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December 6, 2016

Jeff Ritter
Town Administrator
Town of Holliston
703 Washington Street
Holliston, MA 01746

RE: **Cut-Through Route Analysis
Washington Street Corridor**

Dear Mr. Ritter,

At the request of the Town of Holliston, McMahon Associates has reviewed the potential for cut-through traffic as a result of the proposed traffic signal system on Washington Street (Route 16/126). The purpose of this memorandum is to identify feasible routes for cut-through traffic as well as identify traffic count locations for traffic monitoring before and after the construction of the proposed project. The following intersections are proposed to be signalized and are circled in red in the figure below.

- Washington Street at Hollis Street
- Washington Street at Central Street
- Washington Street at Green Street/Exchange Street

While the traffic signals are expected to provide an overall benefit to motorists by reducing the delay from the minor approach, the currently unsignalized intersections allow for free flow on Washington Street. As a result of signalizing the corridor, some delay will be added to the northbound and southbound approaches on Washington Street. Due to this increase in delay, concerns have been expressed that motorists will use alternative cut-through routes to avoid the additional delay.

Several potential cut-through routes were identified. With the addition of the new traffic signals, it is expected that there may be an increase in north/south cut-through traffic, but a decrease in cut-through traffic from the minor roadways as operations are expected to improve. As shown in the figure below, cut-through routes were identified to facilitate north/south traffic. From the north, vehicles can utilize Woodland Street or Linden Street to connect to the Mudville neighborhood and continue to Washington Street to the south of the study area via Union Street and School Street. The same is true in the reverse direction with the exception of Linden Street which is one-way southeast, but there are

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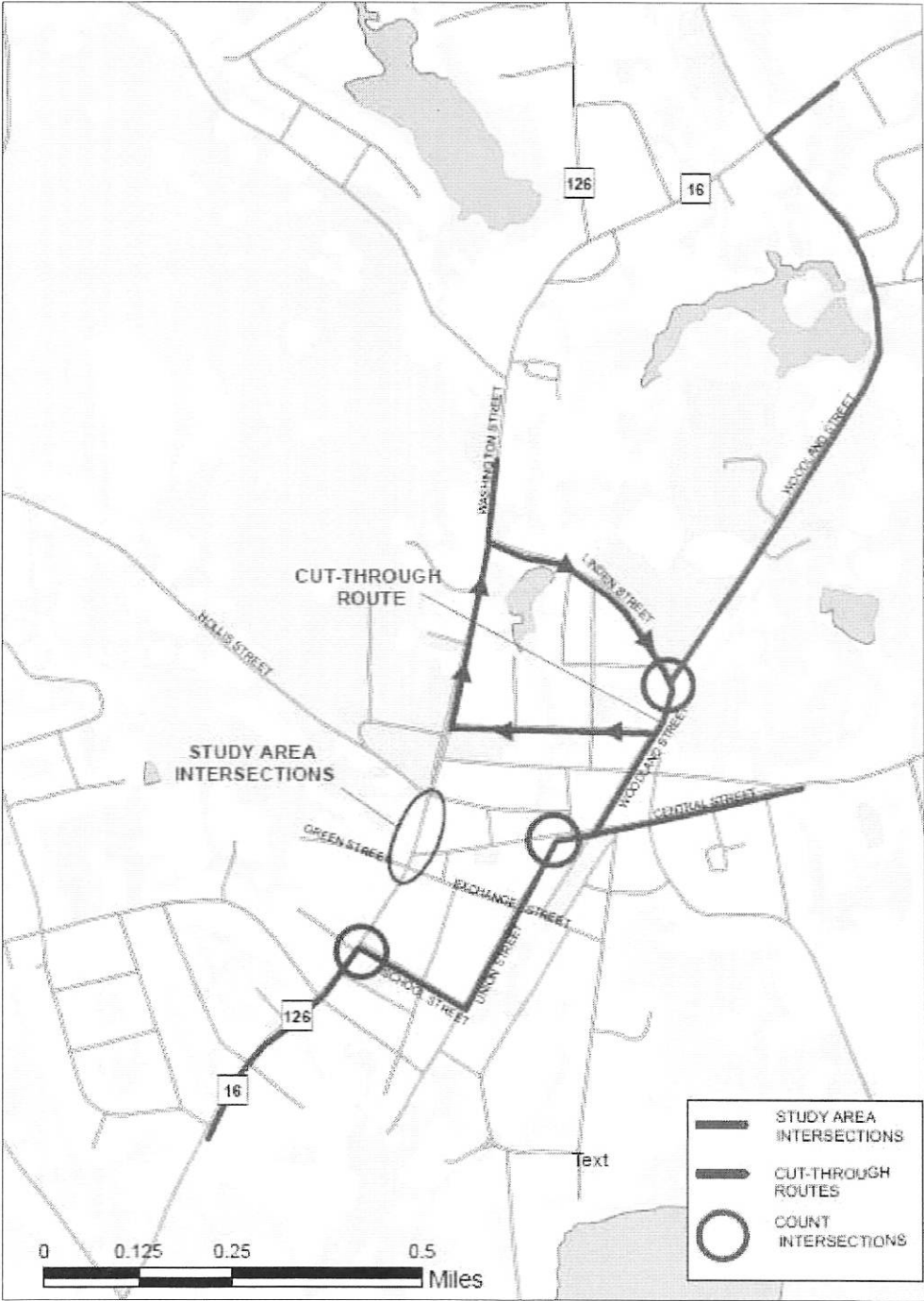


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several east/west connections between Woodland Street and Washington Street north of Hollis Street that can be utilized for cut through.

Figure 1: Cut-Through Route Locations



As shown in the figure above, three intersections have been identified for the collection of traffic counts before and after the construction of the proposed project. The locations are major decision points for the cut-through routes and would quantify the amount of traffic diverting from the study area intersections. While there are several east/west connections that could potentially service cut-through vehicles, the routes and decision points identified are believed to be the most convenient means of cut-through for motorists. The intersections identified are as follows:

- Washington Street at School Street
- Union Street at Central Street
- Linden Street at Woodland Street

We will coordinate with the Town to establish a cooperative effort to count the intersections identified both before and after construction of the proposed project and to compare the traffic count data and determine the amount of cut-through traffic.

Sincerely,



Robert A. Smith, P.E.
Senior Project Manager

Transportation Data Corporation

Mario Perone, mperone1@verizon.net

tel (781) 587-0086 cell (781) 439-4999

N/S: Plaza Driveway/Union Street

E/W: Central Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836A

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				Int. Total
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	3	0	1	0	1	53	7	0	3	0	0	1	0	74	5	0	148
07:15 AM	5	0	3	1	6	67	24	0	5	0	0	0	1	127	5	1	245
07:30 AM	3	1	1	0	2	41	11	0	7	1	0	0	1	74	6	1	149
07:45 AM	2	1	2	0	2	45	10	0	6	0	0	0	0	95	2	0	165
Total	13	2	7	1	11	206	52	0	21	1	0	1	2	370	18	2	707
08:00 AM	1	0	2	2	4	49	14	0	7	0	0	0	0	70	3	0	152
08:15 AM	4	0	0	0	2	49	3	0	7	1	1	0	0	46	1	0	114
08:30 AM	5	2	2	0	2	60	7	0	6	0	1	0	0	76	4	0	165
08:45 AM	3	0	0	0	0	53	17	0	3	1	3	1	0	79	2	0	162
Total	13	2	4	2	8	211	41	0	23	2	5	1	0	271	10	0	593
09:00 AM	2	0	1	0	2	39	8	0	3	0	0	0	0	60	1	1	117
09:15 AM	3	0	1	1	7	46	4	0	1	0	0	0	1	53	3	0	120
09:30 AM	2	0	2	0	1	51	9	1	2	0	3	0	0	44	2	0	117
09:45 AM	2	1	0	0	3	54	7	0	1	0	2	0	0	49	3	0	122
Total	9	1	4	1	13	190	28	1	7	0	5	0	1	206	9	1	476
10:00 AM	5	1	2	0	2	63	2	0	7	0	3	0	0	51	1	0	137
10:15 AM	0	0	0	0	2	47	2	0	2	0	0	0	0	56	6	0	115
10:30 AM	3	0	2	1	0	45	5	3	4	0	0	1	1	45	2	0	112
10:45 AM	3	0	1	1	1	40	4	0	3	0	1	0	0	54	1	0	109
Total	11	1	5	2	5	195	13	3	16	0	4	1	1	206	10	0	473
11:00 AM	1	0	0	1	0	52	4	0	6	0	2	0	1	60	0	0	127
11:15 AM	1	0	0	0	0	48	7	0	2	0	1	1	0	50	0	0	110
11:30 AM	1	1	0	3	0	60	8	0	4	2	3	0	2	55	1	0	140
11:45 AM	3	0	3	0	2	45	13	0	4	0	4	1	3	59	0	0	137
Total	6	1	3	4	2	205	32	0	16	2	10	2	6	224	1	0	514
12:00 PM	3	0	1	0	1	59	9	1	2	0	0	0	1	53	2	0	132
12:15 PM	1	0	2	0	3	53	6	0	1	1	1	0	2	66	4	0	140
12:30 PM	4	0	2	0	2	46	6	0	2	0	2	0	1	52	2	0	119
12:45 PM	5	0	3	0	3	47	5	1	2	1	0	2	0	46	1	0	116
Total	13	0	8	0	9	205	26	2	7	2	3	2	4	217	9	0	507
01:00 PM	2	0	0	0	0	45	3	0	2	0	5	2	0	60	1	0	120
01:15 PM	3	0	1	1	2	52	4	1	2	0	0	2	1	70	0	0	139
01:30 PM	3	1	2	0	1	62	7	3	4	0	1	0	0	62	0	0	146
01:45 PM	0	0	3	1	3	53	13	5	2	0	1	1	1	82	3	0	168
Total	8	1	6	2	6	212	27	9	10	0	7	5	2	274	4	0	573
02:00 PM	0	0	0	0	0	51	9	0	4	0	0	5	0	73	1	1	144
02:15 PM	1	1	0	0	0	53	9	0	3	0	3	2	0	69	1	0	142
02:30 PM	0	1	0	0	2	64	15	0	7	0	0	2	4	75	1	0	171
02:45 PM	2	0	1	0	0	58	14	0	4	1	3	2	0	80	1	0	166
Total	3	2	1	0	2	226	47	0	18	1	6	11	4	297	4	1	623
03:00 PM	0	0	1	0	1	71	23	0	6	1	3	0	0	106	2	0	214
03:15 PM	1	1	2	0	0	80	18	0	2	0	2	0	0	92	4	0	202
03:30 PM	2	0	0	0	5	77	37	0	3	1	2	1	2	76	0	0	206
03:45 PM	0	0	2	0	1	60	16	2	3	1	5	2	1	57	2	0	152
Total	3	1	5	0	7	288	94	2	14	3	12	3	3	331	8	0	774
04:00 PM	1	0	0	3	2	71	11	0	5	0	0	0	0	73	3	0	169
04:15 PM	3	0	3	0	3	56	9	0	2	0	0	2	1	60	1	0	140
04:30 PM	0	0	2	0	1	59	13	1	5	0	0	0	4	68	3	0	156
04:45 PM	2	0	2	0	3	52	19	1	2	0	2	0	0	99	2	1	185
Total	6	0	7	3	9	238	52	2	14	0	2	2	5	300	9	1	650

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tel (781) 587-0086 cell (781) 439-4999

N/S: Plaza Driveway/Union Street
 E/W: Central Street
 City, State: Holliston, MA
 Client: McM/A. Luff

