

Traffic Impact and Access Study
TECHNICAL APPENDIX
VOLUME 2 OF 2

Proposed Music Center
at Indian Hill
Old Ayer Road
Groton, Massachusetts



Prepared for:
Beals Associates, Inc.

Prepared by:
Stantec Consulting Services, Inc.

June 13, 2016

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Long Hill Road (Route 225)
 west of Farmers Row (Route 111)
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
 D A T A
 INDUSTRIES, LLC
 P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

164969 A Volume
 Site Code: 179410329

Start Time	EB		WB		Combin ed		14-Mar-16 Mon
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	7	15	3	25	10	40	
12:15	0	24	4	22	4	46	
12:30	0	30	3	32	3	62	
12:45	1	39	108	1	11	23	102
01:00	0	28	1	35	1	63	210
01:15	0	30	1	26	1	56	
01:30	0	32	0	28	0	60	
01:45	0	19	109	1	3	17	106
02:00	0	38	0	39	0	77	215
02:15	0	35	1	34	1	69	
02:30	0	28	2	53	2	81	
02:45	0	30	131	0	3	35	161
03:00	0	30	0	51	0	81	3
03:15	2	31	1	53	3	84	
03:30	2	29	0	51	2	80	
03:45	5	34	124	1	2	51	206
04:00	2	23	1	58	3	81	
04:15	6	23	0	65	6	88	
04:30	1	28	2	67	3	95	
04:45	8	23	97	0	3	83	273
05:00	14	33	5	65	19	98	20
05:15	16	33	3	59	19	92	
05:30	13	24	2	76	15	100	
05:45	26	27	117	5	15	74	274
06:00	30	22	4	82	34	104	84
06:15	48	22	10	54	58	76	
06:30	65	30	3	60	68	90	
06:45	81	25	99	12	29	66	262
07:00	76	19	21	57	97	76	253
07:15	86	17	23	35	109	52	
07:30	96	16	24	29	120	45	
07:45	75	9	61	21	89	21	142
08:00	55	6	26	24	81	30	422
08:15	62	12	15	32	77	44	
08:30	71	6	20	16	91	22	
08:45	61	7	31	18	79	18	90
09:00	36	8	34	21	70	29	328
09:15	52	5	27	19	79	24	
09:30	37	11	21	16	58	27	
09:45	36	43	67	36	118	5	61
10:00	34	16	28	10	62	26	279
10:15	39	10	19	12	58	22	
10:30	34	11	21	7	55	18	
10:45	29	4	41	22	90	14	43
11:00	35	1	23	10	58	11	226
11:15	40	3	28	2	68	5	
11:30	24	0	26	6	50	6	
11:45	27	4	8	17	94	1	19
Total	1332	993	536	1739	1868	2732	
Percent	71.3%	36.3%	28.7%	63.7%			
Day Total		2325		2275		4600	
Peak	06:45	-	02:00	-	09:00	-	05:15
Vol.	339	-	131	-	118	-	291
P.H.F.	0.883	-	0.862	-	0.819	-	0.887

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164969 A Volume
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Start Time	EB		WB		Combin ed		15-Mar-16 Tue
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	1	28	1	37	2	65	
12:15	2	36	3	39	5	75	
12:30	0	28	2	26	2	54	
12:45	0	3	25	117	1	7	23 125
01:00	0	23	1	34	1	57	
01:15	0	31	0	38	0	69	
01:30	2	30	2	42	4	72	
01:45	0	2	29	113	0	3	22 136
02:00	0	40	1	49	1	89	
02:15	0	33	1	45	1	78	
02:30	0	39	0	35	0	74	
02:45	0	0	39	151	0	2	55 184
03:00	0	26	0	54	0	80	
03:15	1	39	0	52	1	91	
03:30	1	39	0	62	1	101	
03:45	4	6	41	145	1	1	58 226
04:00	2	25	0	60	2	85	
04:15	5	29	2	65	7	94	
04:30	2	34	1	75	3	109	
04:45	4	13	32	120	4	7	62 262
05:00	15	35	3	81	18	116	
05:15	16	31	1	72	17	103	
05:30	11	26	1	79	12	105	
05:45	26	68	28	120	3	8	61 293
06:00	35	33	3	52	38	85	
06:15	55	31	9	63	64	94	
06:30	65	26	9	54	74	80	
06:45	92	247	36	126	13	34	57 226
07:00	93	21	20	42	113	281	93 352
07:15	81	20	20	42	101	62	
07:30	90	13	23	42	113	55	
07:45	86	350	14	68	28	91	50 176
08:00	63	17	22	21	85	38	
08:15	66	7	20	25	86	32	
08:30	65	13	17	35	82	48	
08:45	60	254	10	47	36	95	36 117
09:00	48	5	24	12	72	17	
09:15	43	13	21	14	64	27	
09:30	41	3	17	17	58	20	
09:45	30	162	4	25	28	90	16 59
10:00	24	3	16	16	40	19	
10:15	30	8	23	9	53	17	
10:30	30	5	30	6	60	11	
10:45	24	108	5	21	24	93	8 39
11:00	29	3	26	13	55	16	
11:15	33	1	23	9	56	10	
11:30	32	3	30	2	62	5	
11:45	36	130	0	7	23	102	4 28
Total	1343	1060	533	1871	1876	2931	
Percent	71.6%	36.2%	28.4%	63.8%			
Day Total		2403		2404		4807	
Peak	06:45	-	02:00	-	10:15	-	04:45
Vol.	356	-	151	-	103	-	294
P.H.F.	0.957	-	0.944	-	0.715	-	0.907



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Long Hill Road (Route 225)
west of Farmers Row (Route 111)
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 A Class
Site Code: 179410329

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	6	0	0	2	0	0	0	0	0	0	0	0	8
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	7	1	0	1	0	0	0	0	0	0	0	0	9
04:00	0	11	6	0	0	0	0	0	0	0	0	0	0	17
05:00	1	47	16	0	4	1	0	0	0	0	0	0	0	69
06:00	0	162	56	2	4	0	0	0	0	0	0	0	0	224
07:00	1	263	57	4	7	0	0	1	0	0	0	0	0	333
08:00	0	198	41	1	7	0	0	1	1	0	0	0	0	249
09:00	0	125	30	1	4	0	0	0	1	0	0	0	0	161
10:00	0	96	31	0	7	0	0	1	1	0	0	0	0	136
11:00	0	94	29	0	2	0	0	1	0	0	0	0	0	126
12 PM	2	82	17	1	4	0	0	0	2	0	0	0	0	108
13:00	0	81	21	0	3	1	0	1	2	0	0	0	0	109
14:00	1	97	23	2	6	0	0	0	2	0	0	0	0	131
15:00	0	94	20	2	7	0	0	1	0	0	0	0	0	124
16:00	1	77	16	0	2	0	0	1	0	0	0	0	0	97
17:00	1	92	20	1	3	0	0	0	0	0	0	0	0	117
18:00	0	85	14	0	0	0	0	0	0	0	0	0	0	99
19:00	0	54	6	0	1	0	0	0	0	0	0	0	0	61
20:00	0	27	4	0	0	0	0	0	0	0	0	0	0	31
21:00	0	55	12	0	0	0	0	0	0	0	0	0	0	67
22:00	0	31	10	0	0	0	0	0	0	0	0	0	0	41
23:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
Total	7	1791	431	14	64	2	0	7	9	0	0	0	0	2325
Percent	0.3%	77.0%	18.5%	0.6%	2.8%	0.1%	0.0%	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	05:00	07:00	07:00	07:00	07:00	05:00		07:00	08:00					07:00
Vol.	1	263	57	4	7	1		1	1					333
PM Peak	12:00	14:00	14:00	14:00	15:00	13:00		13:00	12:00					14:00
Vol.	2	97	23	2	7	1		1	2					131



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EB

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03/15/1														
6	0	2	1	0	0	0	0	0	0	0	0	0	0	3
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	5	0	0	1	0	0	0	0	0	0	0	0	6
04:00	0	9	4	0	0	0	0	0	0	0	0	0	0	13
05:00	1	48	15	0	3	0	0	0	1	0	0	0	0	68
06:00	1	192	45	3	5	1	0	0	0	0	0	0	0	247
07:00	2	288	52	4	4	0	0	0	0	0	0	0	0	350
08:00	0	213	34	2	3	0	0	1	1	0	0	0	0	254
09:00	1	125	29	2	5	0	0	0	0	0	0	0	0	162
10:00	0	85	15	0	5	1	0	1	1	0	0	0	0	108
11:00	0	98	27	1	3	1	0	0	0	0	0	0	0	130
12 PM	0	86	26	1	1	0	0	1	2	0	0	0	0	117
13:00	0	78	24	2	6	2	0	0	1	0	0	0	0	113
14:00	0	117	24	2	8	0	0	0	0	0	0	0	0	151
15:00	2	102	29	2	4	1	0	2	3	0	0	0	0	145
16:00	0	98	17	0	5	0	0	0	0	0	0	0	0	120
17:00	2	102	10	1	4	0	0	1	0	0	0	0	0	120
18:00	0	108	14	0	4	0	0	0	0	0	0	0	0	126
19:00	0	55	13	0	0	0	0	0	0	0	0	0	0	68
20:00	0	38	8	0	1	0	0	0	0	0	0	0	0	47
21:00	0	21	4	0	0	0	0	0	0	0	0	0	0	25
22:00	0	20	1	0	0	0	0	0	0	0	0	0	0	21
23:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Total	9	1898	393	20	62	6	0	6	9	0	0	0	0	2403
Percent	0.4%	79.0%	16.4%	0.8%	2.6%	0.2%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	07:00	06:00	06:00		08:00	05:00					07:00
Vol.	2	288	52	4	5	1		1	1					350
PM Peak	15:00	14:00	15:00	13:00	14:00	13:00		15:00	15:00					14:00
Vol.	2	117	29	2	8	2		2	3					151

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WB	Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
	03/14/1														
	6	0	11	0	0	0	0	0	0	0	0	0	0	0	11
	01:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	02:00	0	2	0	0	0	0	0	0	1	0	0	0	0	3
	03:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	04:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	05:00	0	12	1	0	2	0	0	0	0	0	0	0	0	15
	06:00	0	21	5	1	2	0	0	0	0	0	0	0	0	29
	07:00	0	68	15	2	2	0	0	1	1	0	0	0	0	89
	08:00	1	59	14	2	2	0	0	0	1	0	0	0	0	79
	09:00	1	76	31	0	8	0	0	1	1	0	0	0	0	118
	10:00	0	55	24	2	6	1	0	1	1	0	0	0	0	90
	11:00	0	70	19	0	3	0	0	0	2	0	0	0	0	94
	12 PM	0	80	14	1	5	2	0	0	0	0	0	0	0	102
	13:00	0	80	19	0	3	0	0	0	4	0	0	0	0	106
	14:00	0	130	21	4	5	0	0	1	0	0	0	0	0	161
	15:00	1	161	34	2	6	0	0	2	0	0	0	0	0	206
	16:00	0	212	55	0	4	0	0	1	1	0	0	0	0	273
	17:00	1	231	38	0	4	0	0	0	0	0	0	0	0	274
	18:00	0	229	30	0	2	1	0	0	0	0	0	0	0	262
	19:00	0	125	16	0	1	0	0	0	0	0	0	0	0	142
	20:00	0	78	11	0	1	0	0	0	0	0	0	0	0	90
	21:00	0	55	6	0	0	0	0	0	0	0	0	0	0	61
	22:00	0	36	7	0	0	0	0	0	0	0	0	0	0	43
	23:00	0	18	1	0	0	0	0	0	0	0	0	0	0	19
	Total	4	1816	362	14	56	4	0	7	12	0	0	0	0	2275
	Percent	0.2%	79.8%	15.9%	0.6%	2.5%	0.2%	0.0%	0.3%	0.5%	0.0%	0.0%	0.0%	0.0%	
	AM Peak	08:00	09:00	09:00	07:00	09:00	10:00		07:00	11:00					09:00
	Vol.	1	76	31	2	8	1		1	2					118
	PM Peak	15:00	17:00	16:00	14:00	15:00	12:00		15:00	13:00					17:00
	Vol.	1	231	55	4	6	2		2	4					274



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	03/15/1														
	6	0	7	0	0	0	0	0	0	0	0	0	0	0	7
	01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	04:00	0	6	0	0	1	0	0	0	0	0	0	0	0	7
	05:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
	06:00	0	25	6	1	1	0	0	0	1	0	0	0	0	34
	07:00	1	70	17	2	0	0	0	0	1	0	0	0	0	91
	08:00	0	75	14	3	2	1	0	0	0	0	0	0	0	95
	09:00	0	67	18	1	4	0	0	0	0	0	0	0	0	90
	10:00	0	61	24	1	6	0	0	1	0	0	0	0	0	93
	11:00	0	83	13	1	3	1	0	0	1	0	0	0	0	102
	12 PM	1	89	28	1	4	0	0	1	1	0	0	0	0	125
	13:00	2	106	16	1	9	0	0	1	1	0	0	0	0	136
	14:00	1	139	34	3	4	1	0	1	1	0	0	0	0	184
	15:00	1	169	45	3	4	0	0	2	2	0	0	0	0	226
	16:00	0	209	50	0	3	0	0	0	0	0	0	0	0	262
	17:00	1	244	42	0	6	0	0	0	0	0	0	0	0	293
	18:00	0	196	26	0	4	0	0	0	0	0	0	0	0	226
	19:00	0	161	15	0	0	0	0	0	0	0	0	0	0	176
	20:00	0	105	11	0	1	0	0	0	0	0	0	0	0	117
	21:00	0	54	5	0	0	0	0	0	0	0	0	0	0	59
	22:00	0	34	5	0	0	0	0	0	0	0	0	0	0	39
	23:00	0	27	1	0	0	0	0	0	0	0	0	0	0	28
	Total	7	1941	370	17	52	3	0	6	8	0	0	0	0	2404
	Percent	0.3%	80.7%	15.4%	0.7%	2.2%	0.1%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	
	AM Peak	07:00	11:00	10:00	08:00	10:00	08:00		10:00	06:00					11:00
	Vol.	1	83	24	3	6	1		1	1					102
	PM Peak	13:00	17:00	16:00	14:00	13:00	14:00		15:00	15:00					17:00
	Vol.	2	244	50	3	9	1		2	2					293



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Long Hill Road (Route 225)
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164969 A Speed
Site Code: 179410329

EB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/14/																
16	0	0	0	1	1	5	0	1	0	0	0	0	0	8	38	36
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	1	0	3	3	2	0	0	0	0	0	9	45	40
04:00	0	0	0	0	0	7	5	2	3	0	0	0	0	17	49	42
05:00	0	0	0	1	4	17	30	15	2	0	0	0	0	69	46	41
06:00	0	0	1	0	12	106	87	14	4	0	0	0	0	224	43	40
07:00	0	0	1	0	12	115	163	39	3	0	0	0	0	333	43	41
08:00	0	0	0	0	7	91	122	24	4	1	0	0	0	249	43	41
09:00	0	1	1	1	2	59	70	24	3	0	0	0	0	161	44	41
10:00	0	0	1	0	6	44	67	16	1	1	0	0	0	136	43	41
11:00	0	0	1	0	5	41	60	17	2	0	0	0	0	126	44	41
12 PM	2	2	2	7	12	31	39	13	0	0	0	0	0	108	43	38
13:00	0	0	0	4	11	42	36	15	1	0	0	0	0	109	43	39
14:00	1	0	1	3	6	50	62	8	0	0	0	0	0	131	43	39
15:00	0	0	0	1	14	37	52	19	1	0	0	0	0	124	44	40
16:00	2	0	1	0	11	26	47	7	3	0	0	0	0	97	43	39
17:00	1	0	0	0	5	44	57	9	1	0	0	0	0	117	43	40
18:00	0	1	0	1	7	33	49	8	0	0	0	0	0	99	43	40
19:00	0	0	0	0	6	31	20	3	1	0	0	0	0	61	42	39
20:00	0	0	0	1	5	12	10	3	0	0	0	0	0	31	43	38
21:00	0	0	0	0	10	35	18	2	2	0	0	0	0	67	42	38
22:00	0	0	0	0	2	9	27	2	1	0	0	0	0	41	43	41
23:00	0	0	0	0	1	3	3	1	0	0	0	0	0	8	43	39
Total	6	4	9	21	139	841	1027	244	32	2	0	0	0	2325		
%	0.3%	0.2%	0.4%	0.9%	6.0%	36.2%	44.2%	10.5%	1.4%	0.1%	0.0%	0.0%	0.0%			
AM Peak		09:00	06:00	00:00	06:00	07:00	07:00	07:00	06:00	08:00				07:00		
Vol.		1	1	1	12	115	163	39	4	1				333		
PM Peak	12:00	12:00	12:00	12:00	15:00	14:00	14:00	15:00	16:00					14:00		
Vol.	2	2	2	7	14	50	62	19	3					131		

Stats
 15th Percentile : 35 MPH
 50th Percentile : 39 MPH
 85th Percentile : 43 MPH
 95th Percentile : 47 MPH

Mean Speed(Average) : 40 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1868
 Percent in Pace : 80.3%
 Number of Vehicles > 40 MPH : 1100
 Percent of Vehicles > 40 MPH : 47.3%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Long Hill Road (Route 225)
west of Farmers Row (Route 111)
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 A Speed
Site Code: 179410329

EB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/15/16	0	0	0	0	1	2	0	0	0	0	0	0	0	3	37	35
01:00	0	0	0	0	1	1	0	0	0	0	0	0	0	2	37	35
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	1	2	2	1	0	0	0	0	0	6	44	40
04:00	0	0	0	0	2	5	3	1	2	0	0	0	0	13	49	40
05:00	0	0	0	1	6	28	24	8	1	0	0	0	0	68	43	40
06:00	1	0	1	4	27	126	76	11	1	0	0	0	0	247	42	38
07:00	0	1	0	0	34	171	131	12	0	1	0	0	0	350	42	39
08:00	0	2	0	0	17	121	100	14	0	0	0	0	0	254	42	39
09:00	1	0	1	1	7	68	70	13	1	0	0	0	0	162	43	40
10:00	1	0	0	1	10	42	39	13	2	0	0	0	0	108	43	39
11:00	0	4	4	3	9	40	58	10	2	0	0	0	0	130	43	39
12 PM	0	0	0	0	5	41	47	20	4	0	0	0	0	117	45	41
13:00	0	0	3	6	9	33	40	17	3	0	2	0	0	113	45	40
14:00	1	0	0	0	13	58	63	13	3	0	0	0	0	151	43	40
15:00	0	0	0	5	19	44	60	12	5	0	0	0	0	145	43	39
16:00	0	0	0	0	11	49	44	15	1	0	0	0	0	120	43	40
17:00	1	0	0	1	10	35	64	8	1	0	0	0	0	120	43	40
18:00	0	0	0	0	7	51	55	13	0	0	0	0	0	126	43	40
19:00	0	0	0	1	11	30	18	7	1	0	0	0	0	68	43	39
20:00	0	0	0	0	5	26	15	0	1	0	0	0	0	47	41	38
21:00	0	0	0	0	4	11	9	1	0	0	0	0	0	25	42	38
22:00	0	0	0	0	3	7	6	3	1	1	0	0	0	21	47	41
23:00	0	0	0	0	0	4	3	0	0	0	0	0	0	7	42	39
Total	5	7	9	23	212	995	927	192	29	2	2	0	0	2403		
%	0.2%	0.3%	0.4%	1.0%	8.8%	41.4%	38.6%	8.0%	1.2%	0.1%	0.1%	0.0%	0.0%			
AM Peak	06:00	11:00	11:00	06:00	07:00	07:00	07:00	08:00	04:00	07:00				07:00		
Vol.	1	4	4	4	34	171	131	14	2	1				350		
PM Peak	14:00		13:00	13:00	15:00	14:00	17:00	12:00	15:00	22:00	13:00			14:00		
Vol.	1		3	6	19	58	64	20	5	1	2			151		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 43 MPH
 95th Percentile : 46 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1922
 Percent in Pace : 80.0%
 Number of Vehicles > 40 MPH : 967
 Percent of Vehicles > 40 MPH : 40.2%



PRECISION
D A T A
INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Long Hill Road (Route 225)
west of Farmers Row (Route 111)
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 A Speed
Site Code: 179410329

WB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/14/																													
	16	0	0	0	0	0	1	1	1	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	47	42
	01:00	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	46	40
	02:00	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	36	34
	03:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	37	35	
	04:00	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	39	
	05:00	0	0	0	0	0	1	1	5	6	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	15	45	41	
	06:00	0	0	0	1	1	8	14	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	45	41	
	07:00	0	0	0	0	3	26	45	14	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	44	41	
	08:00	1	0	0	0	4	39	29	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	42	39	
	09:00	1	0	0	1	8	56	42	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	43	39	
	10:00	0	0	1	0	9	37	37	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	42	39	
	11:00	0	0	0	1	13	40	31	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	43	39	
	12 PM	0	0	0	0	13	46	36	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	42	39	
	13:00	0	0	1	0	10	44	42	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	43	39	
	14:00	0	0	0	3	12	67	60	16	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	43	40	
	15:00	0	0	0	1	11	82	87	23	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206	43	40	
	16:00	0	0	0	0	8	110	130	23	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	273	43	40	
	17:00	1	0	0	3	19	95	131	22	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274	43	40	
	18:00	2	0	2	2	15	103	118	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262	43	39	
	19:00	0	0	0	1	16	63	47	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	43	39	
	20:00	0	0	0	2	8	44	30	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	42	39	
	21:00	0	0	0	0	9	25	20	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	43	39	
	22:00	0	0	0	1	5	15	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43	39	
	23:00	0	0	1	0	0	5	10	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	44	41	
	Total	5	0	5	16	170	915	941	198	19	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2275			
	%	0.2%	0.0%	0.2%	0.7%	7.5%	40.2%	41.4%	8.7%	0.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM	Peak	08:00		10:00	06:00	11:00	09:00	07:00	07:00	06:00	05:00																09:00		
	Vol.	1		1	1	13	56	45	14	2	1																118		
PM	Peak	18:00		18:00	14:00	17:00	16:00	17:00	15:00	17:00	16:00																17:00		
	Vol.	2		2	3	19	110	131	23	3	2																274		

Stats

15th Percentile : 34 MPH
 50th Percentile : 39 MPH
 85th Percentile : 43 MPH
 95th Percentile : 46 MPH

Mean Speed(Average) : 40 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1856
 Percent in Pace : 81.6%
 Number of Vehicles > 40 MPH : 976
 Percent of Vehicles > 40 MPH : 42.9%



PRECISION
D A T A
INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Long Hill Road (Route 225)
west of Farmers Row (Route 111)
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 A Speed
Site Code: 179410329

WB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/15/																	
16	0	0	0	0	2	3	2	0	0	0	0	0	0	0	7	41	37
01:00	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3	41	39
02:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	42	40
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	33	32
04:00	0	0	0	0	3	2	1	1	0	0	0	0	0	0	7	43	37
05:00	0	0	0	0	0	4	3	0	0	1	0	0	0	0	8	43	41
06:00	0	0	0	0	3	14	15	1	1	0	0	0	0	0	34	42	39
07:00	0	0	0	0	8	34	41	7	1	0	0	0	0	0	91	43	40
08:00	0	0	0	1	10	34	42	8	0	0	0	0	0	0	95	43	39
09:00	0	0	0	1	9	41	34	5	0	0	0	0	0	0	90	42	39
10:00	1	2	2	1	8	38	34	6	1	0	0	0	0	0	93	42	38
11:00	0	0	2	6	8	32	36	16	2	0	0	0	0	0	102	44	39
12 PM	1	0	0	0	7	43	57	15	0	1	1	0	0	0	125	43	40
13:00	1	0	0	2	13	41	63	16	0	0	0	0	0	0	136	43	40
14:00	0	0	0	0	15	76	75	18	0	0	0	0	0	0	184	43	40
15:00	0	0	0	7	7	80	105	26	1	0	0	0	0	0	226	43	40
16:00	0	0	0	1	7	108	113	29	3	1	0	0	0	0	262	43	40
17:00	0	0	1	2	9	104	138	37	2	0	0	0	0	0	293	43	40
18:00	0	0	0	2	15	91	103	15	0	0	0	0	0	0	226	43	40
19:00	0	0	1	5	22	80	57	9	2	0	0	0	0	0	176	42	38
20:00	0	0	0	2	12	56	40	6	1	0	0	0	0	0	117	42	39
21:00	0	0	0	2	4	23	23	5	1	1	0	0	0	0	59	43	40
22:00	0	0	0	0	5	22	7	3	2	0	0	0	0	0	39	43	39
23:00	0	0	0	0	4	7	12	5	0	0	0	0	0	0	28	44	40
Total	3	2	6	32	172	936	1003	228	17	4	1	0	0	0	2404		
%	0.1%	0.1%	0.2%	1.3%	7.2%	38.9%	41.7%	9.5%	0.7%	0.2%	0.0%	0.0%	0.0%				
AM Peak	10:00	10:00	10:00	11:00	08:00	09:00	08:00	11:00	11:00	05:00					11:00		
Vol.	1	2	2	6	10	41	42	16	2	1					102		
PM Peak	12:00		17:00	15:00	19:00	16:00	17:00	17:00	16:00	12:00	12:00				17:00		
Vol.	1		1	7	22	108	138	37	3	1	1				293		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 39 MPH
 85th Percentile : 43 MPH
 95th Percentile : 46 MPH

Mean Speed(Average) : 40 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1939
 Percent in Pace : 80.7%
 Number of Vehicles > 40 MPH : 1052
 Percent of Vehicles > 40 MPH : 43.8%

Farmers Row (Route 111)
 south of Peabody Street
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
 D A T A
 INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

164969 B Volume
 Site Code: 179410329

Start Time	NB		SB		Combin ed		14-Mar-16 Mon
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	1	32	2	37	3	69	
12:15	6	31	1	32	7	63	
12:30	1	32	0	33	1	65	
12:45	2	22	117	7	10	31	133
01:00	1	41	1	28	2	69	250
01:15	1	31	1	35	2	66	
01:30	1	35	1	25	2	60	
01:45	0	30	137	2	5	30	118
02:00	1	50	0	32	1	82	255
02:15	0	34	2	39	2	73	
02:30	1	48	0	30	1	78	
02:45	1	52	184	2	4	24	125
03:00	2	58	2	55	4	113	309
03:15	3	44	3	43	6	87	
03:30	0	54	3	46	3	100	
03:45	0	75	231	1	9	39	183
04:00	3	75	1	50	4	125	414
04:15	1	70	6	39	7	109	
04:30	0	45	4	40	4	85	
04:45	0	77	267	6	17	26	155
05:00	7	76	9	41	16	117	422
05:15	8	99	13	46	21	145	
05:30	9	88	14	35	23	123	
05:45	13	43	306	15	51	35	157
06:00	15	37	37	26	37	41	88
06:15	27	46	31	21	58	67	463
06:30	34	32	63	21	97	53	
06:45	36	41	156	48	168	27	106
07:00	33	37	56	27	89	64	280
07:15	42	29	63	20	105	49	262
07:30	44	24	59	17	103	41	
07:45	34	21	111	78	256	23	87
08:00	43	12	70	11	113	23	409
08:15	44	20	46	14	90	34	198
08:30	33	7	44	15	77	22	
08:45	36	15	54	43	203	15	55
09:00	32	16	33	5	65	21	359
09:15	28	6	46	12	74	18	109
09:30	33	9	37	12	70	21	
09:45	39	5	36	44	160	10	39
10:00	30	12	24	5	54	17	292
10:15	22	10	28	7	50	17	75
10:30	35	5	27	1	62	6	
10:45	23	9	36	24	103	7	20
11:00	23	8	23	9	46	17	213
11:15	42	8	31	6	73	14	48
11:30	34	4	41	2	75	6	242
11:45	25	3	23	23	118	2	19
Total	849	1658	1104	1197	1953	2855	42
Percent	43.5%	58.1%	56.5%	41.9%			
Day Total		2507		2301		4808	
Peak	07:30	-	04:45	-	07:15	-	03:00
Vol.	165	-	340	-	270	-	183
P.H.F.	0.938	-	0.859	-	0.865	-	0.832
							0.958
							0.841

Farmers Row (Route 111)
 south of Peabody Street
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
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164969 B Volume
 Site Code: 179410329

Start Time	NB		SB		Combin ed		15-Mar-16 Tue						
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	3	37	0	34	3	71							
12:15	3	32	4	34	7	66							
12:30	2	35	0	38	2	73							
12:45	0	8 25	129	2 6	34	140	2 14 59 269						
01:00	2	34	1	23	3	57							
01:15	1	40	0	33	1	73							
01:30	1	39	1	17	2	56							
01:45	3	7 37	150	1 3	28	101	4 10 65 251						
02:00	0	37	2	46	2	83							
02:15	0	43	0	40	0	83							
02:30	0	42	1	40	1	82							
02:45	1	1 45	167	1 4	42	168	2 5 87 335						
03:00	1	65	3	38	4	103							
03:15	2	55	3	46	5	101							
03:30	1	64	2	62	3	126							
03:45	3	7 79	263	1 9	41	187	4 16 120 450						
04:00	1	62	1	48	2	110							
04:15	1	64	8	50	9	114							
04:30	1	78	3	57	4	135							
04:45	2	5 69	273	12 24	36	191	14 29 105 464						
05:00	7	79	6	46	13	125							
05:15	8	91	15	48	23	139							
05:30	8	91	23	49	31	140							
05:45	8	31 55	316	21 65	45	188	29 96 100 504						
06:00	17	42	23	27	40	69							
06:15	36	53	37	32	73	85							
06:30	26	31	50	26	76	57							
06:45	28	107 42	168	43 153	21	106	71 260 63 274						
07:00	38	41	49	20	87	61							
07:15	32	35	70	16	102	51							
07:30	50	22	65	16	115	38							
07:45	40	160 16	114	80 264	7	59	120 424 23 173						
08:00	50	9	69	11	119	20							
08:15	41	27	60	16	101	43							
08:30	38	10	48	18	86	28							
08:45	39	168 18	64	55 232	13	58	94 400 31 122						
09:00	36	18	44	13	80	31							
09:15	23	9	37	11	60	20							
09:30	33	13	29	12	62	25							
09:45	37	129 7	47	36 146	9	45	73 275 16 92						
10:00	27	10	34	6	61	16							
10:15	21	6	23	7	44	13							
10:30	41	4	18	6	59	10							
10:45	37	126 4	24	30 105	4	23	67 231 8 47						
11:00	26	8	22	8	48	16							
11:15	29	3	34	4	63	7							
11:30	27	3	20	4	47	7							
11:45	29	111 1	15	33 109	1	17	62 220 2 32						
Total	860	1730	1120	1283	1980	3013							
Percent	43.4%	57.4%	56.6%	42.6%									
Day Total		2590		2403		4993							
Peak	07:30	-	04:45	-	07:15	-	04:45	-	-	-			
Vol.	181	-	330	-	284	-	201	-	456	-	509	-	-
P.H.F.	0.905	-	0.907	-	0.888	-	0.810	-	0.950	-	0.909	-	-



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Farmers Row (Route 111)
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 B Class
Site Code: 179410329

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	8	0	1	1	0	0	0	0	0	0	0	0	10
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	1	1	0	1	0	0	0	0	0	0	0	0	3
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
05:00	0	26	8	1	1	0	0	0	1	0	0	0	0	37
06:00	2	76	23	0	8	1	0	0	2	0	0	0	0	112
07:00	0	123	23	2	3	1	0	1	0	0	0	0	0	153
08:00	3	110	28	2	13	0	0	0	0	0	0	0	0	156
09:00	2	85	34	2	7	1	0	0	1	0	0	0	0	132
10:00	0	74	24	3	9	0	0	0	0	0	0	0	0	110
11:00	0	92	25	1	5	0	0	0	1	0	0	0	0	124
12 PM	1	86	23	2	3	1	0	1	0	0	0	0	0	117
13:00	0	103	21	1	9	0	0	2	1	0	0	0	0	137
14:00	0	135	38	2	4	1	1	2	1	0	0	0	0	184
15:00	2	167	45	1	12	0	0	1	3	0	0	0	0	231
16:00	3	196	54	2	8	0	0	1	3	0	0	0	0	267
17:00	1	252	48	1	4	0	0	0	0	0	0	0	0	306
18:00	0	132	17	1	3	1	0	0	2	0	0	0	0	156
19:00	0	101	8	0	1	0	0	0	1	0	0	0	0	111
20:00	0	48	5	0	1	0	0	0	0	0	0	0	0	54
21:00	0	33	3	0	0	0	0	0	0	0	0	0	0	36
22:00	0	30	6	0	0	0	0	0	0	0	0	0	0	36
23:00	0	19	4	0	0	0	0	0	0	0	0	0	0	23
Total	14	1908	439	22	93	6	1	8	16	0	0	0	0	2507
Percent	0.6%	76.1%	17.5%	0.9%	3.7%	0.2%	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	09:00	10:00	08:00	06:00		07:00	06:00					08:00
Vol.	3	123	34	3	13	1		1	2					156
PM Peak	16:00	17:00	16:00	12:00	15:00	12:00	14:00	13:00	15:00					17:00
Vol.	3	252	54	2	12	1	1	2	3					306



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Farmers Row (Route 111)
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 B Class
Site Code: 179410329

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	7	1	0	0	0	0	0	0	0	0	0	0	8
01:00	0	5	1	0	0	1	0	0	0	0	0	0	0	7
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	3	1	0	1	0	0	0	0	0	0	0	0	5
05:00	0	24	6	1	0	0	0	0	0	0	0	0	0	31
06:00	0	78	21	2	4	0	0	1	1	0	0	0	0	107
07:00	0	132	21	1	2	2	0	0	2	0	0	0	0	160
08:00	1	118	41	3	5	0	0	0	0	0	0	0	0	168
09:00	0	95	24	0	7	2	0	1	0	0	0	0	0	129
10:00	0	93	25	2	6	0	0	0	0	0	0	0	0	126
11:00	1	78	23	1	6	1	0	1	0	0	0	0	0	111
12 PM	0	102	20	2	3	0	0	2	0	0	0	0	0	129
13:00	0	109	27	3	7	1	0	1	2	0	0	0	0	150
14:00	0	132	20	3	6	0	0	2	4	0	0	0	0	167
15:00	3	208	43	0	6	1	0	0	2	0	0	0	0	263
16:00	4	219	46	0	3	1	0	0	0	0	0	0	0	273
17:00	2	258	50	0	5	0	0	0	1	0	0	0	0	316
18:00	0	146	16	1	5	0	0	0	0	0	0	0	0	168
19:00	0	99	11	0	0	1	0	1	2	0	0	0	0	114
20:00	1	53	8	0	2	0	0	0	0	0	0	0	0	64
21:00	0	41	5	0	1	0	0	0	0	0	0	0	0	47
22:00	0	19	5	0	0	0	0	0	0	0	0	0	0	24
23:00	0	14	1	0	0	0	0	0	0	0	0	0	0	15
Total	12	2041	416	19	69	10	0	9	14	0	0	0	0	2590
Percent	0.5%	78.8%	16.1%	0.7%	2.7%	0.4%	0.0%	0.3%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	08:00	08:00	09:00	07:00		06:00	07:00					08:00
Vol.	1	132	41	3	7	2		1	2					168
PM Peak	16:00	17:00	17:00	13:00	13:00	13:00		12:00	14:00					17:00
Vol.	4	258	50	3	7	1		2	4					316

Farmers Row (Route 111)
 south of Peabody Street
 City, State: Groton, MA
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164969 B Class
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	10	0	0	0	0	0	0	0	0	0	0	0	10
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	0	0	2	0	0	0	0	0	0	0	0	4
03:00	0	7	0	0	2	0	0	0	0	0	0	0	0	9
04:00	0	10	3	0	3	1	0	0	0	0	0	0	0	17
05:00	0	35	9	0	6	1	0	0	0	0	0	0	0	51
06:00	0	112	34	5	16	0	0	1	0	0	0	0	0	168
07:00	0	196	40	2	18	0	0	0	0	0	0	0	0	256
08:00	2	132	46	3	18	0	0	0	2	0	0	0	0	203
09:00	1	105	36	1	15	0	0	1	1	0	0	0	0	160
10:00	0	69	24	0	9	0	0	1	0	0	0	0	0	103
11:00	2	74	25	3	11	0	0	0	3	0	0	0	0	118
12 PM	2	84	27	3	15	0	0	0	2	0	0	0	0	133
13:00	0	74	23	2	15	1	0	2	1	0	0	0	0	118
14:00	0	89	24	4	6	0	0	1	1	0	0	0	0	125
15:00	1	124	38	1	14	1	0	3	1	0	0	0	0	183
16:00	4	102	39	0	10	0	0	0	0	0	0	0	0	155
17:00	3	116	31	0	5	1	0	0	1	0	0	0	0	157
18:00	1	86	15	0	3	0	0	0	1	0	0	0	0	106
19:00	0	66	14	0	7	0	0	0	0	0	0	0	0	87
20:00	0	49	5	0	0	1	0	0	0	0	0	0	0	55
21:00	0	34	4	0	1	0	0	0	0	0	0	0	0	39
22:00	0	17	3	0	0	0	0	0	0	0	0	0	0	20
23:00	0	13	5	0	1	0	0	0	0	0	0	0	0	19
Total	16	1610	446	24	177	6	0	9	13	0	0	0	0	2301
Percent	0.7%	70.0%	19.4%	1.0%	7.7%	0.3%	0.0%	0.4%	0.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	08:00	06:00	07:00	04:00		06:00	11:00					07:00
Vol.	2	196	46	5	18	1		1	3					256
PM Peak	16:00	15:00	16:00	14:00	12:00	13:00		15:00	12:00					15:00
Vol.	4	124	39	4	15	1		3	2					183

Farmers Row (Route 111)
 south of Peabody Street
 City, State: Groton, MA
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164969 B Class
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	4	0	1	1	0	0	0	0	0	0	0	0	6
01:00	0	2	0	0	1	0	0	0	0	0	0	0	0	3
02:00	0	2	0	2	0	0	0	0	0	0	0	0	0	4
03:00	0	5	0	0	4	0	0	0	0	0	0	0	0	9
04:00	0	16	5	0	3	0	0	0	0	0	0	0	0	24
05:00	0	43	12	1	8	0	0	0	1	0	0	0	0	65
06:00	2	111	30	1	8	1	0	0	0	0	0	0	0	153
07:00	0	211	34	6	12	0	0	0	1	0	0	0	0	264
08:00	1	164	50	2	13	1	0	0	1	0	0	0	0	232
09:00	2	94	31	2	13	1	0	1	2	0	0	0	0	146
10:00	2	65	25	0	9	3	0	0	1	0	0	0	0	105
11:00	0	61	24	2	20	1	0	0	1	0	0	0	0	109
12 PM	2	90	28	5	14	1	0	0	0	0	0	0	0	140
13:00	0	65	28	0	6	1	0	0	1	0	0	0	0	101
14:00	2	118	35	1	11	0	0	1	0	0	0	0	0	168
15:00	2	114	47	2	17	2	0	1	2	0	0	0	0	187
16:00	5	139	33	1	11	0	0	1	1	0	0	0	0	191
17:00	1	148	33	1	5	0	0	0	0	0	0	0	0	188
18:00	0	93	10	0	2	1	0	0	0	0	0	0	0	106
19:00	0	53	6	0	0	0	0	0	0	0	0	0	0	59
20:00	1	47	8	0	2	0	0	0	0	0	0	0	0	58
21:00	0	38	5	0	2	0	0	0	0	0	0	0	0	45
22:00	0	17	5	0	1	0	0	0	0	0	0	0	0	23
23:00	0	15	2	0	0	0	0	0	0	0	0	0	0	17
Total	20	1715	451	27	163	12	0	4	11	0	0	0	0	2403
Percent	0.8%	71.4%	18.8%	1.1%	6.8%	0.5%	0.0%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	06:00	07:00	08:00	07:00	11:00	10:00		09:00	09:00					07:00
Vol.	2	211	50	6	20	3		1	2					264
PM Peak	16:00	17:00	15:00	12:00	15:00	15:00		14:00	15:00					16:00
Vol.	5	148	47	5	17	2		1	2					191



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Farmers Row (Route 111)
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 B Speed
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/14/																	
16		0	0	0	0	0	3	7	0	0	0	0	0	0	10	42	40
01:00		0	0	0	0	0	1	2	0	0	0	0	0	0	3	42	40
02:00		0	0	0	1	2	0	0	0	0	0	0	0	0	3	32	30
03:00		0	0	0	0	1	2	2	0	0	0	0	0	0	5	42	38
04:00		0	0	0	2	1	1	0	0	0	0	0	0	0	4	36	31
05:00		0	0	0	0	7	20	8	2	0	0	0	0	0	37	41	38
06:00		2	0	3	2	15	62	24	4	0	0	0	0	0	112	41	37
07:00		3	0	3	11	32	69	29	6	0	0	0	0	0	153	41	36
08:00		4	2	8	26	57	50	9	0	0	0	0	0	0	156	37	32
09:00		0	0	4	25	47	41	14	1	0	0	0	0	0	132	38	33
10:00		0	0	1	9	37	43	16	4	0	0	0	0	0	110	40	35
11:00		0	0	2	16	40	50	15	0	0	1	0	0	0	124	38	35
12 PM		0	0	5	17	38	45	12	0	0	0	0	0	0	117	38	34
13:00		0	1	11	19	38	50	15	3	0	0	0	0	0	137	38	34
14:00		0	0	4	20	53	78	24	5	0	0	0	0	0	184	39	35
15:00		3	1	2	11	52	118	39	5	0	0	0	0	0	231	40	36
16:00		1	0	0	7	83	118	54	3	1	0	0	0	0	267	40	36
17:00		1	0	0	41	94	127	38	5	0	0	0	0	0	306	38	35
18:00		0	0	1	17	50	63	22	2	0	0	0	0	1	156	39	35
19:00		0	0	2	4	35	51	18	1	0	0	0	0	0	111	39	36
20:00		0	0	0	2	15	27	9	1	0	0	0	0	0	54	40	36
21:00		0	0	1	0	9	21	5	0	0	0	0	0	0	36	38	36
22:00		0	0	0	1	7	16	10	2	0	0	0	0	0	36	42	38
23:00		0	0	0	2	3	10	7	0	1	0	0	0	0	23	42	38
Total		14	4	47	233	716	1066	379	44	2	1	0	0	1	2507		
%		0.6%	0.2%	1.9%	9.3%	28.6%	42.5%	15.1%	1.8%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak		08:00	08:00	08:00	08:00	08:00	07:00	07:00	07:00		11:00				08:00		
Vol.		4	2	8	26	57	69	29	6		1				156		
PM Peak		15:00	13:00	13:00	17:00	17:00	17:00	16:00	14:00	16:00				18:00	17:00		
Vol.		3	1	11	41	94	127	54	5	1				1	306		

Stats
 15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 1782
 Percent in Pace : 71.1%
 Number of Vehicles > 35 MPH : 1280
 Percent of Vehicles > 35 MPH : 51.0%



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164969 B Speed
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/15/																	
16		0	0	0	0	1	2	5	0	0	0	0	0	0	8	42	40
01:00		0	0	0	1	0	2	3	1	0	0	0	0	0	7	43	39
02:00		0	0	0	0	0	0	1	0	0	0	0	0	0	1	43	42
03:00		0	0	0	0	1	3	3	0	0	0	0	0	0	7	42	38
04:00		0	0	0	0	1	1	3	0	0	0	0	0	0	5	42	39
05:00		0	0	0	0	14	9	8	0	0	0	0	0	0	31	41	36
06:00		0	1	3	3	35	51	13	1	0	0	0	0	0	107	38	35
07:00		3	4	3	3	27	93	23	4	0	0	0	0	0	160	39	36
08:00		3	3	7	32	54	57	12	0	0	0	0	0	0	168	37	32
09:00		0	3	5	20	41	46	14	0	0	0	0	0	0	129	38	33
10:00		0	0	0	12	25	63	20	5	1	0	0	0	0	126	40	36
11:00		1	2	3	14	29	50	12	0	0	0	0	0	0	111	38	34
12 PM		0	0	5	26	36	42	19	1	0	0	0	0	0	129	39	34
13:00		0	1	6	24	40	64	14	1	0	0	0	0	0	150	38	34
14:00		0	2	2	5	45	75	34	4	0	0	0	0	0	167	40	36
15:00		3	0	7	19	51	119	60	3	1	0	0	0	0	263	41	36
16:00		1	2	6	20	70	121	50	3	0	0	0	0	0	273	40	35
17:00		2	0	8	28	111	124	41	2	0	0	0	0	0	316	38	35
18:00		0	0	4	14	41	81	25	3	0	0	0	0	0	168	39	36
19:00		0	0	1	7	40	44	19	3	0	0	0	0	0	114	40	36
20:00		0	0	0	1	27	25	9	1	1	0	0	0	0	64	39	36
21:00		0	0	0	2	4	27	14	0	0	0	0	0	0	47	41	38
22:00		0	0	0	0	4	16	3	1	0	0	0	0	0	24	39	37
23:00		0	0	0	1	2	6	4	1	1	0	0	0	0	15	43	39
Total		13	18	60	232	699	1121	409	34	4	0	0	0	0	2590		
%		0.5%	0.7%	2.3%	9.0%	27.0%	43.3%	15.8%	1.3%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	08:00	08:00	08:00	07:00	07:00	10:00	10:00						08:00		
Vol.	3	4	7	32	54	93	23	5	1						168		
PM Peak	15:00	14:00	17:00	17:00	17:00	17:00	15:00	14:00	15:00						17:00		
Vol.	3	2	8	28	111	124	60	4	1						316		

Stats
 15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 1820
 Percent in Pace : 70.3%
 Number of Vehicles > 35 MPH : 1344
 Percent of Vehicles > 35 MPH : 51.9%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Farmers Row (Route 111)
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 B Speed
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/14/														9999		
16	0	0	1	1	1	4	3	0	0	0	0	0	0	10	41	35
01:00	0	0	0	0	1	2	1	1	0	0	0	0	0	5	45	39
02:00	0	0	1	0	2	0	0	1	0	0	0	0	0	4	46	33
03:00	0	0	0	0	2	3	3	1	0	0	0	0	0	9	43	39
04:00	0	0	2	0	3	5	6	1	0	0	0	0	0	17	42	37
05:00	0	0	0	0	4	24	20	1	1	1	0	0	0	51	42	39
06:00	0	0	0	3	11	82	62	9	1	0	0	0	0	168	42	39
07:00	0	1	5	3	33	100	89	24	1	0	0	0	0	256	43	39
08:00	0	0	10	40	68	61	21	2	0	1	0	0	0	203	38	33
09:00	0	0	21	30	37	43	29	0	0	0	0	0	0	160	39	33
10:00	0	0	1	10	24	48	17	3	0	0	0	0	0	103	40	36
11:00	2	3	9	15	26	47	13	3	0	0	0	0	0	118	38	33
12 PM	0	2	14	29	36	34	15	3	0	0	0	0	0	133	38	32
13:00	0	0	12	25	34	29	12	5	1	0	0	0	0	118	39	33
14:00	0	2	2	9	17	46	37	10	1	0	1	0	0	125	43	38
15:00	1	0	9	14	36	71	41	10	1	0	0	0	0	183	41	36
16:00	3	0	1	9	17	79	39	7	0	0	0	0	0	155	41	37
17:00	2	0	10	17	36	61	25	6	0	0	0	0	0	157	40	35
18:00	0	0	0	16	29	40	17	4	0	0	0	0	0	106	40	35
19:00	1	0	0	4	24	44	12	1	1	0	0	0	0	87	39	36
20:00	0	1	0	3	14	27	9	1	0	0	0	0	0	55	39	36
21:00	0	0	0	8	7	17	4	2	1	0	0	0	0	39	40	35
22:00	0	0	1	4	4	6	4	1	0	0	0	0	0	20	41	35
23:00	0	0	0	0	1	10	6	2	0	0	0	0	0	19	43	39
Total	9	9	99	240	467	883	485	98	8	2	1	0	0	2301		
%	0.4%	0.4%	4.3%	10.4%	20.3%	38.4%	21.1%	4.3%	0.3%	0.1%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	09:00	08:00	08:00	07:00	07:00	07:00	05:00	05:00				07:00		
Vol.	2	3	21	40	68	100	89	24	1	1				256		
PM Peak	16:00	12:00	12:00	12:00	12:00	16:00	15:00	14:00	13:00		14:00			15:00		
Vol.	3	2	14	29	36	79	41	10	1		1			183		

Stats
 15th Percentile : 28 MPH
 50th Percentile : 35 MPH
 85th Percentile : 41 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1368
 Percent in Pace : 59.5%
 Number of Vehicles > 35 MPH : 1300
 Percent of Vehicles > 35 MPH : 56.5%



PRECISION
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INDUSTRIES, LLC

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Farmers Row (Route 111)
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 B Speed
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/15/																
16	0	0	0	0	0	4	2	0	0	0	0	0	0	6	41	39
01:00	0	0	0	0	0	3	0	0	0	0	0	0	0	3	38	37
02:00	0	0	0	0	0	2	2	0	0	0	0	0	0	4	42	40
03:00	0	0	0	0	3	2	3	0	1	0	0	0	0	9	43	39
04:00	0	1	0	0	3	8	11	1	0	0	0	0	0	24	42	38
05:00	0	0	0	2	10	37	14	2	0	0	0	0	0	65	41	37
06:00	2	0	1	2	15	75	52	5	0	1	0	0	0	153	42	38
07:00	0	0	1	16	41	112	76	18	0	0	0	0	0	264	42	38
08:00	0	0	15	50	63	63	37	4	0	0	0	0	0	232	39	33
09:00	1	0	13	30	47	33	22	0	0	0	0	0	0	146	39	33
10:00	2	3	4	11	17	38	23	6	1	0	0	0	0	105	42	35
11:00	0	0	3	7	26	43	20	9	1	0	0	0	0	109	42	37
12 PM	0	1	9	30	32	40	22	6	0	0	0	0	0	140	40	34
13:00	0	0	7	11	28	32	17	6	0	0	0	0	0	101	41	35
14:00	2	0	3	7	27	69	48	11	1	0	0	0	0	168	42	37
15:00	2	0	5	21	44	65	35	13	1	1	0	0	0	187	42	36
16:00	3	0	3	11	35	75	54	7	3	0	0	0	0	191	42	37
17:00	0	0	5	26	43	71	34	8	1	0	0	0	0	188	41	35
18:00	0	0	8	11	23	32	26	5	1	0	0	0	0	106	42	36
19:00	0	1	0	6	7	30	13	2	0	0	0	0	0	59	41	36
20:00	1	0	1	1	9	32	11	3	0	0	0	0	0	58	41	37
21:00	0	0	1	9	5	16	11	3	0	0	0	0	0	45	42	36
22:00	0	0	0	2	4	11	4	2	0	0	0	0	0	23	42	37
23:00	0	0	0	0	3	5	7	0	2	0	0	0	0	17	43	40
Total	13	6	79	253	485	898	544	111	12	2	0	0	0	2403		
%	0.5%	0.2%	3.3%	10.5%	20.2%	37.4%	22.6%	4.6%	0.5%	0.1%	0.0%	0.0%	0.0%			
AM Peak	06:00	10:00	08:00	08:00	08:00	07:00	07:00	07:00	03:00	06:00				07:00		
Vol.	2	3	15	50	63	112	76	18	1	1				264		
PM Peak	16:00	12:00	12:00	12:00	15:00	16:00	16:00	15:00	16:00	15:00				16:00		
Vol.	3	1	9	30	44	75	54	13	3	1				191		

