Vehicles > 25 MPH : 3448  
 Percent of Vehicles > 25 MPH : 32.1%  
 Mean Speed(Average) : 23 MPH

E. Front St  
 East of Hall St  
 Count# 27

Site Code: 00000000000  
 Station ID:

Latitude: 0' 0.0000 South

Start Time	12-Jun-17 Mon	13-Jun-17 Tue	14-Jun-17 Wed	15-Jun-17 Thu	16-Jun-17 Fri	Weekday Average	17-Jun-17 Sat	18-Jun-17 Sun
12:00 AM	*	47	*	*	*	47	*	*
01:00	*	21	*	*	*	21	*	*
02:00	*	20	*	*	*	20	*	*
03:00	*	21	*	*	*	21	*	*
04:00	*	17	*	*	*	17	*	*
05:00	*	85	*	*	*	85	*	*
06:00	*	284	*	*	*	284	*	*
07:00	*	630	*	*	*	630	*	*
08:00	*	671	*	*	*	671	*	*
09:00	*	690	*	*	*	690	*	*
10:00	*	749	*	*	*	749	*	*
11:00	*	810	*	*	*	810	*	*
12:00 PM	*	839	*	*	*	839	*	*
01:00	*	818	*	*	*	818	*	*
02:00	*	789	*	*	*	789	*	*
03:00	*	811	*	*	*	811	*	*
04:00	844	*	*	*	*	844	*	*
05:00	778	*	*	*	*	778	*	*
06:00	555	*	*	*	*	555	*	*
07:00	442	*	*	*	*	442	*	*
08:00	355	*	*	*	*	355	*	*
09:00	237	*	*	*	*	237	*	*
10:00	143	*	*	*	*	143	*	*
11:00	71	*	*	*	*	71	*	*
Total	3425	7302	0	0	0		0	0
Percentage	31.9%	68.1%	0.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	11:00	-	-	-	-	-	-
Vol.	-	810	-	-	-	-	-	-
PM Peak	16:00	12:00	-	-	-	-	-	-
Vol.	844	839	-	-	-	-	-	-
Total		7302	0					