File Name : 04836A
 Site Code : Y1344921
 Start Date : 12/21/2016
 Page No : 2

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				Int. Total
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
05:00 PM	1	1	4	0	1	58	15	0	7	0	0	0	3	78	3	0	171
05:15 PM	4	1	1	0	0	67	18	0	2	0	0	0	1	56	2	2	154
05:30 PM	7	0	0	0	0	81	10	1	3	1	2	1	5	94	1	0	206
05:45 PM	0	1	1	0	7	76	15	0	5	1	2	1	0	92	5	1	207
Total	12	3	6	0	8	282	58	1	17	2	4	2	9	320	11	3	738
Grand Total	97	14	56	15	80	2458	470	20	163	13	58	30	37	3016	93	8	6628
Apprch %	53.3	7.7	30.8	8.2	2.6	81.2	15.5	0.7	61.7	4.9	22	11.4	1.2	95.6	2.9	0.3	
Total %	1.5	0.2	0.8	0.2	1.2	37.1	7.1	0.3	2.5	0.2	0.9	0.5	0.6	45.5	1.4	0.1	
Cars & Peds	95	13	55	15	79	2391	466	20	159	13	56	30	37	2940	93	8	6470
% Cars & Peds	97.9	92.9	98.2	100	98.8	97.3	99.1	100	97.5	100	96.6	100	100	97.5	100	100	97.6
Trucks & Buses	2	0	1	0	1	65	4	0	3	0	2	0	0	75	0	0	153
% Trucks & Buses	2.1	0	1.8	0	1.2	2.6	0.9	0	1.8	0	3.4	0	0	2.5	0	0	2.3
Bikes by Direction	0	1	0	0	0	2	0	0	1	0	0	0	0	1	0	0	5
% Bikes by Direction	0	7.1	0	0	0	0.1	0	0	0.6	0	0	0	0	0	0	0	0.1

	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					Int. Total
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	5	0	3	1	9	6	67	24	0	97	5	0	0	0	5	1	127	5	1	134	245
07:30 AM	3	1	1	0	5	2	41	11	0	54	7	1	0	0	8	1	74	6	1	82	149
07:45 AM	2	1	2	0	5	2	45	10	0	57	6	0	0	0	6	0	95	2	0	97	165
08:00 AM	1	0	2	2	5	4	49	14	0	67	7	0	0	0	7	0	70	3	0	73	152
Total Volume	11	2	8	3	24	14	202	59	0	275	25	1	0	0	26	2	366	16	2	386	711
% App. Total	45.8	8.3	33.3	12.5		5.1	73.5	21.5	0		96.2	3.8	0	0		0.5	94.8	4.1	0.5		
PHF	.550	.500	.667	.375	.667	.583	.754	.615	.000	.709	.893	.250	.000	.000	.813	.500	.720	.667	.500	.720	.726
Cars & Peds	11	2	8	3	24	14	196	58	0	268	24	1	0	0	25	2	356	16	2	376	693
% Cars & Peds	100	100	100	100	100	100	97.0	98.3	0	97.5	96.0	100	0	0	96.2	100	97.3	100	100	97.4	97.5
Trucks & Buses	0	0	0	0	0	0	6	1	0	7	1	0	0	0	1	0	10	0	0	10	18
% Trucks & Buses	0	0	0	0	0	0	3.0	1.7	0	2.5	4.0	0	0	0	3.8	0	2.7	0	0	2.6	2.5
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 01:00 PM

01:00 PM	2	0	0	0	2	0	45	3	0	48	2	0	5	2	9	0	60	1	0	61	120
01:15 PM	3	0	1	1	5	2	52	4	1	59	2	0	0	2	4	1	70	0	0	71	139
01:30 PM	3	1	2	0	6	1	62	7	3	73	4	0	1	0	5	0	62	0	0	62	146
01:45 PM	0	0	3	1	4	3	53	13	5	74	2	0	1	1	4	1	82	3	0	86	168
Total Volume	8	1	6	2	17	6	212	27	9	254	10	0	7	5	22	2	274	4	0	280	573
% App. Total	47.1	5.9	35.3	11.8		2.4	83.5	10.6	3.5		45.5	0	31.8	22.7		0.7	97.9	1.4	0		
PHF	.667	.250	.500	.500	.708	.500	.855	.519	.450	.858	.625	.000	.350	.625	.611	.500	.835	.333	.000	.814	.853
Cars & Peds	8	1	6	2	17	6	206	26	9	247	9	0	7	5	21	2	266	4	0	272	557
% Cars & Peds	100	100	100	100	100	100	97.2	96.3	100	97.2	90.0	0	100	100	95.5	100	97.1	100	0	97.1	97.2
Trucks & Buses	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	8	0	0	8	15
% Trucks & Buses	0	0	0	0	0	0	2.8	3.7	0	2.8	0	0	0	0	0	0	2.9	0	0	2.9	2.6
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	10.0	0	0	0	4.5	0	0	0	0	0	0.2

Mario Perone, mperone1@verizon.net
tel (781) 587-0086 cell (781) 439-4999

N/S: Plaza Driveway/Union Street
E/W: Central Street
City, State: Holliston, MA
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[illegible]

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Groups Printed- Cars & Peds

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
07:00 AM	3	0	1	0	1	52	7	0	3	0	0	1	0	73	5	0	146
07:15 AM	5	0	3	1	6	64	23	0	5	0	0	0	1	124	5	1	238
07:30 AM	3	1	1	0	2	39	11	0	7	1	0	0	1	71	6	1	144
07:45 AM	2	1	2	0	2	45	10	0	5	0	0	0	0	91	2	0	160
Total	13	2	7	1	11	200	51	0	20	1	0	1	2	359	18	2	688
08:00 AM	1	0	2	2	4	48	14	0	7	0	0	0	0	70	3	0	151
08:15 AM	4	0	0	0	2	48	3	0	7	1	1	0	0	44	1	0	111
08:30 AM	5	2	2	0	2	59	7	0	5	0	1	0	0	74	4	0	161
08:45 AM	3	0	0	0	0	52	17	0	3	1	2	1	0	74	2	0	155
Total	13	2	4	2	8	207	41	0	22	2	4	1	0	262	10	0	578
09:00 AM	2	0	1	0	2	37	8	0	3	0	0	0	0	60	1	1	115
09:15 AM	3	0	1	1	7	45	4	0	1	0	0	0	1	53	3	0	119
09:30 AM	2	0	2	0	1	48	9	1	2	0	2	0	0	42	2	0	111
09:45 AM	2	1	0	0	3	54	7	0	1	0	2	0	0	45	3	0	118
Total	9	1	4	1	13	184	28	1	7	0	4	0	1	200	9	1	463
10:00 AM	4	1	2	0	2	60	2	0	7	0	3	0	0	51	1	0	133
10:15 AM	0	0	0	0	2	43	2	0	2	0	0	0	0	54	6	0	109
10:30 AM	3	0	2	1	0	44	5	3	3	0	0	1	1	44	2	0	109
10:45 AM	3	0	1	1	1	40	4	0	3	0	1	0	0	53	1	0	108
Total	10	1	5	2	5	187	13	3	15	0	4	1	1	202	10	0	459
11:00 AM	1	0	0	1	0	51	4	0	6	0	2	0	1	60	0	0	126
11:15 AM	1	0	0	0	0	46	7	0	2	0	1	1	0	48	0	0	106
11:30 AM	1	1	0	3	0	60	8	0	4	2	3	0	2	55	1	0	140
11:45 AM	3	0	2	0	2	44	13	0	4	0	4	1	3	55	0	0	131
Total	6	1	2	4	2	201	32	0	16	2	10	2	6	218	1	0	503
12:00 PM	2	0	1	0	1	57	9	1	2	0	0	0	1	51	2	0	127
12:15 PM	1	0	2	0	3	52	6	0	1	1	1	0	2	65	4	0	138
12:30 PM	4	0	2	0	2	44	5	0	2	0	2	0	1	51	2	0	115
12:45 PM	5	0	3	0	3	44	5	1	2	1	0	2	0	46	1	0	113
Total	12	0	8	0	9	197	25	2	7	2	3	2	4	213	9	0	493
01:00 PM	2	0	0	0	0	45	3	0	2	0	5	2	0	58	1	0	118
01:15 PM	3	0	1	1	2	49	4	1	2	0	0	2	1	67	0	0	133
01:30 PM	3	1	2	0	1	59	7	3	4	0	1	0	0	60	0	0	141
01:45 PM	0	0	3	1	3	53	12	5	1	0	1	1	1	81	3	0	165
Total	8	1	6	2	6	206	26	9	9	0	7	5	2	266	4	0	557
02:00 PM	0	0	0	0	0	49	9	0	4	0	0	5	0	70	1	1	139
02:15 PM	1	1	0	0	0	51	9	0	3	0	3	2	0	65	1	0	136
02:30 PM	0	0	0	0	2	63	15	0	7	0	0	2	4	71	1	0	165
02:45 PM	2	0	1	0	0	55	14	0	4	1	3	2	0	77	1	0	160
Total	3	1	1	0	2	218	47	0	18	1	6	11	4	283	4	1	600
03:00 PM	0	0	1	0	1	65	22	0	6	1	3	0	0	103	2	0	204
03:15 PM	1	1	2	0	0	79	18	0	2	0	2	0	0	91	4	0	200
03:30 PM	2	0	0	0	4	72	37	0	3	1	2	1	2	72	0	0	196
03:45 PM	0	0	2	0	1	58	16	2	3	1	5	2	1	54	2	0	147
Total	3	1	5	0	6	274	93	2	14	3	12	3	3	320	8	0	747
04:00 PM	1	0	0	3	2	70	11	0	5	0	0	0	0	71	3	0	166
04:15 PM	3	0	3	0	3	55	9	0	2	0	0	2	1	59	1	0	138
04:30 PM	0	0	2	0	1	58	13	1	5	0	0	0	4	68	3	0	155
04:45 PM	2	0	2	0	3	52	19	1	2	0	2	0	0	99	2	1	185
Total	6	0	7	3	9	235	52	2	14	0	2	2	5	297	9	1	644

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Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
05:00 PM	1	1	4	0	1	58	15	0	7	0	0	0	3	78	3	0	171
05:15 PM	4	1	1	0	0	67	18	0	2	0	0	0	1	56	2	2	154
05:30 PM	7	0	0	0	0	81	10	1	3	1	2	1	5	94	1	0	206
05:45 PM	0	1	1	0	7	76	15	0	5	1	2	1	0	92	5	1	207
Total	12	3	6	0	8	282	58	1	17	2	4	2	9	320	11	3	738
Grand Total	95	13	55	15	79	2391	466	20	159	13	56	30	37	2940	93	8	6470
Apprch %	53.4	7.3	30.9	8.4	2.7	80.9	15.8	0.7	61.6	5	21.7	11.6	1.2	95.5	3	0.3	
Total %	1.5	0.2	0.9	0.2	1.2	37	7.2	0.3	2.5	0.2	0.9	0.5	0.6	45.4	1.4	0.1	

	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	5	0	3	1	9	6	64	23	0	93	5	0	0	0	5	1	124	5	1	131	238
07:30 AM	3	1	1	0	5	2	39	11	0	52	7	1	0	0	8	1	71	6	1	79	144
07:45 AM	2	1	2	0	5	2	45	10	0	57	5	0	0	0	5	0	91	2	0	93	160
08:00 AM	1	0	2	2	5	4	48	14	0	66	7	0	0	0	7	0	70	3	0	73	151
Total Volume	11	2	8	3	24	14	196	58	0	268	24	1	0	0	25	2	356	16	2	376	693
% App. Total	45.8	8.3	33.3	12.5		5.2	73.1	21.6	0		96	4	0	0		0.5	94.7	4.3	0.5		
PHF	.550	.500	.667	.375	.667	.583	.766	.630	.000	.720	.857	.250	.000	.000	.781	.500	.718	.667	.500	.718	.728