Stats
 15th Percentile : 29 MPH
 50th Percentile : 36 MPH
 85th Percentile : 41 MPH
 95th Percentile : 44 MPH

Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1442
 Percent in Pace : 60.0%
 Number of Vehicles > 35 MPH : 1387
 Percent of Vehicles > 35 MPH : 57.7%

Peabody Street
 east of Temple Drive
 City, State: Groton, MA
 Client: Stantec / S. Wood



PRECISION
 D A T A
 INDUSTRIES, LLC
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 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

164969 C Volume
 Site Code: 179410329

Start Time	EB		WB		Combin ed		14-Mar-16 Mon
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	2	5	1	12	3	17	
12:15	1	8	0	9	1	17	
12:30	0	5	0	8	0	13	
12:45	0	3 13	31	1 2	8 37	1 5	21 68
01:00	1	11	0	8	1	19	
01:15	0	16	0	12	0	28	
01:30	0	17	0	7	0	24	
01:45	0	1 8	52	1 1	12 39	1 2	20 91
02:00	0	9	0	14	0	23	
02:15	0	17	0	16	0	33	
02:30	0	21	0	17	0	38	
02:45	0	0 18	65	0 0	24 71	0 0	42 136
03:00	0	17	0	19	0	36	
03:15	0	15	0	18	0	33	
03:30	0	16	0	18	0	34	
03:45	1	1 15	63	0 0	15 70	1 1	30 133
04:00	0	11	1	34	1	45	
04:15	1	14	0	27	1	41	
04:30	0	13	0	30	0	43	
04:45	0	1 9	47	1 2	29 120	1 3	38 167
05:00	3	14	1	34	4	48	
05:15	6	17	2	41	8	58	
05:30	6	15	2	40	8	55	
05:45	3	18 9	55	2 7	31 146	5 25	40 201
06:00	10	8	1	28	11	36	
06:15	15	10	5	22	20	32	
06:30	25	7	11	26	36	33	
06:45	54	104 10	35	8 25	20 96	62 129	30 131
07:00	41	13	6	17	47	30	
07:15	73	8	4	7	77	15	
07:30	68	4	14	13	82	17	
07:45	63	245 4	29	16 40	7 44	79 285	11 73
08:00	53	6	9	6	62	12	
08:15	47	5	9	7	56	12	
08:30	38	1	5	4	43	5	
08:45	26	164 2	14	6 29	7 24	32 193	9 38
09:00	19	0	12	9	31	9	
09:15	18	2	15	4	33	6	
09:30	24	2	8	3	32	5	
09:45	18	79 2	6	17 52	5 21	35 131	7 27
10:00	14	4	9	4	23	8	
10:15	20	1	3	3	23	4	
10:30	14	2	10	1	24	3	
10:45	13	61 1	8	10 32	1 9	23 93	2 17
11:00	11	1	10	1	21	2	
11:15	23	1	16	1	39	2	
11:30	14	0	11	1	25	1	
11:45	16	64 1	3	11 48	0 3	27 112	1 6
Total	741	408	238	680	979	1088	
Percent	75.7%	37.5%	24.3%	62.5%			
Day Total		1149		918		2067	
Peak Vol.	07:15 257	- 73	- 52	- 146	- 300	- 201	- -
P.H.F.	0.880	0.869	0.765	0.890	0.915	0.866	

Peabody Street
east of Temple Drive
City, State: Groton, MA
Client: Stantec / S. Wood



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Email: datarequests@pdillc.com

164969 C Volume
Site Code: 179410329

Start Time	EB		WB		Combin ed		15-Mar-16 Tue					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	0	12	0	19	0	31						
12:15	1	12	1	11	2	23						
12:30	0	16	0	10	0	26						
12:45	0	18	58	12	52	30	110					
01:00	0	13	0	13	0	26						
01:15	0	11	0	17	0	28						
01:30	0	18	0	13	0	31						
01:45	0	10	52	16	59	26	111					
02:00	0	20	0	15	0	35						
02:15	0	16	0	17	0	33						
02:30	0	20	0	22	0	42						
02:45	0	18	74	26	80	44	154					
03:00	1	10	0	21	1	31						
03:15	1	14	0	16	1	30						
03:30	1	16	0	21	1	37						
03:45	0	19	59	24	82	43	141					
04:00	0	22	1	39	1	61						
04:15	2	19	1	36	3	55						
04:30	0	15	0	26	0	41						
04:45	0	21	77	45	146	66	223					
05:00	2	15	0	36	2	51						
05:15	4	15	1	43	5	58						
05:30	5	19	1	37	6	56						
05:45	7	18	21	34	150	55	220					
06:00	12	12	1	29	13	41						
06:15	14	6	5	17	19	23						
06:30	26	10	3	16	29	26						
06:45	51	9	37	11	80	27	117					
07:00	62	7	10	11	72	18						
07:15	64	11	5	11	69	22						
07:30	80	7	17	12	97	19						
07:45	54	260	3	14	46	14	73					
08:00	49	2	7	7	56	9						
08:15	46	3	11	3	57	6						
08:30	35	2	12	6	47	8						
08:45	28	158	9	12	42	3	19	40	200	12	35	
09:00	24	2	7	4	31	6						
09:15	20	2	14	4	34	6						
09:30	24	1	8	4	32	5						
09:45	18	86	2	15	44	4	16	33	130	6	23	
10:00	9	1	8	3	17	4						
10:15	14	1	10	2	24	3						
10:30	17	0	11	4	28	4						
10:45	17	57	0	9	38	0	9	26	95	0	11	
11:00	7	0	7	0	14	0						
11:15	12	0	12	3	24	3						
11:30	11	1	6	1	17	2						
11:45	19	49	1	9	34	1	5	28	83	2	7	
Total	737	482	232	743	969	1225						
Percent	76.1%	39.3%	23.9%	60.7%								
Day Total		1219		975		2194						
Peak	07:00	-	04:00	-	07:30	-	04:45	-	-	-	-	
Vol.	260	-	77	-	49	-	161	-	306	-	231	-
P.H.F.	0.813	-	0.875	-	0.721	-	0.894	-	0.789	-	0.875	-



PRECISION
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Peabody Street
east of Temple Drive
City, State: Groton, MA
Client: Stantec / S. Wood

164969 C Class
Site Code: 179410329

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	3	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
05:00	0	12	5	1	0	0	0	0	0	0	0	0	0	18
06:00	0	82	17	0	5	0	0	0	0	0	0	0	0	104
07:00	1	194	42	2	6	0	0	0	0	0	0	0	0	245
08:00	0	138	20	0	6	0	0	0	0	0	0	0	0	164
09:00	0	64	13	0	2	0	0	0	0	0	0	0	0	79
10:00	0	45	14	0	2	0	0	0	0	0	0	0	0	61
11:00	0	41	19	0	4	0	0	0	0	0	0	0	0	64
12 PM	0	26	4	0	1	0	0	0	0	0	0	0	0	31
13:00	0	40	9	0	2	0	0	1	0	0	0	0	0	52
14:00	0	47	14	1	2	0	0	1	0	0	0	0	0	65
15:00	0	48	13	1	1	0	0	0	0	0	0	0	0	63
16:00	0	40	6	0	1	0	0	0	0	0	0	0	0	47
17:00	0	45	9	0	1	0	0	0	0	0	0	0	0	55
18:00	0	28	6	0	0	0	0	1	0	0	0	0	0	35
19:00	0	25	4	0	0	0	0	0	0	0	0	0	0	29
20:00	0	11	3	0	0	0	0	0	0	0	0	0	0	14
21:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6
22:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
23:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	1	908	199	5	33	0	0	3	0	0	0	0	0	1149
Percent	0.1%	79.0%	17.3%	0.4%	2.9%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	07:00	07:00									07:00
Vol.	1	194	42	2	6									245
PM Peak		15:00	14:00	14:00	13:00			13:00						14:00
Vol.		48	14	1	2			1						65

Peabody Street
 east of Temple Drive
 City, State: Groton, MA
 Client: Stantec / S. Wood



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164969 C Class
 Site Code: 179410329

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
05:00	0	13	2	1	2	0	0	0	0	0	0	0	0	18
06:00	0	71	19	0	12	0	0	1	0	0	0	0	0	103
07:00	0	199	42	3	14	2	0	0	0	0	0	0	0	260
08:00	1	136	15	0	6	0	0	0	0	0	0	0	0	158
09:00	0	69	12	0	5	0	0	0	0	0	0	0	0	86
10:00	0	40	13	1	3	0	0	0	0	0	0	0	0	57
11:00	0	29	16	0	4	0	0	0	0	0	0	0	0	49
12 PM	0	44	11	0	3	0	0	0	0	0	0	0	0	58
13:00	0	37	8	2	5	0	0	0	0	0	0	0	0	52
14:00	1	55	12	3	3	0	0	0	0	0	0	0	0	74
15:00	1	42	12	1	2	0	0	0	1	0	0	0	0	59
16:00	0	59	14	0	4	0	0	0	0	0	0	0	0	77
17:00	0	52	15	0	3	0	0	0	0	0	0	0	0	70
18:00	0	27	6	0	4	0	0	0	0	0	0	0	0	37
19:00	1	21	5	0	1	0	0	0	0	0	0	0	0	28
20:00	0	14	0	0	2	0	0	0	0	0	0	0	0	16
21:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
22:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
23:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Total	4	923	204	11	73	2	0	1	1	0	0	0	0	1219
Percent	0.3%	75.7%	16.7%	0.9%	6.0%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	07:00	07:00	07:00	07:00		06:00						07:00
Vol.	1	199	42	3	14	2		1						260
PM Peak	14:00	16:00	17:00	14:00	13:00				15:00					16:00
Vol.	1	59	15	3	5				1					77



PRECISION
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164969 C Class
Site Code: 179410329

WB	Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
	03/14/1														
	6	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	05:00	0	5	2	0	0	0	0	0	0	0	0	0	0	7
	06:00	0	17	5	2	1	0	0	0	0	0	0	0	0	25
	07:00	0	33	5	1	1	0	0	0	0	0	0	0	0	40
	08:00	0	15	10	1	3	0	0	0	0	0	0	0	0	29
	09:00	0	42	9	0	1	0	0	0	0	0	0	0	0	52
	10:00	0	26	5	0	1	0	0	0	0	0	0	0	0	32
	11:00	0	31	12	0	4	0	0	0	1	0	0	0	0	48
	12 PM	0	25	11	0	0	1	0	0	0	0	0	0	0	37
	13:00	0	28	10	0	1	0	0	0	0	0	0	0	0	39
	14:00	0	52	18	1	0	0	0	0	0	0	0	0	0	71
	15:00	0	49	20	1	0	0	0	0	0	0	0	0	0	70
	16:00	1	98	19	0	2	0	0	0	0	0	0	0	0	120
	17:00	0	125	20	0	1	0	0	0	0	0	0	0	0	146
	18:00	0	80	16	0	0	0	0	0	0	0	0	0	0	96
	19:00	0	39	4	0	1	0	0	0	0	0	0	0	0	44
	20:00	0	23	1	0	0	0	0	0	0	0	0	0	0	24
	21:00	0	19	2	0	0	0	0	0	0	0	0	0	0	21
	22:00	0	7	2	0	0	0	0	0	0	0	0	0	0	9
	23:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	Total	1	720	173	6	16	1	0	0	1	0	0	0	0	918
	Percent	0.1%	78.4%	18.8%	0.7%	1.7%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	
	AM Peak		09:00	11:00	06:00	11:00				11:00					09:00
	Vol.		42	12	2	4				1					52
	PM Peak	16:00	17:00	15:00	14:00	16:00	12:00								17:00
	Vol.	1	125	20	1	2	1								146



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Peabody Street
east of Temple Drive
City, State: Groton, MA
Client: Stantec / S. Wood

164969 C Class
Site Code: 179410329

WB	Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
	03/15/1														
	6	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	05:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	06:00	0	14	3	2	1	0	0	0	0	0	0	0	0	20
	07:00	3	28	13	1	0	1	0	0	0	0	0	0	0	46
	08:00	0	34	6	0	2	0	0	0	0	0	0	0	0	42
	09:00	0	35	8	1	0	0	0	0	0	0	0	0	0	44
	10:00	3	23	8	0	4	0	0	0	0	0	0	0	0	38
	11:00	0	25	6	0	3	0	0	0	0	0	0	0	0	34
	12 PM	0	36	13	0	3	0	0	0	0	0	0	0	0	52
	13:00	0	46	12	0	1	0	0	0	0	0	0	0	0	59
	14:00	0	62	14	2	2	0	0	0	0	0	0	0	0	80
	15:00	0	56	24	1	1	0	0	0	0	0	0	0	0	82
	16:00	0	113	30	0	3	0	0	0	0	0	0	0	0	146
	17:00	0	129	18	0	3	0	0	0	0	0	0	0	0	150
	18:00	0	68	9	0	3	0	0	0	0	0	0	0	0	80
	19:00	1	39	5	0	0	0	0	0	0	0	0	0	0	45
	20:00	0	17	2	0	0	0	0	0	0	0	0	0	0	19
	21:00	0	13	3	0	0	0	0	0	0	0	0	0	0	16
	22:00	0	8	1	0	0	0	0	0	0	0	0	0	0	9
	23:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
	Total	7	758	176	7	26	1	0	0	0	0	0	0	0	975
	Percent	0.7%	77.7%	18.1%	0.7%	2.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	AM Peak	07:00	09:00	07:00	06:00	10:00	07:00								07:00
	Vol.	3	35	13	2	4	1								46
	PM Peak	19:00	17:00	16:00	14:00	12:00									17:00
	Vol.	1	129	30	2	3									150



PRECISION
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Peabody Street
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Client: Stantec / S. Wood

164969 C Speed
Site Code: 179410329

EB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/14/																	
16	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3	41	32
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	33	32
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	38	37
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	33	32
05:00	0	0	0	0	7	10	1	0	0	0	0	0	0	0	18	38	35
06:00	0	1	0	3	57	37	5	0	1	0	0	0	0	0	104	37	34
07:00	1	0	0	14	105	111	13	1	0	0	0	0	0	0	245	37	34
08:00	0	0	2	8	68	73	12	1	0	0	0	0	0	0	164	38	35
09:00	0	0	1	7	33	34	4	0	0	0	0	0	0	0	79	37	34
10:00	0	0	1	7	22	26	5	0	0	0	0	0	0	0	61	38	34
11:00	0	1	1	9	29	21	3	0	0	0	0	0	0	0	64	37	33
12 PM	0	0	0	5	14	10	2	0	0	0	0	0	0	0	31	37	33
13:00	0	0	1	4	25	19	3	0	0	0	0	0	0	0	52	37	34
14:00	0	0	3	9	23	24	6	0	0	0	0	0	0	0	65	38	34
15:00	0	0	0	6	25	26	6	0	0	0	0	0	0	0	63	38	35
16:00	0	0	0	4	20	17	5	1	0	0	0	0	0	0	47	38	35
17:00	0	0	0	2	22	21	10	0	0	0	0	0	0	0	55	39	36
18:00	0	0	0	4	14	14	2	0	1	0	0	0	0	0	35	38	35
19:00	0	0	0	0	12	13	4	0	0	0	0	0	0	0	29	38	36
20:00	0	0	0	4	6	4	0	0	0	0	0	0	0	0	14	36	32
21:00	0	0	0	2	0	4	0	0	0	0	0	0	0	0	6	37	34
22:00	0	0	0	0	1	4	2	1	0	0	0	0	0	0	8	43	39
23:00	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3	41	37
Total	1	2	10	88	487	470	85	4	2	0	0	0	0	0	1149		
%	0.1%	0.2%	0.9%	7.7%	42.4%	40.9%	7.4%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	06:00	08:00	07:00	07:00	07:00	07:00	07:00	06:00						07:00		
Vol.	1	1	2	14	105	111	13	1	1						245		
PM Peak			14:00	14:00	13:00	15:00	17:00	16:00	18:00						14:00		
Vol.			3	9	25	26	10	1	1						65		

Stats
 15th Percentile : 29 MPH
 50th Percentile : 33 MPH
 85th Percentile : 38 MPH
 95th Percentile : 40 MPH

Mean Speed(Average) : 34 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 957
 Percent in Pace : 83.3%
 Number of Vehicles > 35 MPH : 467
 Percent of Vehicles > 35 MPH : 40.6%



PRECISION
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Peabody Street
east of Temple Drive
City, State: Groton, MA
Client: Stantec / S. Wood

164969 C Speed
Site Code: 179410329

EB

Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/15/16	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	39
04:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	32	30
05:00	0	0	0	0	1	6	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	39	36
06:00	0	1	0	3	34	48	13	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	39	36	
07:00	0	0	1	4	85	150	19	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260	38	36	
08:00	1	0	3	5	46	71	31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158	40	36	
09:00	0	0	0	5	18	49	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	39	36	
10:00	0	0	1	2	21	25	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	38	35	
11:00	1	1	0	5	16	19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	38	34	
12 PM	1	1	0	5	17	29	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	38	34	
13:00	0	1	1	6	22	17	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	38	34	
14:00	1	0	2	7	20	33	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	38	35	
15:00	0	0	0	4	22	24	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	39	35	
16:00	0	0	0	0	17	46	13	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	39	37	
17:00	0	0	0	3	22	36	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	38	36	
18:00	0	0	0	1	22	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	34	
19:00	0	1	0	0	8	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	38	35	
20:00	0	0	0	1	6	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	41	36	
21:00	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	37	33	
22:00	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	37	
23:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	37	32	
Total	4	5	8	56	386	595	148	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1219			
%	0.3%	0.4%	0.7%	4.6%	31.7%	48.8%	12.1%	1.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM Peak Vol.	08:00	06:00	08:00	08:00	07:00	07:00	08:00	06:00	06:00																	260		
PM Peak Vol.	12:00	12:00	14:00	14:00	13:00	16:00	16:00	14:00	16:00																	77		

Stats
 15th Percentile : 30 MPH
 50th Percentile : 35 MPH
 85th Percentile : 38 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 981
 Percent in Pace : 80.5%
 Number of Vehicles > 35 MPH : 641
 Percent of Vehicles > 35 MPH : 52.6%

Peabody Street
 east of Temple Drive
 City, State: Groton, MA
 Client: Stantec / S. Wood



PRECISION
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164969 C Speed
 Site Code: 179410329

WB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/14/																													
	16	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	33	32
	01:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
	04:00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	33	32	
	05:00	0	0	0	0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	38	32	
	06:00	0	0	2	1	13	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	37	33	
	07:00	1	0	0	2	26	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	36	33	
	08:00	0	0	0	5	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	36	33	
	09:00	0	0	1	15	24	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	36	32	
	10:00	0	0	3	5	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	36	32	
	11:00	0	1	3	7	25	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	36	32	
	12 PM	0	0	0	4	20	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	33	
	13:00	0	0	2	11	15	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	36	32	
	14:00	0	1	0	12	31	26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	37	33	
	15:00	1	1	2	7	32	24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	37	33	
	16:00	0	0	3	10	59	45	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	37	33	
	17:00	0	0	4	13	67	54	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146	37	34	
	18:00	0	0	1	12	45	35	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	37	33	
	19:00	0	0	1	10	23	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	35	32	
	20:00	0	0	0	3	13	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	37	33	
	21:00	0	0	1	5	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	35	32	
	22:00	0	0	0	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	35	32	
	23:00	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	36	34	
	Total	2	3	23	127	448	289	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	918			
	%	0.2%	0.3%	2.5%	13.8%	48.8%	31.5%	2.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM Peak	07:00	11:00	10:00	09:00	07:00	07:00	09:00																				09:00		
Vol.	1	1	3	15	26	11	2																				52		
PM Peak	15:00	14:00	17:00	17:00	17:00	17:00	17:00	16:00																			17:00		
Vol.	1	1	4	13	67	54	8	1																			146		

Stats
 15th Percentile : 28 MPH
 50th Percentile : 32 MPH
 85th Percentile : 37 MPH
 95th Percentile : 38 MPH

Mean Speed(Average) : 33 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 737
 Percent in Pace : 80.3%
 Number of Vehicles > 35 MPH : 257
 Percent of Vehicles > 35 MPH : 28.0%



PRECISION
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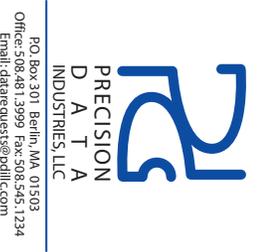
164969 C Speed
Site Code: 179410329

WB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/15/																													
16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	33	32
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	36	24	
05:00	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	32	30	
06:00	0	0	0	4	10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	36	32	
07:00	2	0	3	4	20	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	37	32	
08:00	0	0	1	9	14	15	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	37	33	
09:00	0	1	1	13	12	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	37	32	
10:00	3	0	0	8	22	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	33	30	
11:00	0	1	0	7	12	10	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	34	38	33	
12 PM	1	0	3	4	26	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	37	32	
13:00	0	1	3	12	24	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	37	32	
14:00	0	0	4	6	39	27	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	37	33	
15:00	0	2	2	12	36	29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	37	33	
16:00	0	0	0	16	60	58	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146	38	34	
17:00	0	0	2	14	57	62	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	38	35	
18:00	0	1	0	14	36	24	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	37	33	
19:00	0	0	0	12	24	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	35	32	
20:00	0	0	0	2	10	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	37	34	
21:00	0	0	0	3	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	40	34	
22:00	0	0	0	3	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	37	33	
23:00	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	38	36	
Total	7	6	19	146	415	323	52	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	975			
%	0.7%	0.6%	1.9%	15.0%	42.6%	33.1%	5.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%				
AM Peak	10:00	09:00	07:00	09:00	10:00	07:00	08:00	08:00																		11:00	07:00		
Vol.	3	1	3	13	22	16	2	1																		1	46		
PM Peak	12:00	15:00	14:00	16:00	16:00	17:00	17:00	17:00																			17:00		
Vol.	1	2	4	16	60	62	13	2																			150		

Stats
 15th Percentile : 27 MPH
 50th Percentile : 32 MPH
 85th Percentile : 37 MPH
 95th Percentile : 39 MPH

Mean Speed(Average) : 33 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 738
 Percent in Pace : 75.7%
 Number of Vehicles > 35 MPH : 317
 Percent of Vehicles > 35 MPH : 32.6%

Old Ayer Road
 South of Peabody Street
 City, State: Groton, MA
 Client: Stantec/ S. Wood



164969 E VOLUME
 Site Code: 1794 10329

Start Time	12-Mar-16		13-Mar-16		14-Mar-16		15-Mar-16		16-Mar-16		17-Mar-16		18-Mar-16		Week Average	
	NB	SB	NB	SB												
12:00 AM	11	5	10	9	4	5	8	6	11	3	6	6	6	6	4	8
01:00	8	6	4	4	1	0	1	1	1	1	1	3	2	4	3	2
02:00	5	2	0	0	1	2	3	1	3	2	2	2	3	8	3	2
03:00	8	3	3	1	1	5	2	3	5	6	6	6	3	5	4	3
04:00	1	7	1	2	5	8	3	10	12	12	2	2	13	8	4	9
05:00	6	12	2	5	11	24	18	29	10	26	12	12	11	10	10	21
06:00	19	42	10	5	35	113	37	96	38	112	41	41	32	29	30	87
07:00	53	41	21	34	106	234	116	284	110	233	115	254	115	104	91	183
08:00	66	67	36	29	102	199	105	202	111	197	116	204	131	182	95	154
09:00	74	87	68	67	111	131	107	142	100	123	104	142	94	133	90	118
10:00	104	93	83	72	105	114	107	125	112	129	103	133	117	113	104	111
11:00	107	118	87	79	105	96	132	109	106	113	135	112	130	125	115	107
12:00 PM	118	124	88	111	102	98	118	133	118	115	118	127	117	102	111	116
01:00	96	106	100	109	93	131	110	110	107	120	119	148	116	135	106	123
02:00	102	100	85	87	126	150	163	148	161	146	161	168	161	148	137	135
03:00	113	90	100	124	191	121	199	144	210	159	234	152	211	165	180	136
04:00	94	96	92	99	200	139	210	107	207	146	209	149	204	126	174	123
05:00	80	100	99	94	175	114	206	113	210	144	212	116	203	143	169	118
06:00	58	72	76	89	116	98	121	93	145	95	134	112	113	128	109	98
07:00	54	51	51	58	78	61	86	72	72	86	82	76	88	65	73	67
08:00	51	35	36	41	40	37	26	52	48	58	43	62	49	61	42	49
09:00	28	37	21	28	32	30	34	43	29	57	36	56	48	45	33	42
10:00	32	39	19	17	21	25	16	15	19	17	23	32	33	30	23	25
11:00	23	19	11	7	17	13	19	15	22	7	18	12	31	26	20	14
Total	1311	1352	1103	1200	1778	1948	1940	2053	1938	2107	2034	2210	2035	2081	1734	1848
Day	2663		2303		3726		3993		4045		4244		4116		3582	
AM Peak	11:00	11:00	11:00	11:00	09:00	07:00	11:00	07:00	10:00	07:00	11:00	07:00	08:00	07:00	11:00	07:00
Vol.	107	118	87	79	111	234	132	284	112	233	135	254	131	202	115	183
PM Peak	12:00	12:00	13:00	15:00	16:00	14:00	16:00	14:00	15:00	15:00	15:00	14:00	15:00	15:00	15:00	15:00
Vol.	118	124	100	124	200	150	210	148	210	159	234	168	211	165	180	136
Comb. Total	2663		2303		3726		3993		4045		4244		4116		3582	

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
D A T A
INDUSTRIES, LLC
P.O.Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E VOLUME
Site Code: 179410329

Start Time	NB		SB		Combin ed		12-Mar-16 Sat
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	6	31	1	26	7	57	
12:15	3	24	2	30	5	54	
12:30	1	28	2	34	3	62	
12:45	1	35	0	5	34	124	16
01:00	4	20	3	18	7	38	242
01:15	1	22	1	30	2	52	
01:30	2	29	1	26	3	55	
01:45	1	8	25	96	1	6	32
02:00	0	30	0	26	2	106	14
02:15	0	19	0	24	0	57	202
02:30	4	34	1	26	5	56	
02:45	1	5	19	102	1	2	24
03:00	4	23	2	19	6	100	7
03:15	1	32	0	21	1	42	202
03:30	0	34	1	27	1	42	
03:45	3	8	24	113	0	3	23
04:00	1	27	3	24	4	90	11
04:15	0	28	0	24	0	47	203
04:30	0	17	2	27	2	52	
04:45	0	1	22	94	2	7	21
05:00	0	20	1	27	1	96	8
05:15	3	28	1	27	4	43	190
05:30	0	17	2	26	2	47	
05:45	3	6	15	80	8	12	20
06:00	2	14	6	22	8	100	18
06:15	4	20	7	17	11	35	180
06:30	5	11	13	18	18	36	
06:45	8	19	13	58	16	42	15
07:00	10	11	7	24	17	72	61
07:15	16	11	10	13	26	24	130
07:30	14	17	9	7	23	24	
07:45	13	53	15	54	15	41	7
08:00	19	9	7	6	26	51	28
08:15	12	14	18	9	30	23	105
08:30	13	14	21	12	34	26	
08:45	22	66	14	51	21	67	8
09:00	8	8	16	8	24	35	43
09:15	16	8	21	7	37	15	133
09:30	21	5	31	12	52	17	22
09:45	29	74	7	28	19	87	10
10:00	25	13	19	15	44	37	48
10:15	29	8	23	6	52	14	161
10:30	22	9	31	8	53	17	17
10:45	28	104	2	32	20	93	10
11:00	17	6	21	7	38	39	48
11:15	21	8	28	6	49	14	197
11:30	30	4	31	3	61	7	12
11:45	39	107	5	23	38	118	3
Total	462	849	483	869	945	1718	42
Percent	48.9%	49.4%	51.1%	50.6%			
Day Total		1311		1352		2663	
Peak	11:00	-	12:00	-	11:00	-	12:00
Vol.	107	-	118	-	124	-	242
P.H.F.	0.686	-	0.843	-	0.776	-	0.877

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164969 E VOLUME
 Site Code: 179410329

Start Time	NB		SB		Combin ed		13-Mar-16 Sun
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	2	22	1	29	3	51	
12:15	3	27	2	29	5	56	
12:30	3	15	3	22	6	37	
12:45	2	10	24	88	3	31	111
01:00	2	25	1	18	3	43	19
01:15	2	32	1	34	3	66	
01:30	0	22	2	35	2	57	
01:45	0	4	21	100	0	22	109
02:00	0	21	0	19	0	43	8
02:15	0	19	0	21	0	40	209
02:30	0	23	0	19	0	42	
02:45	0	0	22	85	0	28	87
03:00	1	21	0	26	1	47	
03:15	1	23	0	36	1	59	
03:30	0	32	1	28	1	60	
03:45	1	3	24	100	0	34	124
04:00	1	25	0	28	1	53	
04:15	0	17	0	22	0	39	
04:30	0	24	1	30	1	54	
04:45	0	1	26	92	1	19	99
05:00	0	37	1	25	1	62	
05:15	1	18	2	22	3	40	
05:30	0	22	0	20	0	42	
05:45	1	2	22	99	2	27	94
06:00	3	27	4	21	7	48	
06:15	4	8	3	18	7	26	
06:30	0	27	6	23	6	50	
06:45	3	10	14	76	21	27	89
07:00	7	13	8	22	15	35	44
07:15	6	12	11	17	17	29	
07:30	4	13	5	11	9	24	
07:45	4	21	13	51	10	8	58
08:00	6	9	7	9	13	18	55
08:15	4	11	5	9	9	20	
08:30	14	7	9	15	23	22	
08:45	12	36	9	36	8	8	41
09:00	11	4	20	10	31	14	65
09:15	24	7	17	5	41	12	
09:30	16	5	19	6	35	11	
09:45	17	68	5	21	11	7	28
10:00	22	4	17	3	39	7	135
10:15	18	5	14	3	32	8	
10:30	22	6	19	7	41	13	
10:45	21	83	4	19	22	4	17
11:00	21	4	25	3	46	7	155
11:15	19	2	19	2	38	4	
11:30	18	2	18	2	36	4	
11:45	29	87	3	11	17	79	0
Total	325	778	336	864	661	1642	18
Percent	49.2%	47.4%	50.8%	52.6%			
Day Total		1103		1200		2303	
Peak	11:00	-	04:30	-	10:30	-	03:15
Vol.	87	-	105	-	85	-	126
P.H.F.	0.750	-	0.709	-	0.850	-	0.875

Old Ayer Road
 south of Peabody Street
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 Office: 508.481.3999 Fax: 508.545.1234
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164969 E VOLUME
 Site Code: 179410329

Start Time	NB		SB		Combin ed		14-Mar-16 Mon							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	2	32	2	17	4	49								
12:15	0	25	2	18	2	43								
12:30	2	24	1	30	3	54								
12:45	0	4 21	102	0 5	33	98	0 9	54	200					
01:00	0	16	0	37	0	53								
01:15	0	25	0	31	0	56								
01:30	0	30	0	32	0	62								
01:45	1	1 22	93	0 0	31	131	1 1	53	224					
02:00	1	32	0	28	1	60								
02:15	0	39	1	30	1	69								
02:30	0	28	0	55	0	83								
02:45	0	1 27	126	1 2	37	150	1 3	64	276					
03:00	0	47	0	35	0	82								
03:15	1	48	0	27	1	75								
03:30	0	44	1	33	1	77								
03:45	0	1 52	191	4 5	26	121	4 6	78	312					
04:00	1	39	1	35	2	74								
04:15	3	44	2	42	5	86								
04:30	0	57	2	36	2	93								
04:45	1	5 60	200	3 8	26	139	4 13	86	339					
05:00	4	39	4	28	8	67								
05:15	1	51	7	27	8	78								
05:30	2	43	5	29	7	72								
05:45	4	11 42	175	8 24	30	114	12 35	72	289					
06:00	4	33	13	29	17	62								
06:15	8	26	20	20	28	46								
06:30	12	30	25	30	37	60								
06:45	11	35 27	116	55 113	19	98	66 148	46	214					
07:00	23	26	42	21	65	47								
07:15	22	23	51	17	73	40								
07:30	29	16	59	12	88	28								
07:45	32	106 13	78	82 234	11	61	114 340	24	139					
08:00	31	10	56	7	87	17								
08:15	18	11	61	14	79	25								
08:30	29	9	29	10	58	19								
08:45	24	102 10	40	53 199	6	37	77 301	16	77					
09:00	25	10	29	8	54	18								
09:15	26	12	37	6	63	18								
09:30	35	3	27	5	62	8								
09:45	25	111 7	32	38 131	11	30	63 242	18	62					
10:00	21	7	27	5	48	12								
10:15	19	3	27	5	46	8								
10:30	32	6	30	9	62	15								
10:45	33	105 5	21	30 114	6	25	63 219	11	46					
11:00	22	3	26	6	48	9								
11:15	29	7	20	4	49	11								
11:30	31	4	21	2	52	6								
11:45	23	105 3	17	29 96	1	13	52 201	4	30					
Total	587	1191	931	1017	1518	2208								
Percent	38.7%	53.9%	61.3%	46.1%										
Day Total		1778		1948		3726								
Peak	10:30	-	04:30	-	07:30	-	02:15	-	07:30	-	04:00	-	-	-
Vol.	116	-	207	-	258	-	157	-	368	-	339	-	-	-
P.H.F.	0.829	-	0.863	-	0.787	-	0.714	-	0.807	-	0.911	-	-	-

Old Ayer Road
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164969 E VOLUME
Site Code: 179410329

Start Time	NB		SB		Combin ed		15-Mar-16 Tue							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	2	34	3	43	5	77								
12:15	2	30	3	25	5	55								
12:30	2	20	0	31	2	51								
12:45	2	34	0	34	2	68	251							
01:00	0	24	0	33	0	57								
01:15	0	21	0	26	0	47								
01:30	1	19	0	30	1	49								
01:45	0	46	1	21	1	67	220							
02:00	1	39	0	20	1	59								
02:15	0	43	0	33	0	76								
02:30	2	33	1	60	3	93								
02:45	0	48	0	35	0	83	311							
03:00	1	53	0	31	1	84								
03:15	0	46	0	30	0	76								
03:30	1	54	1	38	2	92								
03:45	0	46	2	45	2	91	343							
04:00	1	54	1	27	2	81								
04:15	0	54	4	30	4	84								
04:30	2	45	3	26	5	71								
04:45	0	57	2	24	2	81	317							
05:00	3	60	6	31	9	91								
05:15	3	48	10	19	13	67								
05:30	3	61	6	33	9	94								
05:45	9	37	7	30	16	67	319							
06:00	4	40	14	28	18	68								
06:15	9	29	17	21	26	50								
06:30	11	25	23	28	34	53								
06:45	13	27	42	16	55	43	214							
07:00	25	26	53	19	78	45								
07:15	21	24	72	22	93	46								
07:30	30	16	73	13	103	29								
07:45	40	20	86	284	18	72	126	400	38	158				
08:00	32	8	59	12	91	20								
08:15	31	6	54	16	85	22								
08:30	18	3	43	10	61	13								
08:45	24	9	46	202	14	52	70	307	23	78				
09:00	21	8	45	14	66	22								
09:15	25	12	28	12	53	24								
09:30	28	8	32	8	60	16								
09:45	26	100	6	34	37	142	9	43	63	242	15	77		
10:00	24	4	30	3	54	7								
10:15	33	4	27	2	60	6								
10:30	23	4	39	3	62	7								
10:45	27	107	4	16	29	125	7	15	56	232	11	31		
11:00	28	4	26	5	54	9								
11:15	47	7	32	4	79	11								
11:30	29	4	22	5	51	9								
11:45	28	132	4	19	29	109	1	15	57	241	5	34		
Total	632	1308	1008	1045	1640	2353								
Percent	38.5%	55.6%	61.5%	44.4%										
Day Total		1940		2053		3993								
Peak	07:30	-	04:45	-	07:15	-	02:15	-	07:15	-	03:30	-	-	-
Vol.	133	-	226	-	290	-	159	-	413	-	348	-	-	-
P.H.F.	0.831	-	0.926	-	0.843	-	0.663	-	0.819	-	0.946	-	-	-

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
D A T A
INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E VOLUME
Site Code: 179410329

Start Time	NB		SB		Combin ed		16-Mar-16 Wed
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	0	33	1	28	1	61	
12:15	0	30	0	26	0	56	
12:30	6	24	1	21	7	45	
12:45	5	31	118	1	3	40	115
01:00	0	27	0	33	0	60	233
01:15	0	20	0	28	0	48	
01:30	0	29	0	33	0	62	
01:45	1	31	107	1	1	26	120
02:00	0	27	1	25	1	52	227
02:15	1	47	0	28	1	75	
02:30	1	41	1	50	2	91	
02:45	1	46	161	0	2	43	146
03:00	0	41	2	36	2	77	307
03:15	3	58	1	38	4	96	
03:30	0	62	0	42	0	104	
03:45	2	49	210	3	6	43	159
04:00	2	43	3	43	5	86	
04:15	0	51	2	38	2	89	
04:30	2	55	4	33	6	88	
04:45	2	58	207	3	12	32	146
05:00	3	38	3	44	6	82	
05:15	1	63	7	40	8	103	
05:30	3	64	9	32	12	96	
05:45	3	45	210	7	26	28	144
06:00	6	42	11	27	17	69	354
06:15	6	42	17	32	23	74	
06:30	13	37	30	15	43	52	
06:45	13	24	145	54	112	21	95
07:00	22	14	58	32	80	46	150
07:15	19	24	56	19	75	43	
07:30	32	16	52	13	84	29	
07:45	37	18	72	67	233	22	86
08:00	29	10	57	12	86	22	104
08:15	14	18	55	16	69	34	343
08:30	36	10	41	16	77	26	
08:45	32	111	10	44	197	14	58
09:00	18	11	35	10	53	21	308
09:15	24	3	25	22	49	25	
09:30	12	9	33	13	45	22	
09:45	23	77	6	29	30	123	12
10:00	34	4	26	5	60	9	57
10:15	25	4	33	0	58	4	200
10:30	32	7	35	5	67	12	
10:45	21	112	4	19	35	129	7
11:00	22	4	25	1	47	5	17
11:15	28	7	23	1	51	8	56
11:30	30	5	36	3	66	8	241
11:45	26	106	6	22	29	113	2
Total	590	1348	957	1150	1547	2498	29
Percent	38.1%	54.0%	61.9%	46.0%			
Day Total		1938		2107		4045	
Peak	07:15	-	04:45	-	07:00	-	02:30
Vol.	117	-	223	-	233	-	167
P.H.F.	0.791	-	0.871	-	0.869	-	0.835
							0.839
							0.909

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164969 E VOLUME
 Site Code: 179410329

Start Time	NB		SB		Combin ed		17-Mar-16 Thu
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	2	22	2	36	4	58	
12:15	2	38	0	28	2	66	
12:30	1	29	0	30	1	59	
12:45	1	29	118	4	6	33	127
01:00	2	26	0	44	2	70	245
01:15	0	25	0	40	0	65	
01:30	0	30	0	26	0	56	
01:45	1	38	119	2	2	38	148
02:00	1	36	0	37	1	73	267
02:15	0	43	0	39	0	82	
02:30	0	37	0	46	0	83	
02:45	1	45	161	3	3	46	168
03:00	1	58	1	41	2	99	329
03:15	1	57	0	31	1	88	
03:30	3	63	0	35	3	98	
03:45	1	56	234	2	3	45	152
04:00	1	59	2	38	3	97	
04:15	0	46	1	36	1	82	
04:30	1	41	4	27	5	68	
04:45	0	63	209	6	13	48	149
05:00	2	41	5	32	7	73	358
05:15	3	60	5	30	8	90	
05:30	4	56	7	27	11	83	
05:45	3	55	212	5	22	27	116
06:00	6	43	13	36	19	79	328
06:15	8	33	16	26	24	59	
06:30	10	31	24	24	34	55	
06:45	17	27	134	53	106	26	112
07:00	27	23	55	17	82	40	147
07:15	24	25	67	21	91	46	
07:30	32	16	63	17	95	33	
07:45	32	18	82	69	254	21	76
08:00	36	10	61	19	97	29	101
08:15	21	11	65	14	86	25	369
08:30	25	13	32	12	57	25	
08:45	34	9	43	46	204	17	62
09:00	23	5	45	17	68	22	320
09:15	21	13	33	17	54	30	26
09:30	25	8	29	10	54	18	105
09:45	35	10	36	35	142	12	56
10:00	27	7	34	9	61	16	246
10:15	28	6	35	5	63	11	22
10:30	23	7	28	7	51	14	92
10:45	25	3	23	36	133	11	32
11:00	33	6	30	6	63	12	236
11:15	23	4	41	3	64	7	14
11:30	40	4	21	2	61	6	55
11:45	39	4	18	20	112	1	12
Total	645	1389	1000	1210	1645	2599	30
Percent	39.2%	53.4%	60.8%	46.6%			
Day Total		2034		2210		4244	
Peak	11:00	-	03:15	-	07:15	-	03:00
Vol.	135	-	235	-	260	-	386
P.H.F.	0.844	-	0.933	-	0.942	-	0.955

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164969 E VOLUME
 Site Code: 179410329

Start Time	NB		SB		Combin ed		18-Mar-16 Fri							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	2	33	0	27	2	60								
12:15	1	24	2	24	3	48								
12:30	1	30	1	17	2	47								
12:45	2	30	0	34	2	64	219							
01:00	1	26	1	28	2	54								
01:15	1	22	0	37	1	59								
01:30	1	36	0	31	1	67								
01:45	1	32	0	39	1	71	251							
02:00	3	40	1	27	4	67								
02:15	1	36	0	37	1	73								
02:30	3	45	1	42	4	87								
02:45	1	40	0	42	1	82	309							
03:00	3	48	0	47	3	95								
03:15	2	51	0	40	2	91								
03:30	0	58	2	30	2	88								
03:45	0	54	1	48	1	102	376							
04:00	2	38	1	30	3	68								
04:15	2	43	2	28	4	71								
04:30	2	62	5	39	7	101								
04:45	2	61	2	29	4	90	330							
05:00	2	56	4	33	6	89								
05:15	2	48	6	33	8	81								
05:30	5	54	7	26	12	80								
05:45	2	45	12	51	14	96	346							
06:00	6	29	12	31	18	60								
06:15	5	30	17	41	22	71								
06:30	8	28	25	32	33	60								
06:45	13	26	50	24	63	50	241							
07:00	24	22	36	22	60	44								
07:15	24	25	56	9	80	34								
07:30	27	18	50	23	77	41								
07:45	40	23	60	11	65	34	153							
08:00	27	13	58	10	85	23								
08:15	31	17	49	17	80	34								
08:30	35	11	42	21	77	32								
08:45	38	8	33	182	13	61	71	313	21	110				
09:00	17	15	34	10	51	25								
09:15	34	13	26	12	60	25								
09:30	22	7	41	11	63	18								
09:45	21	94	13	48	32	133	12	45	53	227	25	93		
10:00	33	11	24	10	57	21								
10:15	28	6	30	9	58	15								
10:30	30	7	36	4	66	11								
10:45	26	117	9	33	23	113	7	30	49	230	16	63		
11:00	32	12	34	14	66	26								
11:15	36	10	33	3	69	13								
11:30	26	4	27	6	53	10								
11:45	36	130	5	31	31	125	3	26	67	255	8	57		
Total	661	1374	907	1174	1568	2548								
Percent	42.2%	53.9%	57.8%	46.1%										
Day Total		2035		2081		4116								
Peak	07:45	-	04:30	-	07:15	-	02:30	-	07:15	-	03:00	-	-	-
Vol.	133	-	227	-	224	-	171	-	342	-	376	-	-	-
P.H.F.	0.831	-	0.915	-	0.933	-	0.910	-	0.855	-	0.922	-	-	-



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Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E CLASS
Site Code: 179410329

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/12/1														
6	0	9	2	0	0	0	0	0	0	0	0	0	0	11
01:00	0	6	2	0	0	0	0	0	0	0	0	0	0	8
02:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	7	0	0	1	0	0	0	0	0	0	0	0	8
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	5	0	0	1	0	0	0	0	0	0	0	0	6
06:00	0	14	3	0	2	0	0	0	0	0	0	0	0	19
07:00	0	42	10	0	1	0	0	0	0	0	0	0	0	53
08:00	1	49	16	0	0	0	0	0	0	0	0	0	0	66
09:00	0	61	12	0	1	0	0	0	0	0	0	0	0	74
10:00	0	80	19	1	3	1	0	0	0	0	0	0	0	104
11:00	0	81	19	2	5	0	0	0	0	0	0	0	0	107
12 PM	1	87	25	0	5	0	0	0	0	0	0	0	0	118
13:00	1	80	14	0	1	0	0	0	0	0	0	0	0	96
14:00	1	87	13	0	1	0	0	0	0	0	0	0	0	102
15:00	2	87	22	0	2	0	0	0	0	0	0	0	0	113
16:00	2	83	8	0	1	0	0	0	0	0	0	0	0	94
17:00	1	65	12	0	2	0	0	0	0	0	0	0	0	80
18:00	1	44	10	0	3	0	0	0	0	0	0	0	0	58
19:00	1	47	5	0	1	0	0	0	0	0	0	0	0	54
20:00	1	44	6	0	0	0	0	0	0	0	0	0	0	51
21:00	0	26	2	0	0	0	0	0	0	0	0	0	0	28
22:00	0	25	4	1	2	0	0	0	0	0	0	0	0	32
23:00	0	21	2	0	0	0	0	0	0	0	0	0	0	23
Total	12	1056	206	4	32	1	0	0	0	0	0	0	0	1311
Percent	0.9%	80.5%	15.7%	0.3%	2.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	10:00	11:00	11:00	10:00								11:00
Vol.	1	81	19	2	5	1								107
PM Peak	15:00	12:00	12:00	22:00	12:00									12:00
Vol.	2	87	25	1	5									118

Old Ayer Road
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164969 E CLASS
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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/13/1														
6	0	10	0	0	0	0	0	0	0	0	0	0	0	10
01:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
06:00	0	9	1	0	0	0	0	0	0	0	0	0	0	10
07:00	0	20	1	0	0	0	0	0	0	0	0	0	0	21
08:00	1	28	7	0	0	0	0	0	0	0	0	0	0	36
09:00	2	54	11	0	1	0	0	0	0	0	0	0	0	68
10:00	0	63	17	0	3	0	0	0	0	0	0	0	0	83
11:00	1	71	14	0	0	0	0	1	0	0	0	0	0	87
12 PM	1	72	11	0	4	0	0	0	0	0	0	0	0	88
13:00	2	86	11	0	1	0	0	0	0	0	0	0	0	100
14:00	2	67	14	0	2	0	0	0	0	0	0	0	0	85
15:00	3	80	17	0	0	0	0	0	0	0	0	0	0	100
16:00	1	75	16	0	0	0	0	0	0	0	0	0	0	92
17:00	2	79	17	0	0	0	0	1	0	0	0	0	0	99
18:00	0	66	10	0	0	0	0	0	0	0	0	0	0	76
19:00	0	43	6	0	2	0	0	0	0	0	0	0	0	51
20:00	0	31	5	0	0	0	0	0	0	0	0	0	0	36
21:00	0	20	1	0	0	0	0	0	0	0	0	0	0	21
22:00	0	17	1	0	1	0	0	0	0	0	0	0	0	19
23:00	0	10	1	0	0	0	0	0	0	0	0	0	0	11
Total	15	910	161	0	15	0	0	2	0	0	0	0	0	1103
Percent	1.4%	82.5%	14.6%	0.0%	1.4%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	09:00	11:00	10:00		10:00			11:00						11:00
Vol.	2	71	17		3			1						87
PM Peak	15:00	13:00	15:00		12:00			17:00						13:00
Vol.	3	86	17		4			1						100

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164969 E CLASS
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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	3	0	0	1	0	0	0	0	0	0	0	0	4
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
05:00	0	6	3	0	2	0	0	0	0	0	0	0	0	11
06:00	0	29	5	1	0	0	0	0	0	0	0	0	0	35
07:00	1	87	13	1	3	0	0	0	1	0	0	0	0	106
08:00	0	77	21	2	2	0	0	0	0	0	0	0	0	102
09:00	0	84	20	0	6	0	0	1	0	0	0	0	0	111
10:00	0	79	20	0	4	2	0	0	0	0	0	0	0	105
11:00	0	77	18	1	7	0	0	0	2	0	0	0	0	105
12 PM	0	84	14	0	2	2	0	0	0	0	0	0	0	102
13:00	0	70	22	0	1	0	0	0	0	0	0	0	0	93
14:00	0	95	28	1	2	0	0	0	0	0	0	0	0	126
15:00	1	148	37	1	4	0	0	0	0	0	0	0	0	191
16:00	0	162	33	0	5	0	0	0	0	0	0	0	0	200
17:00	0	154	18	0	2	1	0	0	0	0	0	0	0	175
18:00	1	100	14	0	1	0	0	0	0	0	0	0	0	116
19:00	0	68	9	0	1	0	0	0	0	0	0	0	0	78
20:00	0	32	8	0	0	0	0	0	0	0	0	0	0	40
21:00	0	30	2	0	0	0	0	0	0	0	0	0	0	32
22:00	0	21	0	0	0	0	0	0	0	0	0	0	0	21
23:00	0	15	2	0	0	0	0	0	0	0	0	0	0	17
Total	3	1428	288	7	43	5	0	1	3	0	0	0	0	1778
Percent	0.2%	80.3%	16.2%	0.4%	2.4%	0.3%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	08:00	08:00	11:00	10:00		09:00	11:00					09:00
Vol.	1	87	21	2	7	2		1	2					111
PM Peak	15:00	16:00	15:00	14:00	16:00	12:00								16:00
Vol.	1	162	37	1	5	2								200

