

Ref: 10165

January 7, 2025

Pascal Rettig
Planning Board Chair
City of Amesbury
62 Friend Street
Amesbury, MA 02913

Re: Proposed Multi-Family Residential Development
27.5 and 29 Clarks Road
Amesbury, Massachusetts

Dear Pascal:

Vanasse & Associates, Inc. (VAI) is pleased to provide this supplemental letter in response to comments that were identified in the December 5, 2025 Traffic Peer Review prepared by Vanasse Hangen Brustlin, Inc. (VHB) concerning their review of the October 2025 Transportation Impact Assessment (TIA) that was prepared by VAI in support of the proposed multifamily residential development to be located at 27.5 and 29 Clarks Road in Amesbury, Massachusetts (hereafter referred to as the "Project"). A comment in the VHB letter required collecting peak-hour vehicle counts at the Birchwood Pointe condominium development on Clarks Road to assess vehicle travel patterns.

EXISTING TRAFFIC VOLUMES

In order to assess vehicle travel patterns from the Birchwood Pointe condominium development, manual turning movement counts (TMCs) were completed in December 2025 at the three driveways to the development. The TMCs were conducted during the weekday morning (7:00 to 9:00 AM), weekday evening (4:00 to 6:00 PM), and Saturday midday (11:00 AM to 2:00 PM) peak periods.

TRIP DISTRIBUTION AND ASSIGNMENT

The directional distribution of generated trips to and from the Birchwood Pointe condominium development was determined based on a review of the TMCs, which indicates approximately 37 percent of trips travel to/from Birchwood Pointe via Clarks Road to the south. This equates to 21 trips during the weekday morning peak hour, 22 trips during the weekday evening peak hour, and 20 trips during the Saturday midday peak hour, which is approximately 1 additional trip every 3 minutes on Clarks Road south of the Project site during peak hours. With 37 percent of trips traveling to/from the site via Clarks Road from the south, the trip distribution was adjusted. It is assumed people traveling south on Clarks Road would then head west to connect to I-495 at Exit 118 or southeast to connect to I-95 at Exit 86. As such, 17 percent of trips assigned to I-95 at Exit 88 traveling to/from the south and 17 percent of trips assigned to Route 110 to/from

the west were reassigned to Clarks Road to/from the south. The updated trip distribution is provided in Table 1.

Table 1
TRIP-DISTRIBUTION SUMMARY

Roadway	Direction (To/From)	Percent (To/From)
Route 110	East	16
Route 110	West	17
I-95	North	5
I-95	South	13
Elm Street	North	12
Clarks Road	South	<u>37</u>
TOTAL		100

PEAK-HOUR TRAFFIC VOLUME INCREASES

An updated summary of peak-hour projected traffic-volume increases external to the study area is shown in Table 2.



Table 2
PEAK-HOUR TRAFFIC-VOLUME INCREASES^a

Location/Peak Hour	2032 No-Build	2032 Build	Traffic-Volume Change Over No-Build	Percent Change Over No-Build
<i>Route 110, east of I-95 Northbound Ramps:</i>				
Weekday Morning	2,145	2,154	9	0.4
Weekday Evening	2,830	2,839	9	0.3
Saturday MIDDAY	2,748	1,757	9	0.3
<i>Route 110, west of Carriagetown Marketplace Driveway:</i>				
Weekday Morning	2,430	2,439	9	0.4
Weekday Evening	3,099	3,108	9	0.3
Saturday MIDDAY	2,652	2,662	10	0.4
<i>I-95 Ramps, north of Route 110:</i>				
Weekday Morning	1,041	1,045	4	0.4
Weekday Evening	1,698	1,704	6	0.4
Saturday MIDDAY	1,132	1,137	5	0.4
<i>I-95 Ramps, south of Route 110:</i>				
Weekday Morning	1,660	1,667	7	0.4
Weekday Evening	1,284	1,289	5	0.4
Saturday MIDDAY	991	996	5	0.5
<i>Elm Street, north of Route 110:</i>				
Weekday Morning	1,141	1,147	6	0.5
Weekday Evening	1,397	1,404	7	0.5
Saturday MIDDAY	1,027	1,033	6	0.6
<i>Clarks Road, south of Site Driveway:</i>				
Weekday Morning	411	432	21	5.1
Weekday Evening	438	460	22	5.0
Saturday MIDDAY	507	527	20	3.9

^aTwo-way traffic volume.