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 01:00 PM

01:00 PM	2	0	0	0	2	0	45	3	0	48	2	0	5	2	9	0	58	1	0	59	118
01:15 PM	3	0	1	1	5	2	49	4	1	56	2	0	0	2	4	1	67	0	0	68	133
01:30 PM	3	1	2	0	6	1	59	7	3	70	4	0	1	0	5	0	60	0	0	60	141
01:45 PM	0	0	3	1	4	3	53	12	5	73	1	0	1	1	3	1	81	3	0	85	165
Total Volume	8	1	6	2	17	6	206	26	9	247	9	0	7	5	21	2	266	4	0	272	557
% App. Total	47.1	5.9	35.3	11.8		2.4	83.4	10.5	3.6		42.9	0	33.3	23.8		0.7	97.8	1.5	0		
PHF	.667	.250	.500	.500	.708	.500	.873	.542	.450	.846	.563	.000	.350	.625	.583	.500	.821	.333	.000	.800	.844

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:45 PM

02:45 PM	2	0	1	0	3	0	55	14	0	69	4	1	3	2	10	0	77	1	0	78	160
03:00 PM	0	0	1	0	1	1	65	22	0	88	6	1	3	0	10	0	103	2	0	105	204
03:15 PM	1	1	2	0	4	0	79	18	0	97	2	0	2	0	4	0	91	4	0	95	200
03:30 PM	2	0	0	0	2	4	72	37	0	113	3	1	2	1	7	2	72	0	0	74	196
Total Volume	5	1	4	0	10	5	271	91	0	367	15	3	10	3	31	2	343	7	0	352	760
% App. Total	50	10	40	0		1.4	73.8	24.8	0		48.4	9.7	32.3	9.7		0.6	97.4	2	0		
PHF	.625	.250	.500	.000	.625	.313	.858	.615	.000	.812	.625	.750	.833	.375	.775	.250	.833	.438	.000	.838	.931

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N/S: Plaza Driveway/Union Street
 E/W: Central Street
 City, State: Holliston, MA
 Client: McM/A. Luff

File Name : 04836A
 Site Code : Y1344921
 Start Date : 12/21/2016
 Page No : 1

Groups Printed- Trucks & Buses

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
07:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
07:15 AM	0	0	0	0	0	3	1	0	0	0	0	0	0	3	0	0	7
07:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	5
07:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	5
Total	0	0	0	0	0	6	1	0	1	0	0	0	0	11	0	0	19
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	3
08:30 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	4
08:45 AM	0	0	0	0	0	1	0	0	0	0	1	0	0	5	0	0	7
Total	0	0	0	0	0	4	0	0	1	0	1	0	0	9	0	0	15
09:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
09:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
09:30 AM	0	0	0	0	0	3	0	0	0	0	1	0	0	2	0	0	6
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Total	0	0	0	0	0	6	0	0	0	0	1	0	0	6	0	0	13
10:00 AM	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
10:15 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	5
10:30 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	1	0	0	0	0	7	0	0	1	0	0	0	0	3	0	0	12
11:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	4	0	0	6
Total	0	0	1	0	0	4	0	0	0	0	0	0	0	6	0	0	11
12:00 PM	1	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	5
12:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
12:30 PM	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0	0	4
12:45 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Total	1	0	0	0	0	8	1	0	0	0	0	0	0	4	0	0	14
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
01:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	6
01:30 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	5
01:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
Total	0	0	0	0	0	6	1	0	0	0	0	0	0	8	0	0	15
02:00 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	5
02:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	6
02:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	5
02:45 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	6
Total	0	0	0	0	0	8	0	0	0	0	0	0	0	14	0	0	22
03:00 PM	0	0	0	0	0	6	1	0	0	0	0	0	0	3	0	0	10
03:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
03:30 PM	0	0	0	0	1	4	0	0	0	0	0	0	0	4	0	0	9
03:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	5
Total	0	0	0	0	1	13	1	0	0	0	0	0	0	11	0	0	26
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	3
04:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
04:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	6

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N/S: Plaza Driveway/Union Street
 E/W: Central Street
 City, State: Holliston, MA
 Client: McM/A. Luff

File Name : 04836A
 Site Code : Y1344921
 Start Date : 12/21/2016
 Page No : 2

Groups Printed- Trucks & Buses

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				Int. Total
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
05:00 PM	0	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	0
05:30 PM	0	0	0	0	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	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	2	0	1	0	1	65	4	0	3	0	2	0	0	75	0	0	153
Apprch %	66.7	0	33.3	0	1.4	92.9	5.7	0	60	0	40	0	0	100	0	0	
Total %	1.3	0	0.7	0	0.7	42.5	2.6	0	2	0	1.3	0	0	49	0	0	

	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					Int. Total
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
07:15 AM	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	3	0	0	3	7
07:30 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	5
07:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	5
Total Volume	0	0	0	0	0	0	6	1	0	7	1	0	0	0	1	0	11	0	0	11	19
% App. Total	0	0	0	0	0	0	85.7	14.3	0		100	0	0	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.500	.250	.000	.438	.250	.000	.000	.000	.250	.000	.688	.000	.000	.688	.679

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 11:45 AM

11:45 AM	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	6
12:00 PM	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	5
12:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
12:30 PM	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	4
Total Volume	1	0	1	0	2	0	6	1	0	7	0	0	0	0	0	0	8	0	0	8	17
% App. Total	50	0	50	0		0	85.7	14.3	0		0	0	0	0		0	100	0	0		
PHF	.250	.000	.250	.000	.500	.000	.750	.250	.000	.583	.000	.000	.000	.000	.000	.000	.500	.000	.000	.500	.708

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:15 PM

02:15 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	6
02:30 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	5
02:45 PM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	6
03:00 PM	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	3	0	0	3	10
Total Volume	0	0	0	0	0	0	12	1	0	13	0	0	0	0	0	0	14	0	0	14	27
% App. Total	0	0	0	0	0	0	92.3	7.7	0		0	0	0	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.500	.250	.000	.464	.000	.000	.000	.000	.000	.000	.875	.000	.000	.875	.675

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Page No : 1

[illegible]

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N/S: Plaza Driveway/Union Street
E/W: Central Street
City, State: Holliston, MA
Client: McM/A. Luff

File Name : 04836A
Site Code : Y1344921
Start Date : 12/21/2016
Page No : 2

Groups Printed- Bikes by Direction

	Central Cafe Driveway From North				Central Street From East				Union Street From South				Central Street From West				
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
05:00 PM	0	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	0
05:30 PM	0	0	0	0	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	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	2	0	0	1	0	0	0	0	1	0	0	5
Apprch %	0	100	0	0	0	100	0	0	100	0	0	0	0	100	0	0	
Total %	0	20	0	0	0	40	0	0	20	0	0	0	0	20	0	0	

[illegible]

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 10:00 AM

10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
10:45 AM	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	1	0	0	1	0	0	0	0	0	0	1	0	0	2
% App. Total	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.250	.000	.000	.500

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

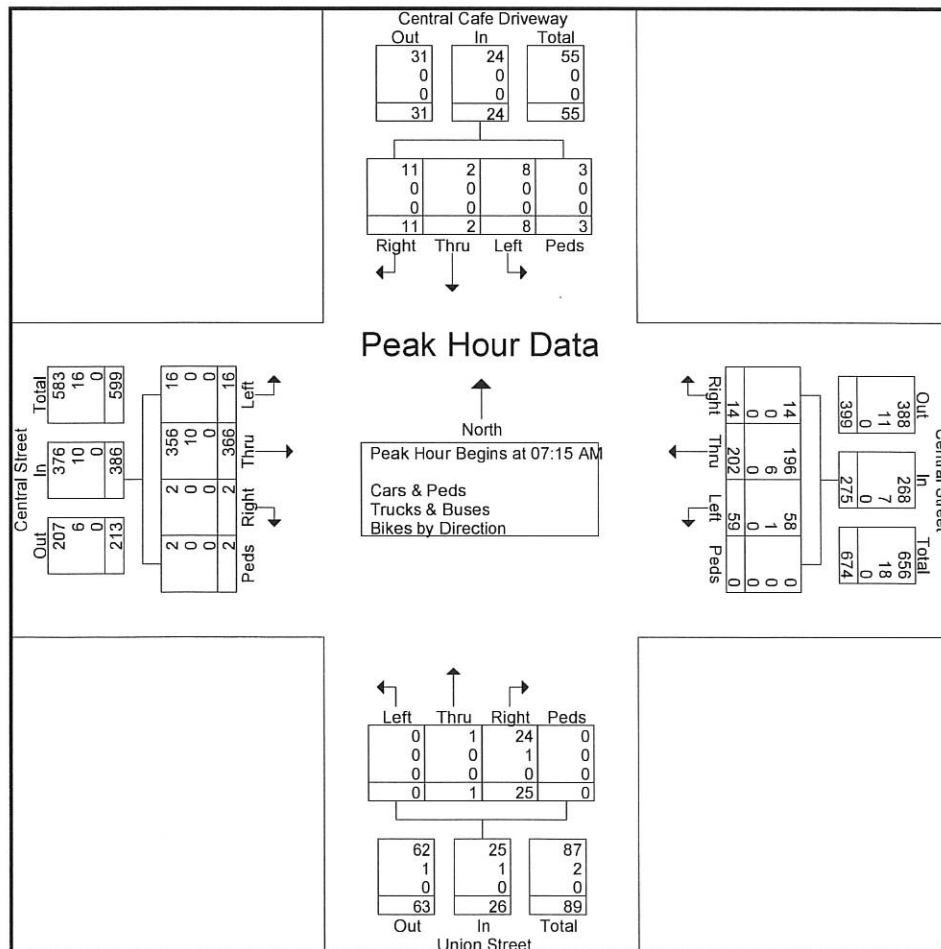
[illegible]

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N/S: Plaza Driveway/Union Street
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 Site Code : Y1344921
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	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	5	0	3	1	9	6	67	24	0	97	5	0	0	0	5	1	127	5	1	134	245
07:30 AM	3	1	1	0	5	2	41	11	0	54	7	1	0	0	8	1	74	6	1	82	149
07:45 AM	2	1	2	0	5	2	45	10	0	57	6	0	0	0	6	0	95	2	0	97	165
08:00 AM	1	0	2	2	5	4	49	14	0	67	7	0	0	0	7	0	70	3	0	73	152
Total Volume	11	2	8	3	24	14	202	59	0	275	25	1	0	0	26	2	366	16	2	386	711
% App. Total	45.8	8.3	33.3	12.5		5.1	73.5	21.5	0		96.2	3.8	0	0		0.5	94.8	4.1	0.5		
PHF	.550	.500	.667	.375	.667	.583	.754	.615	.000	.709	.893	.250	.000	.000	.813	.500	.720	.667	.500	.720	.726
Cars & Peds	11	2	8	3	24	14	196	58	0	268	24	1	0	0	25	2	356	16	2	376	693
% Cars & Peds	100	100	100	100	100	100	97.0	98.3	0	97.5	96.0	100	0	0	96.2	100	97.3	100	100	97.4	97.5
Trucks & Buses	0	0	0	0	0	0	6	1	0	7	1	0	0	0	1	0	10	0	0	10	18
% Trucks & Buses	0	0	0	0	0	0	3.0	1.7	0	2.5	4.0	0	0	0	3.8	0	2.7	0	0	2.6	2.5
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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N/S: Plaza Driveway/Union Street