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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	6	2	0	0	0	0	0	0	0	0	0	0	8
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
03:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
05:00	1	9	6	0	1	0	0	0	1	0	0	0	0	18
06:00	0	32	4	1	0	0	0	0	0	0	0	0	0	37
07:00	0	95	18	0	2	1	0	0	0	0	0	0	0	116
08:00	0	89	12	1	3	0	0	0	0	0	0	0	0	105
09:00	1	74	20	1	3	1	0	0	0	0	0	0	0	100
10:00	0	77	21	1	7	0	0	1	0	0	0	0	0	107
11:00	3	101	19	2	6	1	0	0	0	0	0	0	0	132
12 PM	0	94	17	2	5	0	0	0	0	0	0	0	0	118
13:00	0	92	12	1	5	0	0	0	0	0	0	0	0	110
14:00	0	127	33	1	1	0	0	0	1	0	0	0	0	163
15:00	1	160	31	1	5	0	0	1	0	0	0	0	0	199
16:00	0	171	33	0	6	0	0	0	0	0	0	0	0	210
17:00	0	174	30	0	2	0	0	0	0	0	0	0	0	206
18:00	0	103	13	0	5	0	0	0	0	0	0	0	0	121
19:00	0	70	12	0	3	1	0	0	0	0	0	0	0	86
20:00	0	21	5	0	0	0	0	0	0	0	0	0	0	26
21:00	0	29	4	0	1	0	0	0	0	0	0	0	0	34
22:00	0	16	0	0	0	0	0	0	0	0	0	0	0	16
23:00	0	15	4	0	0	0	0	0	0	0	0	0	0	19
Total	6	1562	298	11	55	4	0	2	2	0	0	0	0	1940
Percent	0.3%	80.5%	15.4%	0.6%	2.8%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	11:00	10:00	07:00		10:00	05:00					11:00
Vol.	3	101	21	2	7	1		1	1					132
PM Peak	15:00	17:00	14:00	12:00	16:00	19:00		15:00	14:00					16:00
Vol.	1	174	33	2	6	1		1	1					210

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
DATA
INDUSTRIES, LLC

P.O.Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E CLASS
Site Code: 179410329

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/16/1														
6	0	8	3	0	0	0	0	0	0	0	0	0	0	11
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
04:00	0	3	2	0	1	0	0	0	0	0	0	0	0	6
05:00	0	7	3	0	0	0	0	0	0	0	0	0	0	10
06:00	0	32	5	1	0	0	0	0	1	0	0	0	0	38
07:00	1	92	13	1	3	0	0	0	0	0	0	0	0	110
08:00	2	89	17	1	2	0	0	0	0	0	0	0	0	111
09:00	0	60	15	0	2	0	0	0	0	0	0	0	0	77
10:00	2	83	22	0	5	0	0	0	0	0	0	0	0	112
11:00	0	86	17	1	2	0	0	0	0	0	0	0	0	106
12 PM	0	93	18	1	3	3	0	0	0	0	0	0	0	118
13:00	1	85	15	1	2	0	0	2	1	0	0	0	0	107
14:00	0	129	25	2	4	0	0	1	0	0	0	0	0	161
15:00	1	162	38	1	8	0	0	0	0	0	0	0	0	210
16:00	1	164	36	0	6	0	0	0	0	0	0	0	0	207
17:00	2	180	25	0	3	0	0	0	0	0	0	0	0	210
18:00	0	126	14	0	4	1	0	0	0	0	0	0	0	145
19:00	0	60	8	0	4	0	0	0	0	0	0	0	0	72
20:00	0	43	5	0	0	0	0	0	0	0	0	0	0	48
21:00	0	23	5	0	1	0	0	0	0	0	0	0	0	29
22:00	0	16	2	0	1	0	0	0	0	0	0	0	0	19
23:00	0	18	3	0	1	0	0	0	0	0	0	0	0	22
Total	10	1568	291	9	52	4	0	3	1	0	0	0	0	1938
Percent	0.5%	80.9%	15.0%	0.5%	2.7%	0.2%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	10:00	06:00	10:00									10:00
Vol.	2	92	22	1	5									112
PM Peak	17:00	17:00	15:00	14:00	15:00	12:00		13:00	13:00					15:00
Vol.	2	180	38	2	8	3		2	1					210

Old Ayer Road
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164969 E CLASS
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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/17/1														
6	0	5	1	0	0	0	0	0	0	0	0	0	0	6
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2
03:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
05:00	0	6	4	0	2	0	0	0	0	0	0	0	0	12
06:00	0	34	6	1	0	0	0	0	0	0	0	0	0	41
07:00	0	97	17	0	1	0	0	0	0	0	0	0	0	115
08:00	0	91	20	2	3	0	0	0	0	0	0	0	0	116
09:00	0	77	24	2	1	0	0	0	0	0	0	0	0	104
10:00	0	77	18	0	7	1	0	0	0	0	0	0	0	103
11:00	0	104	24	2	5	0	0	0	0	0	0	0	0	135
12 PM	1	98	12	2	3	1	0	1	0	0	0	0	0	118
13:00	0	94	22	1	1	1	0	0	0	0	0	0	0	119
14:00	1	130	24	0	4	1	0	1	0	0	0	0	0	161
15:00	2	176	47	1	8	0	0	0	0	0	0	0	0	234
16:00	2	176	24	0	7	0	0	0	0	0	0	0	0	209
17:00	0	177	32	0	3	0	0	0	0	0	0	0	0	212
18:00	0	112	22	0	0	0	0	0	0	0	0	0	0	134
19:00	0	70	11	0	1	0	0	0	0	0	0	0	0	82
20:00	0	36	5	0	2	0	0	0	0	0	0	0	0	43
21:00	1	30	4	0	1	0	0	0	0	0	0	0	0	36
22:00	0	21	2	0	0	0	0	0	0	0	0	0	0	23
23:00	0	16	2	0	0	0	0	0	0	0	0	0	0	18
Total	7	1638	322	11	50	4	0	2	0	0	0	0	0	2034
Percent	0.3%	80.5%	15.8%	0.5%	2.5%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak		11:00	09:00	08:00	10:00	10:00								11:00
Vol.		104	24	2	7	1								135
PM Peak	15:00	17:00	15:00	12:00	15:00	12:00		12:00						15:00
Vol.	2	177	47	2	8	1		1						234

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164969 E CLASS
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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/18/1														
6	0	4	2	0	0	0	0	0	0	0	0	0	0	6
01:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
03:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
04:00	0	6	1	0	0	1	0	0	0	0	0	0	0	8
05:00	0	4	5	0	1	0	0	0	1	0	0	0	0	11
06:00	0	25	5	1	0	1	0	0	0	0	0	0	0	32
07:00	0	99	14	0	1	0	1	0	0	0	0	0	0	115
08:00	0	103	23	1	3	1	0	0	0	0	0	0	0	131
09:00	1	69	20	0	4	0	0	0	0	0	0	0	0	94
10:00	1	95	15	1	5	0	0	0	0	0	0	0	0	117
11:00	0	106	21	0	3	0	0	0	0	0	0	0	0	130
12 PM	1	88	20	1	5	0	0	2	0	0	0	0	0	117
13:00	1	85	27	0	3	0	0	0	0	0	0	0	0	116
14:00	2	124	30	1	3	1	0	0	0	0	0	0	0	161
15:00	0	169	34	1	7	0	0	0	0	0	0	0	0	211
16:00	0	161	38	0	4	0	0	1	0	0	0	0	0	204
17:00	0	169	31	0	2	0	0	1	0	0	0	0	0	203
18:00	1	94	15	0	2	1	0	0	0	0	0	0	0	113
19:00	0	74	13	0	0	1	0	0	0	0	0	0	0	88
20:00	0	38	10	0	1	0	0	0	0	0	0	0	0	49
21:00	0	40	8	0	0	0	0	0	0	0	0	0	0	48
22:00	0	28	5	0	0	0	0	0	0	0	0	0	0	33
23:00	0	28	1	0	2	0	0	0	0	0	0	0	0	31
Total	7	1625	339	6	46	6	1	4	1	0	0	0	0	2035
Percent	0.3%	79.9%	16.7%	0.3%	2.3%	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	09:00	11:00	08:00	06:00	10:00	04:00	07:00		05:00					08:00
Vol.	1	106	23	1	5	1	1		1					131
PM Peak	14:00	15:00	16:00	12:00	15:00	14:00		12:00						15:00
Vol.	2	169	38	1	7	1		2						211

Old Ayer Road
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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/12/1														
6	0	5	0	0	0	0	0	0	0	0	0	0	0	5
01:00	0	3	3	0	0	0	0	0	0	0	0	0	0	6
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	1	0	0	2	0	0	0	0	0	0	0	0	3
04:00	0	5	1	0	1	0	0	0	0	0	0	0	0	7
05:00	0	6	4	0	2	0	0	0	0	0	0	0	0	12
06:00	0	26	8	0	8	0	0	0	0	0	0	0	0	42
07:00	0	24	11	0	5	0	0	1	0	0	0	0	0	41
08:00	0	38	19	0	10	0	0	0	0	0	0	0	0	67
09:00	0	49	16	1	21	0	0	0	0	0	0	0	0	87
10:00	3	61	17	0	11	1	0	0	0	0	0	0	0	93
11:00	0	72	32	0	12	0	0	2	0	0	0	0	0	118
12 PM	2	72	33	1	16	0	0	0	0	0	0	0	0	124
13:00	2	65	28	0	11	0	0	0	0	0	0	0	0	106
14:00	0	77	15	0	8	0	0	0	0	0	0	0	0	100
15:00	1	63	21	0	4	0	0	1	0	0	0	0	0	90
16:00	3	66	23	0	4	0	0	0	0	0	0	0	0	96
17:00	2	73	20	1	4	0	0	0	0	0	0	0	0	100
18:00	1	49	17	0	5	0	0	0	0	0	0	0	0	72
19:00	0	38	9	0	4	0	0	0	0	0	0	0	0	51
20:00	0	24	9	0	2	0	0	0	0	0	0	0	0	35
21:00	0	25	10	0	2	0	0	0	0	0	0	0	0	37
22:00	0	25	10	0	4	0	0	0	0	0	0	0	0	39
23:00	0	18	1	0	0	0	0	0	0	0	0	0	0	19
Total	14	887	307	3	136	1	0	4	0	0	0	0	0	1352
Percent	1.0%	65.6%	22.7%	0.2%	10.1%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	11:00	11:00	09:00	09:00	10:00		11:00						11:00
Vol.	3	72	32	1	21	1		2						118
PM Peak	16:00	14:00	12:00	12:00	12:00			15:00						12:00
Vol.	3	77	33	1	16			1						124

Old Ayer Road
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/13/1														
6	0	7	1	0	1	0	0	0	0	0	0	0	0	9
01:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2
05:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
06:00	0	22	6	0	6	0	0	0	0	0	0	0	0	34
07:00	0	19	10	0	4	0	0	1	0	0	0	0	0	34
08:00	0	16	12	0	1	0	0	0	0	0	0	0	0	29
09:00	0	42	13	0	12	0	0	0	0	0	0	0	0	67
10:00	0	45	19	0	8	0	0	0	0	0	0	0	0	72
11:00	0	59	14	0	6	0	0	0	0	0	0	0	0	79
12 PM	2	75	25	0	9	0	0	0	0	0	0	0	0	111
13:00	3	71	25	0	10	0	0	0	0	0	0	0	0	109
14:00	0	60	19	0	7	0	0	1	0	0	0	0	0	87
15:00	5	79	32	0	8	0	0	0	0	0	0	0	0	124
16:00	3	66	21	0	9	0	0	0	0	0	0	0	0	99
17:00	2	66	21	0	3	0	0	2	0	0	0	0	0	94
18:00	0	57	25	0	7	0	0	0	0	0	0	0	0	89
19:00	1	44	8	0	5	0	0	0	0	0	0	0	0	58
20:00	0	33	7	0	1	0	0	0	0	0	0	0	0	41
21:00	0	21	7	0	0	0	0	0	0	0	0	0	0	28
22:00	0	15	2	0	0	0	0	0	0	0	0	0	0	17
23:00	0	5	1	0	1	0	0	0	0	0	0	0	0	7
Total	16	809	272	0	99	0	0	4	0	0	0	0	0	1200
Percent	1.3%	67.4%	22.7%	0.0%	8.3%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak		11:00	10:00		09:00			07:00						11:00
Vol.		59	19		12			1						79
PM Peak	15:00	15:00	15:00		13:00			17:00						15:00
Vol.	5	79	32		10			2						124



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164969 E CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	3	0	1	1	0	0	0	0	0	0	0	0	5
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
03:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
04:00	0	5	0	0	2	1	0	0	0	0	0	0	0	8
05:00	0	14	4	0	6	0	0	0	0	0	0	0	0	24
06:00	0	69	26	0	17	0	0	0	1	0	0	0	0	113
07:00	0	136	73	1	23	0	0	1	0	0	0	0	0	234
08:00	1	125	56	0	17	0	0	0	0	0	0	0	0	199
09:00	0	82	34	0	13	1	0	1	0	0	0	0	0	131
10:00	2	61	35	1	13	1	0	1	0	0	0	0	0	114
11:00	0	64	21	1	9	0	0	0	1	0	0	0	0	96
12 PM	0	61	23	0	14	0	0	0	0	0	0	0	0	98
13:00	0	90	25	1	13	1	0	0	1	0	0	0	0	131
14:00	0	103	31	1	12	1	0	1	1	0	0	0	0	150
15:00	1	74	34	0	11	0	0	1	0	0	0	0	0	121
16:00	1	94	35	0	8	0	0	1	0	0	0	0	0	139
17:00	0	79	31	0	4	0	0	0	0	0	0	0	0	114
18:00	1	64	27	0	6	0	0	0	0	0	0	0	0	98
19:00	1	41	15	0	4	0	0	0	0	0	0	0	0	61
20:00	0	22	10	0	4	1	0	0	0	0	0	0	0	37
21:00	0	20	8	0	2	0	0	0	0	0	0	0	0	30
22:00	0	22	3	0	0	0	0	0	0	0	0	0	0	25
23:00	0	9	3	0	1	0	0	0	0	0	0	0	0	13
Total	7	1241	497	6	181	6	0	6	4	0	0	0	0	1948
Percent	0.4%	63.7%	25.5%	0.3%	9.3%	0.3%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	07:00	07:00	00:00	07:00	04:00		07:00	06:00					07:00
Vol.	2	136	73	1	23	1		1	1					234
PM Peak	15:00	14:00	16:00	13:00	12:00	13:00		14:00	13:00					14:00
Vol.	1	103	35	1	14	1		1	1					150



PRECISION
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Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	5	1	0	0	0	0	0	0	0	0	0	0	6
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	1	1	0	1	0	0	0	0	0	0	0	0	3
04:00	0	7	0	0	3	0	0	0	0	0	0	0	0	10
05:00	0	17	4	1	5	1	0	1	0	0	0	0	0	29
06:00	0	53	22	0	21	0	0	0	0	0	0	0	0	96
07:00	0	185	75	2	22	0	0	0	0	0	0	0	0	284
08:00	1	132	43	2	23	1	0	0	0	0	0	0	0	202
09:00	0	96	33	0	12	1	0	0	0	0	0	0	0	142
10:00	1	74	32	0	18	0	0	0	0	0	0	0	0	125
11:00	0	68	23	3	13	1	0	1	0	0	0	0	0	109
12 PM	1	86	33	0	13	0	0	0	0	0	0	0	0	133
13:00	0	67	26	2	14	0	0	1	0	0	0	0	0	110
14:00	1	91	39	2	13	0	0	2	0	0	0	0	0	148
15:00	0	98	38	0	8	0	0	0	0	0	0	0	0	144
16:00	0	73	26	0	8	0	0	0	0	0	0	0	0	107
17:00	0	74	29	0	10	0	0	0	0	0	0	0	0	113
18:00	0	66	19	0	8	0	0	0	0	0	0	0	0	93
19:00	0	51	18	0	3	0	0	0	0	0	0	0	0	72
20:00	0	33	15	0	4	0	0	0	0	0	0	0	0	52
21:00	0	33	7	0	3	0	0	0	0	0	0	0	0	43
22:00	0	8	6	0	1	0	0	0	0	0	0	0	0	15
23:00	0	12	2	0	1	0	0	0	0	0	0	0	0	15
Total	4	1332	492	12	204	4	0	5	0	0	0	0	0	2053
Percent	0.2%	64.9%	24.0%	0.6%	9.9%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	07:00	11:00	08:00	05:00		05:00						07:00
Vol.	1	185	75	3	23	1		1						284
PM Peak	12:00	15:00	14:00	13:00	13:00			14:00						14:00
Vol.	1	98	39	2	14			2						148

Old Ayer Road
 south of Peabody Street
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
 D A T A
 INDUSTRIES, LLC
 P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

164969 E CLASS
 Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/16/1														
6	0	2	0	0	1	0	0	0	0	0	0	0	0	3
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	1	3	0	2	0	0	0	0	0	0	0	0	6
04:00	0	8	1	0	3	0	0	0	0	0	0	0	0	12
05:00	0	17	2	1	6	0	0	0	0	0	0	0	0	26
06:00	0	70	25	0	16	0	0	0	1	0	0	0	0	112
07:00	2	142	61	1	27	0	0	0	0	0	0	0	0	233
08:00	1	135	44	0	17	0	0	0	0	0	0	0	0	197
09:00	1	70	33	0	19	0	0	0	0	0	0	0	0	123
10:00	1	75	40	0	12	1	0	0	0	0	0	0	0	129
11:00	0	72	28	0	13	0	0	0	0	0	0	0	0	113
12 PM	0	70	27	2	13	1	0	1	1	0	0	0	0	115
13:00	0	74	25	2	17	1	0	1	0	0	0	0	0	120
14:00	0	89	49	1	7	0	0	0	0	0	0	0	0	146
15:00	4	97	47	0	11	0	0	0	0	0	0	0	0	159
16:00	2	95	35	0	14	0	0	0	0	0	0	0	0	146
17:00	1	106	25	0	12	0	0	0	0	0	0	0	0	144
18:00	1	57	31	0	6	0	0	0	0	0	0	0	0	95
19:00	0	61	17	0	8	0	0	0	0	0	0	0	0	86
20:00	0	46	8	0	4	0	0	0	0	0	0	0	0	58
21:00	0	39	13	1	4	0	0	0	0	0	0	0	0	57
22:00	0	13	3	0	1	0	0	0	0	0	0	0	0	17
23:00	0	6	0	0	1	0	0	0	0	0	0	0	0	7
Total	13	1348	517	8	214	3	0	2	2	0	0	0	0	2107
Percent	0.6%	64.0%	24.5%	0.4%	10.2%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	05:00	07:00	10:00			06:00					07:00
Vol.	2	142	61	1	27	1			1					233
PM Peak	15:00	17:00	14:00	12:00	13:00	12:00		12:00	12:00					15:00
Vol.	4	106	49	2	17	1		1	1					159

Old Ayer Road
south of Peabody Street
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PRECISION
DATA
INDUSTRIES, LLC

P.O.Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/17/1														
6	0	6	0	0	0	0	0	0	0	0	0	0	0	6
01:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	1	2	0	0	0	0	0	0	0	0	0	0	3
04:00	0	8	1	0	4	0	0	0	0	0	0	0	0	13
05:00	0	14	3	1	4	0	0	0	0	0	0	0	0	22
06:00	0	61	25	0	20	0	0	0	0	0	0	0	0	106
07:00	1	168	63	1	20	0	0	1	0	0	0	0	0	254
08:00	2	123	58	0	20	0	0	1	0	0	0	0	0	204
09:00	0	97	34	0	11	0	0	0	0	0	0	0	0	142
10:00	1	87	32	0	11	1	0	1	0	0	0	0	0	133
11:00	0	68	30	1	11	1	0	1	0	0	0	0	0	112
12 PM	4	84	27	0	11	1	0	0	0	0	0	0	0	127
13:00	3	83	42	3	16	0	0	1	0	0	0	0	0	148
14:00	0	111	35	2	18	0	0	1	1	0	0	0	0	168
15:00	1	95	41	0	15	0	0	0	0	0	0	0	0	152
16:00	2	102	34	0	10	1	0	0	0	0	0	0	0	149
17:00	0	80	31	0	5	0	0	0	0	0	0	0	0	116
18:00	0	75	26	0	11	0	0	0	0	0	0	0	0	112
19:00	0	48	22	0	6	0	0	0	0	0	0	0	0	76
20:00	1	42	15	0	4	0	0	0	0	0	0	0	0	62
21:00	1	45	8	0	2	0	0	0	0	0	0	0	0	56
22:00	1	23	6	0	2	0	0	0	0	0	0	0	0	32
23:00	0	7	4	0	1	0	0	0	0	0	0	0	0	12
Total	17	1432	539	8	203	4	0	6	1	0	0	0	0	2210
Percent	0.8%	64.8%	24.4%	0.4%	9.2%	0.2%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	07:00	05:00	06:00	10:00		07:00						07:00
Vol.	2	168	63	1	20	1		1						254
PM Peak	12:00	14:00	13:00	13:00	14:00	12:00		13:00	14:00					14:00
Vol.	4	111	42	3	18	1		1	1					168

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P.O.Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/18/1														
6	0	1	1	0	1	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	1	0	0	0	0	1
02:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	3	0	0	0	0	0	0	0	0	0	0	3
04:00	0	6	1	0	2	1	0	0	0	0	0	0	0	10
05:00	0	18	4	0	7	0	0	0	0	0	0	0	0	29
06:00	1	52	31	0	19	0	0	0	1	0	0	0	0	104
07:00	1	136	50	1	13	0	0	0	1	0	0	0	0	202
08:00	0	113	51	0	16	1	0	1	0	0	0	0	0	182
09:00	1	82	31	2	17	0	0	0	0	0	0	0	0	133
10:00	1	70	27	0	14	1	0	0	0	0	0	0	0	113
11:00	2	71	35	0	14	1	1	1	0	0	0	0	0	125
12 PM	1	58	28	1	14	0	0	0	0	0	0	0	0	102
13:00	2	79	37	1	15	0	0	0	1	0	0	0	0	135
14:00	1	95	45	1	5	0	0	1	0	0	0	0	0	148
15:00	1	94	55	0	14	1	0	0	0	0	0	0	0	165
16:00	0	82	32	0	12	0	0	0	0	0	0	0	0	126
17:00	1	108	19	0	15	0	0	0	0	0	0	0	0	143
18:00	1	105	19	0	3	0	0	0	0	0	0	0	0	128
19:00	1	46	10	0	8	0	0	0	0	0	0	0	0	65
20:00	0	42	10	0	9	0	0	0	0	0	0	0	0	61
21:00	0	33	9	0	3	0	0	0	0	0	0	0	0	45
22:00	0	26	3	0	1	0	0	0	0	0	0	0	0	30
23:00	0	17	7	0	2	0	0	0	0	0	0	0	0	26
Total	14	1335	509	6	204	5	1	3	4	0	0	0	0	2081
Percent	0.7%	64.2%	24.5%	0.3%	9.8%	0.2%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	07:00	08:00	09:00	06:00	04:00	11:00	08:00	01:00					07:00
Vol.	2	136	51	2	19	1	1	1	1					202
PM Peak	13:00	17:00	15:00	12:00	13:00	15:00		14:00	13:00					15:00
Vol.	2	108	55	1	15	1		1	1					165

Old Ayer Road
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PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E SPEED
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/12/																	
16		0	0	0	0	3	5	2	1	0	0	0	0	0	11	42	37
01:00		0	0	0	0	2	3	1	0	1	1	0	0	0	8	53	41
02:00		0	0	0	0	0	3	2	0	0	0	0	0	0	5	42	39
03:00		0	0	0	0	2	4	1	1	0	0	0	0	0	8	42	38
04:00		0	0	0	0	0	1	0	0	0	0	0	0	0	1	38	37
05:00		0	0	0	0	0	4	2	0	0	0	0	0	0	6	41	39
06:00		0	0	0	0	1	8	4	5	1	0	0	0	0	19	47	41
07:00		0	0	0	0	3	15	26	8	0	1	0	0	0	53	44	41
08:00		0	0	0	0	5	19	25	15	2	0	0	0	0	66	46	41
09:00		0	0	0	0	6	23	34	9	0	1	0	0	1	74	43	40
10:00		0	1	0	0	3	41	42	15	2	0	0	0	0	104	44	40
11:00		1	4	4	14	22	36	18	4	3	0	0	1	0	107	41	35
12 PM		1	1	0	3	10	38	51	13	1	0	0	0	0	118	43	39
13:00		0	0	0	0	18	35	31	10	1	1	0	0	0	96	43	39
14:00		0	0	1	0	10	43	41	6	0	1	0	0	0	102	42	39
15:00		0	2	0	2	10	41	47	9	2	0	0	0	0	113	43	39
16:00		1	0	0	0	14	42	31	6	0	0	0	0	0	94	42	38
17:00		0	0	0	0	9	37	27	5	2	0	0	0	0	80	43	39
18:00		1	0	0	2	2	30	16	7	0	0	0	0	0	58	43	39
19:00		0	0	0	1	7	21	21	3	0	1	0	0	0	54	43	39
20:00		0	0	0	1	7	21	20	1	1	0	0	0	0	51	42	39
21:00		0	0	0	0	4	11	12	1	0	0	0	0	0	28	42	39
22:00		0	0	1	0	5	18	8	0	0	0	0	0	0	32	41	37
23:00		0	0	0	0	2	9	9	2	1	0	0	0	0	23	43	40
Total		4	8	6	23	145	508	471	121	17	6	0	1	1	1311		
%		0.3%	0.6%	0.5%	1.8%	11.1%	38.7%	35.9%	9.2%	1.3%	0.5%	0.0%	0.1%	0.1%			
AM Peak	11:00	11:00	11:00	11:00	11:00	10:00	10:00	08:00	11:00	01:00			11:00	09:00	11:00		
Vol.	1	4	4	14	22	41	42	15	3	1			1	1	107		
PM Peak	12:00	15:00	14:00	12:00	13:00	14:00	12:00	12:00	15:00	13:00					12:00		
Vol.	1	2	1	3	18	43	51	13	2	1					118		

Stats
15th Percentile : 34 MPH
50th Percentile : 38 MPH
85th Percentile : 43 MPH
95th Percentile : 47 MPH

Mean Speed(Average) : 39 MPH
10 MPH Pace Speed : 35-44 MPH
Number in Pace : 979
Percent in Pace : 74.7%
Number of Vehicles > 40 MPH : 523
Percent of Vehicles > 40 MPH : 39.9%

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
D A T A
INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E SPEED
Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/13/																													
	16	0	0	0	0	0	0	2	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	45	41	
	01:00	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	37	35	
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
	03:00	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	46	42	
	04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	53	52	
	05:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	32	30	
	06:00	0	0	0	0	0	2	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	47	41	
	07:00	0	0	0	0	0	1	9	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	43	40	
	08:00	1	0	0	0	0	4	18	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	42	38	
	09:00	1	0	0	0	0	1	17	37	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	44	41	
	10:00	0	1	1	0	0	3	35	33	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	43	40	
	11:00	1	0	0	1	0	6	33	37	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	87	43	39	
	12 PM	1	0	0	0	0	5	36	34	9	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	88	43	40	
	13:00	0	0	0	0	1	5	38	43	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	100	43	40	
	14:00	0	0	0	0	1	6	30	38	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	43	40	
	15:00	0	0	0	0	0	10	43	40	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	43	39	
	16:00	0	0	0	0	1	8	32	44	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	43	40	
	17:00	0	1	0	0	0	13	39	36	7	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	99	43	39	
	18:00	0	0	0	0	0	4	32	32	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	43	40	
	19:00	0	0	0	1	2	12	19	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	42	37	
	20:00	0	0	0	0	2	6	15	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	42	38	
	21:00	0	0	0	0	0	2	8	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	43	40	
	22:00	0	0	0	0	0	1	8	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	43	40	
	23:00	0	0	0	0	0	0	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	43	40	
	Total	4	2	2	9	94	424	447	107	9	3	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1103			
	%	0.4%	0.2%	0.2%	0.8%	8.5%	38.4%	40.5%	9.7%	0.8%	0.3%	0.1%	0.0%	0.1%															
AM	Peak	08:00	10:00	10:00	05:00	11:00	10:00	09:00	09:00	04:00	11:00																11:00		
	Vol.	1	1	1	1	6	35	37	12	1	1																87		
PM	Peak	12:00	17:00	19:00	19:00	17:00	15:00	16:00	14:00	13:00	12:00	17:00														17:00	13:00		
	Vol.	1	1	1	2	13	43	44	10	3	1	1														1	100		

Stats

15th Percentile : 34 MPH
50th Percentile : 39 MPH
85th Percentile : 43 MPH
95th Percentile : 47 MPH

Mean Speed(Average) : 40 MPH
10 MPH Pace Speed : 35-44 MPH
Number in Pace : 871
Percent in Pace : 79.0%
Number of Vehicles > 40 MPH : 479
Percent of Vehicles > 40 MPH : 43.4%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/14/																	
16	0	0	0	0	1	2	1	0	0	0	0	0	0	0	4	41	37
01:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	38	37
02:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	38	37
03:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	43	42
04:00	0	0	0	0	2	1	2	0	0	0	0	0	0	0	5	42	37
05:00	0	0	0	0	0	4	5	2	0	0	0	0	0	0	11	44	41
06:00	0	0	0	1	3	19	8	3	1	0	0	0	0	0	35	43	39
07:00	0	0	0	0	9	41	42	13	1	0	0	0	0	0	106	43	40
08:00	0	0	0	1	6	51	39	5	0	0	0	0	0	0	102	42	39
09:00	0	0	0	3	17	52	33	6	0	0	0	0	0	0	111	42	38
10:00	0	0	0	2	13	59	28	3	0	0	0	0	0	0	105	41	38
11:00	0	0	0	1	9	63	24	7	1	0	0	0	0	0	105	42	38
12 PM	0	0	0	1	14	51	30	6	0	0	0	0	0	0	102	42	38
13:00	0	0	0	0	13	42	28	10	0	0	0	0	0	0	93	43	39
14:00	0	0	0	0	8	61	46	10	1	0	0	0	0	0	126	43	39
15:00	0	0	0	0	12	69	83	26	1	0	0	0	0	0	191	43	40
16:00	0	0	0	0	8	93	85	13	1	0	0	0	0	0	200	43	40
17:00	0	0	0	0	12	84	66	13	0	0	0	0	0	0	175	42	39
18:00	0	0	0	3	10	65	33	5	0	0	0	0	0	0	116	42	38
19:00	0	0	0	5	15	40	16	2	0	0	0	0	0	0	78	40	37
20:00	0	0	0	1	7	19	13	0	0	0	0	0	0	0	40	41	37
21:00	0	0	0	0	8	16	8	0	0	0	0	0	0	0	32	41	37
22:00	0	0	0	0	4	9	6	1	1	0	0	0	0	0	21	43	39
23:00	0	0	0	1	2	5	6	2	0	1	0	0	0	0	17	45	40
Total	0	0	0	19	173	848	603	127	7	1	0	0	0	0	1778		
%	0.0%	0.0%	0.0%	1.1%	9.7%	47.7%	33.9%	7.1%	0.4%	0.1%	0.0%	0.0%	0.0%				
AM Peak Vol.				09:00	09:00	11:00	07:00	07:00	06:00						09:00		
				3	17	63	42	13	1						111		
PM Peak Vol.				19:00	19:00	16:00	16:00	15:00	14:00	23:00					16:00		
				5	15	93	85	26	1	1					200		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 42 MPH
 95th Percentile : 45 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1451
 Percent in Pace : 81.6%
 Number of Vehicles > 40 MPH : 617
 Percent of Vehicles > 40 MPH : 34.7%

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
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INDUSTRIES, LLC
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164969 E SPEED
Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed	
03/15/																														
	16	0	0	0	1	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	42	36		
	01:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	33	32		
	02:00	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	37		
	03:00	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	37		
	04:00	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	37		
	05:00	1	0	0	0	0	9	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	38	33		
	06:00	0	0	0	1	0	12	19	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	38	36		
	07:00	0	0	0	0	0	14	45	48	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	116	43	39		
	08:00	0	0	0	0	1	10	54	37	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	42	38		
	09:00	0	0	0	0	1	17	36	35	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	43	39		
	10:00	0	0	0	0	1	18	46	31	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	43	39		
	11:00	2	0	0	1	10	10	66	47	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	42	38		
	12 PM	0	0	0	0	7	65	37	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	42	39		
	13:00	0	0	0	0	4	16	48	33	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	42	38		
	14:00	0	0	0	0	4	12	55	81	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	163	43	40		
	15:00	1	0	0	0	0	19	91	72	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199	43	39		
	16:00	0	1	0	0	0	13	86	100	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	42	39		
	17:00	0	0	0	0	0	13	97	82	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206	42	39		
	18:00	0	0	0	0	0	11	58	43	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	121	42	39		
	19:00	0	0	0	0	3	14	47	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	41	37		
	20:00	0	0	0	0	1	7	11	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	41	37		
	21:00	0	0	0	0	1	7	14	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	42	38		
	22:00	0	0	0	0	0	1	8	4	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16	45	40		
	23:00	0	0	0	0	0	3	9	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	44	39		
	Total	4	1	2	17	219	865	705	118	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1940				
	%	0.2%	0.1%	0.1%	0.9%	11.3%	44.6%	36.3%	6.1%	0.3%	0.2%	0.1%	0.0%	0.0%																
AM	Peak	11:00		00:00	08:00	10:00	11:00	07:00	09:00	09:00	07:00																11:00			
	Vol.	2		1	1	18	66	48	10	1	1																132			
PM	Peak	15:00	16:00		13:00	15:00	17:00	16:00	15:00	12:00	14:00	18:00															16:00			
	Vol.	1	1		4	19	97	100	16	1	1	1															210			

Stats

15th Percentile : 34 MPH
50th Percentile : 38 MPH
85th Percentile : 42 MPH
95th Percentile : 45 MPH

Mean Speed(Average) : 39 MPH
10 MPH Pace Speed : 35-44 MPH
Number in Pace : 1570
Percent in Pace : 80.9%
Number of Vehicles > 40 MPH : 691
Percent of Vehicles > 40 MPH : 35.6%



PRECISION
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Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed	
03/16/																														
16	0	0	0	0	0	2	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	39	37		
01:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	43	42		
02:00	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	33	32		
03:00	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	40	33		
04:00	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	41	38		
05:00	0	0	0	0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	40	36		
06:00	0	0	0	0	9	15	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	42	38		
07:00	0	0	0	0	10	44	48	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	43	40		
08:00	1	0	0	0	8	40	58	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	42	39		
09:00	0	0	0	0	4	42	25	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	42	39		
10:00	1	0	1	2	11	49	42	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	42	38		
11:00	1	0	1	0	10	56	30	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	42	38		
12 PM	0	1	0	0	8	52	50	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	42	39		
13:00	0	1	1	4	8	55	31	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	107	42	38		
14:00	0	0	0	0	16	72	58	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	43	39		
15:00	0	0	1	2	19	73	103	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	43	39		
16:00	0	0	0	0	17	93	85	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207	42	39		
17:00	1	1	0	2	15	92	87	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	42	39		
18:00	0	0	0	0	8	73	52	9	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145	43	40		
19:00	0	1	0	0	9	44	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	41	38		
20:00	0	0	0	0	10	20	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	42	38		
21:00	0	0	0	0	6	16	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	40	37		
22:00	0	0	0	0	1	5	10	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	44	41		
23:00	0	0	0	0	4	7	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	43	39		
Total	4	5	4	10	185	863	743	105	16	0	2	0	1	1938																
%	0.2%	0.3%	0.2%	0.5%	9.5%	44.5%	38.3%	5.4%	0.8%	0.0%	0.1%	0.0%	0.1%																	
AM Peak	08:00	03:00	10:00	10:00	10:00	11:00	08:00	07:00	11:00												07:00						10:00			
Vol.	1	1	1	2	11	56	58	6	2												1						112			
PM Peak	17:00	12:00	13:00	13:00	15:00	16:00	15:00	17:00	14:00													18:00			13:00		15:00			
Vol.	1	1	1	4	19	93	103	12	4													1			1		210			

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 42 MPH
 95th Percentile : 45 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1606
 Percent in Pace : 82.9%
 Number of Vehicles > 40 MPH : 718
 Percent of Vehicles > 40 MPH : 37.1%

Old Ayer Road
 south of Peabody Street
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 Client: Stantec/ S. Wood



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164969 E SPEED
 Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/17/																													
	16	0	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	39	36	
	01:00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	36	34	
	02:00	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	40	
	03:00	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	41	36	
	04:00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	38	37	
	05:00	0	0	0	0	2	3	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	41	35	
	06:00	0	0	0	0	2	5	23	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	42	38	
	07:00	0	0	0	0	0	10	53	38	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	43	39	
	08:00	0	0	0	0	2	14	47	47	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	42	39	
	09:00	0	0	0	0	1	15	50	30	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	42	38	
	10:00	0	0	0	0	0	10	36	50	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	43	40	
	11:00	0	1	0	0	0	10	66	44	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	43	39	
	12 PM	0	0	0	0	0	14	50	44	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	43	39	
	13:00	1	0	0	0	2	9	54	42	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	43	39	
	14:00	0	0	0	0	0	13	76	55	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	43	39	
	15:00	1	0	0	1	3	22	103	91	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234	42	39	
	16:00	1	0	0	0	1	9	100	84	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209	42	39	
	17:00	0	0	0	1	0	22	109	75	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212	42	38	
	18:00	0	0	0	0	0	3	67	49	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	43	40	
	19:00	0	0	0	0	1	8	39	30	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	42	39	
	20:00	0	0	0	0	0	6	20	12	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43	39	
	21:00	0	0	0	0	1	4	18	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	42	38	
	22:00	0	0	0	0	0	5	10	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	43	38	
	23:00	0	0	0	0	0	3	4	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	44	40	
	Total	3	1	2	15	192	937	729	150	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2034			
	%	0.1%	0.0%	0.1%	0.7%	9.4%	46.1%	35.8%	7.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
	AM Peak Vol.		11:00		05:00	09:00	11:00	10:00	07:00	10:00																	11:00		
	PM Peak Vol.	13:00		15:00	15:00	15:00	17:00	15:00	14:00	14:00																	15:00		
		1		1	3	22	109	91	16	1																	234		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 42 MPH
 95th Percentile : 45 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1666
 Percent in Pace : 81.9%
 Number of Vehicles > 40 MPH : 738
 Percent of Vehicles > 40 MPH : 36.3%



PRECISION
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164969 E SPEED
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/18/																	
16	0	0	0	0	0	0	4	2	0	0	0	0	0	0	6	41	39
01:00	0	0	0	0	0	0	1	3	0	0	0	0	0	0	4	43	41
02:00	0	0	0	0	1	1	3	3	1	0	0	0	0	0	8	43	39
03:00	0	0	0	0	1	1	4	0	0	0	0	0	0	0	5	38	36
04:00	0	0	0	0	1	1	1	5	1	0	0	0	0	0	8	43	41
05:00	0	0	0	0	4	4	5	1	1	0	0	0	0	0	11	40	37
06:00	0	0	0	0	5	11	11	13	2	1	0	0	0	0	32	43	39
07:00	0	1	0	0	9	53	42	8	2	0	0	0	0	0	115	43	39
08:00	0	0	0	0	12	58	47	13	1	0	0	0	0	0	131	43	39
09:00	0	0	0	2	8	40	40	4	0	0	0	0	0	0	94	42	39
10:00	0	0	0	2	8	44	51	10	2	0	0	0	0	0	117	43	40
11:00	0	1	1	0	8	59	53	8	0	0	0	0	0	0	130	42	39
12 PM	0	0	1	1	13	50	45	6	1	0	0	0	0	0	117	42	39
13:00	1	1	0	1	8	39	52	12	2	0	0	0	0	0	116	43	40
14:00	2	0	0	3	12	82	55	7	0	0	0	0	0	0	161	42	38
15:00	1	0	0	0	12	108	77	13	0	0	0	0	0	0	211	42	39
16:00	0	0	0	0	21	91	74	16	2	0	0	0	0	0	204	43	39
17:00	0	1	0	2	9	89	93	9	0	0	0	0	0	0	203	42	39
18:00	1	0	0	0	8	48	46	8	2	0	0	0	0	0	113	43	39
19:00	0	0	0	5	12	36	30	5	0	0	0	0	0	0	88	42	38
20:00	0	0	0	1	5	20	21	2	0	0	0	0	0	0	49	42	39
21:00	0	0	0	1	4	30	11	2	0	0	0	0	0	0	48	41	38
22:00	0	0	0	4	5	10	10	4	0	0	0	0	0	0	33	43	38
23:00	0	0	0	0	3	15	8	5	0	0	0	0	0	0	31	44	39
Total	5	4	2	22	169	901	782	137	13	0	0	0	0	0	2035		
%	0.2%	0.2%	0.1%	1.1%	8.3%	44.3%	38.4%	6.7%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak		07:00	11:00	09:00	08:00	11:00	11:00	08:00	07:00						08:00		
Vol.		1	1	2	12	59	53	13	2						131		
PM Peak	14:00	13:00	12:00	19:00	16:00	15:00	17:00	16:00	13:00						15:00		
Vol.	2	1	1	5	21	108	93	16	2						211		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 43 MPH
 95th Percentile : 45 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1683
 Percent in Pace : 82.7%
 Number of Vehicles > 40 MPH : 776
 Percent of Vehicles > 40 MPH : 38.1%

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
D A T A
INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E SPEED
Site Code: 179410329

SB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed	
03/12/	16	0	0	0	0	0	0	0	0	0	1	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	5	47	43	
	01:00	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	46	43	
	02:00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	48	47	
	03:00	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	39	
	04:00	0	0	0	0	0	0	0	1	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	43	41	
	05:00	0	0	1	0	1	1	4	4	4	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	12	44	39	
	06:00	0	0	0	1	0	12	10	13	4	2	10	13	4	2	0	0	0	0	0	0	0	0	0	0	0	42	48	43	
	07:00	0	0	0	0	1	8	13	16	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	48	43	
	08:00	0	0	0	0	1	11	38	10	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	47	43	
	09:00	0	0	0	0	0	13	38	28	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	48	44	
	10:00	1	1	2	1	2	24	36	17	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	47	41	
	11:00	2	3	6	15	21	24	30	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	43	36	
	12 PM	1	0	0	1	7	40	51	18	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	45	41	
	13:00	0	1	0	0	7	20	51	23	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	46	42	
	14:00	0	0	1	0	1	26	39	26	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	47	42	
	15:00	1	0	0	0	5	16	41	24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	46	42	
	16:00	1	0	1	1	7	38	36	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	43	39	
	17:00	0	0	0	1	9	27	52	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	43	40	
	18:00	0	0	0	0	2	22	34	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	45	41	
	19:00	0	0	0	0	4	12	21	10	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	47	42	
	20:00	0	0	0	0	1	10	17	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	45	42	
	21:00	0	0	0	0	3	16	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	42	39	
	22:00	0	0	0	0	2	8	25	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	43	41	
	23:00	0	0	0	0	3	5	7	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	46	41	
	Total	6	5	11	20	78	341	570	254	56	9	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	1352			
	%	0.4%	0.4%	0.8%	1.5%	5.8%	25.2%	42.2%	18.8%	4.1%	0.7%	0.1%	0.0%	0.1%																
AM Peak	Vol.	11:00	11:00	11:00	11:00	11:00	10:00	08:00	09:00	10:00	09:00														08:00	11:00				
PM Peak	Vol.	12:00	13:00	14:00	12:00	17:00	12:00	17:00	14:00	14:00	12:00	13:00															12:00			
	Vol.	1	1	1	1	9	40	52	26	7	1	1														124				

Stats
15th Percentile : 35 MPH
50th Percentile : 40 MPH
85th Percentile : 46 MPH
95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
10 MPH Pace Speed : 35-44 MPH
Number in Pace : 911
Percent in Pace : 67.4%
Number of Vehicles > 40 MPH : 777
Percent of Vehicles > 40 MPH : 57.5%



PRECISION
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INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
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Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

SB

Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/13/16	0	0	0	0	0	1	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	45	40	
01:00	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	46	41	
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	33	32	
04:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	47	42	
05:00	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42	39	
06:00	0	0	1	0	2	10	13	4	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	34	47	41	
07:00	0	0	0	0	0	14	14	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	45	42	
08:00	0	0	0	0	1	6	13	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	47	43	
09:00	0	0	0	0	6	10	25	24	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	47	43	
10:00	0	0	0	0	1	12	38	15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	47	43	
11:00	0	0	0	0	2	16	40	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	46	42	
12 PM	0	0	0	0	7	23	50	25	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	46	42	
13:00	0	0	0	0	2	27	49	29	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	46	42	
14:00	0	0	0	0	1	15	40	21	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	48	43	
15:00	0	0	0	0	5	36	58	22	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	45	41	
16:00	0	0	2	2	5	28	38	19	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	46	41	
17:00	0	0	0	0	5	20	45	22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	46	42	
18:00	0	0	0	0	4	24	43	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	45	41	
19:00	0	0	0	2	4	18	21	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	45	40	
20:00	0	0	1	0	3	15	14	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	45	40	
21:00	0	0	0	0	2	5	16	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	46	42	
22:00	0	0	0	0	1	2	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	46	43	
23:00	0	0	0	0	2	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	43	40	
Total	0	0	4	4	56	288	536	258	46	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1200			
%	0.0%	0.0%	0.3%	0.3%	4.7%	24.0%	44.7%	21.5%	3.8%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM Peak Vol.			06:00		09:00	11:00	11:00	09:00	10:00	06:00																79		
PM Peak Vol.			16:00	16:00	12:00	15:00	15:00	13:00	14:00	12:00																124		

Stats
 15th Percentile : 36 MPH
 50th Percentile : 41 MPH
 85th Percentile : 46 MPH
 95th Percentile : 48 MPH

Mean Speed(Average) : 42 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 824
 Percent in Pace : 68.7%
 Number of Vehicles > 40 MPH : 741
 Percent of Vehicles > 40 MPH : 61.7%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
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Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

SB

Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed	
03/14/16	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42	39	
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	
02:00	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	40	
03:00	0	0	0	0	0	1	0	3	1	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	5	45	41	
04:00	0	0	0	0	0	1	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	51	43	
05:00	0	0	0	0	0	1	10	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	42	40	
06:00	0	0	0	0	0	3	44	50	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	43	41	
07:00	0	0	0	0	1	4	59	123	39	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234	45	42	
08:00	1	0	0	0	0	6	54	89	45	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199	46	42	
09:00	0	0	0	1	1	7	32	59	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131	46	41	
10:00	1	0	0	0	2	10	40	44	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	43	40	
11:00	0	0	0	0	0	7	31	40	14	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	45	41	
12 PM	0	0	0	0	0	4	28	45	19	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	98	45	41	
13:00	0	1	0	0	1	8	55	46	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131	44	40	
14:00	0	0	0	0	1	12	47	63	25	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	44	41	
15:00	0	0	0	0	0	6	23	62	28	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	46	42	
16:00	1	0	0	0	0	6	39	70	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139	44	41	
17:00	0	0	0	0	0	1	37	50	22	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	46	42	
18:00	0	0	0	0	0	2	24	48	21	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	46	42	
19:00	1	0	0	0	0	6	22	22	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	44	40	
20:00	0	0	0	0	0	4	13	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	43	40	
21:00	0	0	0	0	0	3	10	12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	44	40	
22:00	0	0	0	0	0	3	11	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	43	39	
23:00	0	0	0	0	0	1	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	46	42	
Total	4	1	1	1	6	96	590	871	333	38	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1948			
%	0.2%	0.1%	0.1%	0.3%	4.9%	30.3%	44.7%	17.1%	2.0%	0.3%	0.1%	0.0%	0.0%																
AM Peak Vol.	08:00		09:00	10:00	10:00	07:00	07:00	08:00	07:00	07:00																	234		
PM Peak Vol.	16:00	13:00		13:00	14:00	13:00	16:00	15:00	13:00	14:00	12:00																150		

Stats
 15th Percentile : 35 MPH
 50th Percentile : 40 MPH
 85th Percentile : 45 MPH
 95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1461
 Percent in Pace : 75.0%
 Number of Vehicles > 40 MPH : 1076
 Percent of Vehicles > 40 MPH : 55.2%

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood



PRECISION
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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

164969 E SPEED
Site Code: 179410329

SB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/15/																													
	16	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	6	49	44
	01:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37
	02:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37
	03:00	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	39
	04:00	0	0	0	0	0	0	1	2	6	2	6	1	0	0	0	0	0	0	0	0	0	0	0	0	10	43	41	
	05:00	1	0	0	0	0	9	11	11	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	41	36	
	06:00	0	0	0	0	1	10	52	26	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	42	39	
	07:00	0	1	0	1	13	103	125	33	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	43	40	
	08:00	1	0	0	0	10	54	96	36	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202	45	41	
	09:00	0	0	0	0	8	42	58	27	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	46	41	
	10:00	1	0	0	1	6	35	53	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	45	41	
	11:00	0	0	1	1	4	34	50	10	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	45	41	
	12 PM	1	0	0	0	6	46	53	22	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	45	41	
	13:00	0	0	0	0	4	38	42	21	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	46	41	
	14:00	0	0	0	3	5	42	57	33	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	46	42	
	15:00	0	0	0	0	7	35	63	35	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	46	42	
	16:00	0	0	0	0	4	13	63	23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	46	42	
	17:00	0	0	0	0	1	21	61	28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	46	42	
	18:00	0	0	0	0	4	30	43	11	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	44	41	
	19:00	0	0	0	0	9	24	30	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	43	40	
	20:00	0	0	0	0	5	25	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	42	39	
	21:00	0	0	0	0	5	18	14	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43	39	
	22:00	0	0	0	0	0	3	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	47	43	
	23:00	0	0	0	0	0	8	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	42	40	
	Total	4	1	1	7	111	640	885	337	61	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2053			
	%	0.2%	0.0%	0.0%	0.3%	5.4%	31.2%	43.1%	16.4%	3.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM Peak	Vol.	05:00	07:00	11:00	06:00	07:00	07:00	07:00	08:00	07:00	11:00																07:00		
PM Peak	Vol.	12:00			14:00	19:00	12:00	15:00	15:00	14:00	14:00																14:00		
	Vol.	1	1	1	1	13	103	125	36	7	2															284			
	Vol.	1			3	9	46	63	35	6	2															148			