As shown in Table 2, Project-related traffic-volume increases external to the study area relative to 2032 No-Build conditions are anticipated to range from 4 to 22 vehicles or 0.3 to 5.1 percent during the peak periods.

CONCLUSIONS

As documented in this letter, the trip distribution of the Birchwood Pointe condominium development shows that approximately 37 percent of their site traffic travels to/from the south on Clarks Road. As such, an updated trip distribution and traffic volume increase table was provided. The updated trip distribution reduces the impact of the Project on operations on Route 110. The increase in traffic sent to/from the south on Clarks Road is a minor increase that equates to one additional trip approximately every 3 minutes during



Pascal Rettig
January 7, 2025
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the peak hours and would be less throughout the remainder of the day. It is not anticipated that this change in trip distribution would have any material impact on the results or conclusions in the October 2025 TIA.

Sincerely,

VANASSE & ASSOCIATES, INC.



Derek Roach, P.E.
Senior Transportation Engineer

cc: File



APPENDIX

TRAFFIC COUNTS
TRIP DISTRIBUTION CALCS

TRAFFIC COUNTS

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe West Dwy

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Clear

File Name : 10165001

Site Code : 10165001

Start Date : 12/11/2025

Page No : 1

Groups Printed- Cars - Trucks

	Clarks Rd From East		Birchwood Pointe West Dwy From South		Clarks Rd From West		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
07:00 AM	1	8	4	6	21	0	40
07:15 AM	1	6	0	2	15	0	24
07:30 AM	0	15	1	3	20	1	40
07:45 AM	0	13	2	6	18	1	40
Total	2	42	7	17	74	2	144
08:00 AM	1	12	1	4	14	0	32
08:15 AM	3	19	2	2	16	0	42
08:30 AM	0	15	0	1	19	0	35
08:45 AM	1	10	0	1	15	0	27
Total	5	56	3	8	64	0	136
Grand Total	7	98	10	25	138	2	280
Apprch %	6.7	93.3	28.6	71.4	98.6	1.4	
Total %	2.5	35	3.6	8.9	49.3	0.7	
Cars	7	95	10	25	132	2	271
% Cars	100	96.9	100	100	95.7	100	96.8
Trucks	0	3	0	0	6	0	9
% Trucks	0	3.1	0	0	4.3	0	3.2

	Clarks Rd From East			Birchwood Pointe West Dwy From South			Clarks Rd From West			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	15	15	1	3	4	20	1	21	40
07:45 AM	0	13	13	2	6	8	18	1	19	40
08:00 AM	1	12	13	1	4	5	14	0	14	32
08:15 AM	3	19	22	2	2	4	16	0	16	42
Total Volume	4	59	63	6	15	21	68	2	70	154
% App. Total	6.3	93.7		28.6	71.4		97.1	2.9		
PHF	.333	.776	.716	.750	.625	.656	.850	.500	.833	.917
Cars	4	56	60	6	15	21	65	2	67	148
% Cars	100	94.9	95.2	100	100	100	95.6	100	95.7	96.1
Trucks	0	3	3	0	0	0	3	0	3	6
% Trucks	0	5.1	4.8	0	0	0	4.4	0	4.3	3.9