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City, State: Holliston, MA

Client: McM/A. Luff

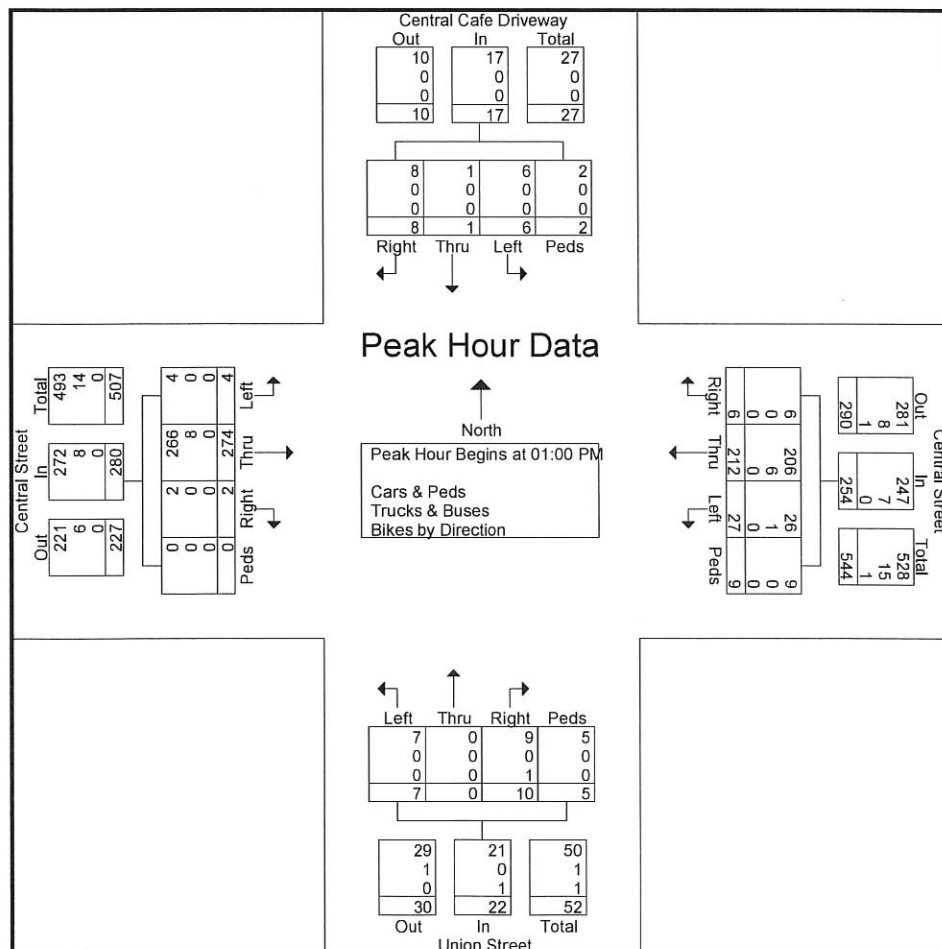
File Name : 04836A

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 2

	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	2	0	0	0	2	0	45	3	0	48	2	0	5	2	9	0	60	1	0	61	120
01:15 PM	3	0	1	1	5	2	52	4	1	59	2	0	0	2	4	1	70	0	0	71	139
01:30 PM	3	1	2	0	6	1	62	7	3	73	4	0	1	0	5	0	62	0	0	62	146
01:45 PM	0	0	3	1	4	3	53	13	5	74	2	0	1	1	4	1	82	3	0	86	168
Total Volume	8	1	6	2	17	6	212	27	9	254	10	0	7	5	22	2	274	4	0	280	573
% App. Total	47.1	5.9	35.3	11.8		2.4	83.5	10.6	3.5		45.5	0	31.8	22.7		0.7	97.9	1.4	0		
PHF	.667	.250	.500	.500	.708	.500	.855	.519	.450	.858	.625	.000	.350	.625	.611	.500	.835	.333	.000	.814	.853
Cars & Peds	8	1	6	2	17	6	206	26	9	247	9	0	7	5	21	2	266	4	0	272	557
% Cars & Peds	100	100	100	100	100	100	97.2	96.3	100	97.2	90.0	0	100	100	95.5	100	97.1	100	0	97.1	97.2
Trucks & Buses	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	8	0	0	8	15
% Trucks & Buses	0	0	0	0	0	0	2.8	3.7	0	2.8	0	0	0	0	0	0	2.9	0	0	2.9	2.6
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	10.0	0	0	0	4.5	0	0	0	0	0	0.2



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N/S: Plaza Driveway/Union Street

E/W: Central Street

City, State: Holliston, MA

Client: McM/A. Luff

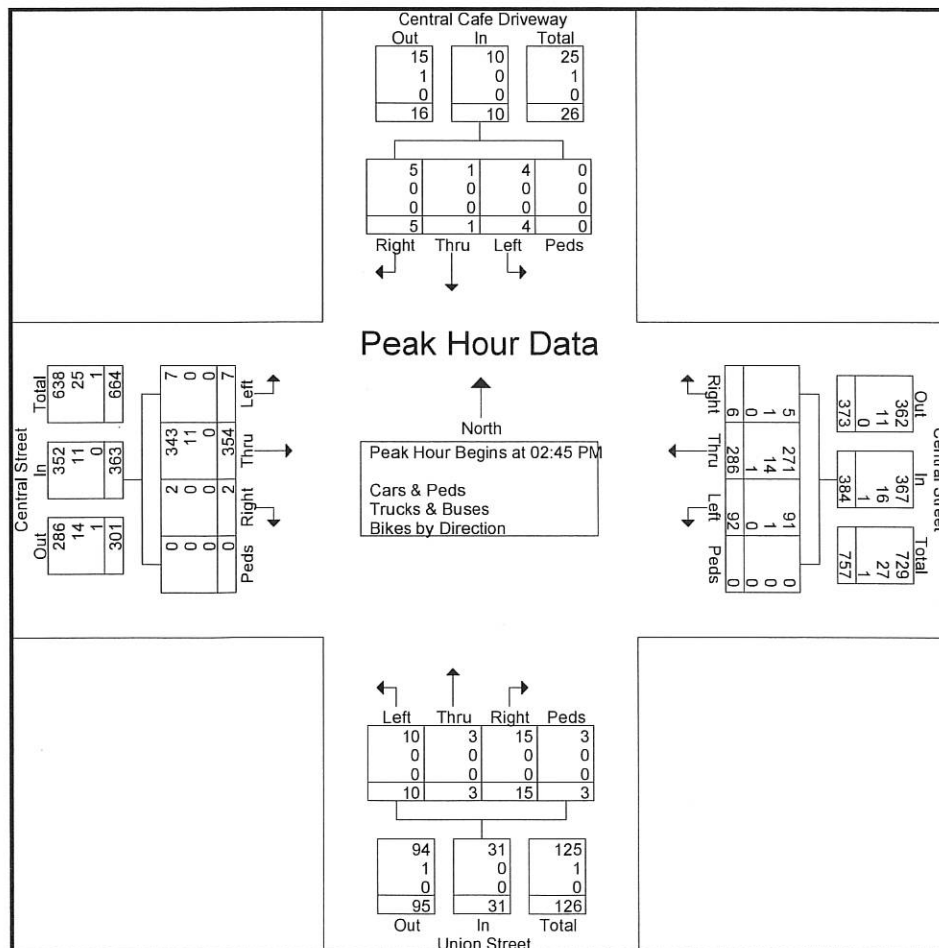
File Name : 04836A

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 3

	Central Cafe Driveway From North					Central Street From East					Union Street From South					Central Street From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:45 PM																					
02:45 PM	2	0	1	0	3	0	58	14	0	72	4	1	3	2	10	0	80	1	0	81	166
03:00 PM	0	0	1	0	1	1	71	23	0	95	6	1	3	0	10	0	106	2	0	108	214
03:15 PM	1	1	2	0	4	0	80	18	0	98	2	0	2	0	4	0	92	4	0	96	202
03:30 PM	2	0	0	0	2	5	77	37	0	119	3	1	2	1	7	2	76	0	0	78	206
Total Volume	5	1	4	0	10	6	286	92	0	384	15	3	10	3	31	2	354	7	0	363	788
% App. Total	50	10	40	0		1.6	74.5	24	0		48.4	9.7	32.3	9.7		0.6	97.5	1.9	0		
PHF	.625	.250	.500	.000	.625	.300	.894	.622	.000	.807	.625	.750	.833	.375	.775	.250	.835	.438	.000	.840	.921
Cars & Peds	5	1	4	0	10	5	271	91	0	367	15	3	10	3	31	2	343	7	0	352	760
% Cars & Peds	100	100	100	0	100	83.3	94.8	98.9	0	95.6	100	100	100	100	100	100	96.9	100	0	97.0	96.4
Trucks & Buses	0	0	0	0	0	1	14	1	0	16	0	0	0	0	0	0	11	0	0	11	27
% Trucks & Buses	0	0	0	0	0	16.7	4.9	1.1	0	4.2	0	0	0	0	0	0	3.1	0	0	3.0	3.4
Bikes by Direction	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0.1



Transportation Data Corporation

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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Woodland Street From North			Railroad Street From South			Linden Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	34	0	138	11	0	16	10	1	211
07:15 AM	2	75	0	184	24	0	46	29	0	360
07:30 AM	0	22	0	111	2	0	12	10	2	159
07:45 AM	0	53	0	167	0	0	4	12	12	248
Total	3	184	0	600	37	0	78	61	15	978
08:00 AM	3	97	0	137	0	0	11	8	0	256
08:15 AM	0	25	0	99	0	0	4	11	2	141
08:30 AM	1	60	0	135	0	0	2	15	0	213
08:45 AM	6	92	0	97	2	0	2	11	0	210
Total	10	274	0	468	2	0	19	45	2	820
09:00 AM	0	43	0	55	0	0	1	3	0	102
09:15 AM	1	29	0	66	0	0	1	4	1	102
09:30 AM	0	29	0	47	2	0	7	1	0	86
09:45 AM	0	24	0	42	0	0	1	3	0	70
Total	1	125	0	210	2	0	10	11	1	360
10:00 AM	0	23	0	42	0	0	4	2	0	71
10:15 AM	1	30	0	43	0	0	3	5	0	82
10:30 AM	0	43	0	56	0	0	4	7	0	110
10:45 AM	1	30	0	46	0	0	4	4	0	85
Total	2	126	0	187	0	0	15	18	0	348
11:00 AM	1	38	0	60	1	0	4	3	2	109
11:15 AM	0	25	0	43	1	0	1	2	0	72
11:30 AM	0	61	0	47	1	0	2	2	1	114
11:45 AM	0	50	0	43	1	0	3	2	2	101
Total	1	174	0	193	4	0	10	9	5	396
12:00 PM	0	48	0	38	0	0	4	2	0	92
12:15 PM	0	49	0	60	0	0	2	2	0	113
12:30 PM	3	45	0	58	2	0	3	2	0	113
12:45 PM	0	60	0	58	1	0	4	3	0	126
Total	3	202	0	214	3	0	13	9	0	444
01:00 PM	0	39	0	50	0	0	5	1	0	95
01:15 PM	1	39	0	35	2	0	2	5	1	85
01:30 PM	0	49	0	53	1	0	4	4	2	113
01:45 PM	4	72	0	56	3	0	5	1	1	142
Total	5	199	0	194	6	0	16	11	4	435
02:00 PM	3	79	0	58	2	0	26	7	1	176
02:15 PM	1	60	0	93	3	0	13	9	1	180
02:30 PM	0	121	0	64	2	0	6	5	1	199
02:45 PM	0	96	0	63	3	0	11	6	28	207
Total	4	356	0	278	10	0	56	27	31	762
03:00 PM	0	97	0	101	0	0	18	13	3	232
03:15 PM	1	126	0	105	2	0	15	8	4	261
03:30 PM	1	166	0	57	1	0	11	2	1	239
03:45 PM	0	104	0	41	1	0	5	4	0	155
Total	2	493	0	304	4	0	49	27	8	887
04:00 PM	1	98	0	66	0	0	2	5	0	172
04:15 PM	4	92	0	55	3	0	10	4	3	171
04:30 PM	3	118	0	36	0	0	8	7	1	173

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Client: McM/A. Luff

Page No : 2

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N/S: Woodland Street/RR Street
W: Linden Street
City, State: Holliston, MA
Client: McM/A. Luff