Stats
15th Percentile : 35 MPH
50th Percentile : 40 MPH
85th Percentile : 45 MPH
95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
10 MPH Pace Speed : 35-44 MPH
Number in Pace : 1525
Percent in Pace : 74.3%
Number of Vehicles > 40 MPH : 1112
Percent of Vehicles > 40 MPH : 54.2%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

SB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/16/																													
16	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	42	39	
01:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37	
02:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	32	30	
03:00	0	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	44	41	
04:00	0	0	0	0	0	0	5	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	46	42	
05:00	0	0	0	0	0	2	9	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	43	40	
06:00	0	0	0	0	0	7	37	56	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	43	40	
07:00	0	0	0	0	8	53	117	49	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233	46	42	
08:00	0	0	0	0	2	39	88	64	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197	47	43	
09:00	1	0	0	1	7	30	52	25	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	46	41	
10:00	0	1	0	2	6	39	58	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	44	41	
11:00	0	0	0	0	4	31	48	23	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	46	42	
12 PM	0	0	0	0	5	34	56	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	44	41	
13:00	0	1	0	1	6	26	61	21	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	45	41	
14:00	0	0	0	0	3	44	67	28	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146	45	42	
15:00	2	0	0	0	4	43	68	36	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159	46	42	
16:00	1	0	0	1	4	37	71	24	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146	46	42	
17:00	2	0	0	0	6	23	78	31	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	46	42	
18:00	0	0	0	0	2	24	46	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	45	42	
19:00	0	0	1	1	0	20	47	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	45	42	
20:00	0	0	0	0	4	20	25	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	44	40	
21:00	0	0	0	0	8	25	21	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	42	39	
22:00	0	0	0	0	2	5	8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	43	41	
23:00	0	0	0	0	1	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	48	42	
Total	6	2	1	7	83	549	991	405	52	8	1	2	0	2107															
%	0.3%	0.1%	0.0%	0.3%	3.9%	26.1%	47.0%	19.2%	2.5%	0.4%	0.0%	0.1%	0.0%																
AM Peak	09:00	10:00		10:00	07:00	07:00	07:00	08:00	07:00	11:00				07:00															
Vol.	1	1		2	8	53	117	64	6	2				233															
PM Peak	15:00	13:00	19:00	13:00	21:00	14:00	17:00	15:00	16:00	16:00	15:00	17:00		15:00															
Vol.	2	1	1	1	8	44	78	36	6	2	1	1		159															

Stats
 15th Percentile : 35 MPH
 50th Percentile : 41 MPH
 85th Percentile : 45 MPH
 95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1540
 Percent in Pace : 73.1%
 Number of Vehicles > 40 MPH : 1261
 Percent of Vehicles > 40 MPH : 59.8%



PRECISION
D A T A
INDUSTRIES, LLC

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Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

SB

Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed	
03/17/																													
16	0	0	0	0	0	1	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	44	41	
01:00	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	40	
02:00	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	41	35	
03:00	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	38	37	
04:00	0	0	0	0	0	1	5	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	43	40		
05:00	0	0	0	0	1	0	12	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	42	39		
06:00	0	0	0	1	2	9	31	50	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	43	40		
07:00	0	0	0	0	0	13	71	117	44	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	254	45	41		
08:00	2	0	1	1	10	52	98	36	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	45	41		
09:00	0	0	0	0	8	23	80	27	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	45	42		
10:00	1	0	0	0	6	32	61	29	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	46	41		
11:00	0	1	0	0	6	34	46	22	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	45	41		
12 PM	0	0	0	1	4	34	56	26	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	46	42		
13:00	1	1	0	0	8	47	59	26	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	45	41		
14:00	0	0	0	0	8	45	79	30	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168	45	41		
15:00	0	0	0	0	5	29	73	39	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	46	42		
16:00	0	0	0	0	2	5	30	80	29	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	149	45	42		
17:00	1	0	0	0	1	35	53	23	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	45	41		
18:00	0	0	0	0	5	33	55	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	44	41		
19:00	0	0	0	0	8	16	40	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	44	41		
20:00	1	0	0	0	3	19	29	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	44	40		
21:00	1	0	0	0	7	20	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	43	39		
22:00	0	0	0	0	2	11	12	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	47	41		
23:00	0	0	0	0	1	2	7	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	12	49	43		
Total	7	2	2	8	111	586	1036	391	59	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2210				
%	0.3%	0.1%	0.1%	0.4%	5.0%	26.5%	46.9%	17.7%	2.7%	0.3%	0.1%	0.0%	0.0%																
AM Peak	08:00	11:00	06:00	06:00	07:00	07:00	07:00	07:00	07:00	07:00																07:00			
Vol.	2	1	1	2	13	71	117	44	7	2																254			
PM Peak	13:00	13:00		16:00	13:00	13:00	16:00	15:00	13:00	12:00	16:00															14:00			
Vol.	1	1		2	8	47	80	39	6	2	1															168			

Stats
 15th Percentile : 35 MPH
 50th Percentile : 40 MPH
 85th Percentile : 45 MPH
 95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1622
 Percent in Pace : 73.4%
 Number of Vehicles > 40 MPH : 1287
 Percent of Vehicles > 40 MPH : 58.2%



PRECISION
D A T A
INDUSTRIES, LLC

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Old Ayer Road
south of Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 E SPEED
Site Code: 179410329

SB

Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/18/16	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	46	42
01:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38	37
02:00	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	40
03:00	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	46	40
04:00	0	0	0	1	0	0	0	0	0	2	4	2	0	1	0	0	0	0	1	0	0	0	0	0	0	10	47	42
05:00	0	0	0	0	0	0	0	2	14	14	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	29	42	39
06:00	1	0	0	0	0	4	33	48	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	44	41
07:00	0	1	0	1	12	62	89	35	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202	44	41
08:00	0	0	1	1	5	45	93	31	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182	45	42
09:00	0	1	1	1	7	28	63	28	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	46	41
10:00	0	0	0	1	3	24	66	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	44	41
11:00	0	0	0	0	5	29	58	29	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	46	42
12 PM	0	0	0	1	5	27	51	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	44	41
13:00	3	0	2	0	4	26	61	35	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	46	41
14:00	0	0	0	2	5	38	61	38	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	46	42
15:00	1	2	0	3	7	51	71	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165	45	40
16:00	1	0	0	1	2	25	58	37	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126	46	42
17:00	3	0	1	0	6	40	58	31	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	46	41
18:00	0	0	0	0	7	35	62	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	45	41
19:00	1	0	0	0	0	20	30	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	45	41
20:00	0	0	0	0	6	12	30	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	45	41
21:00	0	0	0	0	2	14	25	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	43	41
22:00	0	0	0	0	1	7	16	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	45	42
23:00	0	0	0	0	1	10	11	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	44	41
Total	10	4	6	11	84	547	968	398	42	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2081		
%	0.5%	0.2%	0.3%	0.5%	4.0%	26.3%	46.5%	19.1%	2.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	06:00	07:00	04:00	07:00	07:00	07:00	08:00	07:00	08:00	11:00																202		
PM Peak Vol.	13:00	15:00	13:00	15:00	15:00	15:00	15:00	14:00	15:00	14:00															1	165		

Stats
 15th Percentile : 35 MPH
 50th Percentile : 40 MPH
 85th Percentile : 45 MPH
 95th Percentile : 48 MPH

Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 1515
 Percent in Pace : 72.8%
 Number of Vehicles > 40 MPH : 1225
 Percent of Vehicles > 40 MPH : 58.9%

Boston Road (Route 119/225)
 South of Old Ayer Road
 City, State: Groton, MA
 Client: Stantec/ S. Wood



164969 F VOLUME
 Site Code: 179410329

Start Time	12-Mar-16		13-Mar-16		14-Mar-16		15-Mar-16		16-Mar-16		17-Mar-16		18-Mar-16		Week Average	
	SB	NB	SB	NB												
12:00 AM	25	49	34	55	11	22	9	25	8	8	12	19	15	66	17	42
01:00	13	22	21	21	3	12	6	12	10	10	13	8	7	20	9	17
02:00	19	20	0	0	12	7	11	7	7	10	13	7	13	18	11	10
03:00	23	10	8	14	24	8	21	6	19	19	14	19	19	19	19	11
04:00	32	21	14	13	89	13	91	12	102	8	8	97	446	95	13	13
05:00	84	13	33	22	456	31	441	23	440	31	31	446	412	33	330	26
06:00	241	70	111	43	976	145	985	136	973	133	133	970	869	732	732	113
07:00	315	143	156	74	1154	321	1139	328	1128	286	1115	1115	1065	340	867	258
08:00	423	210	216	154	931	332	922	323	933	335	914	345	908	331	750	290
09:00	497	341	324	231	619	290	629	298	574	324	670	305	626	336	563	304
10:00	576	436	409	285	437	301	398	303	472	318	493	349	418	358	458	336
11:00	594	538	477	333	426	374	456	374	503	373	512	390	464	412	490	399
12:00 PM	504	529	466	428	417	404	417	384	455	412	515	469	499	486	468	445
01:00	482	534	471	488	382	456	425	467	374	415	417	503	456	505	430	481
02:00	470	523	462	453	453	539	487	579	476	585	473	580	483	633	472	556
03:00	480	555	461	512	483	737	485	773	498	753	541	730	536	780	498	691
04:00	425	501	451	475	406	1014	444	992	484	974	423	1012	463	997	442	852
05:00	420	488	356	473	364	1076	387	1022	427	974	405	1124	390	997	393	909
06:00	319	414	322	414	256	847	289	820	324	844	255	864	288	797	308	714
07:00	214	276	253	304	203	435	169	523	214	496	217	505	288	418	223	422
08:00	167	222	169	239	127	295	89	321	155	342	172	338	202	297	163	293
09:00	134	196	96	152	68	207	89	226	90	263	118	267	159	220	108	219
10:00	113	182	58	94	54	101	55	106	50	137	63	135	74	182	67	134
11:00	57	119	26	40	30	69	27	64	28	83	37	103	55	110	37	84
Total	6627	6412	5394	5317	8381	8036	8534	8124	8745	8284	8906	8581	8915	8594	7929	7619
Day	13039		10711		16417		16658		17029		17487		17509		15548	
AM Peak	11:00	11:00	11:00	11:00	07:00	11:00	07:00	11:00	07:00	11:00	07:00	11:00	07:00	11:00	07:00	11:00
Vol.	594	538	477	333	1154	374	1139	374	1128	373	1115	390	1065	412	867	399
PM Peak	12:00	15:00	13:00	15:00	15:00	17:00	14:00	17:00	17:00	15:00	17:00	15:00	17:00	15:00	17:00	17:00
Vol.	504	555	471	512	483	1076	487	1022	498	1094	541	1124	536	1087	498	909
Comb. Total	13039		10711		16417		16658		17029		17487		17509		15548	

Boston Road (Route 119/225)
 south of Old Ayer Road
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		12-Mar-16 Sat							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	8	138	12	116	20	254								
12:15	3	125	13	120	16	245								
12:30	7	111	11	148	18	259								
12:45	7	130	13	145	20	275	1033							
01:00	4	127	8	121	12	248								
01:15	2	115	8	130	10	245								
01:30	2	123	4	127	6	250								
01:45	5	117	2	156	7	273	1016							
02:00	3	120	11	136	14	256								
02:15	2	113	4	146	6	259								
02:30	8	123	2	120	10	243								
02:45	6	114	3	121	9	235	993							
03:00	8	125	3	118	11	243								
03:15	3	112	4	142	7	254								
03:30	6	137	2	149	8	286								
03:45	6	106	1	146	7	252	1035							
04:00	6	117	6	145	12	262								
04:15	7	110	7	107	14	217								
04:30	15	100	5	129	20	229								
04:45	4	98	3	120	7	218	926							
05:00	13	105	4	135	17	240								
05:15	21	121	2	130	23	251								
05:30	22	106	4	118	26	224								
05:45	28	88	3	105	31	193	908							
06:00	44	81	8	115	52	196								
06:15	59	99	20	116	79	215								
06:30	77	66	22	100	99	166								
06:45	61	73	20	83	414	81	156	733						
07:00	70	52	24	83	94	135								
07:15	70	55	25	59	95	114								
07:30	93	52	36	77	129	129								
07:45	82	55	58	143	57	276	140	458	112	490				
08:00	95	44	44	57	139	101								
08:15	100	43	57	60	157	103								
08:30	115	41	50	49	165	90								
08:45	113	39	59	210	56	222	172	633	95	389				
09:00	108	34	53	48	161	82								
09:15	118	41	92	43	210	84								
09:30	140	25	87	47	227	72								
09:45	131	34	134	109	341	58	196	240	838	92	330			
10:00	132	24	89	57	221	81								
10:15	166	32	98	50	264	82								
10:30	146	31	112	31	258	62								
10:45	132	26	113	137	436	44	182	269	1012	70	295			
11:00	153	29	124	34	277	63								
11:15	137	12	126	27	263	39								
11:30	161	6	146	28	307	34								
11:45	143	594	10	57	142	538	30	119	285	1132	40	176		
Total	2842	3785	1873	4539	4715	8324								
Percent	60.3%	45.5%	39.7%	54.5%										
Day Total		6627		6412		13039								
Peak	10:15	-	12:00	-	11:00	-	03:15	-	11:00	-	03:15	-	-	-
Vol.	597	-	504	-	538	-	582	-	1132	-	1054	-	-	-
P.H.F.	0.899		0.913		0.921		0.933		0.922		0.921			

Boston Road (Route 119/225)
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 City, State: Groton, MA
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		13-Mar-16 Sun			
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.				
12:00	11	108	11	93	22	201				
12:15	6	114	17	105	23	219				
12:30	9	129	17	109	26	238				
12:45	8	34 115	466	10 55	121	428	18 89	236 894		
01:00	4	108	6	120	10	228				
01:15	6	133	2	118	8	251				
01:30	7	113	10	132	17	245				
01:45	4	21 117	471	3 21	118	488	7 42	235 959		
02:00	0	126	0	108	0	234				
02:15	0	109	0	117	0	226				
02:30	0	111	0	123	0	234				
02:45	0	0 116	462	0 0	105	453	0 0	221 915		
03:00	2	123	1	122	3	245				
03:15	2	114	4	126	6	240				
03:30	1	125	5	132	6	257				
03:45	3	8 99	461	4 14	132	512	7 22	231 973		
04:00	2	110	3	117	5	227				
04:15	4	109	4	132	8	241				
04:30	7	122	2	110	9	232				
04:45	1	14 110	451	4 13	116	475	5 27	226 926		
05:00	3	100	2	127	5	227				
05:15	5	106	7	97	12	203				
05:30	9	71	7	128	16	199				
05:45	16	33 79	356	6 22	121	473	22 55	200 829		
06:00	24	92	2	111	26	203				
06:15	26	91	16	96	42	187				
06:30	35	71	12	97	47	168				
06:45	26	111 68	322	13 43	110	414	39 154	178 736		
07:00	25	67	19	85	44	152				
07:15	44	80	12	76	56	156				
07:30	41	60	25	79	66	139				
07:45	46	156 46	253	18 74	64	304	64 230	110 557		
08:00	37	50	27	68	64	118				
08:15	42	49	36	64	78	113				
08:30	68	39	42	62	110	101				
08:45	69	216 31	169	49 154	45	239	118 370	76 408		
09:00	52	25	45	42	97	67				
09:15	84	20	46	33	130	53				
09:30	91	23	72	42	163	65				
09:45	97	324 28	96	68 231	35	152	165 555	63 248		
10:00	89	16	63	18	152	34				
10:15	114	17	71	32	185	49				
10:30	97	15	73	27	170	42				
10:45	109	409 10	58	78 285	17	94	187 694	27 152		
11:00	110	16	73	11	183	27				
11:15	125	3	76	10	201	13				
11:30	125	5	83	12	208	17				
11:45	117	477 2	26	101 333	7	40	218 810	9 66		
Total	1803	3591	1245	4072	3048	7663				
Percent	59.2%	46.9%	40.8%	53.1%						
Day Total		5394		5317		10711				
Peak	11:00	-	01:15	-	11:00	-	03:00	-	-	-
Vol.	477	-	489	-	333	-	513	-	810	-
P.H.F.	0.954	-	0.919	-	0.824	-	0.972	-	0.929	-

Boston Road (Route 119/225)
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		14-Mar-16 Mon							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	5	91	7	118	12	209								
12:15	3	116	5	102	8	218								
12:30	2	98	4	83	6	181								
12:45	1	112	417	6	22	101	404	33	213	821				
01:00	1	97		3	124		4	221						
01:15	1	111		5	132		6	243						
01:30	1	78		2	97		3	175						
01:45	0	96	382	2	12	103	456	2	15	199	838			
02:00	2	122		1	106		3	228						
02:15	4	133		2	121		6	254						
02:30	3	102		2	150		5	252						
02:45	3	96	453	2	7	162	539	5	19	258	992			
03:00	2	106		0	171		2	277						
03:15	6	129		2	173		8	302						
03:30	10	125		1	165		11	290						
03:45	6	123	483	5	8	228	737	11	32	351	1220			
04:00	11	105		3	259		14	364						
04:15	16	85		1	260		17	345						
04:30	21	121		5	218		26	339						
04:45	41	95	406	4	13	277	1014	45	102	372	1420			
05:00	67	109		6	253		73	362						
05:15	93	103		5	288		98	391						
05:30	141	81		9	264		150	345						
05:45	155	71	364	11	31	271	1076	166	487	342	1440			
06:00	217	72		23	244		240	316						
06:15	256	65		24	230		280	295						
06:30	229	60		46	201		275	261						
06:45	274	59	256	52	145	172	847	326	1121	231	1103			
07:00	290	63		75	131		365	194						
07:15	288	70		65	117		353	187						
07:30	290	41		94	96		384	137						
07:45	286	29	203	87	321	91	435	373	1475	120	638			
08:00	257	40		77	75		334	115						
08:15	233	30		69	82		302	112						
08:30	216	33		87	66		303	99						
08:45	225	24	127	99	332	72	295	324	1263	96	422			
09:00	202	21		80	47		282	68						
09:15	158	11		65	52		223	63						
09:30	126	18		75	52		201	70						
09:45	133	18	68	70	290	56	207	203	909	74	275			
10:00	106	25		71	30		177	55						
10:15	111	10		77	34		188	44						
10:30	108	13		72	19		180	32						
10:45	112	6	54	81	301	18	101	193	738	24	155			
11:00	82	12		106	14		188	26						
11:15	110	12		95	17		205	29						
11:30	118	3		96	19		214	22						
11:45	116	3	30	77	374	19	69	193	800	22	99			
Total	5138	3243		1856	6180		6994	9423						
Percent	73.5%	34.4%		26.5%	65.6%									
Day Total		8381			8036			16417						
Peak	07:00	-	03:00	-	10:45	-	04:45	-	07:00	-	04:45	-	-	-
Vol.	1154	-	483	-	378	-	1082	-	1475	-	1470	-	-	-
P.H.F.	0.995		0.936		0.892		0.939		0.960		0.940			

Boston Road (Route 119/225)
 south of Old Ayer Road
 City, State: Groton, MA
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PRECISION
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		15-Mar-16 Tue
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	1	96	8	98	9	194	
12:15	4	116	7	82	11	198	
12:30	2	105	3	96	5	201	
12:45	2	100	417	7	25	108	384
01:00	1	104	3	118	4	222	34
01:15	2	97	3	115	5	212	
01:30	1	115	4	115	5	230	
01:45	2	109	425	2	12	119	467
02:00	3	127	1	117	4	244	18
02:15	5	120	2	154	7	274	
02:30	1	124	1	154	2	278	
02:45	2	116	487	3	7	154	579
03:00	1	107	1	172	2	279	18
03:15	6	123	4	166	10	289	
03:30	8	130	1	216	9	346	
03:45	6	125	485	0	6	219	773
04:00	16	125	5	250	21	375	27
04:15	16	114	2	260	18	374	
04:30	22	102	2	226	24	328	
04:45	37	103	444	3	12	256	992
05:00	58	80	4	258	62	338	103
05:15	98	93	4	265	102	358	
05:30	116	110	6	257	122	367	
05:45	169	104	387	9	23	242	1022
06:00	229	85	13	251	242	336	464
06:15	246	75	33	193	279	268	
06:30	267	61	29	187	296	248	
06:45	243	68	289	61	136	189	820
07:00	291	53	76	153	367	206	1121
07:15	276	54	73	141	349	195	
07:30	301	42	88	124	389	166	
07:45	271	20	169	91	328	105	523
08:00	282	37	61	71	343	108	1467
08:15	228	29	65	92	293	121	
08:30	200	53	96	80	296	133	
08:45	212	33	152	101	323	78	321
09:00	194	27	65	61	259	88	1245
09:15	168	26	74	61	242	87	111
09:30	146	16	62	56	208	72	473
09:45	121	20	89	97	298	48	226
10:00	97	11	71	43	168	54	927
10:15	96	21	56	25	152	46	
10:30	101	13	89	23	190	36	
10:45	104	10	55	87	303	15	106
11:00	114	6	91	17	205	23	701
11:15	109	7	92	24	201	31	
11:30	119	5	96	13	215	18	
11:45	114	9	27	95	374	10	64
							209
							830
							19
							91
Total	5108	3426	1847	6277	6955	9703	
Percent	73.4%	35.3%	26.6%	64.7%			
Day Total		8534		8124		16658	
Peak	07:00	-	03:15	-	11:00	-	04:45
Vol.	1139	-	503	-	374	-	1036
P.H.F.	0.946	-	0.967	-	0.974	-	0.977
							0.943
							0.959

Boston Road (Route 119/225)
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		16-Mar-16 Wed					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	4	102	16	117	20	219						
12:15	1	112	12	112	13	224						
12:30	1	111	8	99	9	210						
12:45	2	8 130	455	3 39	84	412	5 47	214	867			
01:00	4	93	6	107	10	200						
01:15	0	92	2	89	2	181						
01:30	2	79	2	98	4	177						
01:45	2	8 110	374	2 12	121	415	4 20	231	789			
02:00	2	134	8	97	10	231						
02:15	5	99	1	137	6	236						
02:30	1	132	2	142	3	274						
02:45	2	10 111	476	2 13	209	585	4 23	320	1061			
03:00	2	113	4	155	6	268						
03:15	6	139	2	181	8	320						
03:30	2	127	5	199	7	326						
03:45	9	19 119	498	3 14	218	753	12 33	337	1251			
04:00	14	130	1	244	15	374						
04:15	20	118	3	224	23	342						
04:30	27	114	3	260	30	374						
04:45	41	102 122	484	1 8	246	974	42 110	368	1458			
05:00	55	128	5	269	60	397						
05:15	108	104	8	259	116	363						
05:30	126	114	6	267	132	381						
05:45	151	440 81	427	12 31	299	1094	163 471	380	1521			
06:00	234	107	13	264	247	371						
06:15	247	86	29	214	276	300						
06:30	241	59	23	188	264	247						
06:45	251	973 72	324	68 133	178	844	319 1106	250	1168			
07:00	285	52	66	159	351	211						
07:15	266	75	55	119	321	194						
07:30	318	50	65	118	383	168						
07:45	259	1128 37	214	100 286	100	496	359 1414	137	710			
08:00	263	40	72	84	335	124						
08:15	238	41	70	98	308	139						
08:30	213	40	90	86	303	126						
08:45	219	933 34	155	103 335	74	342	322 1268	108	497			
09:00	187	25	76	77	263	102						
09:15	147	20	76	62	223	82						
09:30	134	21	66	65	200	86						
09:45	106	574 24	90	106 324	59	263	212 898	83	353			
10:00	123	18	74	38	197	56						
10:15	120	16	72	42	192	58						
10:30	116	7	91	35	207	42						
10:45	113	472 9	50	81 318	22	137	194 790	31	187			
11:00	127	7	86	25	213	32						
11:15	122	9	90	25	212	34						
11:30	126	6	95	23	221	29						
11:45	128	503 6	28	102 373	10	83	230 876	16	111			
Total	5170	3575	1886	6398	7056	9973						
Percent	73.3%	35.8%	26.7%	64.2%								
Day Total		8745		8284		17029						
Peak	07:00	-	03:15	-	11:00	-	05:00	-	05:00	-	-	-
Vol.	1128	-	515	-	373	-	1094	-	1414	-	1521	-
P.H.F.	0.887	-	0.926	-	0.914	-	0.915	-	0.923	-	0.958	-

Boston Road (Route 119/225)
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164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		17-Mar-16 Thu			
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.				
12:00	4	109	15	146	19	255				
12:15	8	157	17	114	25	271				
12:30	5	109	7	95	12	204				
12:45	2	19 140	515	2 41 114	469	4 60 254	984			
01:00	1	101	5	116	6	217				
01:15	2	108	2	141	4	249				
01:30	4	108	2	108	6	216				
01:45	1	8 100	417	4 13 138	503	5 21 238	920			
02:00	0	93	1	136	1	229				
02:15	2	136	2	118	4	254				
02:30	3	120	1	157	4	277				
02:45	2	7 124	473	3 7 169	580	5 14 293	1053			
03:00	1	141	4	183	5	324				
03:15	5	117	1	177	6	294				
03:30	4	137	3	170	7	307				
03:45	9	19 146	541	2 10 200	730	11 29 346	1271			
04:00	15	101	2	266	17	367				
04:15	15	104	5	242	20	346				
04:30	22	100	3	246	25	346				
04:45	45	97 118	423	3 13 258	1012	48 110 376	1435			
05:00	59	125	2	281	61	406				
05:15	89	86	16	292	105	378				
05:30	140	94	5	264	145	358				
05:45	158	446 100	405	9 32 287	1124	167 478 387	1529			
06:00	239	73	16	237	255	310				
06:15	248	62	19	222	267	284				
06:30	248	54	37	222	285	276				
06:45	235	970 66	255	61 133 183	864	296 1103 249	1119			
07:00	299	52	69	154	368	206				
07:15	274	63	69	113	343	176				
07:30	312	41	80	125	392	166				
07:45	230	1115 61	217	95 313 113	505	325 1428 174	722			
08:00	252	62	85	86	337	148				
08:15	245	42	75	93	320	135				
08:30	206	30	94	71	300	101				
08:45	211	914 38	172	91 345 88	338	302 1259 126	510			
09:00	181	26	91	76	272	102				
09:15	189	41	67	68	256	109				
09:30	151	27	79	68	230	95				
09:45	149	670 24	118	68 305 55	267	217 975 79	385			
10:00	112	15	81	51	193	66				
10:15	134	19	94	31	228	50				
10:30	116	18	75	30	191	48				
10:45	131	493 11	63	99 349 23	135	230 842 34	198			
11:00	133	9	67	30	200	39				
11:15	117	9	107	26	224	35				
11:30	131	10	107	32	238	42				
11:45	131	512 9	37	109 390 15	103	240 902 24	140			
Total	5270	3636	1951	6630	7221	10266				
Percent	73.0%	35.4%	27.0%	64.6%						
Day Total		8906		8581		17487				
Peak	06:45	-	03:00	-	11:00	-	05:00	-	-	-
Vol.	1120	-	541	-	390	-	1124	-	1428	-
P.H.F.	0.897	-	0.926	-	0.894	-	0.962	-	0.911	-

Boston Road (Route 119/225)
 south of Old Ayer Road
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
 D A T A
 INDUSTRIES, LLC
 P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

164969 F VOLUME
 Site Code: 179410329

Start Time	SB		NB		Combin ed		18-Mar-16 Fri							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	7	127	17	144	24	271								
12:15	3	117	19	104	22	221								
12:30	2	129	21	127	23	256								
12:45	3	15 126	499	9 66	111	486	81 237 985							
01:00	1	123	9	118	10	241								
01:15	2	111	6	146	8	257								
01:30	2	114	6	118	8	232								
01:45	2	7 108	456	8 29	123	505	10 36 231 961							
02:00	3	121	8	119	11	240								
02:15	6	123	5	136	11	259								
02:30	7	137	3	188	10	325								
02:45	4	20 102	483	2 18	190	633	6 38 292 1116							
03:00	5	120	3	181	8	301								
03:15	5	142	2	174	7	316								
03:30	5	137	4	204	9	341								
03:45	4	19 137	536	4 13	221	780	8 32 358 1316							
04:00	17	115	4	240	21	355								
04:15	21	121	1	241	22	362								
04:30	22	106	2	266	24	372								
04:45	35	95 121	463	6 13	250	997	41 108 371 1460							
05:00	46	91	5	278	51	369								
05:15	106	91	6	263	112	354								
05:30	120	88	13	295	133	383								
05:45	140	412 120	390	9 33	251	1087	149 445 371 1477							
06:00	204	112	26	226	230	338								
06:15	222	118	31	209	253	327								
06:30	205	76	33	197	238	273								
06:45	238	869 86	392	43 133	165	797	281 1002 251 1189							
07:00	275	84	82	132	357	216								
07:15	266	68	69	110	335	178								
07:30	295	70	78	90	373	160								
07:45	229	1065 66	288	111 340	86	418	340 1405 152 706							
08:00	258	46	78	72	336	118								
08:15	221	73	57	74	278	147								
08:30	207	42	96	78	303	120								
08:45	222	908 41	202	100 331	73	297	322 1239 114 499							
09:00	172	38	91	57	263	95								
09:15	186	61	85	54	271	115								
09:30	145	30	65	63	210	93								
09:45	123	626 30	159	95 336	46	220	218 962 76 379							
10:00	117	19	78	56	195	75								
10:15	109	22	89	53	198	75								
10:30	88	16	95	34	183	50								
10:45	104	418 17	74	96 358	39	182	200 776 56 256							
11:00	107	12	83	33	190	45								
11:15	100	23	119	32	219	55								
11:30	117	13	97	23	214	36								
11:45	140	464 7	55	113 412	22	110	253 876 29 165							
Total	4918	3997	2082	6512	7000	10509								
Percent	70.3%	38.0%	29.7%	62.0%										
Day Total		8915		8594		17509								
Peak	06:45	-	03:00	-	11:00	-	05:00	-	07:00	-	04:45	-	-	-
Vol.	1074	-	536	-	412	-	1087	-	1405	-	1477	-	-	-
P.H.F.	0.910	-	0.944	-	0.866	-	0.921	-	0.942	-	0.964	-	-	-



PRECISION
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P.O. Box 301 Berlin, MA 01503
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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/12/1														
6	0	22	3	0	0	0	0	0	0	0	0	0	0	25
01:00	0	11	2	0	0	0	0	0	0	0	0	0	0	13
02:00	0	16	2	0	1	0	0	0	0	0	0	0	0	19
03:00	0	14	3	1	5	0	0	0	0	0	0	0	0	23
04:00	0	21	9	1	0	0	0	0	1	0	0	0	0	32
05:00	0	61	19	1	3	0	0	0	0	0	0	0	0	84
06:00	1	155	72	1	10	0	0	1	1	0	0	0	0	241
07:00	0	218	77	0	17	0	0	3	0	0	0	0	0	315
08:00	3	324	83	0	7	0	0	3	3	0	0	0	0	423
09:00	3	386	91	0	14	0	0	1	2	0	0	0	0	497
10:00	9	445	97	0	21	2	0	1	1	0	0	0	0	576
11:00	12	465	103	1	11	1	0	0	1	0	0	0	0	594
12 PM	14	374	102	2	11	1	0	0	0	0	0	0	0	504
13:00	12	371	83	3	11	1	0	0	1	0	0	0	0	482
14:00	21	375	68	2	2	1	0	0	1	0	0	0	0	470
15:00	33	385	51	2	7	0	0	2	0	0	0	0	0	480
16:00	14	330	66	2	12	1	0	0	0	0	0	0	0	425
17:00	14	331	67	2	6	0	0	0	0	0	0	0	0	420
18:00	4	268	39	0	6	0	0	2	0	0	0	0	0	319
19:00	2	174	36	0	2	0	0	0	0	0	0	0	0	214
20:00	0	142	25	0	0	0	0	0	0	0	0	0	0	167
21:00	0	113	17	0	3	0	0	0	1	0	0	0	0	134
22:00	1	97	13	1	1	0	0	0	0	0	0	0	0	113
23:00	0	43	12	0	2	0	0	0	0	0	0	0	0	57
Total	143	5141	1140	19	152	7	0	13	12	0	0	0	0	6627
Percent	2.2%	77.6%	17.2%	0.3%	2.3%	0.1%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	11:00	03:00	10:00	10:00		07:00	08:00					11:00
Vol.	12	465	103	1	21	2		3	3					594
PM Peak	15:00	15:00	12:00	13:00	16:00	12:00		15:00	13:00					12:00
Vol.	33	385	102	3	12	1		2	1					504



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164969 F CLASS
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/13/1														
6	0	27	7	0	0	0	0	0	0	0	0	0	0	34
01:00	0	19	2	0	0	0	0	0	0	0	0	0	0	21
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
04:00	0	11	2	0	1	0	0	0	0	0	0	0	0	14
05:00	1	26	6	0	0	0	0	0	0	0	0	0	0	33
06:00	0	83	24	0	2	0	0	0	2	0	0	0	0	111
07:00	0	126	26	0	2	1	0	0	1	0	0	0	0	156
08:00	2	172	38	1	3	0	0	0	0	0	0	0	0	216
09:00	0	256	59	0	6	1	0	1	1	0	0	0	0	324
10:00	4	315	73	0	13	0	0	3	0	1	0	0	0	409
11:00	10	384	70	0	10	1	0	2	0	0	0	0	0	477
12 PM	8	373	70	0	12	2	0	1	0	0	0	0	0	466
13:00	17	369	79	0	4	0	0	2	0	0	0	0	0	471
14:00	12	383	58	0	5	1	0	3	0	0	0	0	0	462
15:00	19	372	59	0	10	0	0	1	0	0	0	0	0	461
16:00	14	351	75	1	8	1	0	1	0	0	0	0	0	451
17:00	8	284	53	1	9	0	0	0	1	0	0	0	0	356
18:00	4	259	52	0	5	1	0	0	1	0	0	0	0	322
19:00	3	197	47	0	6	0	0	0	0	0	0	0	0	253
20:00	4	138	23	0	4	0	0	0	0	0	0	0	0	169
21:00	0	78	15	1	2	0	0	0	0	0	0	0	0	96
22:00	0	53	5	0	0	0	0	0	0	0	0	0	0	58
23:00	0	24	2	0	0	0	0	0	0	0	0	0	0	26
Total	106	4308	845	4	102	8	0	14	6	1	0	0	0	5394
Percent	2.0%	79.9%	15.7%	0.1%	1.9%	0.1%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	10:00	08:00	10:00	07:00		10:00	06:00	10:00				11:00
Vol.	10	384	73	1	13	1		3	2	1				477
PM Peak	15:00	14:00	13:00	16:00	12:00	12:00		14:00	17:00					13:00
Vol.	19	383	79	1	12	2		3	1					471



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164969 F CLASS
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/14/1														
6	0	10	0	0	1	0	0	0	0	0	0	0	0	11
01:00	0	2	0	0	1	0	0	0	0	0	0	0	0	3
02:00	0	6	4	0	1	0	0	0	1	0	0	0	0	12
03:00	0	16	4	1	3	0	0	0	0	0	0	0	0	24
04:00	0	63	19	1	4	1	0	0	1	0	0	0	0	89
05:00	0	290	136	2	27	0	0	1	0	0	0	0	0	456
06:00	4	674	242	5	43	2	0	3	3	0	0	0	0	976
07:00	10	903	195	7	33	2	1	3	0	0	0	0	0	1154
08:00	8	712	170	6	28	2	0	3	2	0	0	0	0	931
09:00	4	473	109	3	23	1	0	2	4	0	0	0	0	619
10:00	3	339	75	2	13	2	0	0	3	0	0	0	0	437
11:00	6	300	87	8	21	2	1	0	1	0	0	0	0	426
12 PM	4	307	82	4	12	3	0	1	4	0	0	0	0	417
13:00	4	274	84	5	9	1	0	1	4	0	0	0	0	382
14:00	4	340	84	7	12	2	0	0	4	0	0	0	0	453
15:00	6	359	98	7	12	1	0	0	0	0	0	0	0	483
16:00	14	307	68	0	10	4	0	1	2	0	0	0	0	406
17:00	12	292	51	0	6	2	0	1	0	0	0	0	0	364
18:00	3	213	33	1	4	0	0	2	0	0	0	0	0	256
19:00	2	167	28	0	5	0	0	0	1	0	0	0	0	203
20:00	0	102	25	0	0	0	0	0	0	0	0	0	0	127
21:00	0	61	6	0	1	0	0	0	0	0	0	0	0	68
22:00	0	45	8	0	1	0	0	0	0	0	0	0	0	54
23:00	0	24	4	0	0	0	0	1	1	0	0	0	0	30
Total	84	6279	1612	59	270	25	2	19	31	0	0	0	0	8381
Percent	1.0%	74.9%	19.2%	0.7%	3.2%	0.3%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	06:00	11:00	06:00	06:00	07:00	06:00	09:00					07:00
Vol.	10	903	242	8	43	2	1	3	4					1154
PM Peak	16:00	15:00	15:00	14:00	12:00	16:00		18:00	12:00					15:00
Vol.	14	359	98	7	12	4		2	4					483



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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/15/1														
6	0	7	2	0	0	0	0	0	0	0	0	0	0	9
01:00	0	4	1	0	1	0	0	0	0	0	0	0	0	6
02:00	0	7	2	1	1	0	0	0	0	0	0	0	0	11
03:00	0	14	4	1	2	0	0	0	0	0	0	0	0	21
04:00	1	60	24	1	4	0	0	0	1	0	0	0	0	91
05:00	0	295	125	1	19	0	0	0	1	0	0	0	0	441
06:00	0	686	254	9	33	2	0	1	0	0	0	0	0	985
07:00	13	917	170	6	27	2	0	3	1	0	0	0	0	1139
08:00	11	750	134	3	22	1	0	0	1	0	0	0	0	922
09:00	6	503	93	5	16	4	1	1	0	0	0	0	0	629
10:00	3	298	63	5	21	2	0	4	2	0	0	0	0	398
11:00	3	353	76	8	12	2	0	1	1	0	0	0	0	456
12 PM	3	327	64	5	13	2	0	3	0	0	0	0	0	417
13:00	2	333	71	3	9	2	0	1	4	0	0	0	0	425
14:00	8	389	67	9	7	1	0	3	3	0	0	0	0	487
15:00	8	397	53	6	12	3	0	1	5	0	0	0	0	485
16:00	16	372	41	2	8	1	0	3	1	0	0	0	0	444
17:00	13	324	38	2	6	2	0	2	0	0	0	0	0	387
18:00	2	244	36	1	5	0	0	0	1	0	0	0	0	289
19:00	2	137	26	0	2	0	0	0	2	0	0	0	0	169
20:00	3	134	12	0	2	1	0	0	0	0	0	0	0	152
21:00	1	77	10	0	0	0	0	1	0	0	0	0	0	89
22:00	0	46	8	0	1	0	0	0	0	0	0	0	0	55
23:00	1	20	4	0	1	0	0	0	1	0	0	0	0	27
Total	96	6694	1378	68	224	25	1	24	24	0	0	0	0	8534
Percent	1.1%	78.4%	16.1%	0.8%	2.6%	0.3%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	06:00	06:00	06:00	09:00	09:00	10:00	10:00					07:00
Vol.	13	917	254	9	33	4	1	4	2					1139
PM Peak	16:00	15:00	13:00	14:00	12:00	15:00		12:00	15:00					14:00
Vol.	16	397	71	9	13	3		3	5					487



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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/16/1														
6	0	6	1	0	1	0	0	0	0	0	0	0	0	8
01:00	0	4	1	0	1	0	0	1	1	0	0	0	0	8
02:00	0	6	2	0	1	1	0	0	0	0	0	0	0	10
03:00	0	10	2	1	4	1	0	0	1	0	0	0	0	19
04:00	0	71	27	0	3	0	0	1	0	0	0	0	0	102
05:00	0	306	110	2	18	1	0	1	2	0	0	0	0	440
06:00	5	690	229	7	35	2	1	2	2	0	0	0	0	973
07:00	10	887	167	5	51	5	0	2	1	0	0	0	0	1128
08:00	12	726	154	7	26	4	0	2	2	0	0	0	0	933
09:00	5	424	114	3	22	2	1	2	1	0	0	0	0	574
10:00	4	341	100	1	20	2	1	1	2	0	0	0	0	472
11:00	9	372	96	4	13	3	0	2	4	0	0	0	0	503
12 PM	12	328	81	7	18	4	1	2	1	1	0	0	0	455
13:00	7	281	60	3	17	0	0	1	5	0	0	0	0	374
14:00	11	348	84	8	14	3	1	2	5	0	0	0	0	476
15:00	5	370	95	8	17	1	0	0	2	0	0	0	0	498
16:00	16	373	81	1	10	2	0	1	0	0	0	0	0	484
17:00	13	330	75	1	7	0	0	0	1	0	0	0	0	427
18:00	10	254	47	2	11	0	0	0	0	0	0	0	0	324
19:00	3	168	37	0	5	0	0	0	1	0	0	0	0	214
20:00	1	126	24	0	3	0	0	0	1	0	0	0	0	155
21:00	0	79	10	1	0	0	0	0	0	0	0	0	0	90
22:00	0	38	9	0	3	0	0	0	0	0	0	0	0	50
23:00	0	19	7	0	0	0	0	1	1	0	0	0	0	28
Total	123	6557	1613	61	300	31	5	21	33	1	0	0	0	8745
Percent	1.4%	75.0%	18.4%	0.7%	3.4%	0.4%	0.1%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	06:00	06:00	07:00	07:00	06:00	06:00	11:00					07:00
Vol.	12	887	229	7	51	5	1	2	4					1128
PM Peak	16:00	16:00	15:00	14:00	12:00	12:00	12:00	12:00	13:00	12:00				15:00
Vol.	16	373	95	8	18	4	1	2	5	1				498



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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/17/1														
6	0	18	1	0	0	0	0	0	0	0	0	0	0	19
01:00	0	4	3	0	1	0	0	0	0	0	0	0	0	8
02:00	0	4	3	0	0	0	0	0	0	0	0	0	0	7
03:00	0	9	6	1	2	1	0	0	0	0	0	0	0	19
04:00	0	60	27	1	4	1	0	1	3	0	0	0	0	97
05:00	2	294	130	2	18	0	0	0	0	0	0	0	0	446
06:00	3	666	234	7	47	2	4	4	3	0	0	0	0	970
07:00	14	880	172	4	36	1	0	7	1	0	0	0	0	1115
08:00	13	709	153	11	23	3	0	1	1	0	0	0	0	914
09:00	13	497	117	6	26	3	2	2	4	0	0	0	0	670
10:00	2	362	92	2	29	4	0	0	2	0	0	0	0	493
11:00	7	380	90	8	17	4	3	0	3	0	0	0	0	512
12 PM	3	398	86	4	14	5	0	3	2	0	0	0	0	515
13:00	9	323	65	3	7	1	4	2	3	0	0	0	0	417
14:00	10	350	77	8	19	4	0	3	2	0	0	0	0	473
15:00	11	425	81	5	15	2	0	2	0	0	0	0	0	541
16:00	15	334	58	3	9	2	0	2	0	0	0	0	0	423
17:00	19	321	54	1	7	1	0	1	1	0	0	0	0	405
18:00	3	203	41	0	6	1	0	0	1	0	0	0	0	255
19:00	4	170	36	1	4	1	0	0	1	0	0	0	0	217
20:00	5	137	27	0	1	2	0	0	0	0	0	0	0	172
21:00	1	95	19	0	3	0	0	0	0	0	0	0	0	118
22:00	1	49	10	0	1	1	0	1	0	0	0	0	0	63
23:00	0	28	8	0	0	0	0	0	1	0	0	0	0	37
Total	135	6716	1590	67	289	39	13	29	28	0	0	0	0	8906
Percent	1.5%	75.4%	17.9%	0.8%	3.2%	0.4%	0.1%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	06:00	08:00	06:00	10:00	06:00	07:00	09:00					07:00
Vol.	14	880	234	11	47	4	4	7	4					1115
PM Peak	17:00	15:00	12:00	14:00	14:00	12:00	13:00	12:00	13:00					15:00
Vol.	19	425	86	8	19	5	4	3	3					541



PRECISION
D A T A
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Boston Road (Route 119/225)
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City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F CLASS
Site Code: 179410329

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/18/1														
6	0	15	0	0	0	0	0	0	0	0	0	0	0	15
01:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
02:00	0	16	3	0	0	0	0	0	1	0	0	0	0	20
03:00	0	10	6	1	2	0	0	0	0	0	0	0	0	19
04:00	0	59	29	1	5	0	0	0	1	0	0	0	0	95
05:00	0	264	125	5	14	3	0	0	1	0	0	0	0	412
06:00	4	583	234	6	40	2	0	0	0	0	0	0	0	869
07:00	12	821	182	7	29	6	0	4	4	0	0	0	0	1065
08:00	7	714	150	7	26	1	1	1	1	0	0	0	0	908
09:00	6	465	117	5	26	4	0	1	2	0	0	0	0	626
10:00	8	303	85	2	12	1	1	4	2	0	0	0	0	418
11:00	2	357	78	5	16	1	0	1	4	0	0	0	0	464
12 PM	9	367	99	2	16	1	0	3	2	0	0	0	0	499
13:00	6	338	87	1	16	2	1	3	2	0	0	0	0	456
14:00	8	375	78	2	16	2	0	2	0	0	0	0	0	483
15:00	12	415	79	9	13	2	0	1	5	0	0	0	0	536
16:00	13	374	66	0	5	2	0	2	1	0	0	0	0	463
17:00	12	312	51	2	10	1	0	2	0	0	0	0	0	390
18:00	12	308	55	1	13	1	0	1	1	0	0	0	0	392
19:00	1	227	55	1	3	0	0	0	1	0	0	0	0	288
20:00	2	169	28	0	2	1	0	0	0	0	0	0	0	202
21:00	1	135	20	1	2	0	0	0	0	0	0	0	0	159
22:00	1	64	7	0	1	0	0	1	0	0	0	0	0	74
23:00	0	42	11	0	0	1	0	0	1	0	0	0	0	55
Total	116	6739	1646	58	267	31	3	26	29	0	0	0	0	8915
Percent	1.3%	75.6%	18.5%	0.7%	3.0%	0.3%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	06:00	07:00	06:00	07:00	08:00	07:00	07:00					07:00
Vol.	12	821	234	7	40	6	1	4	4					1065
PM Peak	16:00	15:00	12:00	15:00	12:00	13:00	13:00	12:00	15:00					15:00
Vol.	13	415	99	9	16	2	1	3	5					536



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City, State: Groton, MA
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164969 F CLASS
Site Code: 179410329

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/12/1														
6	0	39	7	0	3	0	0	0	0	0	0	0	0	49
01:00	0	19	2	0	1	0	0	0	0	0	0	0	0	22
02:00	0	17	1	0	2	0	0	0	0	0	0	0	0	20
03:00	0	6	2	1	1	0	0	0	0	0	0	0	0	10
04:00	0	15	1	0	4	0	0	0	1	0	0	0	0	21
05:00	0	9	2	1	1	0	0	0	0	0	0	0	0	13
06:00	1	35	20	2	10	1	0	0	1	0	0	0	0	70
07:00	0	101	27	1	10	2	0	1	1	0	0	0	0	143
08:00	4	145	43	0	16	0	0	2	0	0	0	0	0	210
09:00	2	246	53	0	36	3	0	0	1	0	0	0	0	341
10:00	9	320	75	1	28	0	1	2	0	0	0	0	0	436
11:00	13	401	100	0	22	1	0	1	0	0	0	0	0	538
12 PM	13	385	97	1	32	0	0	1	0	0	0	0	0	529
13:00	26	396	84	0	25	1	1	1	0	0	0	0	0	534
14:00	16	398	79	2	26	0	0	2	0	0	0	0	0	523
15:00	20	410	97	2	25	0	0	1	0	0	0	0	0	555
16:00	9	393	76	2	19	0	0	2	0	0	0	0	0	501
17:00	5	378	80	5	19	0	0	1	0	0	0	0	0	488
18:00	6	327	65	0	14	0	0	1	1	0	0	0	0	414
19:00	1	227	39	1	8	0	0	0	0	0	0	0	0	276
20:00	4	181	29	0	7	0	0	1	0	0	0	0	0	222
21:00	2	154	31	1	8	0	0	0	0	0	0	0	0	196
22:00	0	153	22	1	6	0	0	0	0	0	0	0	0	182
23:00	0	94	20	0	5	0	0	0	0	0	0	0	0	119
Total	131	4849	1052	21	328	8	2	16	5	0	0	0	0	6412
Percent	2.0%	75.6%	16.4%	0.3%	5.1%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	11:00	06:00	09:00	09:00	10:00	08:00	04:00					11:00
Vol.	13	401	100	2	36	3	1	2	1					538
PM Peak	13:00	15:00	12:00	17:00	12:00	13:00	13:00	14:00	18:00					15:00
Vol.	26	410	97	5	32	1	1	2	1					555