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe West Dwy

E/W Street : Clarks Road

City/State : Amesbury, MA

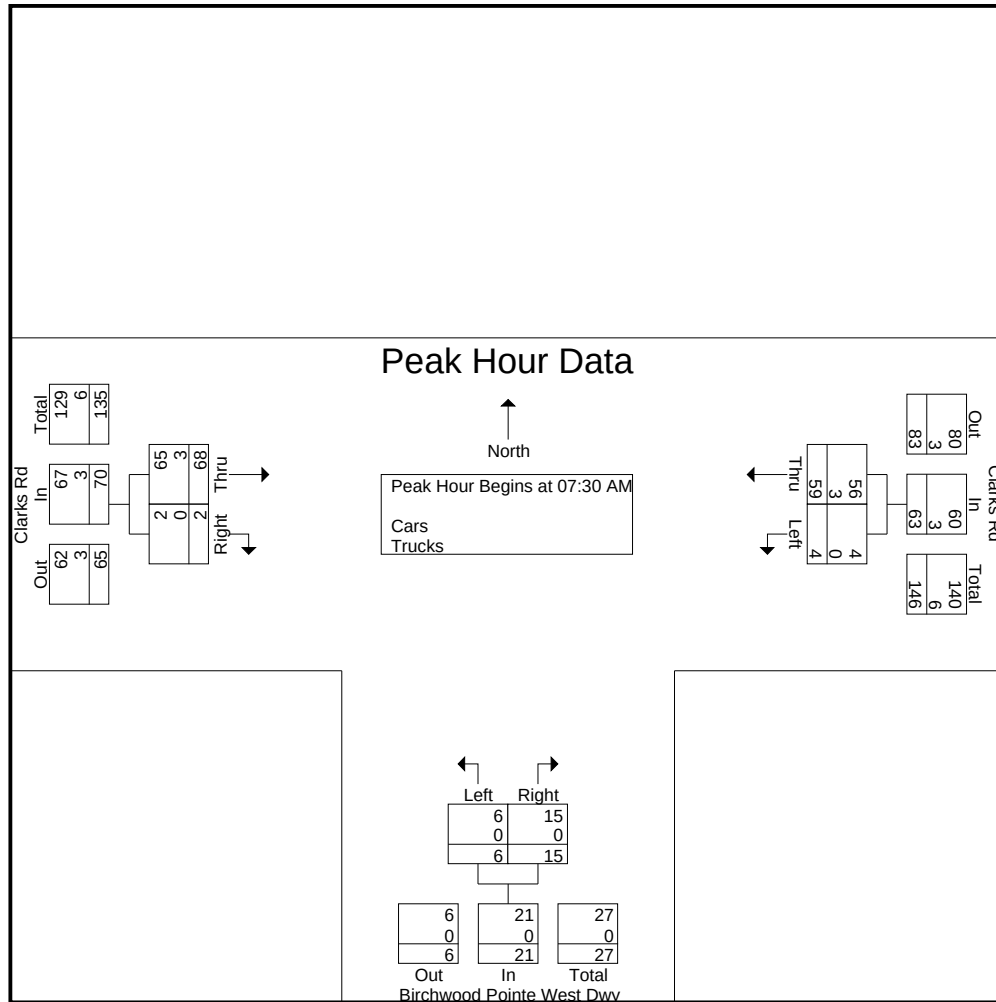
Weather : Clear

File Name : 10165001

Site Code : 10165001

Start Date : 12/11/2025

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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM			07:00 AM			07:00 AM		
+0 mins.	0	15	15	4	6	10	21	0	21
+15 mins.	0	13	13	0	2	2	15	0	15
+30 mins.	1	12	13	1	3	4	20	1	21
+45 mins.	3	19	22	2	6	8	18	1	19
Total Volume	4	59	63	7	17	24	74	2	76
% App. Total	6.3	93.7		29.2	70.8		97.4	2.6	
PHF	.333	.776	.716	.438	.708	.600	.881	.500	.905
Cars	4	56	60	7	17	24	70	2	72
% Cars	100	94.9	95.2	100	100	100	94.6	100	94.7
Trucks	0	3	3	0	0	0	4	0	4
% Trucks	0	5.1	4.8	0	0	0	5.4	0	5.3

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe West Dwy

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Clear

File Name : 10165001

Site Code : 10165001

Start Date : 12/11/2025

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Groups Printed- Trucks

	Clarks Rd From East		Birchwood Pointe West Dwy From South		Clarks Rd From West		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
07:00 AM	0	0	0	0	3	0	3
07:15 AM	0	0	0	0	0	0	0
07:30 AM	0	1	0	0	0	0	1
07:45 AM	0	1	0	0	1	0	2
Total	0	2	0	0	4	0	6
08:00 AM	0	0	0	0	1	0	1
08:15 AM	0	1	0	0	1	0	2
08:30 AM	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0
Total	0	1	0	0	2	0	3
Grand Total	0	3	0	0	6	0	9
Apprch %	0	100	0	0	100	0	
Total %	0	33.3	0	0	66.7	0	