File Name : 04836B
Site Code : Y1344921
Start Date : 12/21/2016
Page No : 3

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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 1

Groups Printed- Cars & Peds

Start Time	Woodland Street From North			Railroad Street From South			Linden Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	34	0	125	11	0	12	10	1	194
07:15 AM	2	75	0	183	24	0	37	27	0	348
07:30 AM	0	22	0	110	2	0	12	10	2	158
07:45 AM	0	51	0	157	0	0	4	12	12	236
Total	3	182	0	575	37	0	65	59	15	936
08:00 AM	3	96	0	136	0	0	3	7	0	245
08:15 AM	0	22	0	97	0	0	2	11	2	134
08:30 AM	1	59	0	129	0	0	2	15	0	206
08:45 AM	6	85	0	93	2	0	2	10	0	198
Total	10	262	0	455	2	0	9	43	2	783
09:00 AM	0	41	0	55	0	0	1	3	0	100
09:15 AM	1	28	0	65	0	0	1	4	1	100
09:30 AM	0	28	0	45	2	0	6	1	0	82
09:45 AM	0	24	0	40	0	0	1	3	0	68
Total	1	121	0	205	2	0	9	11	1	350
10:00 AM	0	23	0	42	0	0	4	2	0	71
10:15 AM	1	28	0	42	0	0	3	5	0	79
10:30 AM	0	41	0	56	0	0	4	7	0	108
10:45 AM	1	30	0	45	0	0	4	4	0	84
Total	2	122	0	185	0	0	15	18	0	342
11:00 AM	1	38	0	57	1	0	4	3	2	106
11:15 AM	0	22	0	43	1	0	1	2	0	69
11:30 AM	0	60	0	47	1	0	2	1	1	112
11:45 AM	0	48	0	41	1	0	3	2	2	97
Total	1	168	0	188	4	0	10	8	5	384
12:00 PM	0	47	0	38	0	0	4	2	0	91
12:15 PM	0	49	0	58	0	0	2	2	0	111
12:30 PM	3	42	0	58	2	0	2	1	0	108
12:45 PM	0	59	0	58	1	0	4	3	0	125
Total	3	197	0	212	3	0	12	8	0	435
01:00 PM	0	38	0	50	0	0	5	1	0	94
01:15 PM	1	39	0	34	2	0	2	4	1	83
01:30 PM	0	49	0	50	1	0	4	3	2	109
01:45 PM	4	72	0	52	3	0	5	1	1	138
Total	5	198	0	186	6	0	16	9	4	424
02:00 PM	3	78	0	58	2	0	13	7	1	162
02:15 PM	1	58	0	90	3	0	13	9	1	175
02:30 PM	0	108	0	58	2	0	6	5	1	180
02:45 PM	0	94	0	63	3	0	11	6	28	205
Total	4	338	0	269	10	0	43	27	31	722
03:00 PM	0	97	0	95	0	0	16	12	3	223
03:15 PM	1	121	0	101	2	0	14	8	4	251
03:30 PM	1	164	0	57	1	0	11	2	1	237
03:45 PM	0	103	0	40	1	0	5	4	0	153
Total	2	485	0	293	4	0	46	26	8	864
04:00 PM	1	98	0	65	0	0	2	5	0	171
04:15 PM	4	92	0	55	3	0	10	4	3	171
04:30 PM	3	118	0	36	0	0	8	7	1	173

Transportation Data Corporation

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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 2

Groups Printed- Cars & Peds

	Woodland Street From North			Railroad Street From South			Linden Street From West			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:45 PM	4	87	0	64	2	0	18	7	0	182
Total	12	395	0	220	5	0	38	23	4	697
05:00 PM	1	131	0	49	1	0	19	7	0	208
05:15 PM	2	118	0	42	1	0	17	4	0	184
05:30 PM	1	127	0	42	0	0	20	5	0	195
05:45 PM	3	108	0	45	0	0	14	9	0	179
Total	7	484	0	178	2	0	70	25	0	766
Grand Total	50	2952	0	2966	75	0	333	257	70	6703
Apprch %	1.7	98.3	0	97.5	2.5	0	50.5	38.9	10.6	
Total %	0.7	44	0	44.2	1.1	0	5	3.8	1	

	Woodland Street From North				Railroad Street From South				Linden Street From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	2	75	0	77	183	24	0	207	37	27	0	64	348
07:30 AM	0	22	0	22	110	2	0	112	12	10	2	24	158
07:45 AM	0	51	0	51	157	0	0	157	4	12	12	28	236
08:00 AM	3	96	0	99	136	0	0	136	3	7	0	10	245
Total Volume	5	244	0	249	586	26	0	612	56	56	14	126	987
% App. Total	2	98	0		95.8	4.2	0		44.4	44.4	11.1		
PHF	.417	.635	.000	.629	.801	.271	.000	.739	.378	.519	.292	.492	.709

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:15 PM

12:15 PM	0	49	0	49	58	0	0	58	2	2	0	4	111
12:30 PM	3	42	0	45	58	2	0	60	2	1	0	3	108
12:45 PM	0	59	0	59	58	1	0	59	4	3	0	7	125
01:00 PM	0	38	0	38	50	0	0	50	5	1	0	6	94
Total Volume	3	188	0	191	224	3	0	227	13	7	0	20	438
% App. Total	1.6	98.4	0		98.7	1.3	0		65	35	0		
PHF	.250	.797	.000	.809	.966	.375	.000	.946	.650	.583	.000	.714	.876

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:45 PM

02:45 PM	0	94	0	94	63	3	0	66	11	6	28	45	205
03:00 PM	0	97	0	97	95	0	0	95	16	12	3	31	223
03:15 PM	1	121	0	122	101	2	0	103	14	8	4	26	251
03:30 PM	1	164	0	165	57	1	0	58	11	2	1	14	237
Total Volume	2	476	0	478	316	6	0	322	52	28	36	116	916
% App. Total	0.4	99.6	0		98.1	1.9	0		44.8	24.1	31		
PHF	.500	.726	.000	.724	.782	.500	.000	.782	.813	.583	.321	.644	.912

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City, State: Holliston, MA
Client: McM/A. Luff

File Name : 04836B
Site Code : Y1344921
Start Date : 12/21/2016
Page No : 1

Groups Printed- Trucks & Buses

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W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 2

Groups Printed- Trucks & Buses

Start Time	Woodland Street From North			Railroad Street From South			Linden Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	1
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
Grand Total	0	55	0	80	0	0	41	9	0	185
Apprch %	0	100	0	100	0	0	82	18	0	
Total %	0	29.7	0	43.2	0	0	22.2	4.9	0	

	Woodland Street From North				Railroad Street From South				Linden Street From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	0	0	0	0	13	0	0	13	4	0	0	4	17
07:15 AM	0	0	0	0	1	0	0	1	9	2	0	11	12
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
07:45 AM	0	2	0	2	10	0	0	10	0	0	0	0	12
Total Volume	0	2	0	2	25	0	0	25	13	2	0	15	42
% App. Total	0	100	0		100	0	0		86.7	13.3	0		
PHF	.000	.250	.000	.250	.481	.000	.000	.481	.361	.250	.000	.341	.618

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 11:00 AM

11:00 AM	0	0	0	0	3	0	0	3	0	0	0	0	3
11:15 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
11:30 AM	0	1	0	1	0	0	0	0	0	1	0	1	2
11:45 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
Total Volume	0	6	0	6	5	0	0	5	0	1	0	1	12
% App. Total	0	100	0		100	0	0		0	100	0		
PHF	.000	.500	.000	.500	.417	.000	.000	.417	.000	.250	.000	.250	.750

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:30 PM

02:30 PM	0	11	0	11	6	0	0	6	0	0	0	0	17
02:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
03:00 PM	0	0	0	0	6	0	0	6	2	1	0	3	9
03:15 PM	0	5	0	5	4	0	0	4	1	0	0	1	10
Total Volume	0	18	0	18	16	0	0	16	3	1	0	4	38
% App. Total	0	100	0		100	0	0		75	25	0		
PHF	.000	.409	.000	.409	.667	.000	.000	.667	.375	.250	.000	.333	.559

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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 2

Groups Printed- Bikes by Direction

	Woodland Street From North			Railroad Street From South			Linden Street From West			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
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
Grand Total	0	5	0	1	0	0	0	0	0	6
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	83.3	0	16.7	0	0	0	0	0	

	Woodland Street From North			Railroad Street From South			Linden Street From West			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 10:00 AM

10:00 AM	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	1	0	1	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	0	0	0	0	0	1
% App. Total	0	100	0	100	0	0	0	0	0	
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.250

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

02:00 PM	0	1	0	1	0	0	0	0	0	1
02:15 PM	0	1	0	1	0	0	0	0	0	1
02:30 PM	0	2	0	2	0	0	0	0	0	2
02:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	4	0	4	0	0	0	0	0	4
% App. Total	0	100	0	100	0	0	0	0	0	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.500

Transportation Data Corporation

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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

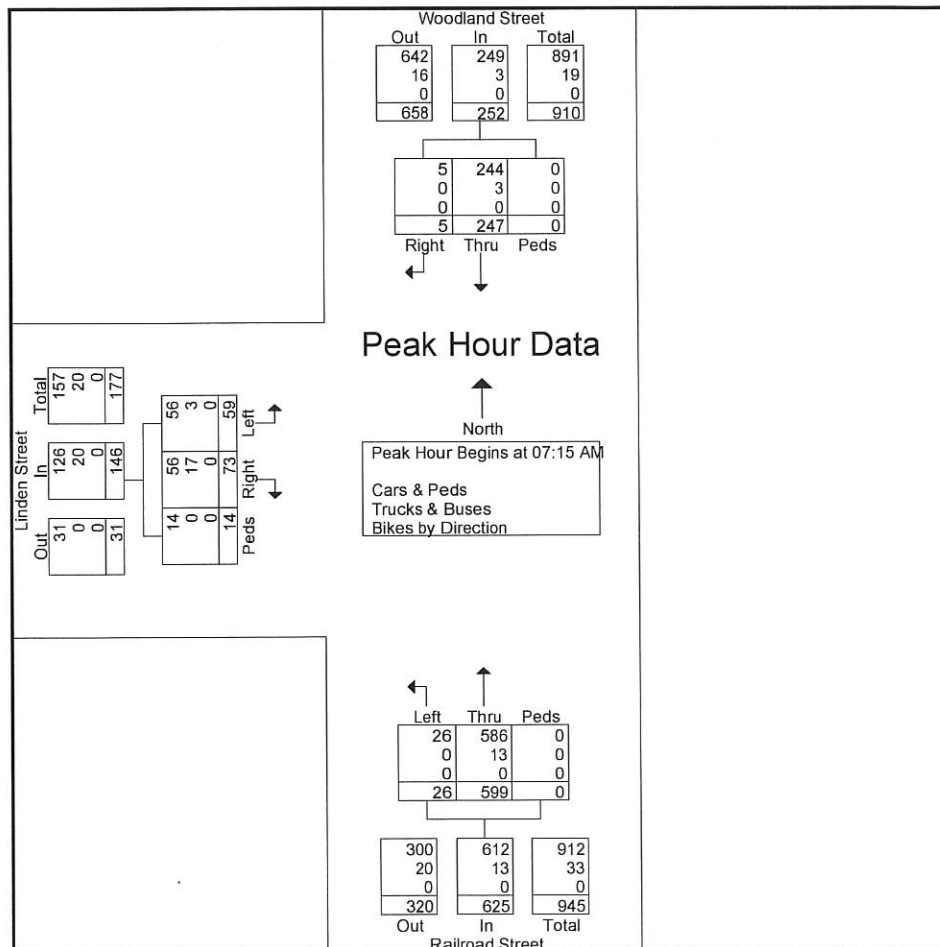
File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 1