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NB

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03/13/1														
6	0	45	8	0	2	0	0	0	0	0	0	0	0	55
01:00	0	14	6	0	1	0	0	0	0	0	0	0	0	21
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	9	2	0	3	0	0	0	0	0	0	0	0	14
04:00	0	11	2	0	0	0	0	0	0	0	0	0	0	13
05:00	0	12	5	0	4	0	0	0	1	0	0	0	0	22
06:00	1	31	9	0	2	0	0	0	0	0	0	0	0	43
07:00	0	50	15	0	8	0	0	0	1	0	0	0	0	74
08:00	2	106	34	0	8	0	0	2	2	0	0	0	0	154
09:00	3	182	33	0	12	1	0	0	0	0	0	0	0	231
10:00	7	206	56	0	15	1	0	0	0	0	0	0	0	285
11:00	10	246	58	0	18	0	0	1	0	0	0	0	0	333
12 PM	16	319	62	2	24	4	0	1	0	0	0	0	0	428
13:00	16	392	59	1	17	1	0	2	0	0	0	0	0	488
14:00	18	353	65	0	16	0	0	1	0	0	0	0	0	453
15:00	12	407	72	1	19	0	0	1	0	0	0	0	0	512
16:00	15	380	57	0	19	2	0	2	0	0	0	0	0	475
17:00	7	364	76	1	22	0	0	2	1	0	0	0	0	473
18:00	4	319	74	1	15	0	0	1	0	0	0	0	0	414
19:00	5	236	49	0	12	0	0	2	0	0	0	0	0	304
20:00	1	191	35	1	11	0	0	0	0	0	0	0	0	239
21:00	0	131	18	0	3	0	0	0	0	0	0	0	0	152
22:00	0	81	8	0	5	0	0	0	0	0	0	0	0	94
23:00	0	30	5	0	4	0	0	0	1	0	0	0	0	40
Total	117	4115	808	7	240	9	0	15	6	0	0	0	0	5317
Percent	2.2%	77.4%	15.2%	0.1%	4.5%	0.2%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	11:00		11:00	09:00		08:00	08:00					11:00
Vol.	10	246	58		18	1		2	2					333
PM Peak	14:00	15:00	17:00	12:00	12:00	12:00		13:00	17:00					15:00
Vol.	18	407	76	2	24	4		2	1					512



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	03/14/1														
	6	0	16	3	0	3	0	0	0	0	0	0	0	0	22
	01:00	0	9	3	0	0	0	0	0	0	0	0	0	0	12
	02:00	0	3	0	0	2	0	0	0	2	0	0	0	0	7
	03:00	0	4	2	1	0	0	0	0	1	0	0	0	0	8
	04:00	0	8	2	0	2	0	0	0	1	0	0	0	0	13
	05:00	0	20	5	1	5	0	0	0	0	0	0	0	0	31
	06:00	1	97	25	3	15	2	0	1	1	0	0	0	0	145
	07:00	14	215	72	5	11	1	0	1	2	0	0	0	0	321
	08:00	8	221	62	5	31	2	0	0	3	0	0	0	0	332
	09:00	2	193	62	2	26	1	1	1	2	0	0	0	0	290
	10:00	2	207	58	3	25	3	0	1	2	0	0	0	0	301
	11:00	2	249	81	4	32	1	0	0	5	0	0	0	0	374
	12 PM	6	279	79	4	31	3	0	0	2	0	0	0	0	404
	13:00	6	311	99	3	29	5	0	0	3	0	0	0	0	456
	14:00	1	378	108	10	33	2	0	4	3	0	0	0	0	539
	15:00	4	497	157	8	63	4	0	3	1	0	0	0	0	737
	16:00	14	714	208	2	71	3	0	1	1	0	0	0	0	1014
	17:00	4	848	158	2	58	2	0	2	2	0	0	0	0	1076
	18:00	6	692	102	1	44	1	0	1	0	0	0	0	0	847
	19:00	1	367	48	0	18	0	1	0	0	0	0	0	0	435
	20:00	0	239	44	0	11	0	0	1	0	0	0	0	0	295
	21:00	0	175	26	0	6	0	0	0	0	0	0	0	0	207
	22:00	0	83	14	0	3	0	0	0	1	0	0	0	0	101
	23:00	0	52	13	0	4	0	0	0	0	0	0	0	0	69
	Total	71	5877	1431	54	523	30	2	16	32	0	0	0	0	8036
	Percent	0.9%	73.1%	17.8%	0.7%	6.5%	0.4%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	
	AM Peak	07:00	11:00	11:00	07:00	11:00	10:00	09:00	06:00	11:00					11:00
	Vol.	14	249	81	5	32	3	1	1	5					374
	PM Peak	16:00	17:00	16:00	14:00	16:00	13:00	19:00	14:00	13:00					17:00
	Vol.	14	848	208	10	71	5	1	4	3					1076



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03/15/1														
6	0	15	7	0	1	0	0	0	2	0	0	0	0	25
01:00	0	8	3	0	1	0	0	0	0	0	0	0	0	12
02:00	0	5	2	0	0	0	0	0	0	0	0	0	0	7
03:00	0	2	2	1	1	0	0	0	0	0	0	0	0	6
04:00	1	8	1	0	2	0	0	0	0	0	0	0	0	12
05:00	0	16	4	2	0	0	0	1	0	0	0	0	0	23
06:00	6	98	20	3	7	0	0	0	2	0	0	0	0	136
07:00	12	231	50	4	25	3	0	2	1	0	0	0	0	328
08:00	11	221	67	5	19	0	0	0	0	0	0	0	0	323
09:00	5	199	66	5	20	1	0	2	0	0	0	0	0	298
10:00	3	182	78	1	30	3	0	3	3	0	0	0	0	303
11:00	6	269	61	5	31	1	0	0	1	0	0	0	0	374
12 PM	1	272	68	6	27	6	1	1	2	0	0	0	0	384
13:00	6	325	87	8	35	1	0	3	2	0	0	0	0	467
14:00	7	399	123	9	31	4	0	2	4	0	0	0	0	579
15:00	11	537	168	8	43	2	0	2	2	0	0	0	0	773
16:00	12	717	196	4	61	2	0	0	0	0	0	0	0	992
17:00	6	832	137	3	40	3	0	0	1	0	0	0	0	1022
18:00	4	669	102	1	41	2	0	0	1	0	0	0	0	820
19:00	3	423	80	0	16	0	0	1	0	0	0	0	0	523
20:00	3	256	44	1	17	0	0	0	0	0	0	0	0	321
21:00	1	191	28	0	5	0	0	0	1	0	0	0	0	226
22:00	0	90	11	1	4	0	0	0	0	0	0	0	0	106
23:00	1	47	12	1	1	0	0	1	1	0	0	0	0	64
Total	99	6012	1417	68	458	28	1	18	23	0	0	0	0	8124
Percent	1.2%	74.0%	17.4%	0.8%	5.6%	0.3%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	11:00	10:00	08:00	11:00	07:00		10:00	10:00					11:00
Vol.	12	269	78	5	31	3		3	3					374
PM Peak	16:00	17:00	16:00	14:00	16:00	12:00	12:00	13:00	14:00					17:00
Vol.	12	832	196	9	61	6	1	3	4					1022



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03/16/1														
6	0	30	4	0	2	0	0	1	2	0	0	0	0	39
01:00	0	9	1	0	2	0	0	0	0	0	0	0	0	12
02:00	1	7	3	0	1	1	0	0	0	0	0	0	0	13
03:00	0	11	2	1	0	0	0	0	0	0	0	0	0	14
04:00	0	5	2	0	1	0	0	0	0	0	0	0	0	8
05:00	0	20	4	2	3	1	0	1	0	0	0	0	0	31
06:00	4	93	22	6	5	2	0	0	1	0	0	0	0	133
07:00	5	203	52	3	17	3	0	1	1	1	0	0	0	286
08:00	11	230	66	3	20	4	0	0	1	0	0	0	0	335
09:00	6	232	68	0	14	3	0	1	0	0	0	0	0	324
10:00	6	219	60	4	20	4	0	2	3	0	0	0	0	318
11:00	9	253	75	3	27	1	0	2	3	0	0	0	0	373
12 PM	7	277	89	6	21	7	0	2	3	0	0	0	0	412
13:00	2	293	88	2	24	1	0	5	0	0	0	0	0	415
14:00	9	409	128	7	25	4	1	1	1	0	0	0	0	585
15:00	4	517	181	5	36	4	0	1	5	0	0	0	0	753
16:00	12	709	182	6	63	1	0	0	1	0	0	0	0	974
17:00	17	835	183	1	53	4	0	1	0	0	0	0	0	1094
18:00	3	690	123	1	24	0	0	1	2	0	0	0	0	844
19:00	2	408	63	0	22	0	0	0	1	0	0	0	0	496
20:00	2	280	43	1	16	0	0	0	0	0	0	0	0	342
21:00	0	218	40	0	4	0	0	1	0	0	0	0	0	263
22:00	0	119	17	1	0	0	0	0	0	0	0	0	0	137
23:00	0	56	19	3	4	0	0	0	1	0	0	0	0	83
Total	100	6123	1515	55	404	40	1	20	25	1	0	0	0	8284
Percent	1.2%	73.9%	18.3%	0.7%	4.9%	0.5%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	11:00	06:00	11:00	08:00		10:00	10:00	07:00				11:00
Vol.	11	253	75	6	27	4		2	3	1				373
PM Peak	17:00	17:00	17:00	14:00	16:00	12:00	14:00	13:00	15:00					17:00
Vol.	17	835	183	7	63	7	1	5	5					1094



PRECISION
D A T A
INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F CLASS
Site Code: 179410329

NB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/17/1														
6	0	32	7	0	2	0	0	0	0	0	0	0	0	41
01:00	0	12	1	0	0	0	0	0	0	0	0	0	0	13
02:00	0	6	0	0	1	0	0	0	0	0	0	0	0	7
03:00	0	4	3	1	2	0	0	0	0	0	0	0	0	10
04:00	1	7	1	0	2	1	0	0	1	0	0	0	0	13
05:00	0	24	2	2	2	0	0	0	2	0	0	0	0	32
06:00	3	91	22	4	9	2	0	0	2	0	0	0	0	133
07:00	9	222	53	10	9	7	0	3	0	0	0	0	0	313
08:00	14	238	57	7	22	3	0	3	1	0	0	0	0	345
09:00	6	196	72	5	18	2	0	4	2	0	0	0	0	305
10:00	8	236	70	0	28	5	0	1	1	0	0	0	0	349
11:00	5	283	61	11	24	3	1	1	1	0	0	0	0	390
12 PM	10	324	90	5	30	8	0	1	1	0	0	0	0	469
13:00	11	346	107	4	20	6	1	7	0	0	1	0	0	503
14:00	9	401	118	9	34	4	1	3	1	0	0	0	0	580
15:00	8	520	154	5	34	4	0	3	2	0	0	0	0	730
16:00	7	720	209	3	65	1	2	4	1	0	0	0	0	1012
17:00	15	894	159	0	52	2	0	1	1	0	0	0	0	1124
18:00	7	699	123	3	31	1	0	0	0	0	0	0	0	864
19:00	0	416	71	1	14	3	0	0	0	0	0	0	0	505
20:00	4	267	54	1	10	1	0	0	1	0	0	0	0	338
21:00	1	225	30	0	11	0	0	0	0	0	0	0	0	267
22:00	0	112	18	0	4	0	0	0	1	0	0	0	0	135
23:00	0	94	8	0	1	0	0	0	0	0	0	0	0	103
Total	118	6369	1490	71	425	53	5	31	18	0	1	0	0	8581
Percent	1.4%	74.2%	17.4%	0.8%	5.0%	0.6%	0.1%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	09:00	11:00	10:00	07:00	11:00	09:00	05:00					11:00
Vol.	14	283	72	11	28	7	1	4	2					390
PM Peak	17:00	17:00	16:00	14:00	16:00	12:00	16:00	13:00	15:00		13:00			17:00
Vol.	15	894	209	9	65	8	2	7	2		1			1124



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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F CLASS
Site Code: 179410329

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
03/18/1														
6	1	49	11	0	3	1	0	0	1	0	0	0	0	66
01:00	0	25	3	0	1	0	0	0	0	0	0	0	0	29
02:00	0	13	5	0	0	0	0	0	0	0	0	0	0	18
03:00	0	10	1	1	0	0	0	0	1	0	0	0	0	13
04:00	1	6	1	0	2	1	0	1	1	0	0	0	0	13
05:00	1	27	2	1	1	1	0	0	0	0	0	0	0	33
06:00	5	87	20	5	8	3	2	1	2	0	0	0	0	133
07:00	12	241	61	4	18	3	0	0	1	0	0	0	0	340
08:00	9	219	74	4	15	6	0	1	3	0	0	0	0	331
09:00	5	227	73	3	15	5	0	3	5	0	0	0	0	336
10:00	5	236	81	5	22	3	0	1	5	0	0	0	0	358
11:00	8	289	82	3	21	5	0	2	2	0	0	0	0	412
12 PM	7	356	95	6	20	1	0	0	1	0	0	0	0	486
13:00	9	355	102	2	27	3	0	5	2	0	0	0	0	505
14:00	7	453	130	10	22	6	1	2	2	0	0	0	0	633
15:00	11	525	184	6	47	4	0	2	1	0	0	0	0	780
16:00	13	712	202	1	64	1	0	3	1	0	0	0	0	997
17:00	10	850	171	3	51	1	0	0	1	0	0	0	0	1087
18:00	15	635	114	3	25	2	0	2	1	0	0	0	0	797
19:00	2	339	64	0	11	1	0	1	0	0	0	0	0	418
20:00	1	231	55	1	7	0	0	1	1	0	0	0	0	297
21:00	0	175	36	0	7	1	0	1	0	0	0	0	0	220
22:00	2	157	15	0	7	0	0	0	1	0	0	0	0	182
23:00	0	86	18	1	4	0	0	1	0	0	0	0	0	110
Total	124	6303	1600	59	398	48	3	27	32	0	0	0	0	8594
Percent	1.4%	73.3%	18.6%	0.7%	4.6%	0.6%	0.0%	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	11:00	11:00	06:00	10:00	08:00	06:00	09:00	09:00					11:00
Vol.	12	289	82	5	22	6	2	3	5					412
PM Peak	18:00	17:00	16:00	14:00	16:00	14:00	14:00	13:00	13:00					17:00
Vol.	15	850	202	10	64	6	1	5	2					1087



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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/12/16	0	0	0	1	3	9	10	2	0	0	0	0	0	25	43	39
01:00	0	0	0	1	0	8	3	0	0	1	0	0	0	13	42	39
02:00	0	0	0	0	2	6	7	0	1	0	2	1	0	19	59	43
03:00	0	0	0	1	0	9	8	5	0	0	0	0	0	23	45	40
04:00	0	1	0	0	2	16	9	2	2	0	0	0	0	32	43	39
05:00	0	0	1	0	5	30	40	6	2	0	0	0	0	84	43	40
06:00	0	0	0	0	8	107	110	16	0	0	0	0	0	241	43	40
07:00	0	0	1	5	23	132	129	24	1	0	0	0	0	315	43	39
08:00	1	0	1	1	31	174	190	24	1	0	0	0	0	423	42	39
09:00	2	0	1	7	43	260	162	21	1	0	0	0	0	497	42	38
10:00	5	1	0	4	40	280	219	23	4	0	0	0	0	576	42	39
11:00	3	1	3	4	61	297	213	12	0	0	0	0	0	594	42	38
12 PM	5	0	3	3	47	226	187	33	0	0	0	0	0	504	42	39
13:00	5	1	0	5	37	237	169	25	1	1	0	0	1	482	42	39
14:00	7	2	3	2	22	227	173	32	1	0	0	0	1	470	42	39
15:00	9	5	2	4	46	194	201	19	0	0	0	0	0	480	42	38
16:00	3	1	0	4	41	193	157	25	1	0	0	0	0	425	42	39
17:00	6	0	1	2	44	224	127	16	0	0	0	0	0	420	42	38
18:00	1	1	2	8	45	171	83	8	0	0	0	0	0	319	41	37
19:00	0	0	0	0	24	130	51	7	2	0	0	0	0	214	41	38
20:00	0	0	0	3	17	92	48	7	0	0	0	0	0	167	42	38
21:00	1	0	0	0	16	63	46	8	0	0	0	0	0	134	42	38
22:00	1	0	0	0	9	59	41	3	0	0	0	0	0	113	42	38
23:00	0	0	0	0	4	29	20	4	0	0	0	0	0	57	42	39
Total	49	13	18	55	570	3173	2403	322	17	2	2	1	2	6627		
%	0.7%	0.2%	0.3%	0.8%	8.6%	47.9%	36.3%	4.9%	0.3%	0.0%	0.0%	0.0%	0.0%			
AM Peak	10:00	04:00	11:00	09:00	11:00	11:00	10:00	07:00	10:00	01:00	02:00	02:00		11:00		
Vol.	5	1	3	7	61	297	219	24	4	1	2	1		594		
PM Peak	15:00	15:00	12:00	18:00	12:00	13:00	15:00	12:00	19:00	13:00			13:00	12:00		
Vol.	9	5	3	8	47	237	201	33	2	1			1	504		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 42 MPH
 95th Percentile : 44 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 5576
 Percent in Pace : 84.1%
 Number of Vehicles > 35 MPH : 5287
 Percent of Vehicles > 35 MPH : 79.8%



PRECISION
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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/13/16	0	0	0	0	2	15	15	2	0	0	0	0	0	34	42	39
01:00	0	0	0	0	3	6	6	5	1	0	0	0	0	21	46	41
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	1	0	1	3	2	1	0	0	0	0	0	8	43	37
04:00	0	0	0	0	0	7	4	2	1	0	0	0	0	14	46	41
05:00	0	0	0	0	1	16	15	1	0	0	0	0	0	33	42	39
06:00	0	0	0	1	6	53	40	11	0	0	0	0	0	111	43	39
07:00	0	1	0	2	11	63	64	14	1	0	0	0	0	156	43	39
08:00	1	0	2	2	15	90	90	15	1	0	0	0	0	216	43	39
09:00	0	0	0	4	23	154	127	15	1	0	0	0	0	324	42	39
10:00	2	0	0	5	41	197	144	20	0	0	0	0	0	409	42	38
11:00	4	0	5	7	38	198	203	19	3	0	0	0	0	477	42	39
12 PM	2	0	0	1	22	185	232	21	1	2	0	0	0	466	43	40
13:00	4	0	0	2	21	216	204	24	0	0	0	0	0	471	42	39
14:00	4	0	0	0	30	208	196	22	1	1	0	0	0	462	42	39
15:00	9	5	3	6	43	223	155	15	1	0	0	1	0	461	42	38
16:00	3	2	1	3	52	236	142	11	0	0	0	0	1	451	42	38
17:00	2	0	1	2	31	181	124	13	1	0	0	0	1	356	42	38
18:00	3	0	0	1	29	161	120	8	0	0	0	0	0	322	42	38
19:00	0	0	2	4	46	125	73	2	0	1	0	0	0	253	41	37
20:00	2	0	1	3	29	86	46	1	1	0	0	0	0	169	41	37
21:00	0	0	0	1	19	41	31	4	0	0	0	0	0	96	42	38
22:00	0	0	0	1	3	30	18	6	0	0	0	0	0	58	43	39
23:00	0	0	0	0	2	16	6	2	0	0	0	0	0	26	42	39
Total	36	8	16	45	468	2510	2057	234	13	4	0	1	2	5394		
%	0.7%	0.1%	0.3%	0.8%	8.7%	46.5%	38.1%	4.3%	0.2%	0.1%	0.0%	0.0%	0.0%			
AM Peak	11:00	07:00	11:00	11:00	10:00	11:00	11:00	10:00	11:00					11:00		
Vol.	4	1	5	7	41	198	203	20	3					477		
PM Peak	15:00	15:00	15:00	15:00	16:00	16:00	12:00	13:00	12:00	12:00		15:00	16:00	13:00		
Vol.	9	5	3	6	52	236	232	24	1	2		1	1	471		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 38 MPH
 85th Percentile : 42 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 39 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 4567
 Percent in Pace : 84.7%
 Number of Vehicles > 35 MPH : 4319
 Percent of Vehicles > 35 MPH : 80.1%



PRECISION
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164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/14/																
16	0	0	0	1	3	3	4	0	0	0	0	0	0	11	41	37
01:00	0	0	0	0	0	1	2	0	0	0	0	0	0	3	42	40
02:00	0	0	0	0	2	6	4	0	0	0	0	0	0	12	41	38
03:00	0	0	0	0	1	12	7	4	0	0	0	0	0	24	44	40
04:00	0	0	0	0	4	47	31	7	0	0	0	0	0	89	42	39
05:00	0	0	0	0	13	200	224	18	0	1	0	0	0	456	42	40
06:00	2	0	3	9	74	568	308	9	3	0	0	0	0	976	41	38
07:00	43	54	67	54	187	553	190	6	0	0	0	0	0	1154	39	34
08:00	2	0	5	16	133	512	249	14	0	0	0	0	0	931	41	37
09:00	3	0	2	6	87	355	162	4	0	0	0	0	0	619	41	37
10:00	2	0	1	8	93	231	98	4	0	0	0	0	0	437	40	37
11:00	6	2	2	7	81	241	82	5	0	0	0	0	0	426	40	36
12 PM	1	1	1	11	50	254	97	2	0	0	0	0	0	417	40	37
13:00	2	1	4	7	78	211	73	5	0	0	0	0	1	382	40	37
14:00	12	11	22	16	93	230	66	2	0	0	0	0	1	453	39	34
15:00	7	4	2	12	90	253	112	2	0	0	0	0	1	483	40	36
16:00	7	5	6	15	50	232	85	4	2	0	0	0	0	406	40	36
17:00	5	1	1	5	73	201	77	1	0	0	0	0	0	364	40	36
18:00	2	1	3	3	44	129	66	8	0	0	0	0	0	256	41	37
19:00	1	0	0	2	46	120	30	4	0	0	0	0	0	203	39	37
20:00	0	0	0	1	24	79	20	3	0	0	0	0	0	127	39	37
21:00	0	0	0	0	6	36	20	5	1	0	0	0	0	68	42	39
22:00	0	0	0	0	6	24	19	5	0	0	0	0	0	54	43	39
23:00	0	0	0	0	3	10	14	3	0	0	0	0	0	30	43	40
Total	95	80	119	173	1241	4508	2040	115	6	1	0	0	3	8381		
%	1.1%	1.0%	1.4%	2.1%	14.8%	53.8%	24.3%	1.4%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	07:00	07:00	07:00	06:00	06:00	05:00	06:00	05:00				07:00		
Vol.	43	54	67	54	187	568	308	18	3	1				1154		
PM Peak	14:00	14:00	14:00	14:00	14:00	12:00	15:00	18:00	16:00				13:00	15:00		
Vol.	12	11	22	16	93	254	112	8	2				1	483		

Stats
 15th Percentile : 32 MPH
 50th Percentile : 36 MPH
 85th Percentile : 41 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 37 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 6548
 Percent in Pace : 78.1%
 Number of Vehicles > 35 MPH : 5771
 Percent of Vehicles > 35 MPH : 68.9%



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164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/15/																
16	0	0	0	0	3	5	1	0	0	0	0	0	0	9	38	36
01:00	0	0	0	0	2	3	1	0	0	0	0	0	0	6	39	36
02:00	0	0	0	0	4	4	3	0	0	0	0	0	0	11	41	37
03:00	0	0	0	0	0	11	7	3	0	0	0	0	0	21	43	40
04:00	0	0	0	1	3	55	30	2	0	0	0	0	0	91	42	39
05:00	1	0	0	3	27	210	186	14	0	0	0	0	0	441	42	39
06:00	0	0	0	3	107	609	259	6	0	1	0	0	0	985	41	38
07:00	98	153	137	100	164	387	93	2	1	2	1	0	1	1139	38	29
08:00	5	0	4	11	205	556	138	3	0	0	0	0	0	922	39	36
09:00	6	1	4	20	124	365	102	6	0	0	0	0	1	629	39	36
10:00	1	1	0	10	69	210	100	6	0	0	0	0	1	398	41	37
11:00	3	2	4	10	79	257	94	5	1	0	0	0	1	456	40	37
12 PM	1	1	5	10	69	241	83	6	1	0	0	0	0	417	40	37
13:00	3	1	4	10	76	236	92	3	0	0	0	0	0	425	40	37
14:00	20	16	14	16	111	227	73	7	1	0	0	0	2	487	39	34
15:00	6	4	3	20	104	274	67	6	0	0	0	0	1	485	39	36
16:00	10	1	5	21	103	232	68	4	0	0	0	0	0	444	39	35
17:00	5	1	3	8	78	235	56	1	0	0	0	0	0	387	38	36
18:00	2	0	2	3	38	173	61	8	2	0	0	0	0	289	41	37
19:00	1	0	0	4	36	100	27	1	0	0	0	0	0	169	39	36
20:00	1	0	1	1	30	93	23	3	0	0	0	0	0	152	39	37
21:00	1	0	1	1	14	47	22	3	0	0	0	0	0	89	41	37
22:00	0	0	0	1	7	27	15	5	0	0	0	0	0	55	42	38
23:00	0	0	0	2	0	12	13	0	0	0	0	0	0	27	42	39
Total	164	181	187	255	1453	4569	1614	94	6	3	1	0	7	8534		
%	1.9%	2.1%	2.2%	3.0%	17.0%	53.5%	18.9%	1.1%	0.1%	0.0%	0.0%	0.0%	0.1%			
AM Peak Vol.	98	153	137	100	205	609	259	14	1	2	1		1	1139		
PM Peak Vol.	20	16	14	21	111	274	92	8	2				2	487		

Stats
 15th Percentile : 30 MPH
 50th Percentile : 36 MPH
 85th Percentile : 40 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 6183
 Percent in Pace : 72.5%
 Number of Vehicles > 35 MPH : 5380
 Percent of Vehicles > 35 MPH : 63.0%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/16/																
16	0	0	0	0	2	4	2	0	0	0	0	0	0	8	41	37
01:00	0	0	0	0	2	4	2	0	0	0	0	0	0	8	41	37
02:00	0	0	0	0	2	5	3	0	0	0	0	0	0	10	41	37
03:00	0	0	0	0	2	11	6	0	0	0	0	0	0	19	41	38
04:00	1	0	0	0	7	53	34	7	0	0	0	0	0	102	42	39
05:00	0	0	0	2	34	231	163	8	2	0	0	0	0	440	42	39
06:00	2	0	1	10	92	601	263	4	0	0	0	0	0	973	41	38
07:00	112	141	126	91	115	376	162	5	0	0	0	0	0	1128	38	29
08:00	5	1	1	16	102	485	299	23	1	0	0	0	0	933	42	38
09:00	4	0	2	23	85	303	145	12	0	0	0	0	0	574	41	37
10:00	2	2	2	11	79	278	92	6	0	0	0	0	0	472	40	37
11:00	4	2	5	5	93	294	93	6	1	0	0	0	0	503	40	37
12 PM	5	2	0	10	83	227	118	9	0	0	1	0	0	455	41	37
13:00	4	0	1	4	64	235	62	4	0	0	0	0	0	374	39	37
14:00	32	30	42	43	126	166	32	3	2	0	0	0	0	476	37	31
15:00	3	1	5	12	48	264	150	14	1	0	0	0	0	498	42	38
16:00	12	2	3	10	56	250	141	9	0	0	0	0	1	484	41	37
17:00	14	0	1	8	49	212	121	17	2	1	0	1	1	427	42	37
18:00	8	0	0	6	43	162	94	10	1	0	0	0	0	324	42	37
19:00	1	0	0	6	34	113	54	5	0	1	0	0	0	214	41	37
20:00	0	0	1	2	19	82	46	3	2	0	0	0	0	155	42	38
21:00	0	0	0	2	13	52	21	1	1	0	0	0	0	90	41	38
22:00	0	0	0	0	2	29	18	1	0	0	0	0	0	50	42	39
23:00	0	0	0	0	5	10	8	5	0	0	0	0	0	28	44	39
Total	209	181	190	261	1157	4447	2129	152	13	2	1	1	2	8745		
%	2.4%	2.1%	2.2%	3.0%	13.2%	50.9%	24.3%	1.7%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.	112	141	126	91	115	601	299	23	2					1128		
PM Peak Vol.	32	30	42	43	126	264	150	17	2	1	1	1	1	498		

Stats
 15th Percentile : 31 MPH
 50th Percentile : 36 MPH
 85th Percentile : 41 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 6576
 Percent in Pace : 75.2%
 Number of Vehicles > 35 MPH : 5858
 Percent of Vehicles > 35 MPH : 67.0%



PRECISION
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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
	14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/17/																
16	0	0	0	0	3	6	8	1	1	0	0	0	0	19	43	40
01:00	0	0	0	0	1	3	3	1	0	0	0	0	0	8	43	39
02:00	0	0	0	0	1	5	1	0	0	0	0	0	0	7	38	37
03:00	0	0	0	0	3	7	9	0	0	0	0	0	0	19	42	39
04:00	0	0	0	0	8	45	39	5	0	0	0	0	0	97	42	39
05:00	1	0	1	0	13	229	186	16	0	0	0	0	0	446	42	39
06:00	3	0	1	4	79	578	291	14	0	0	0	0	0	970	41	38
07:00	41	45	93	63	142	507	216	8	0	0	0	0	0	1115	40	34
08:00	9	3	11	48	145	503	184	10	0	0	0	0	1	914	40	36
09:00	13	2	4	14	111	389	126	10	0	0	0	0	1	670	40	36
10:00	28	11	20	37	116	231	44	5	1	0	0	0	0	493	38	33
11:00	8	5	0	19	115	295	69	1	0	0	0	0	0	512	38	36
12 PM	1	2	6	10	57	266	165	8	0	0	0	0	0	515	41	38
13:00	6	1	9	11	110	215	57	8	0	0	0	0	0	417	39	35
14:00	46	23	36	29	145	163	27	3	1	0	0	0	0	473	37	30
15:00	9	5	5	18	84	289	122	9	0	0	0	0	0	541	41	36
16:00	16	6	11	13	71	206	86	11	0	1	0	1	1	423	41	35
17:00	16	1	2	6	41	208	125	5	0	0	1	0	0	405	41	37
18:00	0	0	1	3	20	145	77	9	0	0	0	0	0	255	42	38
19:00	4	0	1	5	29	109	64	5	0	0	0	0	0	217	41	37
20:00	2	1	0	4	20	96	41	7	1	0	0	0	0	172	41	37
21:00	1	0	0	1	11	66	37	2	0	0	0	0	0	118	41	38
22:00	0	0	0	0	10	22	25	4	1	1	0	0	0	63	43	39
23:00	0	0	0	0	7	14	11	5	0	0	0	0	0	37	43	39
Total	204	105	201	285	1342	4597	2013	147	5	2	1	1	3	8906		
%	2.3%	1.2%	2.3%	3.2%	15.1%	51.6%	22.6%	1.7%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	07:00	07:00	08:00	06:00	06:00	05:00	00:00				08:00	07:00		
Vol.	41	45	93	63	145	578	291	16	1				1	1115		
PM Peak	14:00	14:00	14:00	14:00	14:00	15:00	12:00	16:00	14:00	16:00	17:00	16:00	16:00	15:00		
Vol.	46	23	36	29	145	289	165	11	1	1	1	1	1	541		

Stats
 15th Percentile : 31 MPH
 50th Percentile : 36 MPH
 85th Percentile : 41 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 6610
 Percent in Pace : 74.2%
 Number of Vehicles > 35 MPH : 5850
 Percent of Vehicles > 35 MPH : 65.7%



PRECISION
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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

SB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/18/16	0	0	0	0	2	4	7	2	0	0	0	0	0	15	43	40
01:00	0	0	0	0	1	4	2	0	0	0	0	0	0	7	41	38
02:00	0	0	0	1	2	7	8	1	0	0	0	1	0	20	43	40
03:00	0	0	0	0	0	8	9	0	1	0	0	0	1	19	43	40
04:00	0	0	1	0	3	35	51	5	0	0	0	0	0	95	43	40
05:00	0	0	0	1	6	158	217	29	1	0	0	0	0	412	43	40
06:00	0	1	1	4	67	390	378	26	1	1	0	0	0	869	42	39
07:00	41	67	108	65	127	427	214	16	0	0	0	0	0	1065	40	33
08:00	2	3	12	16	120	486	253	14	2	0	0	0	0	908	41	37
09:00	2	0	2	19	189	303	101	8	1	0	0	0	1	626	39	36
10:00	5	0	2	19	164	187	41	0	0	0	0	0	0	418	38	35
11:00	0	2	3	19	145	240	53	1	1	0	0	0	0	464	38	35
12 PM	3	2	5	16	57	287	124	4	0	0	0	0	1	499	41	37
13:00	5	0	6	8	82	259	88	8	0	0	0	0	0	456	40	37
14:00	21	28	40	45	150	147	47	4	0	0	1	0	0	483	38	31
15:00	9	3	2	9	68	299	131	14	0	0	0	0	1	536	41	37
16:00	8	0	1	8	53	237	146	7	1	1	0	0	1	463	41	38
17:00	11	5	3	15	28	210	106	10	1	0	0	0	1	390	41	37
18:00	6	0	1	5	44	216	104	13	0	1	1	1	0	392	41	38
19:00	0	0	1	3	35	161	81	6	0	0	0	0	1	288	41	38
20:00	1	0	1	3	34	103	55	5	0	0	0	0	0	202	41	37
21:00	1	0	0	2	17	95	43	1	0	0	0	0	0	159	41	38
22:00	0	0	0	0	8	32	30	3	0	0	0	0	1	74	42	39
23:00	0	0	0	0	9	22	20	4	0	0	0	0	0	55	42	39
Total	115	111	189	258	1411	4317	2309	181	9	3	2	2	8	8915		
%	1.3%	1.2%	2.1%	2.9%	15.8%	48.4%	25.9%	2.0%	0.1%	0.0%	0.0%	0.0%	0.1%			
AM Peak	07:00	07:00	07:00	07:00	09:00	08:00	06:00	05:00	08:00	06:00		02:00	03:00	07:00		
Vol.	41	67	108	65	189	486	378	29	2	1		1	1	1065		
PM Peak	14:00	14:00	14:00	14:00	14:00	15:00	16:00	15:00	16:00	16:00	14:00	18:00	12:00	15:00		
Vol.	21	28	40	45	150	299	146	14	1	1	1	1	1	536		

Stats
 15th Percentile : 31 MPH
 50th Percentile : 36 MPH
 85th Percentile : 41 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 37 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 6626
 Percent in Pace : 74.3%
 Number of Vehicles > 35 MPH : 5968
 Percent of Vehicles > 35 MPH : 66.9%



PRECISION
D A T A
INDUSTRIES, LLC

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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/12/																													
	16	0	0	0	0	0	9	25	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	41	38	
	01:00	0	0	0	0	4	7	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	42	39	
	02:00	0	0	1	0	3	5	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	44	39	
	03:00	0	0	0	0	0	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	46	43	
	04:00	0	0	0	0	4	8	7	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	21	43	39	
	05:00	0	0	0	0	0	2	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	48	44	
	06:00	0	0	0	0	2	12	45	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	44	42	
	07:00	0	0	0	2	3	47	69	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	44	41	
	08:00	0	0	0	1	14	85	81	28	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	210	43	40	
	09:00	1	3	2	9	23	138	143	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	341	42	39	
	10:00	6	0	0	8	46	174	176	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	436	42	38	
	11:00	3	1	0	12	67	250	179	22	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	538	42	38	
	12 PM	3	0	1	1	88	234	172	29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	529	42	38	
	13:00	6	0	3	5	42	258	202	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	534	42	38	
	14:00	2	0	4	11	64	227	180	34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	523	42	38	
	15:00	4	2	8	21	44	216	236	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	555	42	38	
	16:00	2	0	2	9	70	217	181	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	501	42	38	
	17:00	1	1	1	3	67	271	136	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	488	41	38	
	18:00	3	1	2	28	82	218	71	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	414	40	36	
	19:00	1	0	5	5	41	155	58	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	276	41	37	
	20:00	3	1	0	2	28	105	75	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	222	42	38		
	21:00	0	0	0	2	27	88	64	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196	42	39	
	22:00	0	1	0	6	20	100	51	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182	41	38	
	23:00	0	2	2	0	12	48	49	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	42	39	
	Total	35	12	31	125	760	2893	2218	310	19	1	2	1	5	6412														
	%	0.5%	0.2%	0.5%	1.9%	11.9%	45.1%	34.6%	4.8%	0.3%	0.0%	0.0%	0.0%	0.1%															
AM Peak	10:00	09:00	09:00	11:00	11:00	11:00	11:00	08:00	11:00	04:00	03:00	11:00	10:00	11:00															
Vol.	6	3	2	12	67	250	179	28	3	1	1	1	3	538															
PM Peak	13:00	15:00	15:00	18:00	12:00	17:00	15:00	14:00	21:00																15:00	15:00			
Vol.	6	2	8	28	88	271	236	34	2																1	555			

Stats
 15th Percentile : 33 MPH
 50th Percentile : 37 MPH
 85th Percentile : 42 MPH
 95th Percentile : 44 MPH

Mean Speed(Average) : 38 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 5111
 Percent in Pace : 79.7%
 Number of Vehicles > 35 MPH : 4870
 Percent of Vehicles > 35 MPH : 76.0%



PRECISION
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164969 F SPEED
Site Code: 179410329

NB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/13/16	0	0	0	1	11	24	17	2	0	0	0	0	0	55	42	38
01:00	0	0	0	0	2	7	11	1	0	0	0	0	0	21	43	40
02:00	0	0	0	0	0	6	0	0	0	0	0	0	0	6	38	37
03:00	0	0	0	0	2	6	4	0	2	0	0	0	0	14	43	40
04:00	0	0	0	0	3	4	6	0	0	0	0	0	0	13	42	38
05:00	0	0	0	0	1	6	11	3	0	1	0	0	0	22	45	42
06:00	0	1	0	0	2	17	18	4	1	0	0	0	0	43	43	40
07:00	0	0	0	0	2	32	34	4	2	0	0	0	0	74	43	40
08:00	2	0	0	1	16	63	55	13	4	0	0	0	0	154	43	39
09:00	3	0	1	8	22	100	84	10	3	0	0	0	0	231	42	38
10:00	1	0	1	5	25	120	111	21	1	0	0	0	0	285	43	39
11:00	1	0	0	2	19	152	128	28	3	0	0	0	0	333	43	39
12 PM	2	0	0	4	42	194	167	17	0	0	0	0	2	428	42	39
13:00	5	1	2	14	38	212	179	35	2	0	0	0	0	488	42	39
14:00	1	0	0	3	25	209	196	18	0	0	0	0	1	453	42	39
15:00	4	0	1	13	73	239	166	14	1	0	0	0	1	512	42	38
16:00	3	0	1	26	64	191	171	17	1	1	0	0	0	475	42	38
17:00	4	0	1	13	62	228	153	10	1	0	0	0	1	473	42	38
18:00	3	0	0	12	55	222	109	13	0	0	0	0	0	414	41	37
19:00	1	1	1	16	58	134	85	7	1	0	0	0	0	304	41	37
20:00	1	1	3	12	46	120	51	5	0	0	0	0	0	239	40	36
21:00	0	0	0	0	29	78	41	3	1	0	0	0	0	152	41	38
22:00	0	0	0	2	10	43	31	8	0	0	0	0	0	94	43	39
23:00	0	0	0	0	1	15	18	5	0	1	0	0	0	40	44	41
Total	31	4	11	132	608	2422	1846	238	23	3	0	0	5	5323		
%	0.6%	0.1%	0.2%	2.5%	11.4%	45.5%	34.7%	4.5%	0.4%	0.1%	0.0%	0.0%	0.1%			
AM Peak	09:00	06:00	09:00	09:00	10:00	11:00	11:00	11:00	08:00	05:00				11:00		
Vol.	3	1	1	8	25	152	128	28	4	1				333		
PM Peak	13:00	13:00	20:00	16:00	15:00	15:00	14:00	13:00	13:00	16:00			12:00	15:00		
Vol.	5	1	3	26	73	239	196	35	2	1			2	512		

Stats
 15th Percentile : 34 MPH
 50th Percentile : 37 MPH
 85th Percentile : 42 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 38 MPH
 10 MPH Pace Speed : 35-44 MPH
 Number in Pace : 4268
 Percent in Pace : 80.2%
 Number of Vehicles > 35 MPH : 4053
 Percent of Vehicles > 35 MPH : 76.1%



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

NB	Start Time	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	9999	Total	85th % ile	Ave Speed
03/14/																													
16	0	0	0	0	0	3	15	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	40	37	
01:00	0	0	0	0	0	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	43	40	
02:00	0	0	0	0	0	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	43	39	
03:00	0	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	42	38	
04:00	0	0	0	0	1	4	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	43	40	
05:00	0	0	0	0	1	16	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	43	40	
06:00	1	1	2	2	25	71	40	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145	41	37	
07:00	9	14	22	29	48	114	78	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	321	41	34	
08:00	3	2	2	21	66	143	82	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332	41	37	
09:00	1	0	2	2	46	159	71	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290	41	37	
10:00	0	0	1	9	45	152	87	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301	41	38	
11:00	1	1	3	5	75	177	97	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	374	41	37	
12 PM	4	2	9	6	60	214	101	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404	41	37	
13:00	3	2	6	15	107	197	121	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	456	41	36	
14:00	3	8	23	37	134	252	74	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	539	39	35	
15:00	6	4	16	79	152	359	115	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	737	39	35	
16:00	15	20	71	120	379	344	62	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1014	37	32	
17:00	9	18	37	141	368	425	76	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1076	38	33	
18:00	5	0	12	42	253	426	108	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	847	38	35	
19:00	3	2	1	17	132	235	42	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	435	38	35	
20:00	0	0	0	6	98	149	39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	295	38	36	
21:00	0	0	0	3	43	105	52	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207	41	37	
22:00	0	0	0	2	16	45	31	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	42	38	
23:00	0	0	0	0	14	38	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	41	37	
Total	63	74	207	536	2069	3652	1322	108	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8036			
%	0.8%	0.9%	2.6%	6.7%	25.7%	45.4%	16.5%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
AM Peak	07:00	07:00	07:00	07:00	11:00	11:00	11:00	11:00	10:00																	07:00	11:00		
Vol.	9	14	22	29	75	177	97	14	1																1	374			
PM Peak	16:00	16:00	16:00	17:00	16:00	18:00	13:00	12:00	15:00																	19:00	17:00		
Vol.	15	20	71	141	379	426	121	8	1																1	1076			

Stats
 15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5721
 Percent in Pace : 71.2%
 Number of Vehicles > 35 MPH : 4357
 Percent of Vehicles > 35 MPH : 54.2%



PRECISION
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INDUSTRIES, LLC

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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/15/																	
16	0	0	0	0	6	17	2	0	0	0	0	0	0	0	25	38	36
01:00	0	0	0	0	2	5	5	0	0	0	0	0	0	0	12	42	38
02:00	0	0	0	0	1	4	2	0	0	0	0	0	0	0	7	41	38
03:00	0	0	0	0	3	1	1	0	0	0	0	0	1	0	6	64	40
04:00	0	0	1	1	0	8	2	0	0	0	0	0	0	0	12	39	36
05:00	0	0	0	0	1	12	9	1	0	0	0	0	0	0	23	42	39
06:00	6	1	0	4	17	88	19	1	0	0	0	0	0	0	136	38	35
07:00	5	17	41	34	90	107	31	3	0	0	0	0	0	0	328	38	32
08:00	6	1	0	6	70	130	102	8	0	0	0	0	0	0	323	42	37
09:00	1	0	0	7	59	158	65	7	0	0	0	0	0	1	298	41	37
10:00	2	0	1	9	37	155	82	16	1	0	0	0	0	0	303	42	38
11:00	2	3	4	7	62	176	107	12	0	1	0	0	0	0	374	41	37
12 PM	1	1	9	11	68	177	108	8	0	0	0	0	0	1	384	41	37
13:00	4	1	3	12	89	212	128	16	2	0	0	0	0	0	467	41	37
14:00	7	10	22	41	170	241	79	9	0	0	0	0	0	0	579	39	34
15:00	12	15	46	77	193	347	75	7	0	0	0	0	0	1	773	38	34
16:00	8	3	29	141	293	386	128	2	2	0	0	0	0	0	992	38	34
17:00	6	22	39	107	276	452	109	9	1	0	0	0	0	1	1022	38	34
18:00	15	13	28	103	230	354	72	5	0	0	0	0	0	0	820	38	33
19:00	1	0	2	28	197	259	36	0	0	0	0	0	0	0	523	38	35
20:00	1	0	0	3	94	160	59	4	0	0	0	0	0	0	321	40	36
21:00	1	0	0	5	44	117	54	5	0	0	0	0	0	0	226	41	37
22:00	0	0	0	1	24	59	22	0	0	0	0	0	0	0	106	40	37
23:00	0	0	0	0	11	33	20	0	0	0	0	0	0	0	64	41	38
Total	78	87	225	597	2037	3658	1317	113	6	1	0	1	4	8124			
%	1.0%	1.1%	2.8%	7.3%	25.1%	45.0%	16.2%	1.4%	0.1%	0.0%	0.0%	0.0%	0.0%				
AM Peak	06:00	07:00	07:00	07:00	07:00	11:00	11:00	10:00	10:00	11:00			03:00	09:00	11:00		
Vol.	6	17	41	34	90	176	107	16	1	1			1	1	374		
PM Peak	18:00	17:00	15:00	16:00	16:00	17:00	13:00	13:00	13:00					12:00	17:00		
Vol.	15	22	46	141	293	452	128	16	2					1	1022		

Stats

15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5695
 Percent in Pace : 70.1%
 Number of Vehicles > 35 MPH : 4368
 Percent of Vehicles > 35 MPH : 53.8%



PRECISION
D A T A
INDUSTRIES, LLC

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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/16/																	
16	0	0	0	0	5	22	10	2	0	0	0	0	0	0	39	42	38
01:00	0	0	0	0	2	5	5	0	0	0	0	0	0	0	12	42	38
02:00	0	0	3	0	3	3	3	1	0	0	0	0	0	0	13	42	34
03:00	0	0	0	0	1	6	7	0	0	0	0	0	0	0	14	42	39
04:00	0	0	0	0	2	4	2	0	0	0	0	0	0	0	8	41	37
05:00	0	0	0	1	5	17	6	0	2	0	0	0	0	0	31	41	38
06:00	3	0	1	6	29	65	28	1	0	0	0	0	0	0	133	40	36
07:00	3	11	35	31	60	94	48	3	1	0	0	0	0	0	286	39	33
08:00	8	1	7	17	67	161	62	12	0	0	0	0	0	0	335	40	36
09:00	5	4	7	17	48	144	82	16	1	0	0	0	0	0	324	42	37
10:00	4	0	4	25	59	132	84	10	0	0	0	0	0	0	318	41	36
11:00	6	1	4	10	66	171	105	10	0	0	0	0	0	0	373	41	37
12 PM	3	2	1	9	67	190	121	18	1	0	0	0	0	0	412	42	38
13:00	3	4	6	31	84	185	90	12	0	0	0	0	0	0	415	41	36
14:00	31	51	119	108	98	132	45	1	0	0	0	0	0	0	585	37	28
15:00	7	23	56	72	138	293	150	14	0	0	0	0	0	0	753	40	34
16:00	14	12	20	72	169	491	188	7	1	0	0	0	0	0	974	40	35
17:00	12	16	49	111	241	503	146	16	0	0	0	0	0	0	1094	38	34
18:00	3	0	5	23	183	425	191	14	0	0	0	0	0	0	844	41	37
19:00	2	8	9	12	125	261	76	3	0	0	0	0	0	0	496	39	36
20:00	1	0	0	18	86	176	59	2	0	0	0	0	0	0	342	39	36
21:00	0	0	1	11	81	133	34	3	0	0	0	0	0	0	263	38	36
22:00	0	0	1	6	22	76	27	5	0	0	0	0	0	0	137	41	37
23:00	0	0	0	0	20	41	20	2	0	0	0	0	0	0	83	41	37
Total	105	133	328	580	1661	3730	1589	152	6	0	0	0	0	0	8284		
%	1.3%	1.6%	4.0%	7.0%	20.1%	45.0%	19.2%	1.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	07:00	07:00	07:00	08:00	11:00	11:00	09:00	05:00						11:00		
Vol.	8	11	35	31	67	171	105	16	2						373		
PM Peak	14:00	14:00	14:00	17:00	17:00	17:00	18:00	12:00	12:00						17:00		
Vol.	31	51	119	111	241	503	191	18	1						1094		

Stats
 15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 40 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5391
 Percent in Pace : 65.1%
 Number of Vehicles > 35 MPH : 4731
 Percent of Vehicles > 35 MPH : 57.1%



PRECISION
D A T A
INDUSTRIES, LLC

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Boston Road (Route 119/225)
south of Old Ayer Road
City, State: Groton, MA
Client: Stantec/ S. Wood

164969 F SPEED
Site Code: 179410329

NB

Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
03/17/														9999		
16	0	0	0	0	12	15	13	0	1	0	0	0	0	41	42	37
01:00	0	0	0	0	0	8	3	2	0	0	0	0	0	13	44	40
02:00	0	0	0	0	0	3	2	2	0	0	0	0	0	7	46	41
03:00	0	0	0	0	1	7	2	0	0	0	0	0	0	10	40	38
04:00	0	0	0	1	3	7	2	0	0	0	0	0	0	13	39	36
05:00	0	0	0	0	4	14	12	2	0	0	0	0	0	32	42	39
06:00	2	0	0	3	34	60	30	4	0	0	0	0	0	133	41	36
07:00	6	10	21	29	59	117	64	5	2	0	0	0	0	313	40	34
08:00	9	3	1	15	52	175	78	10	2	0	0	0	0	345	41	36
09:00	5	6	6	20	60	139	60	8	1	0	0	0	0	305	40	35
10:00	1	0	15	36	115	150	27	5	0	0	0	0	0	349	38	34
11:00	4	1	5	25	147	167	34	6	1	0	0	0	0	390	38	35
12 PM	3	1	18	36	105	212	91	3	0	0	0	0	0	469	40	35
13:00	25	31	26	57	129	178	51	4	1	0	0	0	1	503	38	32
14:00	47	65	116	147	95	84	24	1	0	0	0	0	1	580	35	26
15:00	15	8	17	73	215	303	93	6	0	0	0	0	0	730	38	34
16:00	67	63	140	173	194	318	55	2	0	0	0	0	0	1012	37	29
17:00	16	22	54	101	261	520	145	3	1	0	0	0	1	1124	38	34
18:00	4	0	1	44	195	456	154	9	0	0	0	0	1	864	40	36
19:00	0	2	5	25	105	286	72	9	0	0	0	0	1	505	39	36
20:00	1	1	3	10	69	189	61	4	0	0	0	0	0	338	40	36
21:00	1	0	1	7	67	139	47	5	0	0	0	0	0	267	40	36
22:00	0	0	0	2	22	65	41	5	0	0	0	0	0	135	42	38
23:00	0	0	0	0	14	56	28	5	0	0	0	0	0	103	42	38
Total	206	213	429	804	1958	3668	1189	100	9	0	0	0	5	8581		
%	2.4%	2.5%	5.0%	9.4%	22.8%	42.7%	13.9%	1.2%	0.1%	0.0%	0.0%	0.0%	0.1%			
AM Peak	08:00	07:00	07:00	10:00	11:00	08:00	08:00	08:00	07:00					11:00		
Vol.	9	10	21	36	147	175	78	10	2					390		
PM Peak	16:00	14:00	16:00	16:00	17:00	17:00	18:00	18:00	13:00				13:00	17:00		
Vol.	67	65	140	173	261	520	154	9	1				1	1124		