	Woodland Street From North				Railroad Street From South				Linden Street From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	2	75	0	77	184	24	0	208	46	29	0	75	360
07:30 AM	0	22	0	22	111	2	0	113	12	10	2	24	159
07:45 AM	0	53	0	53	167	0	0	167	4	12	12	28	248
08:00 AM	3	97	0	100	137	0	0	137	11	8	0	19	256
Total Volume	5	247	0	252	599	26	0	625	73	59	14	146	1023
% App. Total	2	98	0		95.8	4.2	0		50	40.4	9.6		
PHF	.417	.637	.000	.630	.814	.271	.000	.751	.397	.509	.292	.487	.710
Cars & Peds	5	244	0	249	586	26	0	612	56	56	14	126	987
% Cars & Peds	100	98.8	0	98.8	97.8	100	0	97.9	76.7	94.9	100	86.3	96.5
Trucks & Buses	0	3	0	3	13	0	0	13	17	3	0	20	36
% Trucks & Buses	0	1.2	0	1.2	2.2	0	0	2.1	23.3	5.1	0	13.7	3.5
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0



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N/S: Woodland Street/RR Street

W: Linden Street

City, State: Holliston, MA

Client: McM/A. Luff

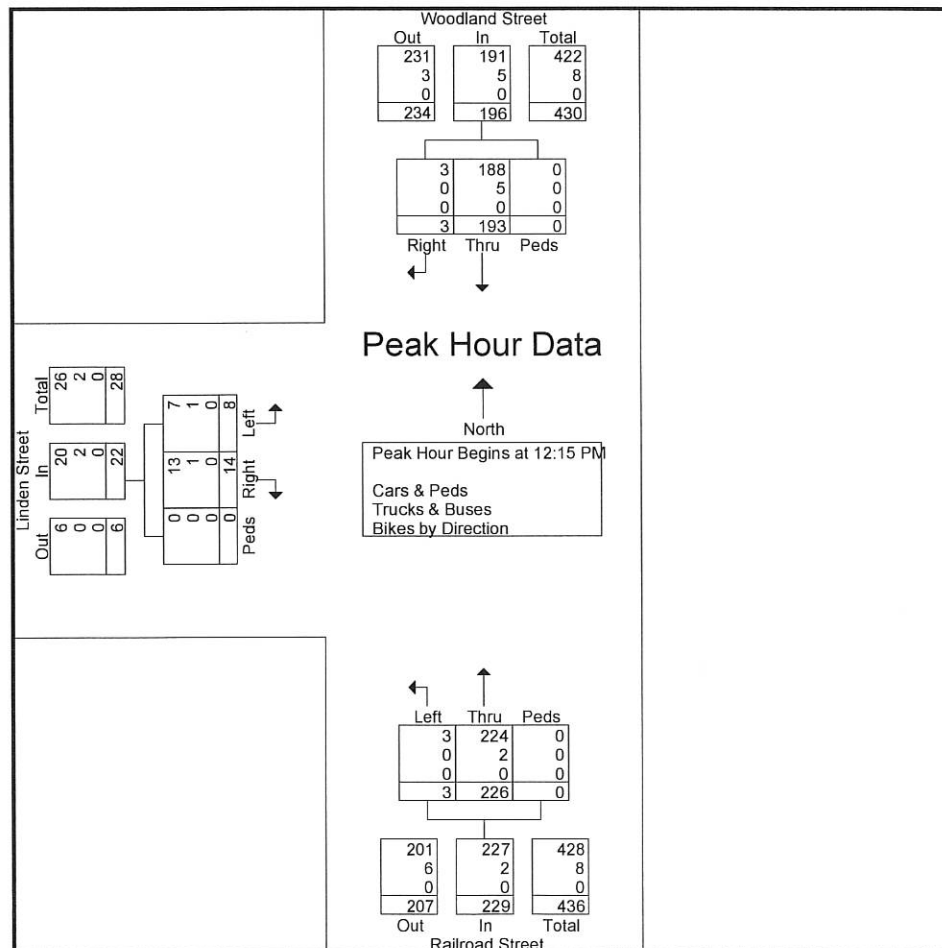
File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 2

	Woodland Street From North				Railroad Street From South				Linden Street From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 12:15 PM													
12:15 PM	0	49	0	49	60	0	0	60	2	2	0	4	113
12:30 PM	3	45	0	48	58	2	0	60	3	2	0	5	113
12:45 PM	0	60	0	60	58	1	0	59	4	3	0	7	126
01:00 PM	0	39	0	39	50	0	0	50	5	1	0	6	95
Total Volume	3	193	0	196	226	3	0	229	14	8	0	22	447
% App. Total	1.5	98.5	0		98.7	1.3	0		63.6	36.4	0		
PHF	.250	.804	.000	.817	.942	.375	.000	.954	.700	.667	.000	.786	.887
Cars & Peds	3	188	0	191	224	3	0	227	13	7	0	20	438
% Cars & Peds	100	97.4	0	97.4	99.1	100	0	99.1	92.9	87.5	0	90.9	98.0
Trucks & Buses	0	5	0	5	2	0	0	2	1	1	0	2	9
% Trucks & Buses	0	2.6	0	2.6	0.9	0	0	0.9	7.1	12.5	0	9.1	2.0
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0



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City, State: Holliston, MA

Client: McM/A. Luff

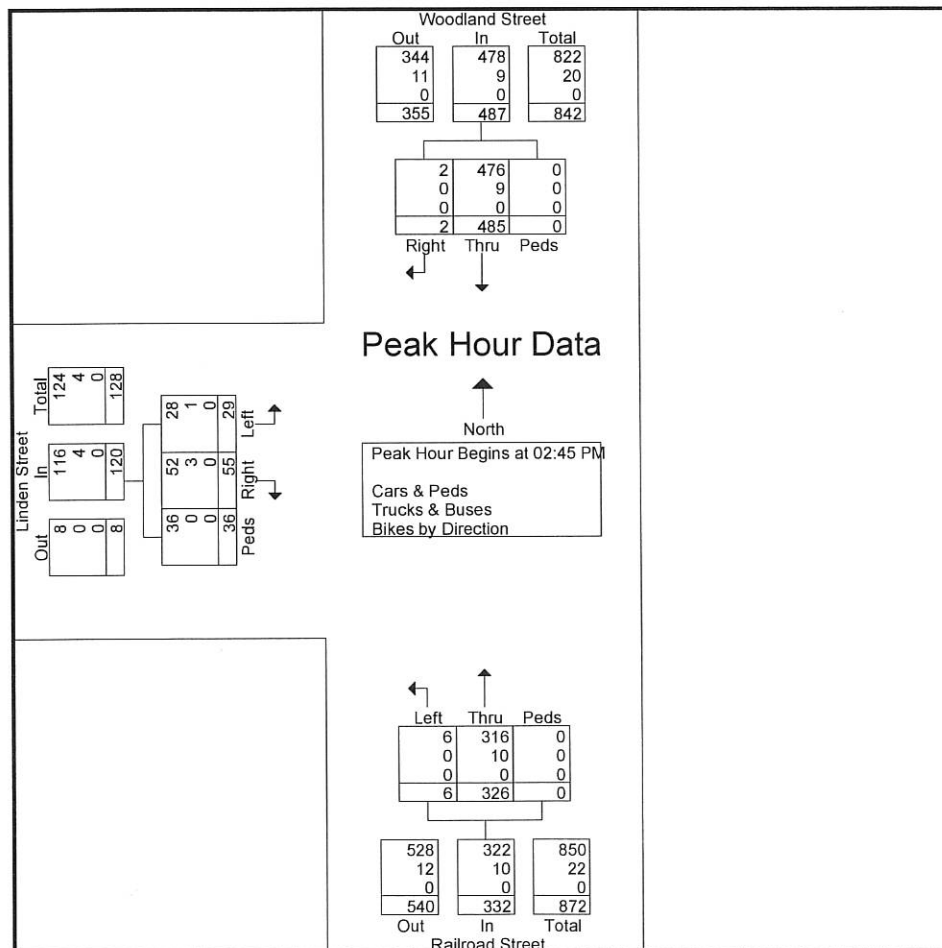
File Name : 04836B

Site Code : Y1344921

Start Date : 12/21/2016

Page No : 3

	Woodland Street From North				Railroad Street From South				Linden Street From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM													
02:45 PM	0	96	0	96	63	3	0	66	11	6	28	45	207
03:00 PM	0	97	0	97	101	0	0	101	18	13	3	34	232
03:15 PM	1	126	0	127	105	2	0	107	15	8	4	27	261
03:30 PM	1	166	0	167	57	1	0	58	11	2	1	14	239
Total Volume	2	485	0	487	326	6	0	332	55	29	36	120	939
% App. Total	0.4	99.6	0		98.2	1.8	0		45.8	24.2	30		
PHF	.500	.730	.000	.729	.776	.500	.000	.776	.764	.558	.321	.667	.899
Cars & Peds	2	476	0	478	316	6	0	322	52	28	36	116	916
% Cars & Peds	100	98.1	0	98.2	96.9	100	0	97.0	94.5	96.6	100	96.7	97.6
Trucks & Buses	0	9	0	9	10	0	0	10	3	1	0	4	23
% Trucks & Buses	0	1.9	0	1.8	3.1	0	0	3.0	5.5	3.4	0	3.3	2.4
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0



tel (781) 587-0086 cell (781) 439-4999

Site Code: Y-13449.21

Client: McM/A. Luff

Start Time	20-Dec-16		EB		WB		Combined		21-Dec Wed	EB		WB		Combined	
	Tue		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00		0	2		0	12	0	14		0	10	0	6	0	16
12:15		0	6		0	3	0	9		0	3	0	5	0	8
12:30		0	2		0	5	0	7		0	1	0	3	0	4
12:45		0	2		0	11	0	13		0	2	0	7	0	9
01:00		0	2		0	6	0	8		0	6	1	6	1	12
01:15		0	3		0	5	0	8		0	0	0	10	0	10
01:30		0	5		0	6	0	11		0	4	0	5	0	9
01:45		0	2		0	7	0	9		0	2	0	21	0	23
02:00		0	2		0	8	0	10		0	7	0	7	0	14
02:15		0	3		0	10	0	13		0	3	0	7	0	10
02:30		0	8		0	6	0	14		0	2	0	7	0	9
02:45		0	4		0	8	0	12		0	3	0	6	0	9
03:00		0	7		0	12	0	19		0	2	0	12	0	14
03:15		0	6		0	8	0	14		0	5	0	12	0	17
03:30		0	2		0	9	0	11		0	2	0	14	0	16
03:45		0	4		0	8	0	12		0	5	0	9	0	14
04:00		0	1		0	14	0	15		0	2	0	5	0	7
04:15		0	2		0	9	0	11		0	7	0	5	0	12
04:30		0	3		0	5	0	8		1	2	1	10	2	12
04:45		0	2		0	10	0	12		0	3	0	10	0	13
05:00		0	6		0	14	0	20		0	4	0	10	0	14
05:15		0	3		0	12	0	15		0	6	1	13	1	19
05:30		0	1		0	7	0	8		0	1	1	9	1	10
05:45		0	2		1	8	1	10		0	7	0	5	0	12
06:00		0	2		1	10	1	12		0	3	0	2	0	5
06:15		0	5		0	8	0	13		0	6	0	8	0	14
06:30		0	3		1	7	1	10		1	0	1	3	2	3
06:45		2	1		5	4	7	5		1	2	6	2	7	4
07:00		0	2		3	3	3	5		0	3	5	4	5	7
07:15		6	3		8	3	14	6		2	2	11	3	13	5
07:30		1	0		8	1	9	1		5	3	8	3	13	6
07:45		0	0		9	3	9	3		2	1	7	3	9	4
08:00		4	1		10	1	14	2		1	2	6	1	7	3
08:15		0	3		4	2	4	5		3	1	3	2	6	3
08:30		5	2		11	2	16	4		2	2	8	3	10	5
08:45		3	1		7	1	10	2		2	1	12	0	14	1
09:00		0	2		6	3	6	5		6	0	14	2	20	2
09:15			1		4	0	5	2		2	1	8	0	10	1
09:30			5		6	0	11	0		4	1	8	2	12	3
09:45			5		6	0	11	0		4	1	6	0	10	1
10:00			6		5	1	11	1		6	0	8	2	14	2
10:15		0	1		5	2	5	3		5	4	5	1	10	5
10:30		1	0		4	0	5	0		2	0	4	1	6	1
10:45		4	1		3	0	7	1		4	2	10	0	14	2
11:00		3	0		8	0	11	0		10	0	6	0	16	0
11:15		5	0		6	1	11	1		4	0	10	1	14	1
11:30		0	1		10	0	10	1		2	0	15	1	17	1
11:45		4	0		4	0	8	0		3	0	10	1	13	1
Total		55	110		135	255	190	365		72	124	175	249	247	373
Day Total		165		390		555			196		424		620		
% Total		9.9%	19.8%		24.3%	45.9%			11.6%	20.0%		28.2%	40.2%		
Peak	-	09:15	02:30		07:15	04:45	07:15	02:30	-	10:15	05:00	08:30	03:00	10:45	03:00
Vol.	-	17	25		35	43	46	59	-	21	18	42	47	61	61
P.H.F.		0.708	0.781		0.875	0.768	0.821	0.776		0.525	0.643	0.750	0.839	0.763	0.663
ADT	ADT 588	AADT 588													