Stats
 15th Percentile : 26 MPH
 50th Percentile : 34 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 34 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5626
 Percent in Pace : 65.6%
 Number of Vehicles > 35 MPH : 4237
 Percent of Vehicles > 35 MPH : 49.4%

Boston Road (Route 119/225)
 south of Old Ayer Road
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
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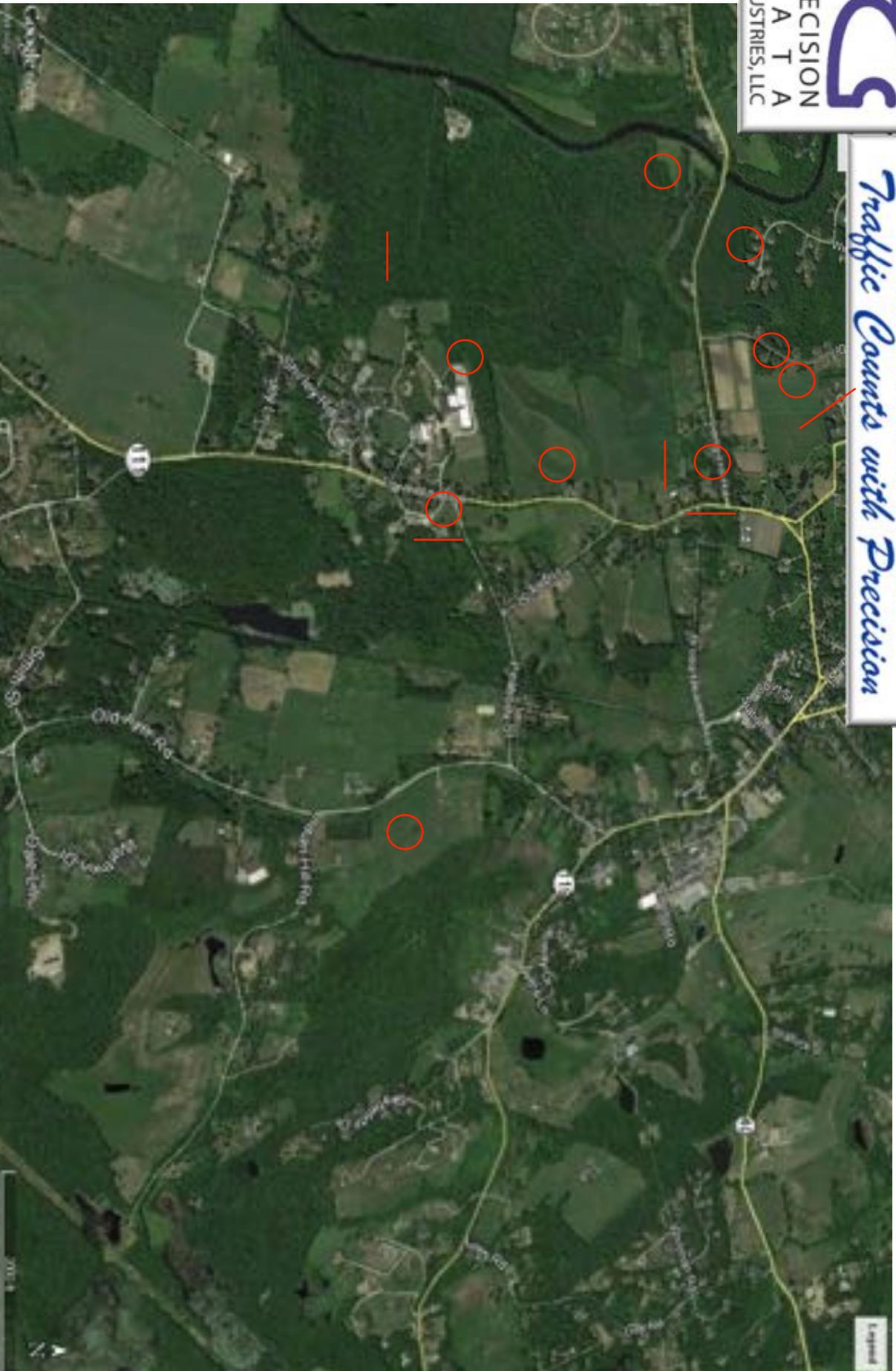
164969 F SPEED
 Site Code: 179410329

NB	Start Time	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th % ile	Ave Speed
		14	19	24	29	34	39	44	49	54	59	64	69	9999			
03/18/																	
16	0	0	2	5	12	30	16	1	0	0	0	0	0	0	66	41	36
01:00	0	0	0	0	3	15	8	3	0	0	0	0	0	0	29	43	39
02:00	0	0	0	1	5	7	4	1	0	0	0	0	0	0	18	41	37
03:00	0	0	0	0	2	9	2	0	0	0	0	0	0	0	13	39	37
04:00	1	0	0	0	5	3	4	0	0	0	0	0	0	0	13	41	34
05:00	1	0	0	0	1	14	14	3	0	0	0	0	0	0	33	43	39
06:00	1	1	0	1	19	63	43	4	1	0	0	0	0	0	133	42	38
07:00	8	13	19	44	52	119	72	13	0	0	0	0	0	0	340	41	34
08:00	7	7	12	22	47	159	69	6	0	0	1	0	1	331	40	35	
09:00	7	7	17	44	99	104	54	4	0	0	0	0	0	0	336	39	33
10:00	17	22	32	61	106	99	19	2	0	0	0	0	0	0	358	37	30
11:00	30	27	17	34	143	122	35	3	0	0	0	0	1	412	38	31	
12 PM	4	1	1	22	136	231	82	9	0	0	0	0	0	0	486	40	36
13:00	17	4	10	39	134	235	64	1	0	0	0	0	1	505	38	34	
14:00	23	44	87	107	196	144	30	2	0	0	0	0	0	633	36	30	
15:00	10	3	14	49	218	347	121	18	0	0	0	0	0	780	39	35	
16:00	11	5	25	66	248	496	130	14	0	0	0	0	2	997	38	35	
17:00	6	15	17	68	239	544	189	8	1	0	0	0	0	1087	39	36	
18:00	13	8	50	44	172	375	125	10	0	0	0	0	0	797	39	35	
19:00	2	2	5	6	117	231	55	0	0	0	0	0	0	418	38	36	
20:00	0	0	1	10	66	143	67	10	0	0	0	0	0	297	41	37	
21:00	0	0	0	1	38	120	53	8	0	0	0	0	0	220	41	38	
22:00	1	0	0	2	37	82	56	4	0	0	0	0	0	182	41	37	
23:00	0	0	0	0	10	53	43	4	0	0	0	0	0	110	42	39	
Total	159	159	309	626	2105	3745	1355	128	2	0	1	0	5	8594			
%	1.9%	1.9%	3.6%	7.3%	24.5%	43.6%	15.8%	1.5%	0.0%	0.0%	0.0%	0.0%	0.1%				
AM Peak	11:00	11:00	10:00	10:00	11:00	08:00	07:00	07:00	06:00		08:00		08:00	11:00			
Vol.	30	27	32	61	143	159	72	13	1		1		1	412			
PM Peak	14:00	14:00	14:00	14:00	16:00	17:00	17:00	15:00	17:00				16:00	17:00			
Vol.	23	44	87	107	248	544	189	18	1				2	1087			

Stats
 15th Percentile : 29 MPH
 50th Percentile : 35 MPH
 85th Percentile : 39 MPH
 95th Percentile : 42 MPH

Mean Speed(Average) : 35 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5850
 Percent in Pace : 68.1%
 Number of Vehicles > 35 MPH : 4487
 Percent of Vehicles > 35 MPH : 52.2%

Manual Count Data



Client:
Stantec

Engineer:
S. Wood

Site Code:
179410329

Date:
Sat 3/12 thru Fri 3/18/16

PDI Job Number:
164969

City, State:
Groton, MA

Precision Data Industries, LLC
PRECISION
DATA
INDUSTRIES, LLC

PRECISION DATA INDUSTRIES, LLC
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

PRECISION
DATA
INDUSTRIES, LLC
P.O. Box 230
Pellis, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

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Client:
Stantec

Engineer:
S. Wood

Site Code:
179410329

Date:
Sat 3/12 thru Tues 3/15/16

PDI Job Number:
164969

City, State:
Littleton, MA



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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 A
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
10:30 AM	13	20	0	26	3	0	4	9	0	75
10:45 AM	14	20	0	20	2	0	1	7	0	64
Total	27	40	0	46	5	0	5	16	0	139
11:00 AM	6	19	0	17	2	0	1	18	0	63
11:15 AM	10	34	0	19	3	0	1	7	0	74
11:30 AM	10	29	0	31	6	0	2	16	0	94
11:45 AM	8	30	0	30	2	0	5	11	0	86
Total	34	112	0	97	13	0	9	52	0	317
12:00 PM	11	25	0	28	1	0	1	9	0	75
12:15 PM	7	30	0	21	4	0	1	12	0	75
Grand Total	79	207	0	192	23	0	16	89	0	606
Apprch %	27.6	72.4	0	89.3	10.7	0	15.2	84.8	0	
Total %	13	34.2	0	31.7	3.8	0	2.6	14.7	0	
Cars	79	205	0	185	23	0	16	89	0	597
% Cars	100	99	0	96.4	100	0	100	100	0	98.5
Heavy Vehicles	0	2	0	7	0	0	0	0	0	9
% Heavy Vehicles	0	1	0	3.6	0	0	0	0	0	1.5

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:30 AM													
11:30 AM	10	29	0	39	31	6	0	37	2	16	0	18	94
11:45 AM	8	30	0	38	30	2	0	32	5	11	0	16	86
12:00 PM	11	25	0	36	28	1	0	29	1	9	0	10	75
12:15 PM	7	30	0	37	21	4	0	25	1	12	0	13	75
Total Volume	36	114	0	150	110	13	0	123	9	48	0	57	330
% App. Total	24	76	0		89.4	10.6	0		15.8	84.2	0		
PHF	.818	.950	.000	.962	.887	.542	.000	.831	.450	.750	.000	.792	.878
Cars	36	114	0	150	106	13	0	119	9	48	0	57	326
% Cars	100	100	0	100	96.4	100	0	96.7	100	100	0	100	98.8
Heavy Vehicles	0	0	0	0	4	0	0	4	0	0	0	0	4
% Heavy Vehicles	0	0	0	0	3.6	0	0	3.3	0	0	0	0	1.2



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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 A
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
10:30 AM	13	19	0	24	3	0	4	9	0	72
10:45 AM	14	20	0	20	2	0	1	7	0	64
Total	27	39	0	44	5	0	5	16	0	136
11:00 AM	6	19	0	17	2	0	1	18	0	63
11:15 AM	10	33	0	18	3	0	1	7	0	72
11:30 AM	10	29	0	31	6	0	2	16	0	94
11:45 AM	8	30	0	28	2	0	5	11	0	84
Total	34	111	0	94	13	0	9	52	0	313
12:00 PM	11	25	0	27	1	0	1	9	0	74
12:15 PM	7	30	0	20	4	0	1	12	0	74
Grand Total	79	205	0	185	23	0	16	89	0	597
Apprch %	27.8	72.2	0	88.9	11.1	0	15.2	84.8	0	
Total %	13.2	34.3	0	31	3.9	0	2.7	14.9	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:30 AM													
11:30 AM	10	29	0	39	31	6	0	37	2	16	0	18	94
11:45 AM	8	30	0	38	28	2	0	30	5	11	0	16	84
12:00 PM	11	25	0	36	27	1	0	28	1	9	0	10	74
12:15 PM	7	30	0	37	20	4	0	24	1	12	0	13	74
Total Volume	36	114	0	150	106	13	0	119	9	48	0	57	326
% App. Total	24	76	0		89.1	10.9	0		15.8	84.2	0		
PHF	.818	.950	.000	.962	.855	.542	.000	.804	.450	.750	.000	.792	.867



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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 A
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
10:30 AM	0	1	0	2	0	0	0	0	0	3
10:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	2	0	0	0	0	0	3
11:00 AM	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	1	0	0	0	0	0	2
11:30 AM	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	2	0	0	0	0	0	2
Total	0	1	0	3	0	0	0	0	0	4
12:00 PM	0	0	0	1	0	0	0	0	0	1
12:15 PM	0	0	0	1	0	0	0	0	0	1
Grand Total	0	2	0	7	0	0	0	0	0	9
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	22.2	0	77.8	0	0	0	0	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 10:30 AM													
10:30 AM	0	1	0	1	2	0	0	2	0	0	0	0	3
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total Volume	0	2	0	2	3	0	0	3	0	0	0	0	5
% App. Total	0	100	0		100	0	0		0	0	0		
PHF	.000	.500	.000	.500	.375	.000	.000	.375	.000	.000	.000	.000	.417



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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
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City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 A
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	Peds EB	Peds WB	Thru	Left	Peds WB	Peds EB	Right	Left	Peds NB	Peds SB	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	20	0	0	0	0	0	1	0	0	0	3	24
Total	0	20	0	0	0	0	0	1	0	0	0	3	24
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
12:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	3
Grand Total	0	22	0	0	0	3	0	1	0	1	0	3	30
Apprch %	0	100	0	0	0	75	0	25	0	25	0	75	
Total %	0	73.3	0	0	0	10	0	3.3	0	3.3	0	10	

Start Time	Old Ayer Road From North					Old Ayer Road From South					Peabody Street From West					Int. Total
	Right	Thru	Peds EB	Peds WB	App. Total	Thru	Left	Peds WB	Peds EB	App. Total	Right	Left	Peds NB	Peds SB	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 10:30 AM																
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	20	0	0	20	0	0	0	1	1	0	0	0	3	3	24
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	21	0	0	21	0	0	0	1	1	0	0	0	3	3	25
% App. Total	0	100	0	0		0	0	0	100		0	0	0	100		
PHF	.000	.263	.000	.000	.263	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.260

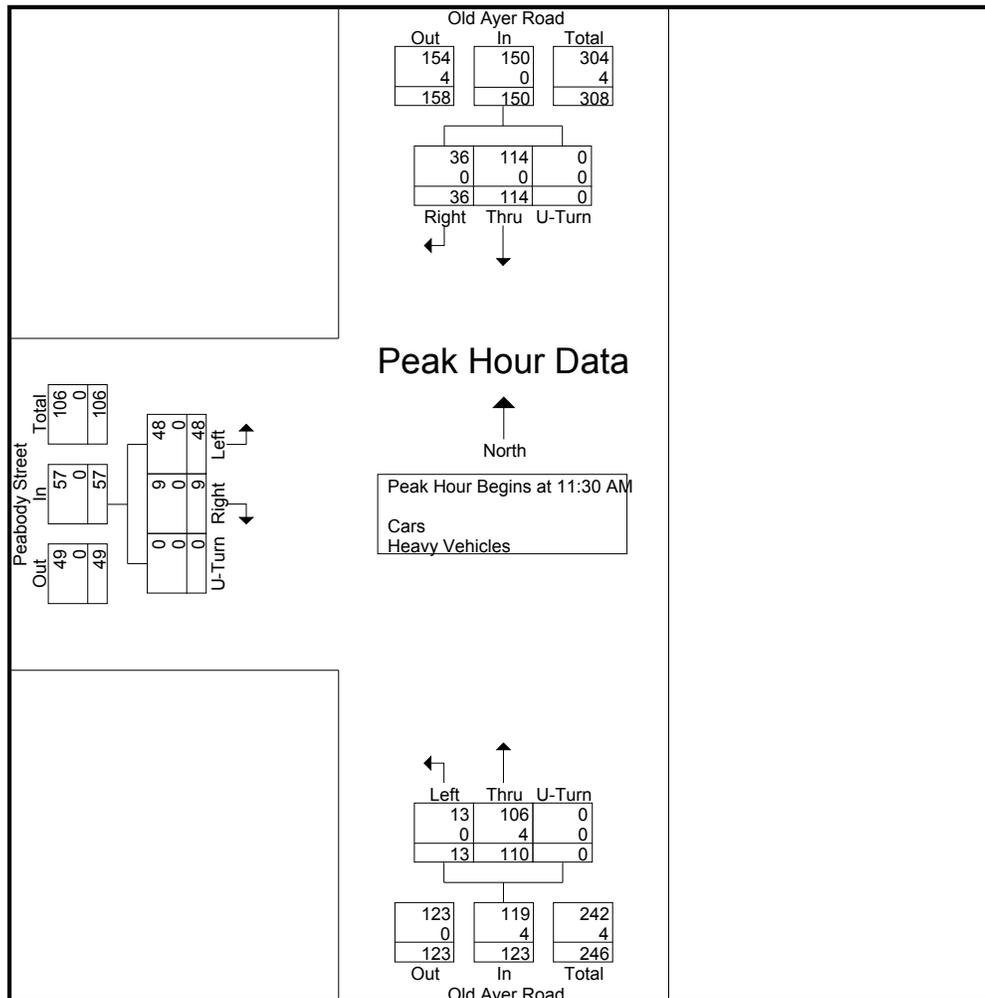
N/S: Old Ayer Road
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 City, State: Groton, MA
 Client: Stantec/ S. Wood



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 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

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 Page No : 1

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:30 AM													
11:30 AM	10	29	0	39	31	6	0	37	2	16	0	18	94
11:45 AM	8	30	0	38	30	2	0	32	5	11	0	16	86
12:00 PM	11	25	0	36	28	1	0	29	1	9	0	10	75
12:15 PM	7	30	0	37	21	4	0	25	1	12	0	13	75
Total Volume	36	114	0	150	110	13	0	123	9	48	0	57	330
% App. Total	24	76	0		89.4	10.6	0		15.8	84.2	0		
PHF	.818	.950	.000	.962	.887	.542	.000	.831	.450	.750	.000	.792	.878
Cars	36	114	0	150	106	13	0	119	9	48	0	57	326
% Cars	100	100	0	100	96.4	100	0	96.7	100	100	0	100	98.8
Heavy Vehicles	0	0	0	0	4	0	0	4	0	0	0	0	4
% Heavy Vehicles	0	0	0	0	3.6	0	0	3.3	0	0	0	0	1.2





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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

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City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
06:00 PM	7	15	0	15	1	0	4	8	0	50
06:15 PM	5	16	0	17	1	0	2	9	0	50
06:30 PM	5	17	0	5	1	0	0	7	0	35
06:45 PM	7	17	0	13	1	0	3	6	0	47
Total	24	65	0	50	4	0	9	30	0	182
07:00 PM	5	19	0	11	2	0	3	2	0	42
07:15 PM	2	5	0	10	2	0	1	7	0	27
07:30 PM	5	9	0	17	1	0	0	6	0	38
07:45 PM	1	8	0	8	2	0	1	4	0	24
Total	13	41	0	46	7	0	5	19	0	131
Grand Total	37	106	0	96	11	0	14	49	0	313
Apprch %	25.9	74.1	0	89.7	10.3	0	22.2	77.8	0	
Total %	11.8	33.9	0	30.7	3.5	0	4.5	15.7	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	7	15	0	22	15	1	0	16	4	8	0	12	50
06:15 PM	5	16	0	21	17	1	0	18	2	9	0	11	50
06:30 PM	5	17	0	22	5	1	0	6	0	7	0	7	35
06:45 PM	7	17	0	24	13	1	0	14	3	6	0	9	47
Total Volume	24	65	0	89	50	4	0	54	9	30	0	39	182
% App. Total	27	73	0		92.6	7.4	0		23.1	76.9	0		
PHF	.857	.956	.000	.927	.735	1.00	.000	.750	.563	.833	.000	.813	.910



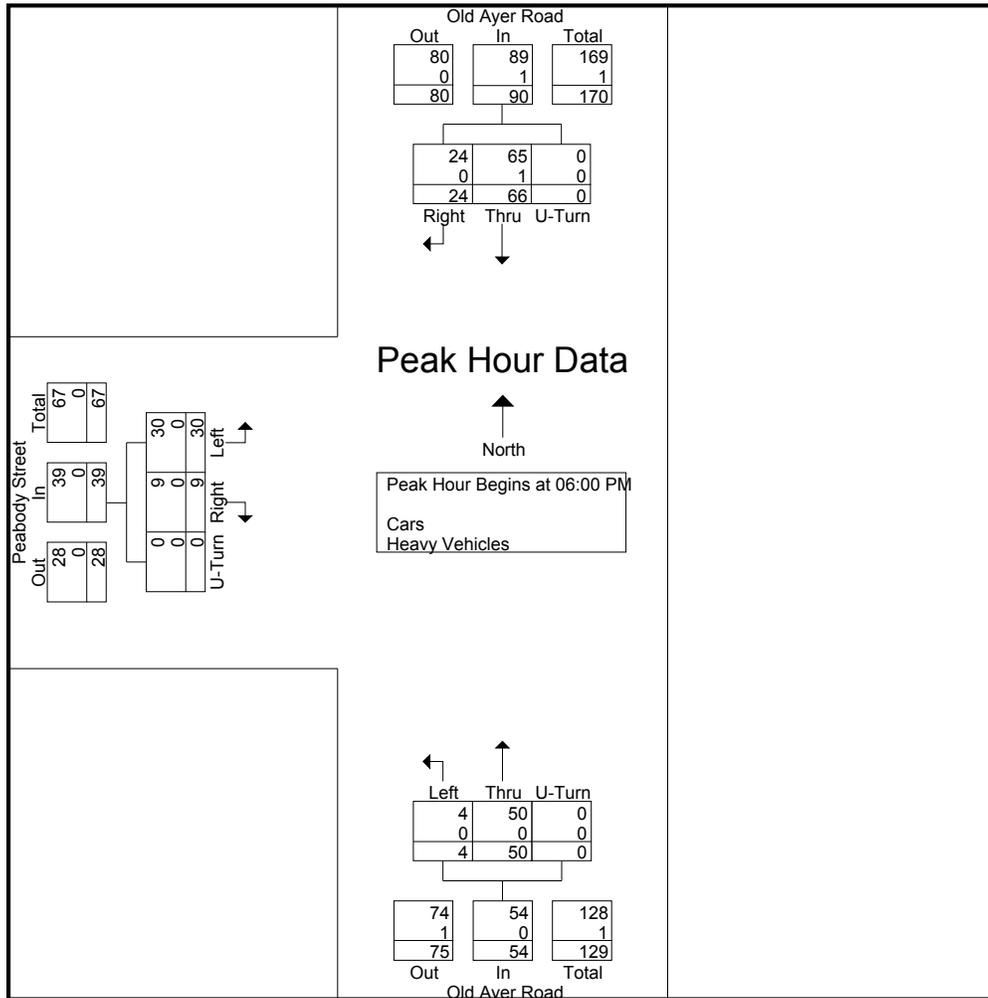
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D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	7	15	0	22	15	1	0	16	4	8	0	12	50
06:15 PM	5	16	0	21	17	1	0	18	2	9	0	11	50
06:30 PM	5	18	0	23	5	1	0	6	0	7	0	7	36
06:45 PM	7	17	0	24	13	1	0	14	3	6	0	9	47
Total Volume	24	66	0	90	50	4	0	54	9	30	0	39	183
% App. Total	26.7	73.3	0		92.6	7.4	0		23.1	76.9	0		
PHF	.857	.917	.000	.938	.735	1.00	.000	.750	.563	.833	.000	.813	.915
Cars	24	65	0	89	50	4	0	54	9	30	0	39	182
% Cars	100	98.5	0	98.9	100	100	0	100	100	100	0	100	99.5
Heavy Vehicles	0	1	0	1	0	0	0	0	0	0	0	0	1
% Heavy Vehicles	0	1.5	0	1.1	0	0	0	0	0	0	0	0	0.5





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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
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City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
09:00 PM	6	8	0	5	3	0	0	4	0	26
09:15 PM	2	5	0	6	2	0	1	3	0	19
09:30 PM	3	13	0	5	1	0	2	2	0	26
09:45 PM	8	9	0	7	2	0	2	3	0	31
Total	19	35	0	23	8	0	5	12	0	102
10:00 PM	6	10	0	8	3	0	0	0	0	27
10:15 PM	2	5	0	6	2	0	1	5	0	21
10:30 PM	0	12	0	6	0	0	0	3	0	21
10:45 PM	1	9	0	2	0	0	0	1	0	13
Total	9	36	0	22	5	0	1	9	0	82
Grand Total	28	71	0	45	13	0	6	21	0	184
Apprch %	28.3	71.7	0	77.6	22.4	0	22.2	77.8	0	
Total %	15.2	38.6	0	24.5	7.1	0	3.3	11.4	0	
Cars	28	71	0	44	13	0	6	21	0	183
% Cars	100	100	0	97.8	100	0	100	100	0	99.5
Heavy Vehicles	0	0	0	1	0	0	0	0	0	1
% Heavy Vehicles	0	0	0	2.2	0	0	0	0	0	0.5

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:30 PM													
09:30 PM	3	13	0	16	5	1	0	6	2	2	0	4	26
09:45 PM	8	9	0	17	7	2	0	9	2	3	0	5	31
10:00 PM	6	10	0	16	8	3	0	11	0	0	0	0	27
10:15 PM	2	5	0	7	6	2	0	8	1	5	0	6	21
Total Volume	19	37	0	56	26	8	0	34	5	10	0	15	105
% App. Total	33.9	66.1	0		76.5	23.5	0		33.3	66.7	0		
PHF	.594	.712	.000	.824	.813	.667	.000	.773	.625	.500	.000	.625	.847
Cars	19	37	0	56	25	8	0	33	5	10	0	15	104
% Cars	100	100	0	100	96.2	100	0	97.1	100	100	0	100	99.0
Heavy Vehicles	0	0	0	0	1	0	0	1	0	0	0	0	1
% Heavy Vehicles	0	0	0	0	3.8	0	0	2.9	0	0	0	0	1.0



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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
09:00 PM	6	8	0	5	3	0	0	4	0	26
09:15 PM	2	5	0	6	2	0	1	3	0	19
09:30 PM	3	13	0	5	1	0	2	2	0	26
09:45 PM	8	9	0	7	2	0	2	3	0	31
Total	19	35	0	23	8	0	5	12	0	102
10:00 PM	6	10	0	8	3	0	0	0	0	27
10:15 PM	2	5	0	5	2	0	1	5	0	20
10:30 PM	0	12	0	6	0	0	0	3	0	21
10:45 PM	1	9	0	2	0	0	0	1	0	13
Total	9	36	0	21	5	0	1	9	0	81
Grand Total	28	71	0	44	13	0	6	21	0	183
Apprch %	28.3	71.7	0	77.2	22.8	0	22.2	77.8	0	
Total %	15.3	38.8	0	24	7.1	0	3.3	11.5	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:30 PM													
09:30 PM	3	13	0	16	5	1	0	6	2	2	0	4	26
09:45 PM	8	9	0	17	7	2	0	9	2	3	0	5	31
10:00 PM	6	10	0	16	8	3	0	11	0	0	0	0	27
10:15 PM	2	5	0	7	5	2	0	7	1	5	0	6	20
Total Volume	19	37	0	56	25	8	0	33	5	10	0	15	104
% App. Total	33.9	66.1	0		75.8	24.2	0		33.3	66.7	0		
PHF	.594	.712	.000	.824	.781	.667	.000	.750	.625	.500	.000	.625	.839



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Office: 508.481.3999 Fax: 508.545.1234
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N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
09:00 PM	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	1	0	0	0	0	0	1
10:30 PM	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	1
Grand Total	0	0	0	1	0	0	0	0	0	1
Apprch %	0	0	0	100	0	0	0	0	0	0
Total %	0	0	0	100	0	0	0	0	0	0

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:30 PM													
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	1
% App. Total	0	0	0	0	100	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.250



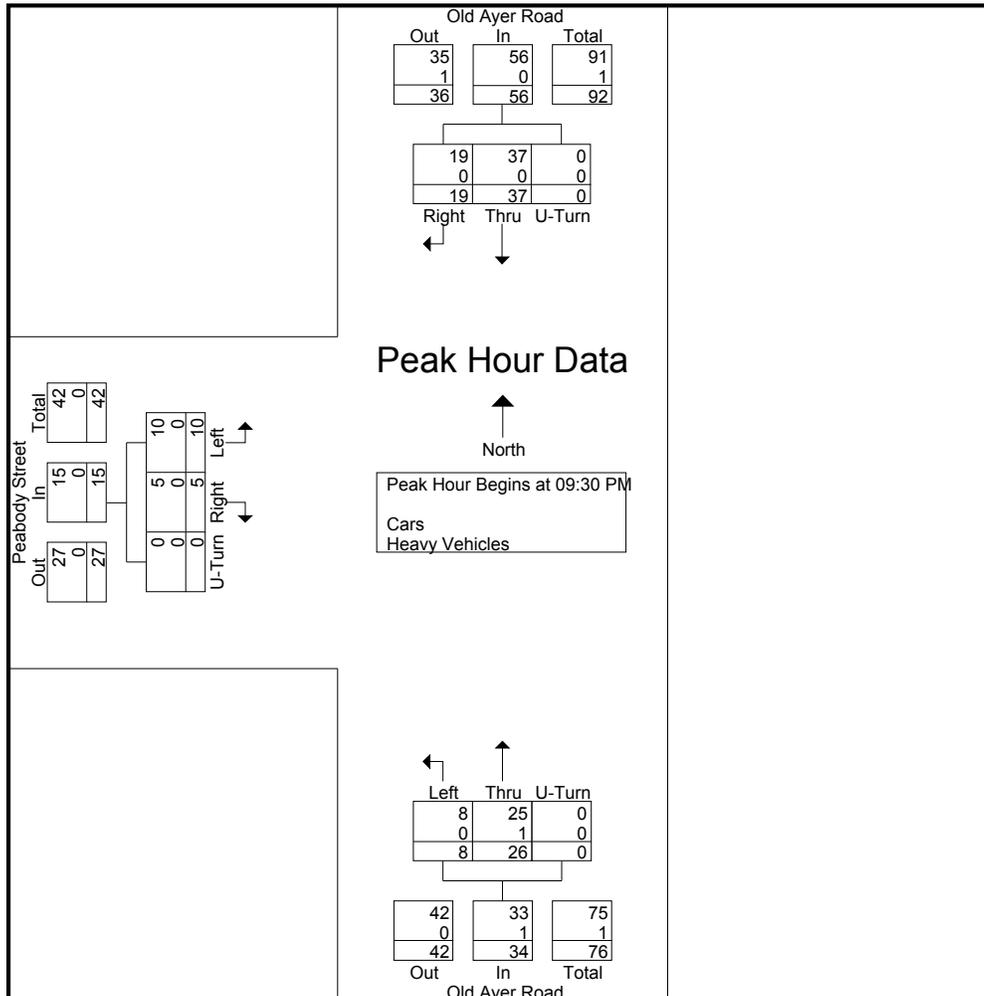
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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAA
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:30 PM													
09:30 PM	3	13	0	16	5	1	0	6	2	2	0	4	26
09:45 PM	8	9	0	17	7	2	0	9	2	3	0	5	31
10:00 PM	6	10	0	16	8	3	0	11	0	0	0	0	27
10:15 PM	2	5	0	7	6	2	0	8	1	5	0	6	21
Total Volume	19	37	0	56	26	8	0	34	5	10	0	15	105
% App. Total	33.9	66.1	0		76.5	23.5	0		33.3	66.7	0		
PHF	.594	.712	.000	.824	.813	.667	.000	.773	.625	.500	.000	.625	.847
Cars	19	37	0	56	25	8	0	33	5	10	0	15	104
% Cars	100	100	0	100	96.2	100	0	97.1	100	100	0	100	99.0
Heavy Vehicles	0	0	0	0	1	0	0	1	0	0	0	0	1
% Heavy Vehicles	0	0	0	0	3.8	0	0	2.9	0	0	0	0	1.0





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N/S: Old Ayer Road
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City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAAA
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
04:45 PM	17	22	0	33	28	0	3	17	0	120
Total	17	22	0	33	28	0	3	17	0	120
05:00 PM	16	30	0	33	21	0	1	13	0	114
05:15 PM	19	17	0	28	22	0	3	12	0	101
05:30 PM	10	27	0	27	29	1	7	13	0	114
05:45 PM	21	23	0	26	13	0	5	16	0	104
Total	66	97	0	114	85	1	16	54	0	433
06:00 PM	11	21	0	21	18	0	5	7	0	83
06:15 PM	8	23	0	14	10	0	1	5	0	61
06:30 PM	7	22	0	16	7	0	4	6	0	62
06:45 PM	10	15	0	22	8	0	3	6	0	64
Total	36	81	0	73	43	0	13	24	0	270
07:00 PM	8	21	0	21	3	0	0	7	0	60
07:15 PM	4	12	0	11	7	0	2	9	0	45
07:30 PM	6	15	0	16	6	0	1	6	0	50
07:45 PM	8	19	0	9	3	0	0	3	0	42
Total	26	67	0	57	19	0	3	25	0	197
08:00 PM	7	8	0	7	0	0	0	2	0	24
08:15 PM	2	17	0	4	1	0	1	2	0	27
08:30 PM	6	5	0	9	0	0	0	2	0	22
08:45 PM	2	13	0	3	1	0	4	5	0	28
Total	17	43	0	23	2	0	5	11	0	101
09:00 PM	3	14	0	12	1	0	0	2	0	32
09:15 PM	4	11	0	7	0	0	2	0	0	24
09:30 PM	3	7	0	9	1	0	0	1	0	21
09:45 PM	4	4	0	4	0	0	1	1	0	14
Total	14	36	0	32	2	0	3	4	0	91
10:00 PM	2	3	0	3	1	0	0	1	0	10
10:15 PM	1	2	0	2	1	0	0	1	0	7
10:30 PM	3	4	0	4	1	0	0	0	0	12
Grand Total	182	355	0	341	182	1	43	137	0	1241
Apprch %	33.9	66.1	0	65.1	34.7	0.2	23.9	76.1	0	
Total %	14.7	28.6	0	27.5	14.7	0.1	3.5	11	0	
Cars	181	353	0	339	182	1	41	137	0	1234
% Cars	99.5	99.4	0	99.4	100	100	95.3	100	0	99.4
Heavy Vehicles	1	2	0	2	0	0	2	0	0	7
% Heavy Vehicles	0.5	0.6	0	0.6	0	0	4.7	0	0	0.6

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
04:45 PM	17	22	0	39	33	28	0	61	3	17	0	20	120
05:00 PM	16	30	0	46	33	21	0	54	1	13	0	14	114
05:15 PM	19	17	0	36	28	22	0	50	3	12	0	15	101
05:30 PM	10	27	0	37	27	29	1	57	7	13	0	20	114
Total Volume	62	96	0	158	121	100	1	222	14	55	0	69	449
% App. Total	39.2	60.8	0		54.5	45	0.5		20.3	79.7	0		
PHF	.816	.800	.000	.859	.917	.862	.250	.910	.500	.809	.000	.863	.935
Cars	62	96	0	158	120	100	1	221	14	55	0	69	448
% Cars	100	100	0	100	99.2	100	100	99.5	100	100	0	100	99.8
Heavy Vehicles	0	0	0	0	1	0	0	1	0	0	0	0	1
% Heavy Vehicles	0	0	0	0	0.8	0	0	0.5	0	0	0	0	0.2

Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:45 PM



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D A T A
INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAAA
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Cars

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
04:45 PM	17	22	0	33	28	0	3	17	0	120
Total	17	22	0	33	28	0	3	17	0	120
05:00 PM	16	30	0	32	21	0	1	13	0	113
05:15 PM	19	17	0	28	22	0	3	12	0	101
05:30 PM	10	27	0	27	29	1	7	13	0	114
05:45 PM	21	23	0	26	13	0	5	16	0	104
Total	66	97	0	113	85	1	16	54	0	432
06:00 PM	11	21	0	21	18	0	4	7	0	82
06:15 PM	7	23	0	14	10	0	1	5	0	60
06:30 PM	7	21	0	16	7	0	3	6	0	60
06:45 PM	10	15	0	21	8	0	3	6	0	63
Total	35	80	0	72	43	0	11	24	0	265
07:00 PM	8	21	0	21	3	0	0	7	0	60
07:15 PM	4	12	0	11	7	0	2	9	0	45
07:30 PM	6	15	0	16	6	0	1	6	0	50
07:45 PM	8	19	0	9	3	0	0	3	0	42
Total	26	67	0	57	19	0	3	25	0	197
08:00 PM	7	8	0	7	0	0	0	2	0	24
08:15 PM	2	17	0	4	1	0	1	2	0	27
08:30 PM	6	5	0	9	0	0	0	2	0	22
08:45 PM	2	13	0	3	1	0	4	5	0	28
Total	17	43	0	23	2	0	5	11	0	101
09:00 PM	3	13	0	12	1	0	0	2	0	31
09:15 PM	4	11	0	7	0	0	2	0	0	24
09:30 PM	3	7	0	9	1	0	0	1	0	21
09:45 PM	4	4	0	4	0	0	1	1	0	14
Total	14	35	0	32	2	0	3	4	0	90
10:00 PM	2	3	0	3	1	0	0	1	0	10
10:15 PM	1	2	0	2	1	0	0	1	0	7
10:30 PM	3	4	0	4	1	0	0	0	0	12
Grand Total	181	353	0	339	182	1	41	137	0	1234
Apprch %	33.9	66.1	0	64.9	34.9	0.2	23	77	0	
Total %	14.7	28.6	0	27.5	14.7	0.1	3.3	11.1	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:45 PM													
04:45 PM	17	22	0	39	33	28	0	61	3	17	0	20	120
05:00 PM	16	30	0	46	32	21	0	53	1	13	0	14	113
05:15 PM	19	17	0	36	28	22	0	50	3	12	0	15	101
05:30 PM	10	27	0	37	27	29	1	57	7	13	0	20	114
Total Volume	62	96	0	158	120	100	1	221	14	55	0	69	448
% App. Total	39.2	60.8	0		54.3	45.2	0.5		20.3	79.7	0		
PHF	.816	.800	.000	.859	.909	.862	.250	.906	.500	.809	.000	.863	.933



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Client: Stantec/ S. Wood

File Name : 164969 AAAA
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Old Ayer Road From North			Old Ayer Road From South			Peabody Street From West			Int. Total
	Right	Thru	U-Turn	Thru	Left	U-Turn	Right	Left	U-Turn	
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	1	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	1
06:00 PM	0	0	0	0	0	0	1	0	0	1
06:15 PM	1	0	0	0	0	0	0	0	0	1
06:30 PM	0	1	0	0	0	0	1	0	0	2
06:45 PM	0	0	0	1	0	0	0	0	0	1
Total	1	1	0	1	0	0	2	0	0	5
07:00 PM	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	0	0	0	0	0	0	0
08:15 PM	0	0	0	0	0	0	0	0	0	0
08:30 PM	0	0	0	0	0	0	0	0	0	0
08:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	1	0	0	0	0	0	0	0	1
09:15 PM	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	1
10:00 PM	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0
Grand Total	1	2	0	2	0	0	2	0	0	7
Apprch %	33.3	66.7	0	100	0	0	100	0	0	
Total %	14.3	28.6	0	28.6	0	0	28.6	0	0	

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
06:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
06:30 PM	0	1	0	1	0	0	0	0	1	0	0	1	2
06:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
Total Volume	1	1	0	2	1	0	0	1	2	0	0	2	5
% App. Total	50	50	0		100	0	0		100	0	0		
PHF	.250	.250	.000	.500	.250	.000	.000	.250	.500	.000	.000	.500	.625



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File Name : 164969 AAAA
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	Peds EB	Peds WB	Thru	Left	Peds WB	Peds EB	Right	Left	Peds NB	Peds SB	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	0
Total %													

Start Time	Old Ayer Road From North					Old Ayer Road From South					Peabody Street From West					Int. Total
	Right	Thru	Peds EB	Peds WB	App. Total	Thru	Left	Peds WB	Peds EB	App. Total	Right	Left	Peds NB	Peds SB	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 04:45 PM																
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000



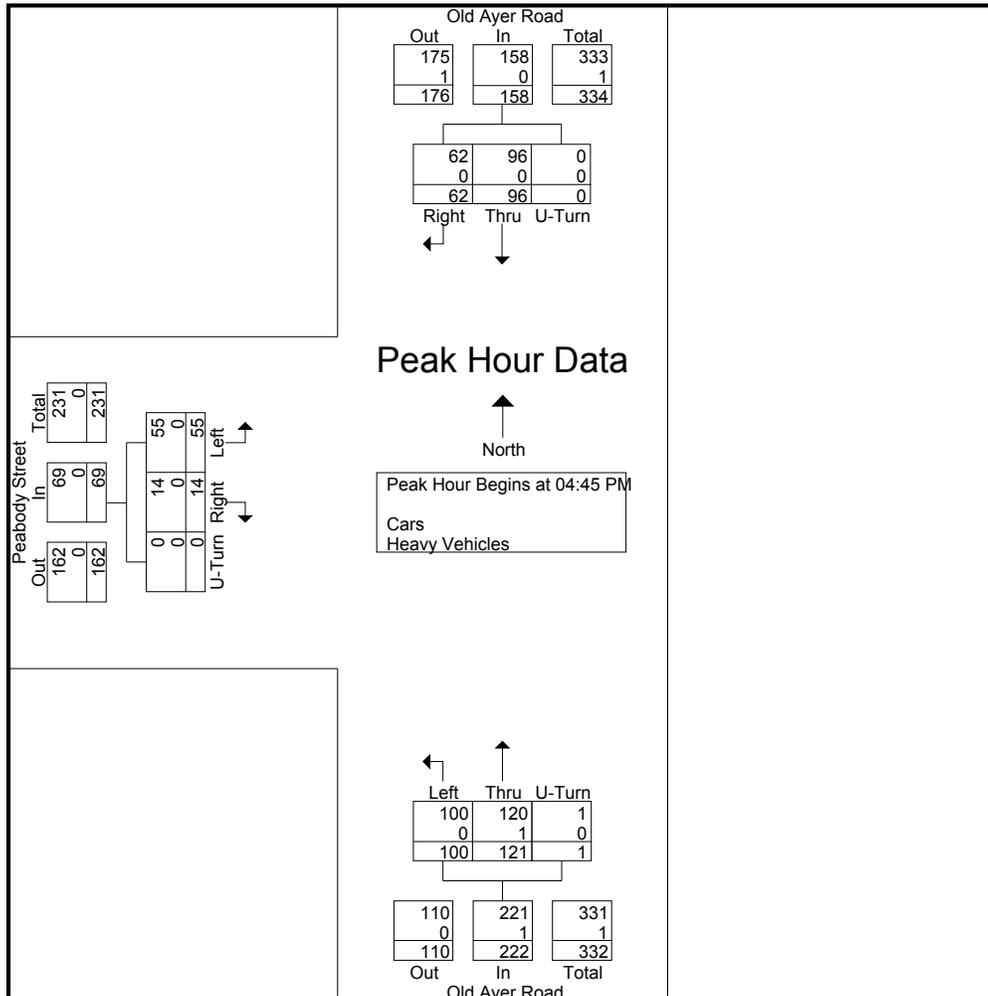
PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Old Ayer Road
W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 AAAA
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Start Time	Old Ayer Road From North				Old Ayer Road From South				Peabody Street From West				Int. Total
	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:45 PM													
04:45 PM	17	22	0	39	33	28	0	61	3	17	0	20	120
05:00 PM	16	30	0	46	33	21	0	54	1	13	0	14	114
05:15 PM	19	17	0	36	28	22	0	50	3	12	0	15	101
05:30 PM	10	27	0	37	27	29	1	57	7	13	0	20	114
Total Volume	62	96	0	158	121	100	1	222	14	55	0	69	449
% App. Total	39.2	60.8	0		54.5	45	0.5		20.3	79.7	0		
PHF	.816	.800	.000	.859	.917	.862	.250	.910	.500	.809	.000	.863	.935
Cars	62	96	0	158	120	100	1	221	14	55	0	69	448
% Cars	100	100	0	100	99.2	100	100	99.5	100	100	0	100	99.8
Heavy Vehicles	0	0	0	0	1	0	0	1	0	0	0	0	1
% Heavy Vehicles	0	0	0	0	0.8	0	0	0.5	0	0	0	0	0.2





PRECISION DATA INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 B
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include 10:30 AM, 10:45 AM, 11:00 AM, 11:15 AM, 11:30 AM, 11:45 AM, 12:00 PM, 12:15 PM, Grand Total, Apprch %, Total %, Cars, % Cars, Heavy Vehicles, and % Heavy Vehicles.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include 11:00 AM, 11:15 AM, 11:30 AM, 11:45 AM, Total Volume, % App. Total, PHF, Cars, % Cars, Heavy Vehicles, and % Heavy Vehicles.



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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
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Client: Stantec/ S. Wood

File Name : 164969 B
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn	
10:30 AM	0	148	0	3	0	2	0	24	0	0	0	0	0	0	0	1	45	112	1	0	0	0	0	0	0	336
10:45 AM	2	154	0	4	0	5	0	28	0	0	0	1	0	0	0	0	31	121	1	0	0	0	0	0	0	347
Total	2	302	0	7	0	7	0	52	0	0	0	1	0	0	0	1	76	233	2	0	0	0	0	0	0	683
11:00 AM	2	149	1	2	0	4	0	34	0	0	1	0	0	1	0	1	34	111	1	0	0	0	0	0	0	341
11:15 AM	1	156	1	2	0	4	0	24	0	0	2	0	0	0	0	0	44	121	0	0	0	0	0	0	0	355
11:30 AM	1	147	0	5	0	1	0	29	0	0	0	0	0	0	0	0	41	123	1	0	0	0	0	0	0	348
11:45 AM	3	147	0	1	0	6	0	40	0	0	0	0	0	1	0	0	39	115	0	0	0	0	0	0	0	352
Total	7	599	2	10	0	15	0	127	0	0	3	0	0	2	0	1	158	470	2	0	0	0	0	0	0	1396
12:00 PM	2	126	0	5	0	7	0	45	0	0	0	0	0	0	0	1	34	102	1	0	1	0	0	0	0	324
12:15 PM	0	135	0	5	0	1	1	36	0	0	0	0	0	0	0	0	32	120	0	0	1	0	0	0	0	331
Grand Total	11	1162	2	27	0	30	1	260	0	0	3	1	0	2	0	3	300	925	5	0	2	0	0	0	0	2734
Apprch %	0.9	96.7	0.2	2.2	0	10.3	0.3	89.3	0	0	50	16.7	0	33.3	0	0.2	24.3	75	0.4	0	100	0	0	0	0	
Total %	0.4	42.5	0.1	1	0	1.1	0	9.5	0	0	0.1	0	0	0.1	0	0.1	11	33.8	0.2	0	0.1	0	0	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
11:00 AM	2	149	1	2	0	154	4	0	34	0	0	38	1	0	0	1	0	2	1	34	111	1	0	147	0	0	0	0	0	0	341
11:15 AM	1	156	1	2	0	160	4	0	24	0	0	28	2	0	0	0	0	2	0	44	121	0	0	165	0	0	0	0	0	0	355
11:30 AM	1	147	0	5	0	153	1	0	29	0	0	30	0	0	0	0	0	0	0	41	123	1	0	165	0	0	0	0	0	0	348
11:45 AM	3	147	0	1	0	151	6	0	40	0	0	46	0	0	0	1	0	1	0	39	115	0	0	154	0	0	0	0	0	0	352
Total Volume	7	599	2	10	0	618	15	0	127	0	0	142	3	0	0	2	0	5	1	158	470	2	0	631	0	0	0	0	0	0	1396
% App. Total	1.1	96.9	0.3	1.6	0		10.6	0	89.4	0	0		60	0	0	40	0		0.2	25	74.5	0.3	0		0	0	0	0	0	0	
PHF	.583	.960	.500	.500	.000	.966	.625	.000	.794	.000	.000	.772	.375	.000	.000	.500	.000	.625	.250	.898	.955	.500	.000	.956	.000	.000	.000	.000	.000	.000	.983

Peak Hour for Entire Intersection Begins at 11:00 AM

Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 B
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total					
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn						
10:30 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7
10:45 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	12
11:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	10
12:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
12:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	17	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	28
Apprch %	0	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	10	90	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	60.7	0	0	0	0	0	3.6	0	0	0	0	0	0	0	0	3.6	32.1	0	0	0	0	0	0	0	0	0	0	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
10:30 AM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
10:45 AM	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
11:00 AM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3
Total Volume	0	10	0	0	0	10	0	0	1	0	0	1	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	17
% App. Total	0	100	0	0	0		0	0	100	0	0		0	0	0	0	0		0	0	100	0	0		0	0	0	0	0		
PHF	.000	.500	.000	.000	.000	.500	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.750	.000	.000	.750	.000	.000	.000	.000	.000	.000	.607

Peak Hour for Entire Intersection Begins at 10:30 AM

Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1

N/S: Main Street (Route 119/225)
 E/W/SE: Hollis St/ Court St/ Mayfield Rd
 City, State: Groton, MA
 Client: Stantec/ S. Wood



PRECISION
 DATA
 INDUSTRIES, LLC
 P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

File Name : 164969 B
 Site Code : 17941032
 Start Date : 3/12/2016
 Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	Peds EB	Peds WB	Right	Thru	Left	Hard Left	Peds SB	Peds NB	Hard Right	Bear Right	Bear Left	Hard Left	Peds SB	Peds NB	Hard Right	Right	Thru	Left	Peds WB	Peds EB	Right	Bear Right	Thru	Left	Peds NB	Peds SB	
10:30 AM	0	0	0	0	0	1	0	0	18	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	21
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	18	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	21
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6
11:30 AM	0	0	0	0	1	4	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	11
11:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	8
Total	0	1	0	0	2	6	0	0	0	0	2	1	0	0	0	5	5	0	0	4	0	0	0	0	0	0	0	0	1	0	27
12:00 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	8
12:15 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	11
Grand Total	0	4	0	0	5	7	0	0	18	0	2	1	0	0	0	9	9	0	0	10	0	0	0	0	0	0	0	0	1	1	67
Approch %	0	25	0	0	31.2	43.8	0	0	85.7	0	9.5	4.8	0	0	0	50	50	0	0	100	0	0	0	0	0	0	0	0	50	50	
Total %	0	6	0	0	7.5	10.4	0	0	26.9	0	3	1.5	0	0	0	13.4	13.4	0	0	14.9	0	0	0	0	0	0	0	1.5	1.5		

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	Peds s EB	App. Total	Right	Thru	Left	Hard Left	Peds s SB	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	Peds s SB	App. Total	Hard Right	Right	Thru	Left	Peds s WB	App. Total	Right	Bear Right	Thru	Left	Peds s NB	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1																															
Peak Hour for Entire Intersection Begins at 11:30 AM																															
11:30 AM	0	0	0	0	1	4	5	0	0	0	0	2	1	3	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	11
11:45 AM	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	4	0	0	0	0	0	0	8
12:00 PM	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	4	4	0	0	1	0	0	0	1	0	0	0	0	0	0	8
12:15 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0	3	0	5	0	0	0	5	0	0	0	0	0	0	11
Total Volume	0	3	0	0	4	6	13	0	0	0	2	1	3	0	0	0	5	7	12	0	0	10	0	0	10	0	0	0	0	0	38
% App. Total	0	23.1	0	0	30.8	46.2		0	0	0	0	66.7	33.3		0	0	0	41.7	58.3		0	0	100	0	0	0	0	0	0		
PHF	.000	.250	.000	.000	.333	.375	.650	.000	.000	.000	.000	.250	.250	.250	.000	.000	.000	.417	.438	.750	.000	.000	.500	.000	.000	.500	.000	.000	.000	.864	



PRECISION DATA INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals (06:00 PM to 07:45 PM) and Grand Total with approach percentages.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include Peak Hour Analysis (06:00 PM to 07:45 PM) and PHF (Peak Hour Factor) for Cars and Heavy Vehicles.



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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
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File Name : 164969 BB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn	
06:00 PM	0	84	0	2	0	4	0	29	0	0	0	0	0	0	0	0	21	101	0	0	0	0	0	0	0	241
06:15 PM	1	81	0	9	0	1	0	24	1	0	0	0	0	0	0	0	28	118	3	0	0	0	0	0	0	266
06:30 PM	0	84	0	4	0	3	1	19	0	0	0	1	1	1	0	2	19	81	2	0	0	0	1	0	0	219
06:45 PM	0	77	0	1	0	3	0	15	0	0	0	0	0	0	0	1	23	86	1	0	0	0	0	0	0	207
Total	1	326	0	16	0	11	1	87	1	0	0	1	1	1	0	3	91	386	6	0	0	0	1	0	0	933
07:00 PM	1	57	0	3	0	1	0	10	0	0	0	0	0	0	0	0	19	75	0	1	0	0	0	0	0	167
07:15 PM	0	51	0	0	0	0	0	11	0	0	0	0	0	0	0	0	17	57	0	0	0	0	0	0	0	136
07:30 PM	0	55	0	0	0	1	0	10	0	0	0	0	0	0	0	0	19	76	1	0	0	0	0	0	0	162
07:45 PM	0	61	0	2	0	3	1	7	0	0	0	0	0	0	0	0	16	49	0	0	0	0	0	0	0	139
Total	1	224	0	5	0	5	1	38	0	0	0	0	0	0	0	0	71	257	1	1	0	0	0	0	0	604
Grand Total	2	550	0	21	0	16	2	125	1	0	0	1	1	1	0	3	162	643	7	1	0	0	1	0	0	1537
Apprch %	0.3	96	0	3.7	0	11.1	1.4	86.8	0.7	0	0	33.3	33.3	33.3	0	0.4	19.9	78.8	0.9	0.1	0	0	100	0	0	
Total %	0.1	35.8	0	1.4	0	1	0.1	8.1	0.1	0	0	0.1	0.1	0.1	0	0.2	10.5	41.8	0.5	0.1	0	0	0.1	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
06:00 PM	0	84	0	2	0	86	4	0	29	0	0	33	0	0	0	0	0	0	0	21	101	0	0	122	0	0	0	0	0	0	241
06:15 PM	1	81	0	9	0	91	1	0	24	1	0	26	0	0	0	0	0	0	0	28	118	3	0	149	0	0	0	0	0	0	266
06:30 PM	0	84	0	4	0	88	3	1	19	0	0	23	0	1	1	1	0	3	2	19	81	2	0	104	0	0	1	0	0	1	219
06:45 PM	0	77	0	1	0	78	3	0	15	0	0	18	0	0	0	0	0	0	1	23	86	1	0	111	0	0	0	0	0	0	207
Total Volume	1	326	0	16	0	343	11	1	87	1	0	100	0	1	1	1	0	3	3	91	386	6	0	486	0	0	1	0	0	1	933
% App. Total	0.3	95	0	4.7	0		11	1	87	1	0		0	33.3	33.3	33.3	0		0.6	18.7	79.4	1.2	0		0	0	100	0	0		
PHF	.250	.970	.000	.444	.000	.942	.688	.250	.750	.250	.000	.758	.000	.250	.250	.250	.000	.250	.375	.813	.818	.500	.000	.815	.000	.000	.250	.000	.000	.250	.877



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total					
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn						
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:45 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6
Apprch %	0	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	33.3	0	0	0	0	0	16.7	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total					
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total						
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
06:45 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5
% App. Total	0	100	0	0	0		0	0	100	0	0		0	0	0	0	0		0	0	100	0	0		0	0	0	0	0		0	0	0	0	0	
PHF	.000	.250	.000	.000	.000	.250	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.625				

Peak Hour for Entire Intersection Begins at 06:00 PM

Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1



PRECISION DATA INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals from 06:00 PM to 07:45 PM and Grand Total.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include Peak Hour Analysis (06:00 PM to 07:45 PM) and PHF (Peak Hour Factor).



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Client: Stantec/ S. Wood

File Name : 164969 BBB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals (09:00 PM to 10:45 PM), Grand Total, and % breakdowns for Cars and Heavy Vehicles.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include PHF (Peak Hour Factor) and % breakdowns for Cars and Heavy Vehicles.



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Client: Stantec/ S. Wood

File Name : 164969 BBB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn	
09:00 PM	0	33	0	0	0	2	0	7	0	0	0	0	0	0	0	0	6	43	2	0	0	0	0	0	0	93
09:15 PM	0	31	1	1	0	0	0	6	1	0	0	0	0	0	0	0	16	35	0	0	0	0	0	0	0	91
09:30 PM	0	24	1	1	0	2	0	13	0	0	0	0	0	0	0	0	15	48	1	0	0	0	0	0	0	105
09:45 PM	0	30	1	1	0	1	0	10	0	0	0	0	0	0	0	0	12	47	0	1	0	0	0	0	0	103
Total	0	118	3	3	0	5	0	36	1	0	0	0	0	0	0	0	49	173	3	1	0	0	0	0	0	392
10:00 PM	0	23	0	0	0	0	0	8	0	0	0	0	0	0	0	0	20	47	0	0	0	0	0	0	0	98
10:15 PM	0	24	0	0	0	5	1	6	0	0	0	0	0	0	0	0	19	44	0	0	0	0	0	0	0	99
10:30 PM	0	39	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10	30	1	0	0	0	0	0	0	90
10:45 PM	1	18	0	1	0	2	0	4	0	0	0	0	0	0	0	0	10	53	1	0	0	0	0	0	0	90
Total	1	104	0	1	0	7	1	28	0	0	0	0	0	0	0	0	59	174	2	0	0	0	0	0	0	377
Grand Total	1	222	3	4	0	12	1	64	1	0	0	0	0	0	0	0	108	347	5	1	0	0	0	0	0	769
Apprch %	0.4	96.5	1.3	1.7	0	15.4	1.3	82.1	1.3	0	0	0	0	0	0	0	23.4	75.3	1.1	0.2	0	0	0	0	0	
Total %	0.1	28.9	0.4	0.5	0	1.6	0.1	8.3	0.1	0	0	0	0	0	0	0	14	45.1	0.7	0.1	0	0	0	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
09:30 PM	0	24	1	1	0	26	2	0	13	0	0	15	0	0	0	0	0	0	0	0	15	48	1	0	64	0	0	0	0	0	105
09:45 PM	0	30	1	1	0	32	1	0	10	0	0	11	0	0	0	0	0	0	0	0	12	47	0	1	60	0	0	0	0	0	103
10:00 PM	0	23	0	0	0	23	0	0	8	0	0	8	0	0	0	0	0	0	0	0	20	47	0	0	67	0	0	0	0	0	98
10:15 PM	0	24	0	0	0	24	5	1	6	0	0	12	0	0	0	0	0	0	0	0	19	44	0	0	63	0	0	0	0	0	99
Total Volume	0	101	2	2	0	105	8	1	37	0	0	46	0	0	0	0	0	0	0	0	66	186	1	1	254	0	0	0	0	0	405
% App. Total	0	96.2	1.9	1.9	0		17.4	2.2	80.4	0	0		0	0	0	0	0		0	26	73.2	0.4	0.4		0	0	0	0			
PHF	.000	.842	.500	.500	.000	.820	.400	.250	.712	.000	.000	.767	.000	.000	.000	.000	.000	.000	.000	.825	.969	.250	.250	.948	.000	.000	.000	.000	.000	.964	

Peak Hour for Entire Intersection Begins at 09:30 PM

Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total					
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn						
09:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
09:15 PM	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
Apprch %	0	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	50	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total						
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total							
09:00 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
09:15 PM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
% App. Total	0	100	0	0	0		0	0	100	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.500	.000	.000	.000	.500	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.375	

Peak Hour for Entire Intersection Begins at 09:00 PM

Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1



PRECISION DATA INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

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Start Date : 3/12/2016
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Groups Printed- Peds and Bicycles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include 09:00 PM, 09:15 PM, 09:30 PM, 09:45 PM, Total, 10:00 PM, 10:15 PM, 10:30 PM, 10:45 PM, Total, Grand Total, and Apprch % Total %.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1, Peak Hour for Entire Intersection Begins at 09:00 PM, Total Volume, % App. Total, and PHF.

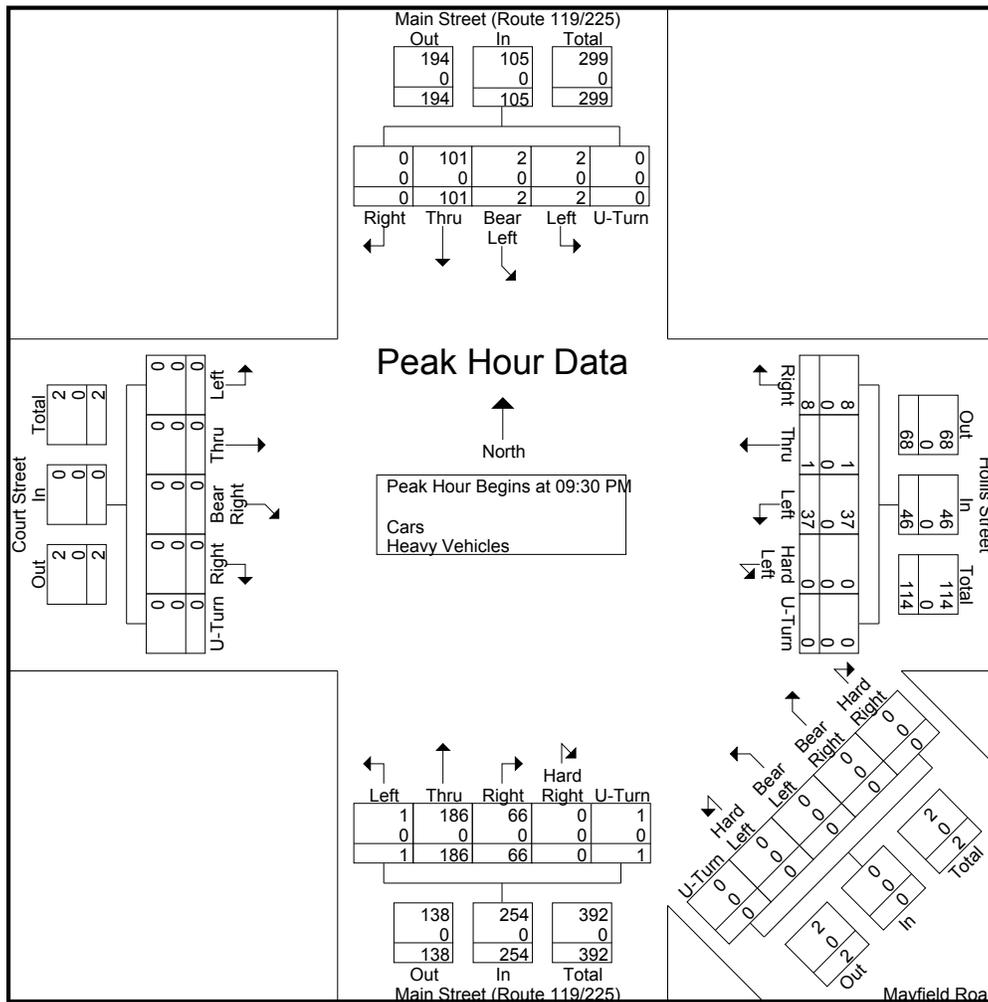


PRECISION
D A T A
INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBB
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1																															
Peak Hour for Entire Intersection Begins at 09:30 PM																															
09:30 PM	0	24	1	1	0	26	2	0	13	0	0	15	0	0	0	0	0	0	0	15	48	1	0	64	0	0	0	0	0	0	105
09:45 PM	0	30	1	1	0	32	1	0	10	0	0	11	0	0	0	0	0	0	0	12	47	0	1	60	0	0	0	0	0	0	103
10:00 PM	0	23	0	0	0	23	0	0	8	0	0	8	0	0	0	0	0	0	0	20	47	0	0	67	0	0	0	0	0	0	98
10:15 PM	0	24	0	0	0	24	5	1	6	0	0	12	0	0	0	0	0	0	0	19	44	0	0	63	0	0	0	0	0	0	99
Total Volume	0	101	2	2	0	105	8	1	37	0	0	46	0	0	0	0	0	0	0	66	186	1	1	254	0	0	0	0	0	0	405
% App. Total	0	96.2	1.9	1.9	0		17.4	2.2	80.4	0	0		0	0	0	0	0		0	26	73.2	0.4	0.4		0	0	0	0	0	0	
PHF	.000	.842	.500	.500	.000	.820	.400	.250	.712	.000	.000	.767	.000	.000	.000	.000	.000	.000	.000	.325	.969	.250	.250	.948	.000	.000	.000	.000	.000	.000	.964
Cars	0	101	2	2	0	105	8	1	37	0	0	46	0	0	0	0	0	0	0	66	186	1	1	254	0	0	0	0	0	0	405
% Cars	0	100	100	100	0	100	100	100	100	0	0	100	0	0	0	0	0	0	0	100	100	100	100	100	0	0	0	0	0	0	100
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





PRECISION
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N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBBB
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Main Street (Route 119/225) From North					Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South					Court Street From West					Int. Total
	Right	Thru	Bear Left	Left	U-Turn	Right	Thru	Left	Hard Left	U-Turn	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Hard Right	Right	Thru	Left	U-Turn	Right	Bear Right	Thru	Left	U-Turn	
04:45 PM	1	95	0	9	0	6	0	12	0	0	0	0	0	0	0	1	65	226	2	0	0	0	0	0	0	417
Total	1	95	0	9	0	6	0	12	0	0	0	0	0	0	0	1	65	226	2	0	0	0	0	0	0	417
05:00 PM	1	100	0	3	0	3	0	14	0	0	1	0	0	0	0	2	57	223	0	0	0	0	0	0	0	404
05:15 PM	0	109	0	6	0	4	0	18	0	0	0	0	0	0	0	1	63	268	1	0	0	0	0	0	0	470
05:30 PM	1	118	0	3	0	9	0	14	0	0	1	0	0	0	0	1	56	239	1	0	0	0	0	0	0	443
05:45 PM	2	98	0	0	0	4	0	18	0	0	0	0	0	0	0	0	62	203	1	0	0	0	0	0	0	388
Total	4	425	0	12	0	20	0	64	0	0	2	0	0	0	0	4	238	933	3	0	0	0	0	0	0	1705
06:00 PM	2	105	1	0	0	3	0	15	0	0	0	0	0	0	0	0	60	226	0	0	0	0	0	0	0	412
06:15 PM	1	87	1	1	0	1	0	14	0	0	0	0	0	0	0	1	40	180	0	0	0	0	0	0	0	326
06:30 PM	0	84	1	3	0	4	0	18	0	0	1	0	0	0	0	0	43	156	0	0	0	0	0	0	0	310
06:45 PM	2	85	1	2	0	1	0	21	0	0	0	0	0	0	0	1	29	174	0	0	0	0	0	0	0	316
Total	5	361	4	6	0	9	0	68	0	0	1	0	0	0	0	2	172	736	0	0	0	0	0	0	0	1364
07:00 PM	1	65	0	0	0	2	0	12	0	0	0	0	0	0	0	0	33	132	1	0	0	0	0	0	0	246
07:15 PM	0	74	0	1	0	2	0	17	0	0	1	1	0	0	0	1	35	101	0	0	0	0	0	0	0	233
07:30 PM	0	34	1	3	0	0	0	9	0	0	2	0	0	0	0	0	18	123	0	1	0	0	0	0	0	191
07:45 PM	0	19	0	3	0	0	1	14	0	0	0	0	0	0	0	0	27	88	0	0	0	0	0	0	0	152
Total	1	192	1	7	0	4	1	52	0	0	3	1	0	0	0	1	113	444	1	1	0	0	0	0	0	822
08:00 PM	0	41	0	1	0	0	0	12	0	0	0	0	0	0	0	0	16	66	0	0	0	0	0	0	0	136
08:15 PM	0	32	0	0	0	0	0	15	0	0	0	0	0	0	0	0	14	81	0	0	0	0	0	0	0	142
08:30 PM	1	41	0	2	0	0	0	14	0	0	0	0	0	0	0	1	23	105	0	0	0	0	0	0	0	187
08:45 PM	1	33	0	0	0	1	0	5	0	0	0	0	0	0	0	1	23	56	0	0	0	0	0	0	0	120
Total	2	147	0	3	0	1	0	46	0	0	0	0	0	0	0	2	76	308	0	0	0	0	0	0	0	585
09:00 PM	0	27	0	2	0	0	0	5	0	0	0	0	0	0	0	0	18	60	0	0	0	0	0	0	0	112
09:15 PM	0	23	0	0	0	0	0	5	0	0	0	0	0	0	0	0	19	48	1	0	0	0	0	0	0	96
09:30 PM	0	18	0	0	0	0	0	6	0	0	0	0	0	0	0	0	14	42	0	0	0	0	0	0	0	80
09:45 PM	1	19	0	1	0	1	0	0	0	0	0	0	0	0	0	0	14	48	0	0	0	0	0	0	0	84
Total	1	87	0	3	0	1	0	16	0	0	0	0	0	0	0	0	65	198	1	0	0	0	0	0	0	372
10:00 PM	0	12	0	2	0	2	0	5	1	0	0	0	0	0	0	0	10	32	0	0	0	0	0	0	0	64
10:15 PM	0	23	1	0	0	0	0	2	0	0	0	0	0	0	0	0	6	24	0	0	0	0	0	0	0	56
10:30 PM	0	12	0	1	0	2	0	5	0	0	0	0	0	0	0	0	3	29	0	0	0	0	0	0	0	52
Grand Total	14	1354	6	43	0	45	1	270	1	0	6	1	0	0	0	10	748	2930	7	1	0	0	0	0	0	5437
Apprch %	1	95.6	0.4	3	0	14.2	0.3	85.2	0.3	0	85.7	14.3	0	0	0	0.3	20.2	79.3	0.2	0	0	0	0	0	0	
Total %	0.3	24.9	0.1	0.8	0	0.8	0	5	0	0	0.1	0	0	0	0	0.2	13.8	53.9	0.1	0	0	0	0	0	0	
Cars	14	1335	6	43	0	45	1	268	1	0	6	1	0	0	0	10	746	2908	7	1	0	0	0	0	0	5392
% Cars	100	98.6	100	100	0	100	100	99.3	100	0	100	100	0	0	0	100	99.7	99.2	100	100	0	0	0	0	0	99.2
Heavy Vehicles	0	19	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	22	0	0	0	0	0	0	0	45
% Heavy Vehicles	0	1.4	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0.3	0.8	0	0	0	0	0	0	0	0.8

Start Time	Main Street (Route 119/225) From North						Hollis Street From East					Mayfield Road From Southeast					Main Street (Route 119/225) From South						Court Street From West					Int. Total			
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru		Left	U-Turn	App. Total
04:45 PM	1	95	0	9	0	105	6	0	12	0	0	18	0	0	0	0	0	0	1	65	226	2	0	294	0	0	0	0	0	0	417
05:00 PM	1	100	0	3	0	104	3	0	14	0	0	17	1	0	0	0	0	1	2	57	223	0	0	282	0	0	0	0	0	0	404
05:15 PM	0	109	0	6	0	115	4	0	18	0	0	22	0	0	0	0	0	0	1	63	268	1	0	333	0	0	0	0	0	0	470
05:30 PM	1	118	0	3	0	122	9	0	14	0	0	23	1	0	0	0	0	1	1	56	239	1	0	297	0	0	0	0	0	0	443
Total Volume	3	422	0	21	0	446	22	0	58	0	0	80	2	0	0	0	0	2	5	241	956	4	0	1206	0	0	0	0	0	0	1734
% App. Total	0.7	94.6	0	4.7	0	27.5	0	72.5	0	0	100	0	0	0	0	0.4	20	79.3	0.3	0											
PHF	.750	.894	.000	.583	.000	.914	.611	.000	.806	.000	.000	.870	.500	.000	.000	.000	.000	.500	.625	.927	.892	.500	.000	.905	.000	.000	.000	.000	.000	.000	.922
Cars	3	417	0	21	0	441	22	0	56	0	0	78	2	0	0	0	0	2	5	240	949	4	0	1198	0	0	0	0	0	0	1719
% Cars	100	98.8	0	100	0	98.9	100	0	96.6	0	0	97.5	100	0	0	0	0	100	100	99.6	99.3	100	0	99.3	0	0	0	0	0	0	99.1
Heavy Vehicles	0	5	0	0	0	5	0	0	2	0	0	2	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	15
% Heavy Vehicles	0	1.2	0	0	0	1.1	0	0	3.4	0	0	2.5	0	0	0	0	0	0	0	0.4	0.7	0	0	0.7	0	0	0	0	0	0	0.9

Peak Hour for Entire Intersection Begins at 04:45 PM



PRECISION DATA INDUSTRIES, LLC

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N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBBB
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Cars

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals from 04:45 PM to 10:30 PM and Grand Total.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include Peak Hour Analysis from 04:45 PM to 10:30 PM and PHF (Peak Hour Factor) values.



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N/S: Main Street (Route 119/225)
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City, State: Groton, MA
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File Name : 164969 BBBB
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Heavy Vehicles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals from 04:45 PM to 10:30 PM, Grand Total, and Apprch %.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals from 05:15 PM to 06:00 PM, Total Volume, % App. Total, and PHF.



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N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBBB
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Peds and Bicycles

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include time intervals from 04:45 PM to 10:45 PM and Grand Total.

Table with columns for Start Time, Main Street (Route 119/225) From North, Hollis Street From East, Mayfield Road From Southeast, Main Street (Route 119/225) From South, Court Street From West, and Int. Total. Rows include Peak Hour Analysis (04:45 PM to 10:30 PM) and PHF (Peak Hour Factor) values.



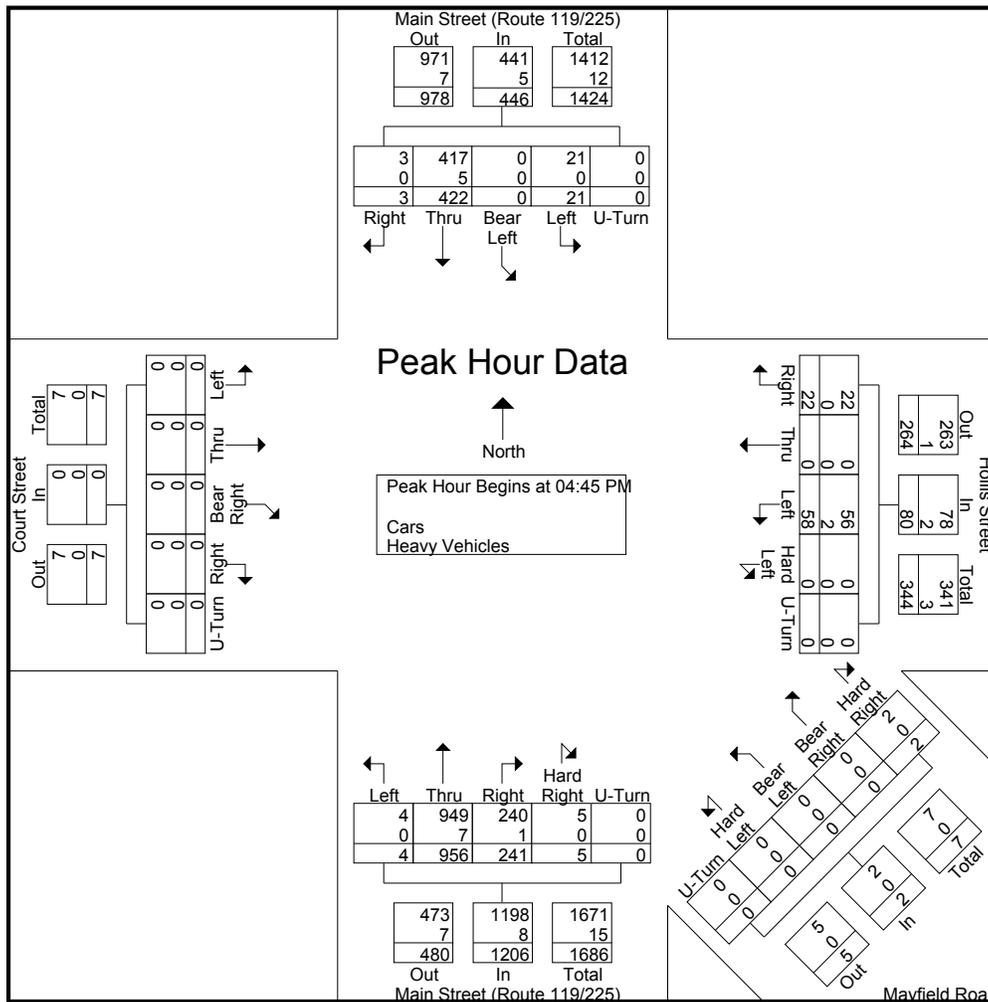
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N/S: Main Street (Route 119/225)
E/W/SE: Hollis St/ Court St/ Mayfield Rd
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 BBBB
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Start Time	Main Street (Route 119/225) From North						Hollis Street From East						Mayfield Road From Southeast						Main Street (Route 119/225) From South						Court Street From West						Int. Total
	Right	Thru	Bear Left	Left	U-Turn	App. Total	Right	Thru	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	App. Total	Hard Right	Right	Thru	Left	U-Turn	App. Total	Right	Bear Right	Thru	Left	U-Turn	App. Total	
04:45 PM	1	95	0	9	0	105	6	0	12	0	0	18	0	0	0	0	0	0	1	65	226	2	0	294	0	0	0	0	0	0	417
05:00 PM	1	100	0	3	0	104	3	0	14	0	0	17	1	0	0	0	0	1	2	57	223	0	0	282	0	0	0	0	0	0	404
05:15 PM	0	109	0	6	0	115	4	0	18	0	0	22	0	0	0	0	0	0	1	63	268	1	0	333	0	0	0	0	0	0	470
05:30 PM	1	118	0	3	0	122	9	0	14	0	0	23	1	0	0	0	0	1	1	56	239	1	0	297	0	0	0	0	0	0	443
Total Volume	3	422	0	21	0	446	22	0	58	0	0	80	2	0	0	0	0	2	5	241	956	4	0	1206	0	0	0	0	0	0	1734
% App. Total	0.7	94.6	0	4.7	0		27.5	0	72.5	0	0		100	0	0	0	0		0.4	20	79.3	0.3	0		0	0	0	0	0		
PHF	.750	.894	.000	.583	.000	.914	.611	.000	.806	.000	.000	.870	.500	.000	.000	.000	.000	.500	.625	.927	.892	.500	.000	.905	.000	.000	.000	.000	.000	.000	.922
Cars	3	417	0	21	0	441	22	0	56	0	0	78	2	0	0	0	0	2	5	240	949	4	0	1198	0	0	0	0	0	0	1719
% Cars	100	98.8	0	100	0	98.9	100	0	96.6	0	0	97.5	100	0	0	0	0	100	100	99.6	99.3	100	0	99.3	0	0	0	0	0	0	99.1
Heavy Vehicles	0	5	0	0	0	5	0	0	2	0	0	2	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	15
% Heavy Vehicles	0	1.2	0	0	0	1.1	0	0	3.4	0	0	2.5	0	0	0	0	0	0	0	0.4	0.7	0	0	0.7	0	0	0	0	0	0	0.9

Peak Hour for Entire Intersection Begins at 04:45 PM





PRECISION
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File Name : 164969 C
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

Groups Printed- Peds and Bicycles

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	Peds EB	Peds WB	Right	Thru	Left	Peds SB	Peds NB	Right	Thru	Left	Peds WB	Peds EB	Right	Thru	Left	Peds NB	Peds SB	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	6
12:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Grand Total	0	0	0	0	0	3	0	0	4	3	0	0	0	0	0	0	0	0	1	0	11
Apprch %	0	0	0	0	0	30	0	0	40	30	0	0	0	0	0	0	0	0	100	0	
Total %	0	0	0	0	0	27.3	0	0	36.4	27.3	0	0	0	0	0	0	0	0	9.1	0	

Start Time	Farmers Road (Route 111) From North						Higley Street From East						Farmers Road (Route 111) From South						Driveway From West						Int. Total	
	Right	Thru	Left	Peds EB	Peds WB	App. Total	Right	Thru	Left	Peds SB	Peds NB	App. Total	Right	Thru	Left	Peds WB	Peds EB	App. Total	Right	Thru	Left	Peds NB	Peds SB	App. Total		
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1																										
Peak Hour for Entire Intersection Begins at 10:30 AM																										
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
11:00 AM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	3	
11:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total Volume	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	1	0	1	6	
% App. Total	0	0	0	0	0	0	0	0	0	40	60	0	0	0	0	0	0	0	0	0	100	0	0			
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.417	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.500	



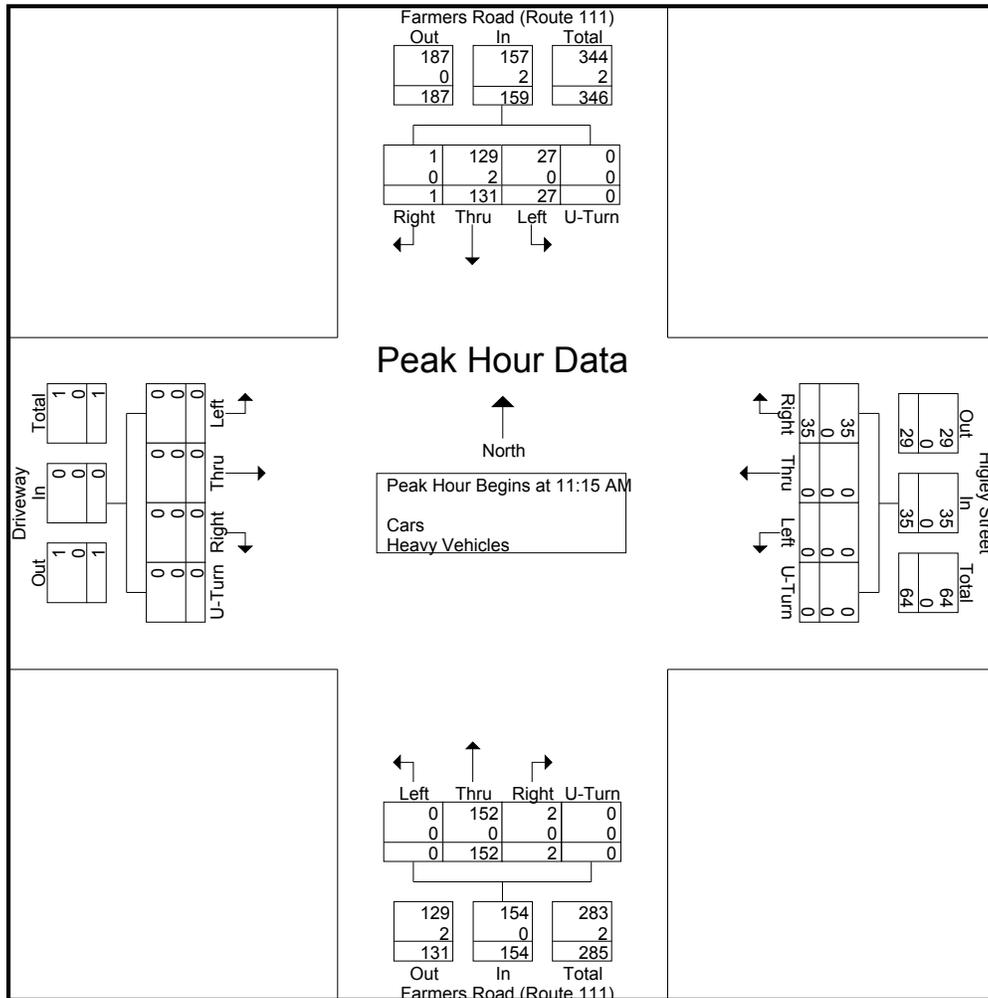
PRECISION
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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 C
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:15 AM																					
11:15 AM	0	33	6	0	39	8	0	0	0	8	1	32	0	0	33	0	0	0	0	0	80
11:30 AM	0	33	8	0	41	11	0	0	0	11	1	40	0	0	41	0	0	0	0	0	93
11:45 AM	1	23	6	0	30	11	0	0	0	11	0	41	0	0	41	0	0	0	0	0	82
12:00 PM	0	42	7	0	49	5	0	0	0	5	0	39	0	0	39	0	0	0	0	0	93
Total Volume	1	131	27	0	159	35	0	0	0	35	2	152	0	0	154	0	0	0	0	0	348
% App. Total	0.6	82.4	17	0		100	0	0	0		1.3	98.7	0	0		0	0	0	0		
PHF	.250	.780	.844	.000	.811	.795	.000	.000	.000	.795	.500	.927	.000	.000	.939	.000	.000	.000	.000	.000	.935
Cars	1	129	27	0	157	35	0	0	0	35	2	152	0	0	154	0	0	0	0	0	346
% Cars	100	98.5	100	0	98.7	100	0	0	0	100	100	100	0	0	100	0	0	0	0	0	99.4
Heavy Vehicles	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
% Heavy Vehicles	0	1.5	0	0	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6





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File Name : 164969 CC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

Groups Printed- Heavy Vehicles

Start Time	Farmers Road (Route 111) From North				Higley Street From East				Farmers Road (Route 111) From South				Driveway From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Apprch %	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:00 PM																					
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% App. Total	0	100	0	0		0	0	0	0		0	0	0	0		0	0	0	0		
PHF	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250



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Office: 508.481.3999 Fax: 508.545.1234
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N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	Peds EB	Peds WB	Right	Thru	Left	Peds SB	Peds NB	Right	Thru	Left	Peds WB	Peds EB	Right	Thru	Left	Peds NB	Peds SB	
06:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Apprch %	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	0	
Total %	0	0	0	0	0	0	0	0	0	50	0	50	0	0	0	0	0	0	0	0	

Start Time	Farmers Road (Route 111) From North						Higley Street From East						Farmers Road (Route 111) From South						Driveway From West						Int. Total			
	Right	Thru	Left	Peds EB	Peds WB	App. Total	Right	Thru	Left	Peds SB	Peds NB	App. Total	Right	Thru	Left	Peds WB	Peds EB	App. Total	Right	Thru	Left	Peds NB	Peds SB	App. Total				
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1																												
Peak Hour for Entire Intersection Begins at 06:00 PM																												
06:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
% App. Total	0	0	0	0	0	0	0	0	0	0	100		0	100	0	0	0		0	0	0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250



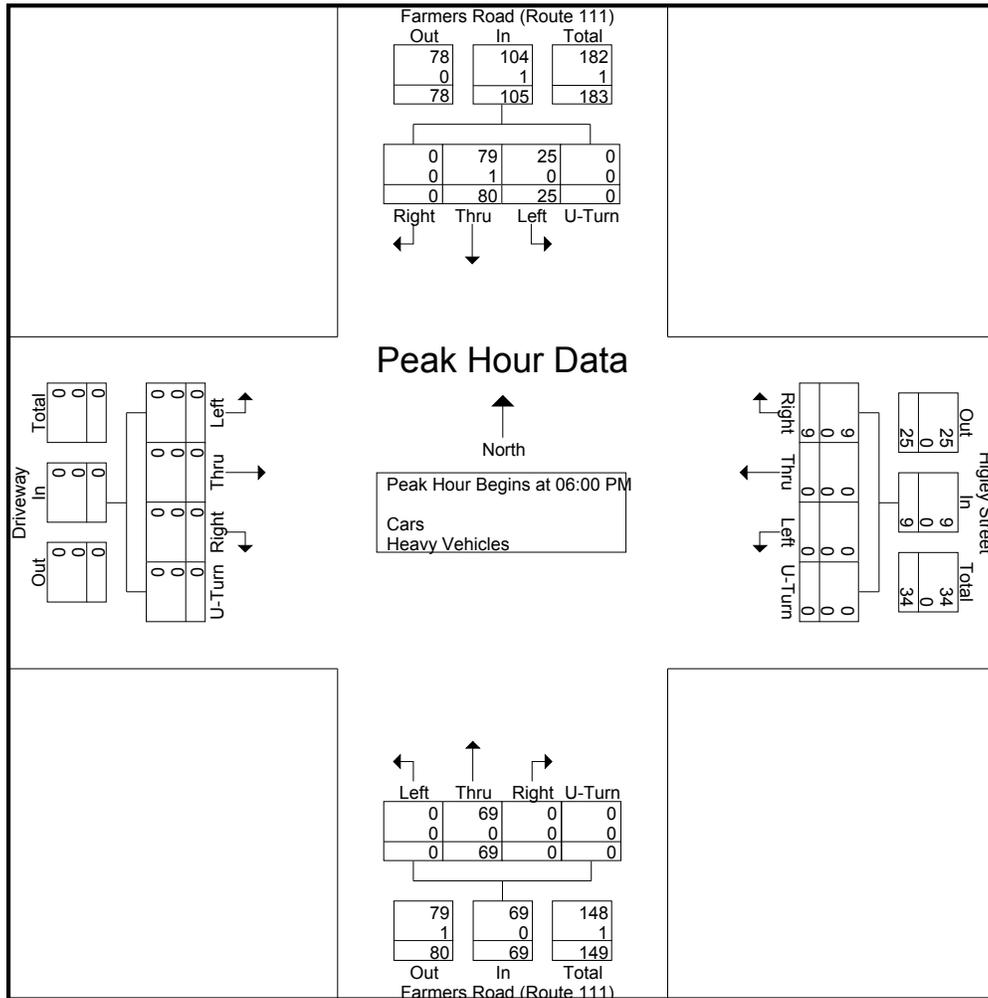
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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:00 PM																					
06:00 PM	0	28	7	0	35	2	0	0	0	2	0	26	0	0	26	0	0	0	0	0	63
06:15 PM	0	16	8	0	24	3	0	0	0	3	0	17	0	0	17	0	0	0	0	0	44
06:30 PM	0	16	5	0	21	2	0	0	0	2	0	10	0	0	10	0	0	0	0	0	33
06:45 PM	0	20	5	0	25	2	0	0	0	2	0	16	0	0	16	0	0	0	0	0	43
Total Volume	0	80	25	0	105	9	0	0	0	9	0	69	0	0	69	0	0	0	0	0	183
% App. Total	0	76.2	23.8	0		100	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.714	.781	.000	.750	.750	.000	.000	.000	.750	.000	.663	.000	.000	.663	.000	.000	.000	.000	.000	.726
Cars	0	79	25	0	104	9	0	0	0	9	0	69	0	0	69	0	0	0	0	0	182
% Cars	0	98.8	100	0	99.0	100	0	0	0	100	0	100	0	0	100	0	0	0	0	0	99.5
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% Heavy Vehicles	0	1.3	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5





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N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CCC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Farmers Road (Route 111) From North				Higley Street From East				Farmers Road (Route 111) From South				Driveway From West				Int. Total	
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn		
09:00 PM	0	12	2	0	5	0	0	0	0	9	0	0	0	0	0	0	0	28
09:15 PM	0	4	3	0	3	1	0	0	0	12	0	0	0	0	0	0	0	23
09:30 PM	0	19	4	0	2	0	0	0	0	11	0	0	0	0	0	0	0	36
09:45 PM	0	11	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	18
Total	0	46	9	0	12	1	0	0	0	37	0	0	0	0	0	0	0	105
10:00 PM	0	12	0	0	4	0	0	0	0	16	0	0	0	0	0	0	0	32
10:15 PM	0	11	3	0	4	0	0	0	0	6	0	0	0	0	0	0	0	24
10:30 PM	0	8	1	0	0	0	0	0	0	6	0	0	0	0	0	0	0	15
10:45 PM	0	7	1	0	1	0	0	0	0	8	0	0	0	0	0	0	0	17
Total	0	38	5	0	9	0	0	0	0	36	0	0	0	0	0	0	0	88
Grand Total	0	84	14	0	21	1	0	0	0	73	0	0	0	0	0	0	0	193
Apprch %	0	85.7	14.3	0	95.5	4.5	0	0	0	100	0	0	0	0	0	0	0	
Total %	0	43.5	7.3	0	10.9	0.5	0	0	0	37.8	0	0	0	0	0	0	0	
Cars	0	83	14	0	21	1	0	0	0	72	0	0	0	0	0	0	0	191
% Cars	0	98.8	100	0	100	100	0	0	0	98.6	0	0	0	0	0	0	0	99
Heavy Vehicles	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
% Heavy Vehicles	0	1.2	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	1

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 09:30 PM																					
09:30 PM	0	19	4	0	23	2	0	0	0	2	0	11	0	0	11	0	0	0	0	0	36
09:45 PM	0	11	0	0	11	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	18
10:00 PM	0	12	0	0	12	4	0	0	0	4	0	16	0	0	16	0	0	0	0	0	32
10:15 PM	0	11	3	0	14	4	0	0	0	4	0	6	0	0	6	0	0	0	0	0	24
Total Volume	0	53	7	0	60	12	0	0	0	12	0	38	0	0	38	0	0	0	0	0	110
% App. Total	0	88.3	11.7	0		100	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.697	.438	.000	.652	.750	.000	.000	.000	.750	.000	.594	.000	.000	.594	.000	.000	.000	.000	.000	.764
Cars	0	52	7	0	59	12	0	0	0	12	0	37	0	0	37	0	0	0	0	0	108
% Cars	0	98.1	100	0	98.3	100	0	0	0	100	0	97.4	0	0	97.4	0	0	0	0	0	98.2
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
% Heavy Vehicles	0	1.9	0	0	1.7	0	0	0	0	0	0	2.6	0	0	2.6	0	0	0	0	0	1.8



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Office: 508.481.3999 Fax: 508.545.1234
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File Name : 164969 CCC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

Groups Printed- Heavy Vehicles

Start Time	Farmers Road (Route 111) From North				Higley Street From East				Farmers Road (Route 111) From South				Driveway From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Grand Total	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
Apprch %	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	
Total %	0	50	0	0	0	0	0	0	0	50	0	0	0	0	0	0	

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 09:15 PM																					
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total Volume	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
% App. Total	0	100	0	0		0	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.500



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File Name : 164969 CCC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	Peds EB	Peds WB	Right	Thru	Left	Peds SB	Peds NB	Right	Thru	Left	Peds WB	Peds EB	Right	Thru	Left	Peds NB	Peds SB	
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total %																					

Start Time	Farmers Road (Route 111) From North						Higley Street From East						Farmers Road (Route 111) From South						Driveway From West						Int. Total			
	Right	Thru	Left	Peds EB	Peds WB	App. Total	Right	Thru	Left	Peds SB	Peds NB	App. Total	Right	Thru	Left	Peds WB	Peds EB	App. Total	Right	Thru	Left	Peds NB	Peds SB	App. Total				
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1																												
Peak Hour for Entire Intersection Begins at 09:00 PM																												
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000



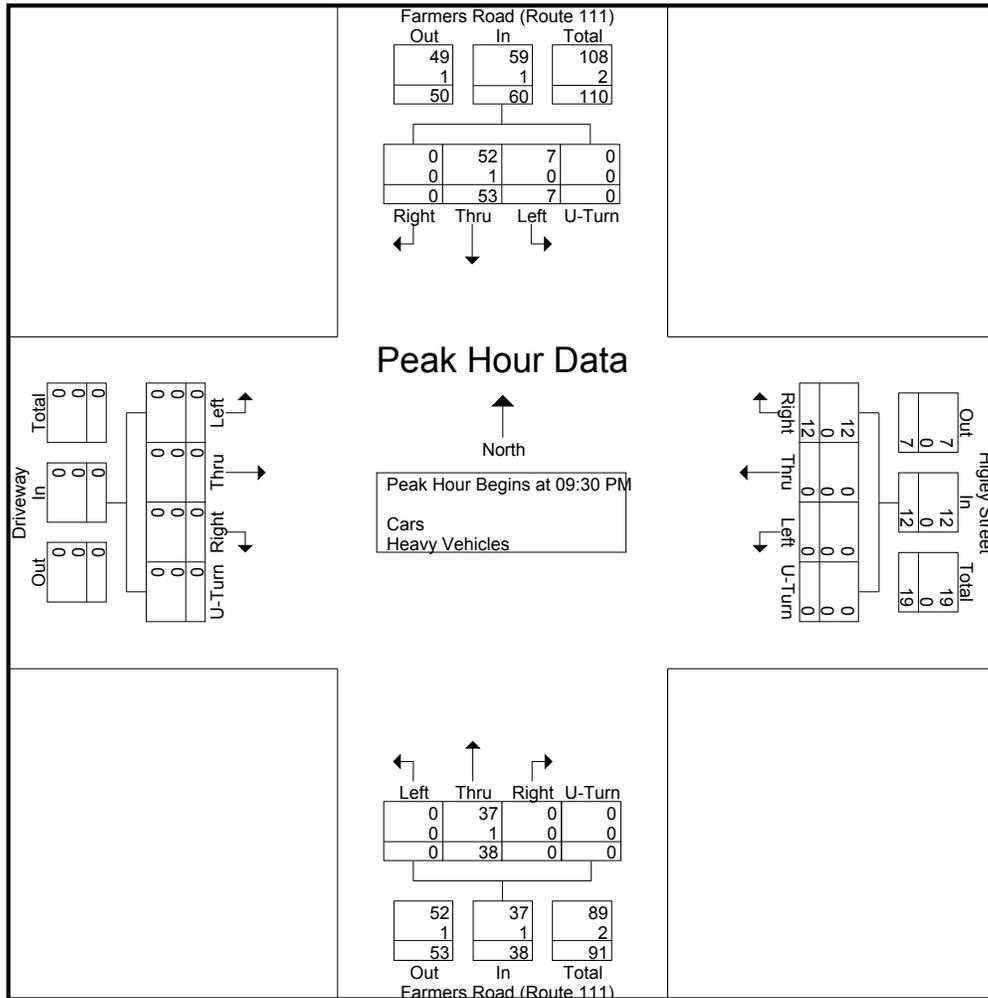
PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CCC
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 09:30 PM																					
09:30 PM	0	19	4	0	23	2	0	0	0	2	0	11	0	0	11	0	0	0	0	0	36
09:45 PM	0	11	0	0	11	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	18
10:00 PM	0	12	0	0	12	4	0	0	0	4	0	16	0	0	16	0	0	0	0	0	32
10:15 PM	0	11	3	0	14	4	0	0	0	4	0	6	0	0	6	0	0	0	0	0	24
Total Volume	0	53	7	0	60	12	0	0	0	12	0	38	0	0	38	0	0	0	0	0	110
% App. Total	0	88.3	11.7	0		100	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.697	.438	.000	.652	.750	.000	.000	.000	.750	.000	.594	.000	.000	.594	.000	.000	.000	.000	.000	.764
Cars	0	52	7	0	59	12	0	0	0	12	0	37	0	0	37	0	0	0	0	0	108
% Cars	0	98.1	100	0	98.3	100	0	0	0	100	0	97.4	0	0	97.4	0	0	0	0	0	98.2
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
% Heavy Vehicles	0	1.9	0	0	1.7	0	0	0	0	0	0	2.6	0	0	2.6	0	0	0	0	0	1.8