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Page 1

School Street just east of
Washington Street (Route 126)
City, State: Holliston, MA
Client: McM/A. Luff

04836A volume
Site Code: Y-13449.21

Start Time	20-Dec-16 Tue	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	2			0	12				
12:15		0	6			0	3				
12:30		0	2			0	5				
12:45		0	2	0	12	0	11	0	31	0	43
01:00		0	2			0	6				
01:15		0	3			0	5				
01:30		0	5			0	6				
01:45		0	2	0	12	0	7	0	24	0	36
02:00		0	2			0	8				
02:15		0	3			0	10				
02:30		0	8			0	6				
02:45		0	4	0	17	0	8	0	32	0	49
03:00		0	7			0	12				
03:15		0	6			0	8				
03:30		0	2			0	9				
03:45		0	4	0	19	0	8	0	37	0	56
04:00		0	1			0	14				
04:15		0	2			0	9				
04:30		0	3			0	5				
04:45		0	2	0	8	0	10	0	38	0	46
05:00		0	6			0	14				
05:15		0	3			0	12				
05:30		0	1			0	7				
05:45		0	2	0	12	1	8	1	41	1	53
06:00		0	2			1	10				
06:15		0	5			0	8				
06:30		0	3			1	7				
06:45		2	1	2	11	5	4	7	29	9	40
07:00		0	2			3	3				
07:15		6	3			8	3				
07:30		1	0			8	1				
07:45		0	0	7	5	9	3	28	10	35	15
08:00		4	1			10	1				
08:15		0	3			4	2				
08:30		5	2			11	2				
08:45		3	1	12	7	7	1	32	6	44	13
09:00		0	2			6	3				
09:15		1	2			4	0				
09:30		5	0			6	0				
09:45		5	0	11	4	6	0	22	3	33	7
10:00		6	0			5	1				
10:15		0	1			5	2				
10:30		1	0			4	0				
10:45		4	1	11	2	3	0	17	3	28	5
11:00		3	0			8	0				
11:15		5	0			6	1				
11:30		0	1			10	0				
11:45		4	0	12	1	4	0	28	1	40	2
Total		55	110			135	255			190	365
Combined Total		165				390				555	
Percentage	0.0%										

Transportation Data Corporation

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Page 2

School Street just east of
Washington Street (Route 126)

City, State: Holliston, MA

Client: McM/A. Luff

04836Avolume

Site Code: Y-13449.21

Start Time	21-Dec-16 Wed	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	10			0	6				
12:15		0	3			0	5				
12:30		0	1			0	3				
12:45		0	2	0	16	0	7	0	21	0	37
01:00		0	6			1	6				
01:15		0	0			0	10				
01:30		0	4			0	5				
01:45		0	2	0	12	0	21	1	42	1	54
02:00		0	7			0	7				
02:15		0	3			0	7				
02:30		0	2			0	7				
02:45		0	3	0	15	0	6	0	27	0	42
03:00		0	2			0	12				
03:15		0	5			0	12				
03:30		0	2			0	14				
03:45		0	5	0	14	0	9	0	47	0	61
04:00		0	2			0	5				
04:15		0	7			0	5				
04:30		1	2			1	10				
04:45		0	3	1	14	0	10	1	30	2	44
05:00		0	4			0	10				
05:15		0	6			1	13				
05:30		0	1			1	9				
05:45		0	7	0	18	0	5	2	37	2	55
06:00		0	3			0	2				
06:15		0	6			0	8				
06:30		1	0			1	3				
06:45		1	2	2	11	6	2	7	15	9	26
07:00		0	3			5	4				
07:15		2	2			11	3				
07:30		5	3			8	3				
07:45		2	1	9	9	7	3	31	13	40	22
08:00		1	2			6	1				
08:15		3	1			3	2				
08:30		2	2			8	3				
08:45		2	1	8	6	12	0	29	6	37	12
09:00		6	0			14	2				
09:15		2	1			8	0				
09:30		4	1			8	2				
09:45		4	1	16	3	6	0	36	4	52	7
10:00		6	0			8	2				
10:15		5	4			5	1				
10:30		2	0			4	1				
10:45		4	2	17	6	10	0	27	4	44	10
11:00		10	0			6	0				
11:15		4	0			10	1				
11:30		2	0			15	1				
11:45		3	0	19	0	10	1	41	3	60	3
Total		72	124			175	249			247	373
Combined Total			196				424				620
Percentage	0.0%										
Total Percent		127	234			310	504			437	738
		35.2%	64.8%			38.1%	61.9%			37.2%	62.8%
ADT		ADT 588		AADT 588							

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Pleasant Street just east of
Washington Street (Route 126)
City, State: Holliston, MA
Client: McM/A. Luff

04836Bvolume
Site Code: Y-13449.21

Start Time	20-Dec-16		EB		WB		Combined		21-Dec		EB		WB		Combined	
	Tue		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Wed		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00		0	5	0	10	0	15		0	2	0	10	0	12		
12:15		3	6	2	4	5	10		0	2	0	8	0	10		
12:30		0	2	2	10	2	12		0	2	0	9	0	11		
12:45		0	4	0	10	0	14		0	4	0	9	0	13		
01:00		0	4	0	12	0	16		0	1	1	4	1	5		
01:15		0	2	0	4	0	6		0	4	0	10	0	14		
01:30		0	2	0	4	0	6		0	2	0	6	0	8		
01:45		0	6	0	5	0	11		0	3	0	2	0	5		
02:00		0	3	0	7	0	10		0	3	0	13	0	16		
02:15		0	9	0	8	0	17		0	1	0	10	0	11		
02:30		0	5	0	15	0	20		0	2	0	17	0	19		
02:45		0	4	0	13	0	17		0	6	0	15	0	21		
03:00		0	1	0	7	0	8		0	4	0	8	0	12		
03:15		0	6	0	15	0	21		0	4	0	19	0	23		
03:30		0	2	0	16	0	18		0	7	0	22	0	29		
03:45		0	6	0	22	0	28		0	4	0	15	0	19		
04:00		0	5	1	14	1	19		0	5	0	25	0	30		
04:15		0	3	0	12	0	15		0	4	0	18	0	22		
04:30		0	2	1	11	1	13		1	4	0	16	1	20		
04:45		0	1	0	9	0	10		0	4	1	16	1	20		
05:00		0	4	0	20	0	24		0	6	0	18	0	24		
05:15		0	2	1	19	1	21		0	2	0	16	0	18		
05:30		0	5	0	14	0	19		0	8	3	14	3	22		
05:45		1	2	1	18	2	20		0	5	0	17	0	22		
06:00		2	4	0	4	2	8		2	1	1	12	3	13		
06:15		2	6	1	10	3	16		3	2	1	10	4	12		
06:30		0	3	4	18	4	21		2	5	4	6	6	11		
06:45		7	2	4	5	11	7		2	2	2	4	4	6		
07:00		4	1	4	2	8	3		7	0	1	2	8	2		
07:15		12	2	14	15	26	17		8	1	11	2	19	3		
07:30		5	2	3	3	8	5		8	2	8	3	16	5		
07:45		3	1	7	3	10	4		8	1	7	4	15	5		
08:00		1	4	9	2	10	6		2	1	10	0	12	1		
08:15		2	4	4	1	6	5		2	1	5	3	7	4		
08:30		4	1	8	1	12	2		3	1	9	2	12	3		
08:45		7	1	16	2	23	3		5	1	6	1	11	2		
09:00		2	2	7	4	9	6		4	4	6	3	10	7		
09:15		2	2	4	1	6	3		0	1	2	2	2	3		
09:30		1	0	2	0	3	0		0	0	6	2	6	2		
09:45		2	1	8	0	10	1		3	1	6	0	9	1		
10:00		1	1	6	2	7	3		1	2	7	0	8	2		
10:15		1	1	1	0	2	1		5	1	6	1	11	2		
10:30		3	0	7	0	10	0		6	2	7	0	13	2		
10:45		2	0	6	1	8	1		4	0	6	0	10	0		
11:00		3	1	3	2	6	3		4	4	6	4	10	8		
11:15		2	0	7	0	9	0		2	0	1	1	3	1		
11:30		2	0	10	0	12	0		2	0	5	1	7	1		
11:45		4	0	4	1	8	1		2	1	6	1	8	2		
Total		78	130	147	356	225	486		86	123	134	381	220	504		
Day Total		208		503		711			209		515		724			
% Total		11.0%	18.3%	20.7%	50.1%				11.9%	17.0%	18.5%	52.6%				
Peak	-	06:45	01:45	08:00	05:00	07:15	03:15	-	07:00	02:45	07:15	03:15	07:15	03:15		
Vol.	-	28	23	37	71	54	86	-	31	21	36	81	62	101		
P.H.F.		0.583	0.639	0.578	0.807	0.519	0.768		0.969	0.750	0.818	0.810	0.816	0.842		
ADT		ADT 718		AADT 718												

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Page 1

Pleasant Street just east of
Washington Street (Route 126)
City, State: Holliston, MA
Client: McM/A. Luff

04836Bvolume
Site Code: Y-13449.21

Start Time	20-Dec-16 Tue	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	5			0	10				
12:15		3	6			2	4				
12:30		0	2			2	10				
12:45		0	4	3	17	0	10	4	34	7	51
01:00		0	4			0	12				
01:15		0	2			0	4				
01:30		0	2			0	4				
01:45		0	6	0	14	0	5	0	25	0	39
02:00		0	3			0	7				
02:15		0	9			0	8				
02:30		0	5			0	15				
02:45		0	4	0	21	0	13	0	43	0	64
03:00		0	1			0	7				
03:15		0	6			0	15				
03:30		0	2			0	16				
03:45		0	6	0	15	0	22	0	60	0	75
04:00		0	5			1	14				
04:15		0	3			0	12				
04:30		0	2			1	11				
04:45		0	1	0	11	0	9	2	46	2	57
05:00		0	4			0	20				
05:15		0	2			1	19				
05:30		0	5			0	14				
05:45		1	2	1	13	1	18	2	71	3	84
06:00		2	4			0	4				
06:15		2	6			1	10				
06:30		0	3			4	18				
06:45		7	2	11	15	4	5	9	37	20	52
07:00		4	1			4	2				
07:15		12	2			14	15				
07:30		5	2			3	3				
07:45		3	1	24	6	7	3	28	23	52	29
08:00		1	4			9	2				
08:15		2	4			4	1				
08:30		4	1			8	1				
08:45		7	1	14	10	16	2	37	6	51	16
09:00		2	2			7	4				
09:15		2	2			4	1				
09:30		1	0			2	0				
09:45		2	1	7	5	8	0	21	5	28	10
10:00		1	1			6	2				
10:15		1	1			1	0				
10:30		3	0			7	0				
10:45		2	0	7	2	6	1	20	3	27	5
11:00		3	1			3	2				
11:15		2	0			7	0				
11:30		2	0			10	0				
11:45		4	0	11	1	4	1	24	3	35	4
Total		78	130			147	356			225	486
Combined Total		208				503				711	
Percentage	0.0%										

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Page 2

Pleasant Street just east of
 Washington Street (Route 126)
 City, State: Holliston, MA
 Client: McM/A. Luff

04836Bvolume
 Site Code: Y-13449.21

Start Time	21-Dec-16 Wed	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	2			0	10				
12:15		0	2			0	8				
12:30		0	2			0	9				
12:45		0	4	0	10	0	9	0	36	0	46
01:00		0	1			1	4				
01:15		0	4			0	10				
01:30		0	2			0	6				
01:45		0	3	0	10	0	2	1	22	1	32
02:00		0	3			0	13				
02:15		0	1			0	10				
02:30		0	2			0	17				
02:45		0	6	0	12	0	15	0	55	0	67
03:00		0	4			0	8				
03:15		0	4			0	19				
03:30		0	7			0	22				
03:45		0	4	0	19	0	15	0	64	0	83
04:00		0	5			0	25				
04:15		0	4			0	18				
04:30		1	4			0	16				
04:45		0	4	1	17	1	16	1	75	2	92
05:00		0	6			0	18				
05:15		0	2			0	16				
05:30		0	8			3	14				
05:45		0	5	0	21	0	17	3	65	3	86
06:00		2	1			1	12				
06:15		3	2			1	10				
06:30		2	5			4	6				
06:45		2	2	9	10	2	4	8	32	17	42
07:00		7	0			1	2				
07:15		8	1			11	2				
07:30		8	2			8	3				
07:45		8	1	31	4	7	4	27	11	58	15
08:00		2	1			10	0				
08:15		2	1			5	3				
08:30		3	1			9	2				
08:45		5	1	12	4	6	1	30	6	42	10
09:00		4	4			6	3				
09:15		0	1			2	2				
09:30		0	0			6	2				
09:45		3	1	7	6	6	0	20	7	27	13
10:00		1	2			7	0				
10:15		5	1			6	1				
10:30		6	2			7	0				
10:45		4	0	16	5	6	0	26	1	42	6
11:00		4	4			6	4				
11:15		2	0			1	1				
11:30		2	0			5	1				
11:45		2	1	10	5	6	1	18	7	28	12
Total		86	123			134	381			220	504
Combined Total			209				515				724
Percentag e	0.0%										
Total Percent		164 39.3%	253 60.7%			281 27.6%	737 72.4%			445 31.0%	990 69.0%
ADT		ADT 718		AADT 718							

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Page 1

Spring Street just east of
Washington Street (Route 126)
City, State: Holliston, MA
Client: McM/A. Luff

04836Cvolume
Site Code: Y-13449.21

Start Time	20-Dec-16		EB		WB		Combined		21-Dec		EB		WB		Combined		
	Tue		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Wed		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00		0	0		0	1	0	1			0	1	0	0	0	1	
12:15		0	1		0	0	0	1			1	0	0	0	1	0	
12:30		1	2		0	2	1	4			0	1	0	0	0	1	
12:45		0	0		0	0	0	0			0	0	0	0	0	0	
01:00		0	0		0	0	0	0			0	0	0	0	0	0	
01:15		0	1		0	0	0	1			0	0	0	1	0	1	
01:30		0	0		0	0	0	0			0	2	0	1	0	3	
01:45		0	0		0	1	0	1			0	0	0	2	0	2	
02:00		0	2		0	1	0	3			0	1	0	2	0	3	
02:15		0	1		0	0	0	1			0	1	0	0	0	1	
02:30		0	0		0	0	0	0			0	0	0	0	0	0	
02:45		0	0		0	1	0	1			0	1	0	0	0	1	
03:00		0	1		0	0	0	1			0	0	0	0	0	0	
03:15		0	0		0	1	0	1			0	1	0	1	0	2	
03:30		0	0		0	3	0	3			0	1	0	2	0	3	
03:45		0	2		0	2	0	4			0	1	0	1	0	2	
04:00		0	1		0	2	0	3			0	0	0	0	0	0	
04:15		0	0		0	1	0	1			0	2	0	1	0	3	
04:30		0	0		0	1	0	1			0	0	0	2	0	2	
04:45		0	0		0	1	0	1			0	1	0	2	0	3	
05:00		0	2		0	2	0	4			0	0	0	1	0	1	
05:15		0	0		0	1	0	1			0	2	0	2	0	4	
05:30		0	0		0	1	0	1			0	1	0	1	0	2	
05:45		0	0		0	1	2	1			0	2	0	3	0	5	
06:00		0	1		0	0	0	1			0	0	1	1	1	1	
06:15		0	1		0	0	0	1			0	0	0	1	0	1	
06:30		2	2		2	1	4	3			0	2	0	2	0	4	
06:45		0	1		0	0	0	1			0	1	2	1	2	2	
07:00		0	0		1	0	1	0			0	0	0	1	0	1	
07:15		1	1		4	0	5	1			1	0	2	0	3	0	
07:30		1	0		1	1	2	1			1	0	0	2	1	2	
07:45		0	0		0	0	0	0			0	2	1	0	1	2	
08:00		0	0		1	0	1	0			2	0	0	0	2	0	
08:15		2	0		0	0	2	0			1	1	0	0	1	1	
08:30		0	0		3	0	3	0			1	0	1	0	2	0	
08:45		0	0		1	0	1	0			0	0	1	0	1	0	
09:00		0	0		0	0	0	0			0	1	0	0	0	1	
09:15		0	1		0	0	0	1			0	0	1	0	1	0	
09:30		0	0		0	0	0	0			0	0	2	0	2	0	
09:45		1	0		0	0	1	0			2	1	0	1	2	2	
10:00		0	0		0	0	0	0			0	0	1	0	1	0	
10:15		0	0		0	0	0	0			1	1	1	1	2	2	
10:30		0	0		1	0	1	0			0	0	1	0	1	0	
10:45		2	0		0	0	2	0			1	0	0	1	1	1	
11:00		0	0		1	0	1	0			0	0	0	0	0	0	
11:15		1	0		0	0	1	0			1	0	1	1	2	1	
11:30		0	0		1	0	1	0			0	0	4	2	4	2	
11:45		1	0		1	0	2	0			0	0	0	0	0	0	
Total		12	20		19	24	31	44			12	27	19	36	31	63	
Day Total			32		43		75				39		55		94		
% Total		16.0%	26.7%		32.0%						12.8%	28.7%		20.2%	38.3%		
Peak	-	06:30	06:00		06:30	03:15	06:30	03:15	-		07:15	05:00		10:45	04:30	07:15	05:00
Vol.	-	3	5		7	8	10	11	-		4	5		5	7	7	12
P.H.F.		0.375	0.625		0.438	0.667	0.500	0.688			0.500	0.625		0.313	0.875	0.583	0.600
ADT		ADT 84		AADT 84													

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Spring Street just east of
Washington Street (Route 126)
City, State: Holliston, MA
Client: McM/A. Luff

04836Cvolume
Site Code: Y-13449.21

Start Time	20-Dec-16 Tue	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	1				
12:15		0	1			0	0				
12:30		1	2			0	2				
12:45		0	0	1	3	0	0	0	3	1	6
01:00		0	0			0	0				
01:15		0	1			0	0				
01:30		0	0			0	0				
01:45		0	0	0	1	0	1	0	1	0	2
02:00		0	2			0	1				
02:15		0	1			0	0				
02:30		0	0			0	0				
02:45		0	0	0	3	0	1	0	2	0	5
03:00		0	1			0	0				
03:15		0	0			0	1				
03:30		0	0			0	3				
03:45		0	2	0	3	0	2	0	6	0	9
04:00		0	1			0	2				
04:15		0	0			0	1				
04:30		0	0			0	1				
04:45		0	0	0	1	0	1	0	5	0	6
05:00		0	2			0	2				
05:15		0	0			0	1				
05:30		0	0			0	1				
05:45		0	0	0	2	2	1	2	5	2	7
06:00		0	1			0	0				
06:15		0	1			0	0				
06:30		2	2			2	1				
06:45		0	1	2	5	0	0	2	1	4	6
07:00		0	0			1	0				
07:15		1	1			4	0				
07:30		1	0			1	1				
07:45		0	0	2	1	0	0	6	1	8	2
08:00		0	0			1	0				
08:15		2	0			0	0				
08:30		0	0			3	0				
08:45		0	0	2	0	1	0	5	0	7	0
09:00		0	0			0	0				
09:15		0	1			0	0				
09:30		0	0			0	0				
09:45		1	0	1	1	0	0	0	0	1	1
10:00		0	0			0	0				
10:15		0	0			0	0				
10:30		0	0			1	0				
10:45		2	0	2	0	0	0	1	0	3	0
11:00		0	0			1	0				
11:15		1	0			0	0				
11:30		0	0			1	0				
11:45		1	0	2	0	1	0	3	0	5	0
Total		12	20			19	24			31	44
Combined Total		32				43				75	
Percentage	0.0%										

Transportation Data Corporation

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Page 2

Spring Street just east of
Washington Street (Route 126)

City, State: Holliston, MA

Client: McM/A. Luff

04836Cvolume

Site Code: Y-13449.21

Start Time	21-Dec-16 Wed	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	1			0	0				
12:15		1	0			0	0				
12:30		0	1			0	0				
12:45		0	0	1	2	0	0	0	0	1	2
01:00		0	0			0	0				
01:15		0	0			0	1				
01:30		0	2			0	1				
01:45		0	0	0	2	0	2	0	4	0	6
02:00		0	1			0	2				
02:15		0	1			0	0				
02:30		0	0			0	0				
02:45		0	1	0	3	0	0	0	2	0	5
03:00		0	0			0	0				
03:15		0	1			0	1				
03:30		0	1			0	2				
03:45		0	1	0	3	0	1	0	4	0	7
04:00		0	0			0	0				
04:15		0	2			0	1				
04:30		0	0			0	2				
04:45		0	1	0	3	0	2	0	5	0	8
05:00		0	0			0	1				
05:15		0	2			0	2				
05:30		0	1			0	1				
05:45		0	2	0	5	0	3	0	7	0	12
06:00		0	0			1	1				
06:15		0	0			0	1				
06:30		0	2			0	2				
06:45		0	1	0	3	2	1	3	5	3	8
07:00		0	0			0	1				
07:15		1	0			2	0				
07:30		1	0			0	2				
07:45		0	2	2	2	1	0	3	3	5	5
08:00		2	0			0	0				
08:15		1	1			0	0				
08:30		1	0			1	0				
08:45		0	0	4	1	1	0	2	0	6	1
09:00		0	1			0	0				
09:15		0	0			1	0				
09:30		0	0			2	0				
09:45		2	1	2	2	0	1	3	1	5	3
10:00		0	0			1	0				
10:15		1	1			1	1				
10:30		0	0			1	0				
10:45		1	0	2	1	0	1	3	2	5	3
11:00		0	0			0	0				
11:15		1	0			1	1				
11:30		0	0			4	2				
11:45		0	0	1	0	0	0	5	3	6	3
Total		12	27			19	36			31	63
Combined Total		39				55				94	
Percentage	0.0%										
Total Percent		24	47			38	60			62	107
		33.8%	66.2%			38.8%	61.2%			36.7%	63.3%
ADT		ADT 84		AADT 84							