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N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CCCC
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Farmers Road (Route 111) From North				Higley Street From East				Farmers Road (Route 111) From South				Driveway From West				Int. Total	
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn		
04:45 PM	0	37	12	0	33	0	0	0	0	63	0	0	0	0	0	0	0	145
Total	0	37	12	0	33	0	0	0	0	63	0	0	0	0	0	0	0	145
05:00 PM	0	42	3	0	30	0	0	0	1	66	0	0	0	0	0	0	0	142
05:15 PM	0	36	8	0	28	0	0	0	1	93	0	0	0	0	0	0	0	166
05:30 PM	0	48	13	0	34	0	0	0	0	97	0	0	0	0	0	0	0	192
05:45 PM	0	37	10	0	23	0	0	0	1	51	0	0	0	0	0	0	0	122
Total	0	163	34	0	115	0	0	0	3	307	0	0	0	0	0	0	0	622
06:00 PM	0	29	8	0	25	0	0	0	0	41	0	0	0	0	0	0	0	103
06:15 PM	0	31	3	0	14	0	0	0	1	50	0	0	0	0	0	0	0	99
06:30 PM	0	22	4	0	13	0	0	0	1	26	0	0	0	0	0	0	0	66
06:45 PM	0	17	7	0	14	0	0	0	0	38	0	0	0	0	0	0	0	76
Total	0	99	22	0	66	0	0	0	2	155	0	0	0	0	0	0	0	344
07:00 PM	0	16	2	0	8	0	0	0	0	40	0	0	0	0	0	0	0	66
07:15 PM	0	13	6	0	8	0	0	0	0	34	0	0	0	0	0	0	0	61
07:30 PM	0	15	3	0	6	0	0	0	0	22	0	0	0	0	0	0	0	46
07:45 PM	0	5	0	0	12	0	0	0	0	14	0	0	0	0	0	0	0	31
Total	0	49	11	0	34	0	0	0	0	110	0	0	0	0	0	0	0	204
08:00 PM	0	8	2	0	1	0	0	0	0	9	0	0	0	0	0	0	0	20
08:15 PM	0	16	0	0	3	0	0	0	0	24	0	0	0	0	0	0	0	43
08:30 PM	0	13	2	0	1	0	0	0	0	11	0	0	0	0	0	0	0	27
08:45 PM	0	11	6	0	1	0	0	0	0	14	0	1	0	0	0	0	0	33
Total	0	48	10	0	6	0	0	0	0	58	0	1	0	0	0	0	0	123
09:00 PM	0	11	0	0	1	0	0	0	0	22	0	0	0	0	0	0	0	34
09:15 PM	0	5	3	0	1	0	0	0	0	11	0	0	0	0	0	0	0	20
09:30 PM	0	7	2	0	3	0	0	0	0	11	0	0	0	0	0	0	0	23
09:45 PM	0	5	0	0	1	0	0	0	0	9	0	0	0	0	0	0	0	15
Total	0	28	5	0	6	0	0	0	0	53	0	0	0	0	0	0	0	92
10:00 PM	0	6	1	0	2	0	0	0	0	9	0	0	0	0	0	0	0	18
10:15 PM	0	6	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	12
10:30 PM	0	3	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	9
Grand Total	0	439	95	0	264	0	0	0	5	765	0	1	0	0	0	0	0	1569
Apprch %	0	82.2	17.8	0	100	0	0	0	0.6	99.2	0	0.1	0	0	0	0	0	
Total %	0	28	6.1	0	16.8	0	0	0	0.3	48.8	0	0.1	0	0	0	0	0	
Cars	0	436	95	0	264	0	0	0	5	759	0	1	0	0	0	0	0	1560
% Cars	0	99.3	100	0	100	0	0	0	100	99.2	0	100	0	0	0	0	0	99.4
Heavy Vehicles	0	3	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	9
% Heavy Vehicles	0	0.7	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0.6

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	37	12	0	49	33	0	0	0	33	0	63	0	0	63	0	0	0	0	0	145
05:00 PM	0	42	3	0	45	30	0	0	0	30	1	66	0	0	67	0	0	0	0	0	142
05:15 PM	0	36	8	0	44	28	0	0	0	28	1	93	0	0	94	0	0	0	0	0	166
05:30 PM	0	48	13	0	61	34	0	0	0	34	0	97	0	0	97	0	0	0	0	0	192
Total Volume	0	163	36	0	199	125	0	0	0	125	2	319	0	0	321	0	0	0	0	0	645
% App. Total	0	81.9	18.1	0		100	0	0	0		0.6	99.4	0	0		0	0	0	0		
PHF	.000	.849	.692	.000	.816	.919	.000	.000	.000	.919	.500	.822	.000	.000	.827	.000	.000	.000	.000	.000	.840
Cars	0	162	36	0	198	125	0	0	0	125	2	316	0	0	318	0	0	0	0	0	641
% Cars	0	99.4	100	0	99.5	100	0	0	0	100	100	99.1	0	0	99.1	0	0	0	0	0	99.4
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
% Heavy Vehicles	0	0.6	0	0	0.5	0	0	0	0	0	0	0.9	0	0	0.9	0	0	0	0	0	0.6



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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CCCC
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Farmers Road (Route 111) From North				Higley Street From East				Farmers Road (Route 111) From South				Driveway From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
05:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
06:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
Total	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
07:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
08:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	3	0	0	0	0	0	0	0	6	0	0	0	0	0	0	9
Apprch %	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	
Total %	0	33.3	0	0	0	0	0	0	0	66.7	0	0	0	0	0	0	

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	Right	Thru	Left	U-Turn	App.Total	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
05:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
% App. Total	0	100	0	0		0	0	0	0		0	100	0	0		0	0	0	0		
PHF	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.750	.000	.000	.750	.000	.000	.000	.000	.000	1.00

Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:45 PM

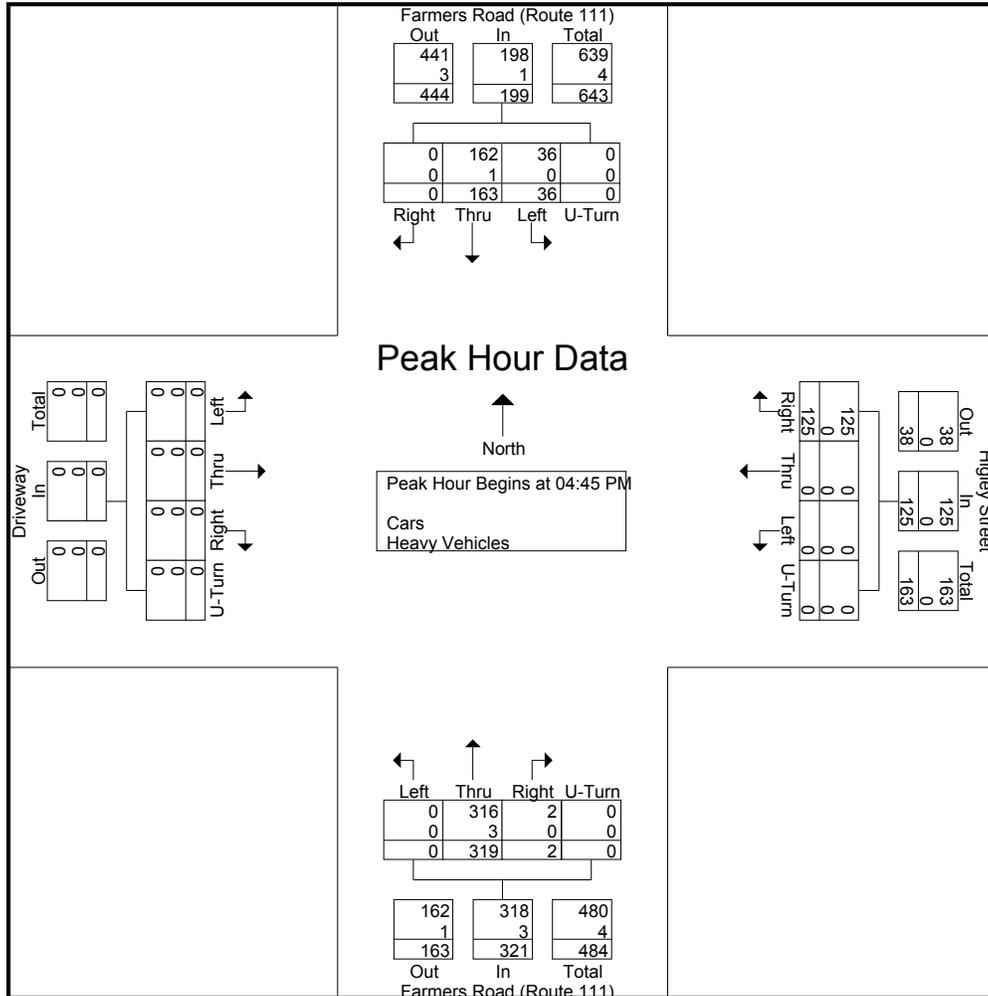


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INDUSTRIES, LLC
P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
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N/S: Farmers Road (Route 111)
E/W: Higley Street/ Driveway
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 CCCC
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

Start Time	Farmers Road (Route 111) From North					Higley Street From East					Farmers Road (Route 111) From South					Driveway From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	37	12	0	49	33	0	0	0	33	0	63	0	0	63	0	0	0	0	0	145
05:00 PM	0	42	3	0	45	30	0	0	0	30	1	66	0	0	67	0	0	0	0	0	142
05:15 PM	0	36	8	0	44	28	0	0	0	28	1	93	0	0	94	0	0	0	0	0	166
05:30 PM	0	48	13	0	61	34	0	0	0	34	0	97	0	0	97	0	0	0	0	0	192
Total Volume	0	163	36	0	199	125	0	0	0	125	2	319	0	0	321	0	0	0	0	0	645
% App. Total	0	81.9	18.1	0		100	0	0	0		0.6	99.4	0	0		0	0	0	0		
PHF	.000	.849	.692	.000	.816	.919	.000	.000	.000	.919	.500	.822	.000	.000	.827	.000	.000	.000	.000	.000	.840
Cars	0	162	36	0	198	125	0	0	0	125	2	316	0	0	318	0	0	0	0	0	641
% Cars	0	99.4	100	0	99.5	100	0	0	0	100	100	99.1	0	0	99.1	0	0	0	0	0	99.4
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
% Heavy Vehicles	0	0.6	0	0	0.5	0	0	0	0	0	0	0.9	0	0	0.9	0	0	0	0	0	0.6





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Office: 508.481.3999 Fax: 508.545.1234
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N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 D
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Higley Street From North			Peabody Street From East			Peabody Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
10:30 AM	1	7	0	6	10	0	6	0	0	30
10:45 AM	0	4	0	5	10	0	4	0	0	23
Total	1	11	0	11	20	0	10	0	0	53
11:00 AM	0	11	0	1	6	0	7	1	0	26
11:15 AM	1	6	0	9	4	0	4	1	0	25
11:30 AM	0	8	0	12	6	0	9	1	0	36
11:45 AM	0	6	0	7	4	0	9	0	0	26
Total	1	31	0	29	20	0	29	3	0	113
12:00 PM	0	7	0	5	6	0	5	0	0	23
12:15 PM	0	4	0	7	4	0	6	0	0	21
Grand Total	2	53	0	52	50	0	50	3	0	210
Apprch %	3.6	96.4	0	51	49	0	94.3	5.7	0	
Total %	1	25.2	0	24.8	23.8	0	23.8	1.4	0	

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:00 AM													
11:00 AM	0	11	0	11	1	6	0	7	7	1	0	8	26
11:15 AM	1	6	0	7	9	4	0	13	4	1	0	5	25
11:30 AM	0	8	0	8	12	6	0	18	9	1	0	10	36
11:45 AM	0	6	0	6	7	4	0	11	9	0	0	9	26
Total Volume	1	31	0	32	29	20	0	49	29	3	0	32	113
% App. Total	3.1	96.9	0		59.2	40.8	0		90.6	9.4	0		
PHF	.250	.705	.000	.727	.604	.833	.000	.681	.806	.750	.000	.800	.785



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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 D
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	Peds EB	Peds WB	Right	Thru	Peds SB	Peds NB	Thru	Left	Peds NB	Peds SB	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	3	0	0	0	3	0	0	0	0	6
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	0	0	0	3	0	0	0	3	1	0	0	0	7
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	3	0	0	0	0	0	0	0	3
Grand Total	0	0	0	3	3	0	0	3	1	0	0	0	10
Apprch %	0	0	0	100	50	0	0	50	100	0	0	0	
Total %	0	0	0	30	30	0	0	30	10	0	0	0	

Start Time	Higley Street From North					Peabody Street From East					Peabody Street From West					Int. Total
	Right	Left	Peds EB	Peds WB	App. Total	Right	Thru	Peds SB	Peds NB	App. Total	Thru	Left	Peds NB	Peds SB	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 11:00 AM																
11:00 AM	0	0	0	3	3	0	0	0	3	3	0	0	0	0	0	6
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Total Volume	0	0	0	3	3	0	0	0	3	3	1	0	0	0	1	7
% App. Total	0	0	0	100		0	0	0	100		100	0	0	0		
PHF	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.250	.000	.000	.000	.250	.292



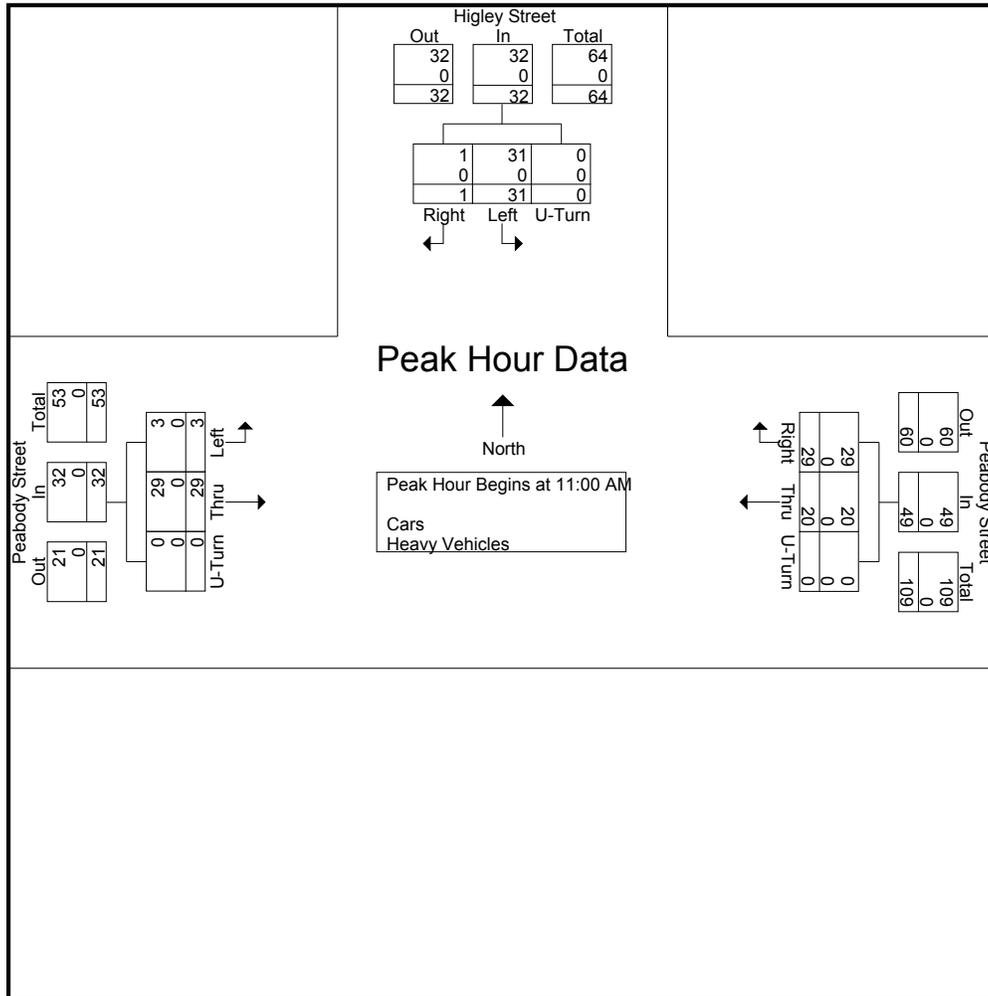
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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

File Name : 164969 D
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:00 AM													
11:00 AM	0	11	0	11	1	6	0	7	7	1	0	8	26
11:15 AM	1	6	0	7	9	4	0	13	4	1	0	5	25
11:30 AM	0	8	0	8	12	6	0	18	9	1	0	10	36
11:45 AM	0	6	0	6	7	4	0	11	9	0	0	9	26
Total Volume	1	31	0	32	29	20	0	49	29	3	0	32	113
% App. Total	3.1	96.9	0		59.2	40.8	0		90.6	9.4	0		
PHF	.250	.705	.000	.727	.604	.833	.000	.681	.806	.750	.000	.800	.785
Cars	1	31	0	32	29	20	0	49	29	3	0	32	113
% Cars	100	100	0	100	100	100	0	100	100	100	0	100	100
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0





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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 DD
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Higley Street From North			Peabody Street From East			Peabody Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
06:00 PM	0	7	0	3	4	0	5	0	0	19
06:15 PM	0	8	0	2	3	0	4	0	0	17
06:30 PM	0	3	0	3	4	0	5	0	0	15
06:45 PM	0	5	0	3	4	0	2	0	0	14
Total	0	23	0	11	15	0	16	0	0	65
07:00 PM	0	1	0	4	2	0	1	0	0	8
07:15 PM	0	5	0	2	2	0	4	0	0	13
07:30 PM	0	2	0	5	1	0	3	0	0	11
07:45 PM	0	3	0	2	0	0	2	0	0	7
Total	0	11	0	13	5	0	10	0	0	39
Grand Total	0	34	0	24	20	0	26	0	0	104
Apprch %	0	100	0	54.5	45.5	0	100	0	0	
Total %	0	32.7	0	23.1	19.2	0	25	0	0	

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	0	7	0	7	3	4	0	7	5	0	0	5	19
06:15 PM	0	8	0	8	2	3	0	5	4	0	0	4	17
06:30 PM	0	3	0	3	3	4	0	7	5	0	0	5	15
06:45 PM	0	5	0	5	3	4	0	7	2	0	0	2	14
Total Volume	0	23	0	23	11	15	0	26	16	0	0	16	65
% App. Total	0	100	0		42.3	57.7	0		100	0	0		
PHF	.000	.719	.000	.719	.917	.938	.000	.929	.800	.000	.000	.800	.855



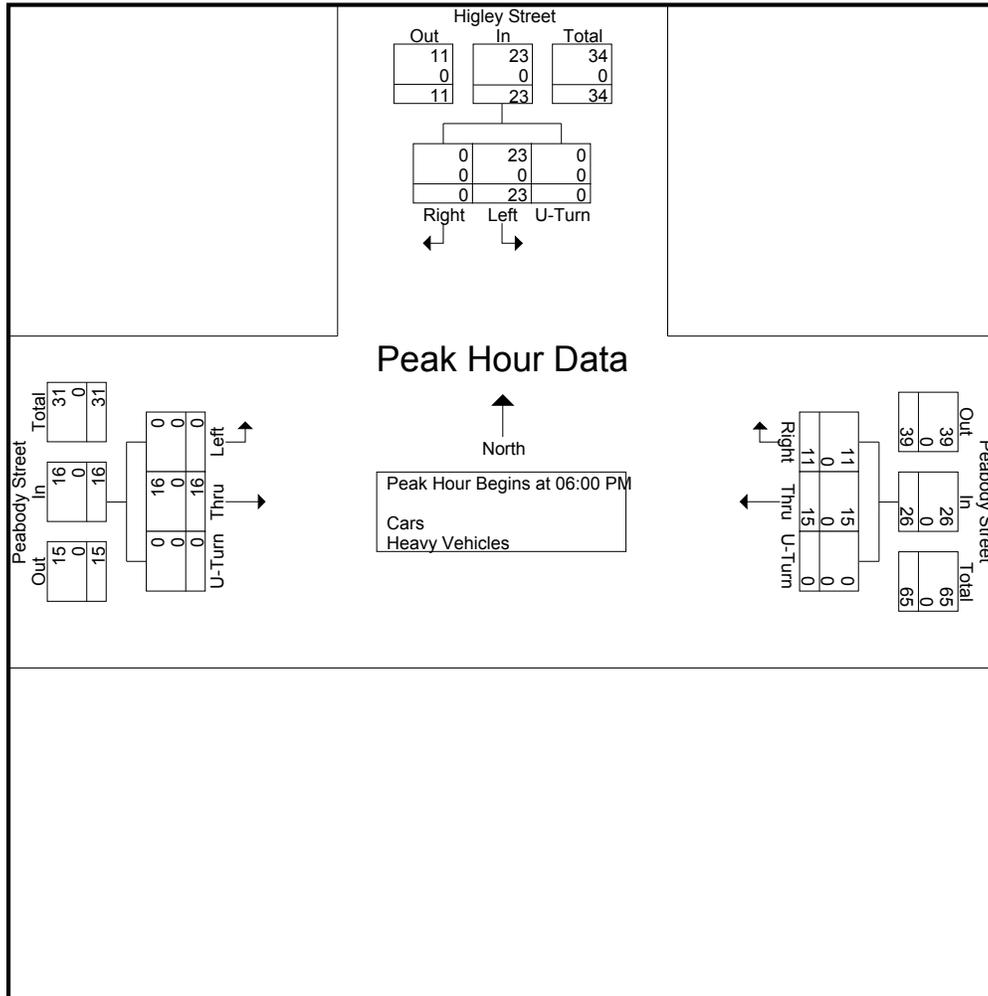
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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 DD
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	0	7	0	7	3	4	0	7	5	0	0	5	19
06:15 PM	0	8	0	8	2	3	0	5	4	0	0	4	17
06:30 PM	0	3	0	3	3	4	0	7	5	0	0	5	15
06:45 PM	0	5	0	5	3	4	0	7	2	0	0	2	14
Total Volume	0	23	0	23	11	15	0	26	16	0	0	16	65
% App. Total	0	100	0		42.3	57.7	0		100	0	0		
PHF	.000	.719	.000	.719	.917	.938	.000	.929	.800	.000	.000	.800	.855
Cars	0	23	0	23	11	15	0	26	16	0	0	16	65
% Cars	0	100	0	100	100	100	0	100	100	0	0	100	100
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0





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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 DDD
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Higley Street From North			Peabody Street From East			Peabody Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
09:00 PM	0	2	0	4	4	0	2	0	0	12
09:15 PM	0	3	0	3	2	0	1	0	0	9
09:30 PM	0	4	0	1	3	0	2	0	0	10
09:45 PM	0	0	0	2	7	0	3	0	0	12
Total	0	9	0	10	16	0	8	0	0	43
10:00 PM	0	0	0	4	6	0	0	0	0	10
10:15 PM	0	4	0	4	0	0	0	0	0	8
10:30 PM	0	0	0	0	0	0	3	0	0	3
10:45 PM	0	1	0	1	0	0	0	0	0	2
Total	0	5	0	9	6	0	3	0	0	23
Grand Total	0	14	0	19	22	0	11	0	0	66
Apprch %	0	100	0	46.3	53.7	0	100	0	0	
Total %	0	21.2	0	28.8	33.3	0	16.7	0	0	

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:00 PM													
09:00 PM	0	2	0	2	4	4	0	8	2	0	0	2	12
09:15 PM	0	3	0	3	3	2	0	5	1	0	0	1	9
09:30 PM	0	4	0	4	1	3	0	4	2	0	0	2	10
09:45 PM	0	0	0	0	2	7	0	9	3	0	0	3	12
Total Volume	0	9	0	9	10	16	0	26	8	0	0	8	43
% App. Total	0	100	0		38.5	61.5	0		100	0	0		
PHF	.000	.563	.000	.563	.625	.571	.000	.722	.667	.000	.000	.667	.896



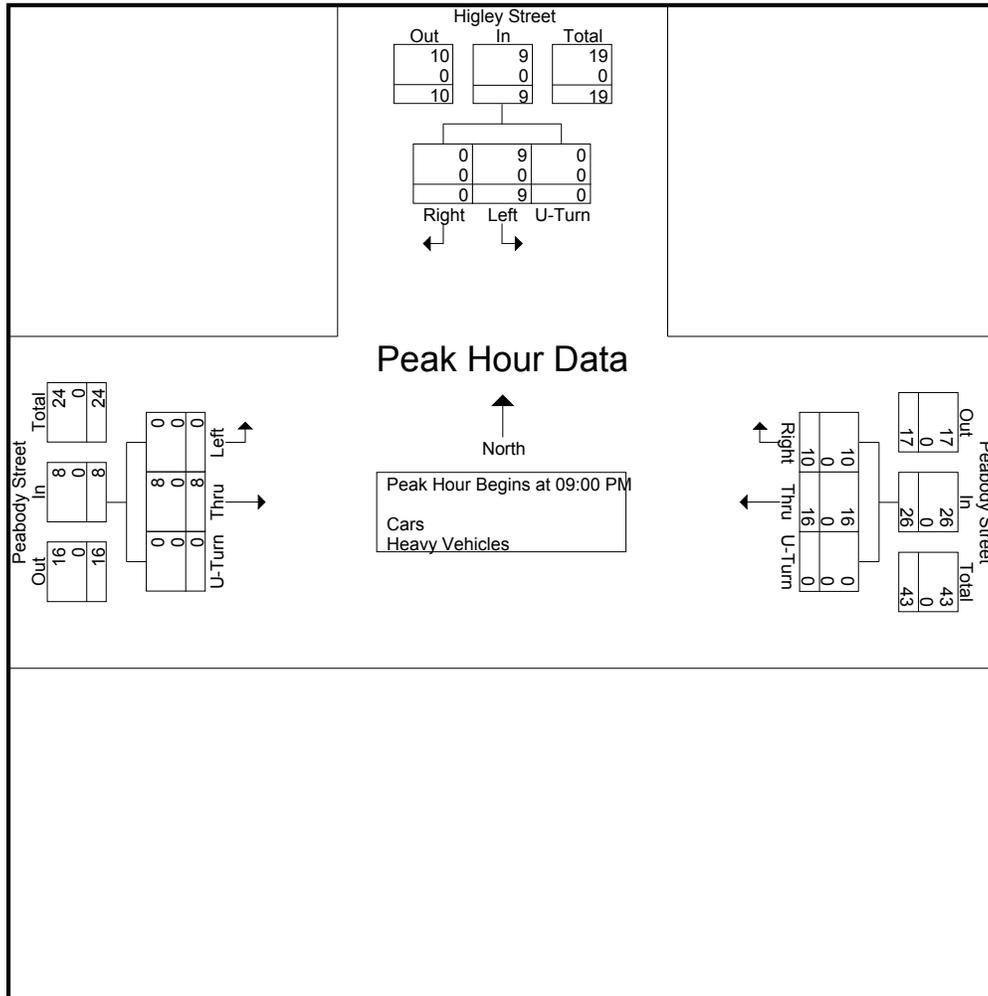
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P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

File Name : 164969 DDD
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:00 PM													
09:00 PM	0	2	0	2	4	4	0	8	2	0	0	2	12
09:15 PM	0	3	0	3	3	2	0	5	1	0	0	1	9
09:30 PM	0	4	0	4	1	3	0	4	2	0	0	2	10
09:45 PM	0	0	0	0	2	7	0	9	3	0	0	3	12
Total Volume	0	9	0	9	10	16	0	26	8	0	0	8	43
% App. Total	0	100	0		38.5	61.5	0		100	0	0		
PHF	.000	.563	.000	.563	.625	.571	.000	.722	.667	.000	.000	.667	.896
Cars	0	9	0	9	10	16	0	26	8	0	0	8	43
% Cars	0	100	0	100	100	100	0	100	100	0	0	100	100
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0





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Email: datarequests@pdillc.com

File Name : 164969 DDDD
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Groups Printed- Cars

Start Time	Higley Street From North			Peabody Street From East			Peabody Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:45 PM	0	13	0	34	10	0	10	0	0	67
Total	0	13	0	34	10	0	10	0	0	67
05:00 PM	0	4	0	30	6	0	10	0	0	50
05:15 PM	0	6	0	31	12	0	9	0	0	58
05:30 PM	0	14	0	32	6	0	7	0	0	59
05:45 PM	0	11	0	19	12	0	9	0	0	51
Total	0	35	0	112	36	0	35	0	0	218
06:00 PM	0	7	0	27	2	0	4	0	0	40
06:15 PM	0	4	0	13	3	0	2	0	0	22
06:30 PM	0	4	0	12	4	0	5	0	0	25
06:45 PM	0	6	0	14	2	0	4	0	0	26
Total	0	21	0	66	11	0	15	0	0	113
07:00 PM	0	3	0	9	5	0	3	0	0	20
07:15 PM	0	6	0	7	2	1	3	0	0	19
07:30 PM	0	3	0	9	3	0	4	0	0	19
07:45 PM	0	0	0	9	2	0	3	0	0	14
Total	0	12	0	34	12	1	13	0	0	72
08:00 PM	0	2	0	1	6	0	1	0	0	10
08:15 PM	0	0	0	3	0	0	2	0	0	5
08:30 PM	0	2	0	1	5	0	1	0	0	9
08:45 PM	0	6	0	1	2	0	3	0	0	12
Total	0	10	0	6	13	0	7	0	0	36
09:00 PM	0	0	0	1	3	0	1	0	0	5
09:15 PM	0	3	0	1	3	0	0	0	0	7
09:30 PM	0	1	0	3	1	0	1	0	0	6
09:45 PM	0	1	0	1	3	0	0	0	0	5
Total	0	5	0	6	10	0	2	0	0	23
10:00 PM	0	1	0	2	1	0	0	0	0	4
10:15 PM	0	0	0	1	1	0	1	0	0	3
10:30 PM	0	0	0	1	3	0	0	0	0	4
Grand Total	0	97	0	262	97	1	83	0	0	540
Apprch %	0	100	0	72.8	26.9	0.3	100	0	0	
Total %	0	18	0	48.5	18	0.2	15.4	0	0	

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:45 PM													
04:45 PM	0	13	0	13	34	10	0	44	10	0	0	10	67
05:00 PM	0	4	0	4	30	6	0	36	10	0	0	10	50
05:15 PM	0	6	0	6	31	12	0	43	9	0	0	9	58
05:30 PM	0	14	0	14	32	6	0	38	7	0	0	7	59
Total Volume	0	37	0	37	127	34	0	161	36	0	0	36	234
% App. Total	0	100	0		78.9	21.1	0		100	0	0		
PHF	.000	.661	.000	.661	.934	.708	.000	.915	.900	.000	.000	.900	.873



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INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

File Name : 164969 DDDD
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Groups Printed- Heavy Vehicles

Start Time	Higley Street From North			Peabody Street From East			Peabody Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	1	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1
07:00 PM	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	0	0	0	0	0	0	0
08:15 PM	0	0	0	0	0	0	0	0	0	0
08:30 PM	0	0	0	0	0	0	0	0	0	0
08:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0
09:15 PM	0	0	0	0	0	0	0	0	0	0
09:30 PM	0	0	0	0	0	0	0	0	0	0
09:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	1	0	0	1
Apprch %	0	0	0	0	0	0	100	0	0	
Total %	0	0	0	0	0	0	100	0	0	

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:15 PM													
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	1
% App. Total	0	0	0		0	0	0		100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.250



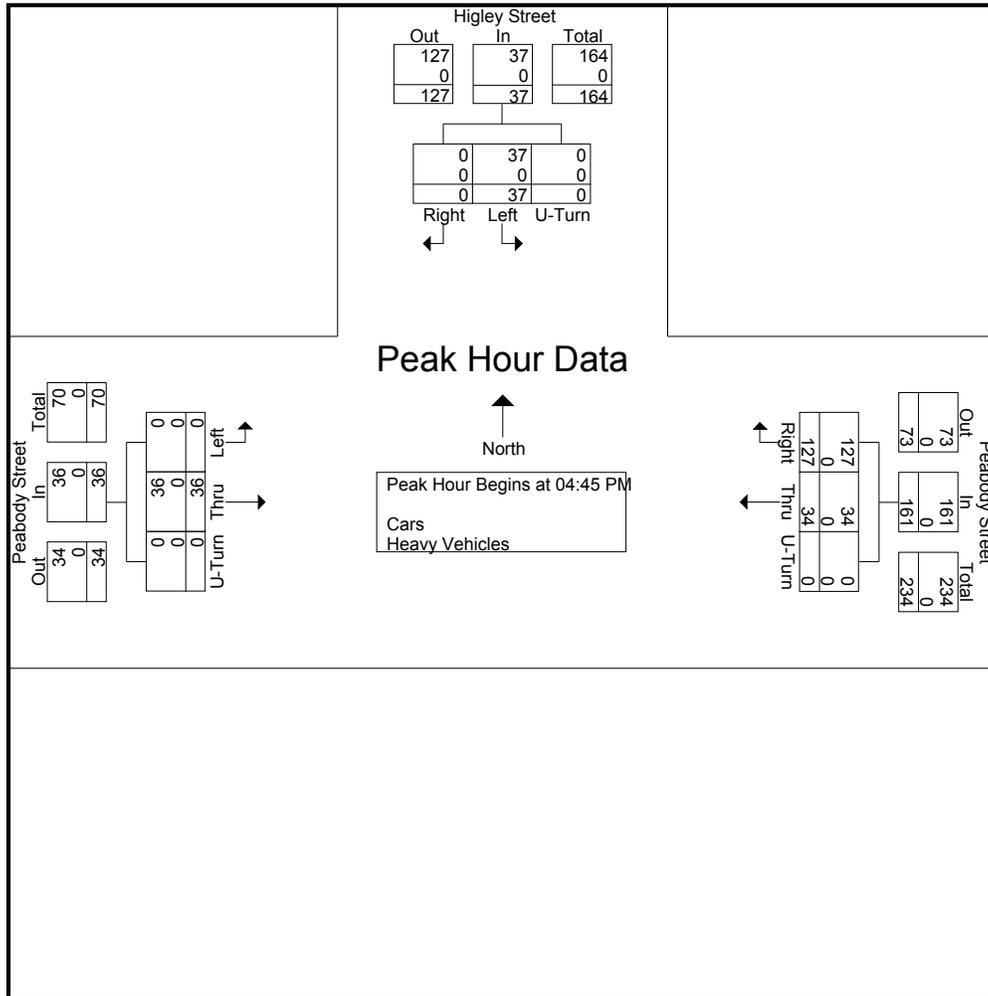
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File Name : 164969 DDDD
Site Code : 17941032
Start Date : 3/15/2016
Page No : 1

N: Higley Street
E/W: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Start Time	Higley Street From North				Peabody Street From East				Peabody Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 04:45 PM to 10:30 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:45 PM													
04:45 PM	0	13	0	13	34	10	0	44	10	0	0	10	67
05:00 PM	0	4	0	4	30	6	0	36	10	0	0	10	50
05:15 PM	0	6	0	6	31	12	0	43	9	0	0	9	58
05:30 PM	0	14	0	14	32	6	0	38	7	0	0	7	59
Total Volume	0	37	0	37	127	34	0	161	36	0	0	36	234
% App. Total	0	100	0		78.9	21.1	0		100	0	0		
PHF	.000	.661	.000	.661	.934	.708	.000	.915	.900	.000	.000	.900	.873
Cars	0	37	0	37	127	34	0	161	36	0	0	36	234
% Cars	0	100	0	100	100	100	0	100	100	0	0	100	100
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0





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N/S: Farmers Road (Route 111)
E: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 E
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Farmers Road (Route 111) From North			Peabody Street From East			Farmers Road (Route 111) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
10:30 AM	27	1	0	0	11	0	5	28	0	72
10:45 AM	26	1	0	0	10	0	5	36	0	78
Total	53	2	0	0	21	0	10	64	0	150
11:00 AM	38	0	0	0	7	0	6	31	0	82
11:15 AM	31	1	0	1	3	0	4	39	0	79
11:30 AM	30	2	0	0	6	0	9	35	0	82
11:45 AM	23	0	0	0	4	0	9	37	0	73
Total	122	3	0	1	20	0	28	142	0	316
12:00 PM	41	1	0	1	5	0	4	41	0	93
12:15 PM	28	0	0	0	4	0	5	20	0	57
Grand Total	244	6	0	2	50	0	47	267	0	616
Apprch %	97.6	2.4	0	3.8	96.2	0	15	85	0	
Total %	39.6	1	0	0.3	8.1	0	7.6	43.3	0	

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:15 AM													
11:15 AM	31	1	0	32	1	3	0	4	4	39	0	43	79
11:30 AM	30	2	0	32	0	6	0	6	9	35	0	44	82
11:45 AM	23	0	0	23	0	4	0	4	9	37	0	46	73
12:00 PM	41	1	0	42	1	5	0	6	4	41	0	45	93
Total Volume	125	4	0	129	2	18	0	20	26	152	0	178	327
% App. Total	96.9	3.1	0		10	90	0		14.6	85.4	0		
PHF	.762	.500	.000	.768	.500	.750	.000	.833	.722	.927	.000	.967	.879



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N/S: Farmers Road (Route 111)
E: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 E
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Farmers Road (Route 111) From North			Peabody Street From East			Farmers Road (Route 111) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
10:30 AM	2	0	0	0	0	0	0	0	0	2
10:45 AM	0	0	0	0	0	0	0	0	0	0
Total	2	0	0	0	0	0	0	0	0	2
11:00 AM	2	0	0	0	0	0	0	2	0	4
11:15 AM	1	0	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0
Total	3	0	0	0	0	0	0	2	0	5
12:00 PM	1	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0	0
Grand Total	6	0	0	0	0	0	0	2	0	8
Apprch %	100	0	0	0	0	0	0	100	0	
Total %	75	0	0	0	0	0	0	25	0	

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 10:30 AM													
10:30 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:15 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total Volume	5	0	0	5	0	0	0	0	0	2	0	2	7
% App. Total	100	0	0		0	0	0		0	100	0		
PHF	.625	.000	.000	.625	.000	.000	.000	.000	.000	.250	.000	.250	.438



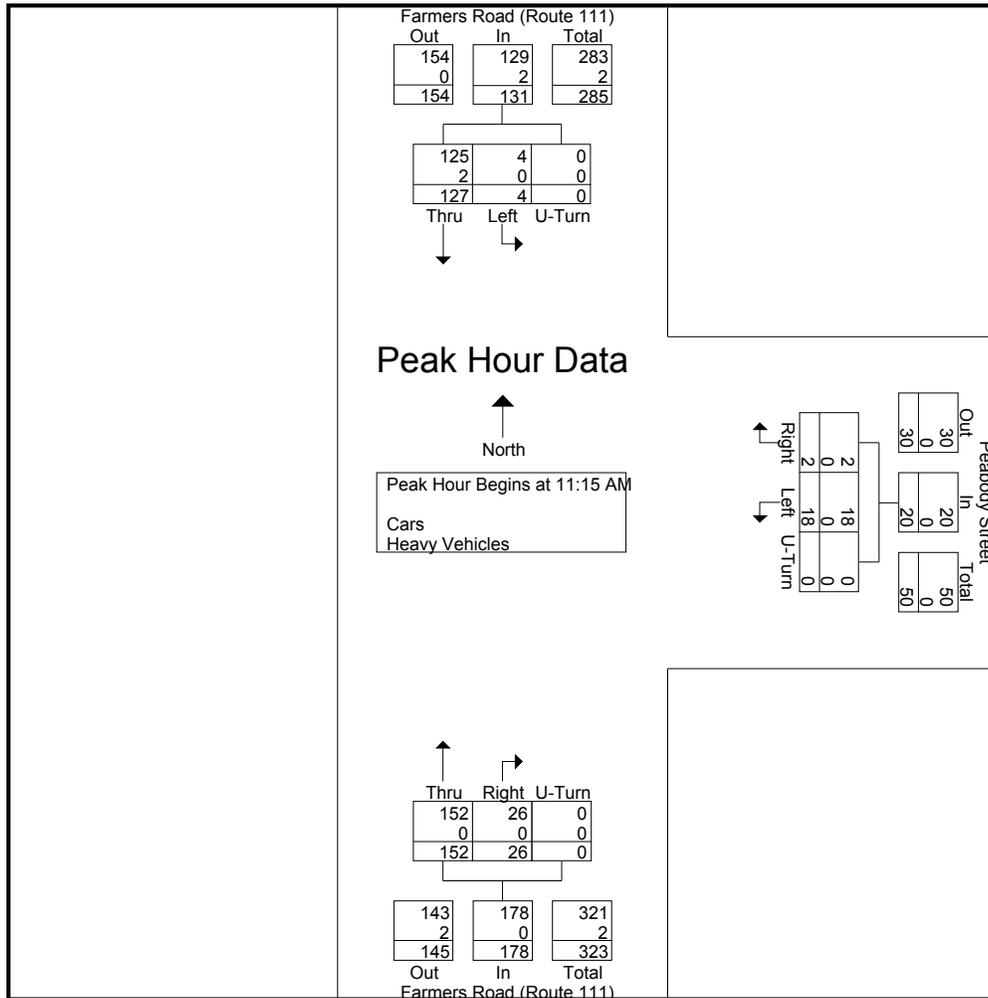
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N/S: Farmers Road (Route 111)
E: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 E
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 10:30 AM to 12:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 11:15 AM													
11:15 AM	32	1	0	33	1	3	0	4	4	39	0	43	80
11:30 AM	30	2	0	32	0	6	0	6	9	35	0	44	82
11:45 AM	23	0	0	23	0	4	0	4	9	37	0	46	73
12:00 PM	42	1	0	43	1	5	0	6	4	41	0	45	94
Total Volume	127	4	0	131	2	18	0	20	26	152	0	178	329
% App. Total	96.9	3.1	0		10	90	0		14.6	85.4	0		
PHF	.756	.500	.000	.762	.500	.750	.000	.833	.722	.927	.000	.967	.875
Cars	125	4	0	129	2	18	0	20	26	152	0	178	327
% Cars	98.4	100	0	98.5	100	100	0	100	100	100	0	100	99.4
Heavy Vehicles	2	0	0	2	0	0	0	0	0	0	0	0	2
% Heavy Vehicles	1.6	0	0	1.5	0	0	0	0	0	0	0	0	0.6





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City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 EE
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars

Start Time	Farmers Road (Route 111) From North			Peabody Street From East			Farmers Road (Route 111) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
06:00 PM	27	1	0	0	4	0	5	26	0	63
06:15 PM	15	0	0	0	3	0	3	18	0	39
06:30 PM	17	0	0	1	3	0	4	14	0	39
06:45 PM	20	0	0	0	3	0	2	13	0	38
Total	79	1	0	1	13	0	14	71	0	179
07:00 PM	18	0	0	0	2	0	1	16	0	37
07:15 PM	19	0	0	0	2	0	4	9	0	34
07:30 PM	13	0	0	0	0	0	3	21	0	37
07:45 PM	16	0	0	0	1	0	2	12	0	31
Total	66	0	0	0	5	0	10	58	0	139
Grand Total	145	1	0	1	18	0	24	129	0	318
Apprch %	99.3	0.7	0	5.3	94.7	0	15.7	84.3	0	
Total %	45.6	0.3	0	0.3	5.7	0	7.5	40.6	0	

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
06:00 PM	27	1	0	28	0	4	0	4	5	26	0	31	63
06:15 PM	15	0	0	15	0	3	0	3	3	18	0	21	39
06:30 PM	17	0	0	17	1	3	0	4	4	14	0	18	39
06:45 PM	20	0	0	20	0	3	0	3	2	13	0	15	38
Total Volume	79	1	0	80	1	13	0	14	14	71	0	85	179
% App. Total	98.8	1.2	0		7.1	92.9	0		16.5	83.5	0		
PHF	.731	.250	.000	.714	.250	.813	.000	.875	.700	.683	.000	.685	.710

Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 06:00 PM



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Client: Stantec/ S. Wood

File Name : 164969 EE
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Peds and Bicycles

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total	
	Thru	Left	Peds EB	Peds WB	Right	Left	Peds SB	Peds NB	Right	Thru	Peds WB	Peds EB		
06:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	1
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Apprch %	0	0	0	0	0	0	0	0	0	0	100	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	100	0	0	

Start Time	Farmers Road (Route 111) From North					Peabody Street From East					Farmers Road (Route 111) From South					Int. Total
	Thru	Left	Peds EB	Peds WB	App. Total	Right	Left	Peds SB	Peds NB	App. Total	Right	Thru	Peds WB	Peds EB	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 06:00 PM																
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% App. Total	0	0	0	0	0	0	0	0	0	0	0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.250



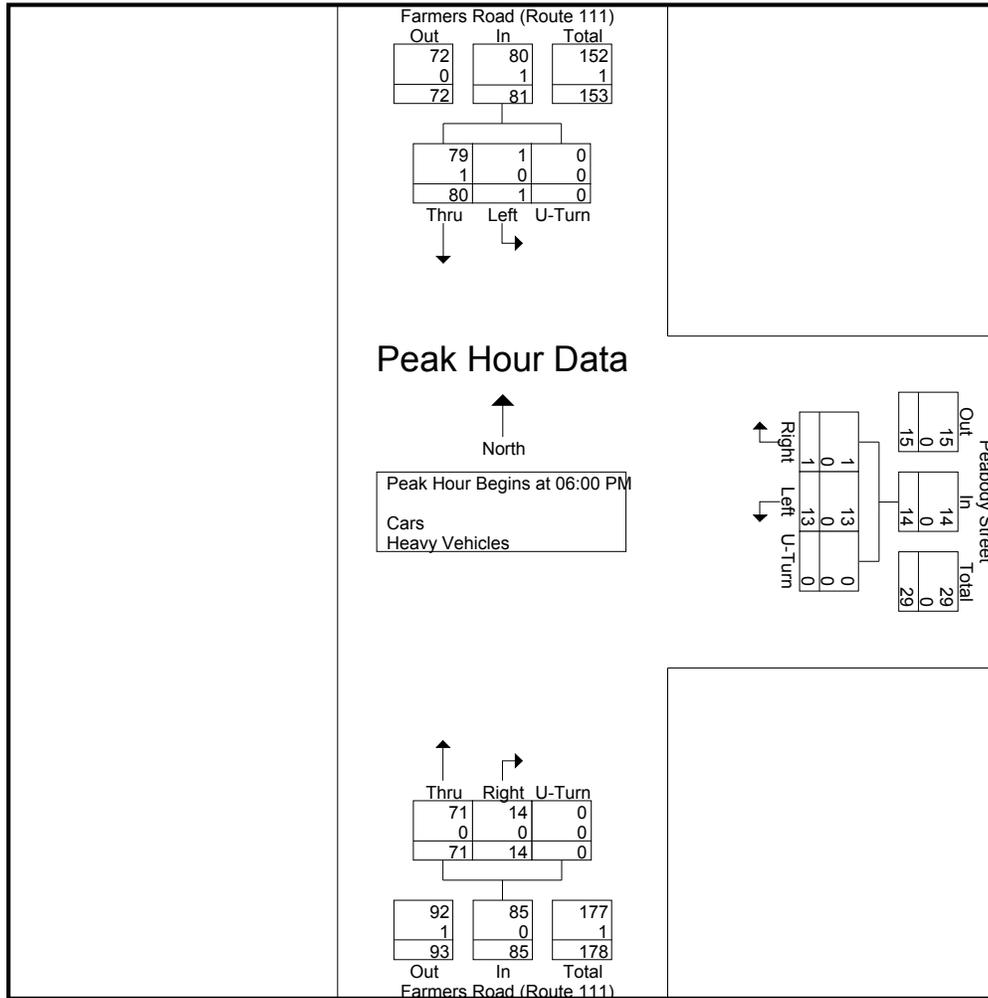
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Start Date : 3/12/2016
Page No : 1

N/S: Farmers Road (Route 111)
E: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 06:00 PM to 07:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 06:00 PM													
06:00 PM	27	1	0	28	0	4	0	4	5	26	0	31	63
06:15 PM	16	0	0	16	0	3	0	3	3	18	0	21	40
06:30 PM	17	0	0	17	1	3	0	4	4	14	0	18	39
06:45 PM	20	0	0	20	0	3	0	3	2	13	0	15	38
Total Volume	80	1	0	81	1	13	0	14	14	71	0	85	180
% App. Total	98.8	1.2	0		7.1	92.9	0		16.5	83.5	0		
PHF	.741	.250	.000	.723	.250	.813	.000	.875	.700	.683	.000	.685	.714
Cars	79	1	0	80	1	13	0	14	14	71	0	85	179
% Cars	98.8	100	0	98.8	100	100	0	100	100	100	0	100	99.4
Heavy Vehicles	1	0	0	1	0	0	0	0	0	0	0	0	1
% Heavy Vehicles	1.3	0	0	1.2	0	0	0	0	0	0	0	0	0.6





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E: Peabody Street
City, State: Groton, MA
Client: Stantec/ S. Wood

File Name : 164969 EEE
Site Code : 17941032
Start Date : 3/12/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Farmers Road (Route 111) From North			Peabody Street From East			Farmers Road (Route 111) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
09:00 PM	14	0	0	0	4	0	2	8	0	28
09:15 PM	4	0	0	1	1	0	1	12	0	19
09:30 PM	17	0	0	0	3	0	2	10	0	32
09:45 PM	12	1	0	1	7	0	3	6	0	30
Total	47	1	0	2	15	0	8	36	0	109
10:00 PM	12	0	0	0	6	0	0	15	0	33
10:15 PM	11	0	0	0	0	0	0	5	0	16
10:30 PM	8	0	0	0	0	0	3	6	0	17
10:45 PM	7	0	0	0	0	0	0	9	0	16
Total	38	0	0	0	6	0	3	35	0	82
Grand Total	85	1	0	2	21	0	11	71	0	191
Apprch %	98.8	1.2	0	8.7	91.3	0	13.4	86.6	0	
Total %	44.5	0.5	0	1	11	0	5.8	37.2	0	
Cars	84	1	0	2	21	0	11	70	0	189
% Cars	98.8	100	0	100	100	0	100	98.6	0	99
Heavy Vehicles	1	0	0	0	0	0	0	1	0	2
% Heavy Vehicles	1.2	0	0	0	0	0	0	1.4	0	1

Start Time	Farmers Road (Route 111) From North				Peabody Street From East				Farmers Road (Route 111) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 09:00 PM to 10:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 09:15 PM													
09:15 PM	4	0	0	4	1	1	0	2	1	12	0	13	19
09:30 PM	17	0	0	17	0	3	0	3	2	10	0	12	32
09:45 PM	12	1	0	13	1	7	0	8	3	6	0	9	30
10:00 PM	12	0	0	12	0	6	0	6	0	15	0	15	33
Total Volume	45	1	0	46	2	17	0	19	6	43	0	49	114
% App. Total	97.8	2.2	0		10.5	89.5	0		12.2	87.8	0		
PHF	.662	.250	.000	.676	.500	.607	.000	.594	.500	.717	.000	.817	.864
Cars	44	1	0	45	2	17	0	19	6	42	0	48	112
% Cars	97.8	100	0	97.8	100	100	0	100	100	97.7	0	98.0	98.2
Heavy Vehicles	1	0	0	1	0	0	0	0	0	1	0	1	2
% Heavy Vehicles	2.2	0	0	2.2	0	0	0	0	0	2.3	0	2.0	1.8