	Clarks Rd From East			Birchwood Pointe West Dwy From South			Clarks Rd From West			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	0	0	0	0	0	3	0	3	3
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	1	1	0	0	0	0	0	0	1
07:45 AM	0	1	1	0	0	0	1	0	1	2
Total Volume	0	2	2	0	0	0	4	0	4	6
% App. Total	0	100		0	0		100	0		
PHF	.000	.500	.500	.000	.000	.000	.333	.000	.333	.500

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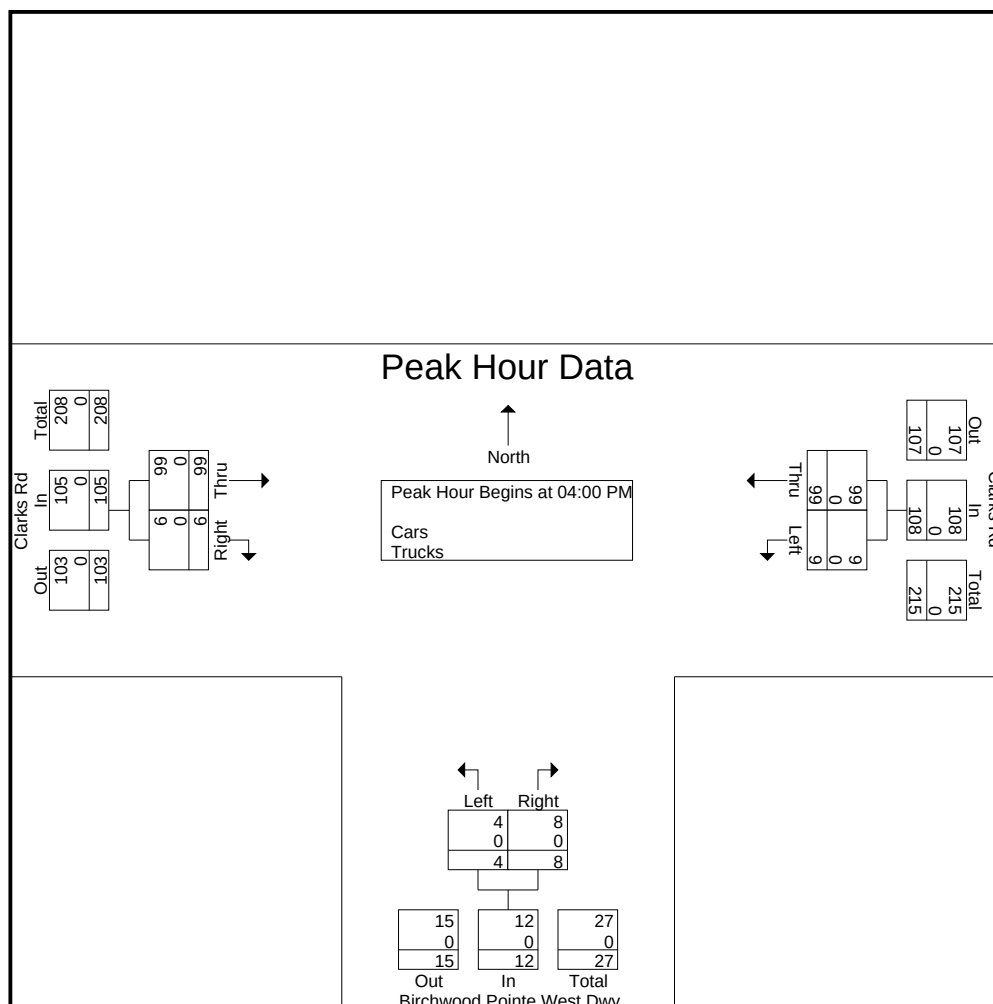
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File Name : 10165001
Site Code : 10165001
Start Date : 12/11/2025
Page No : 2



Peak Hour for Each Approach Begins at:

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978-664-2565

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	Grouped Truck						
	Clarks Rd From East		Birchwood Pointe West Dwy From South		Clarks Rd From West		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
04:00 PM	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	
Total %							

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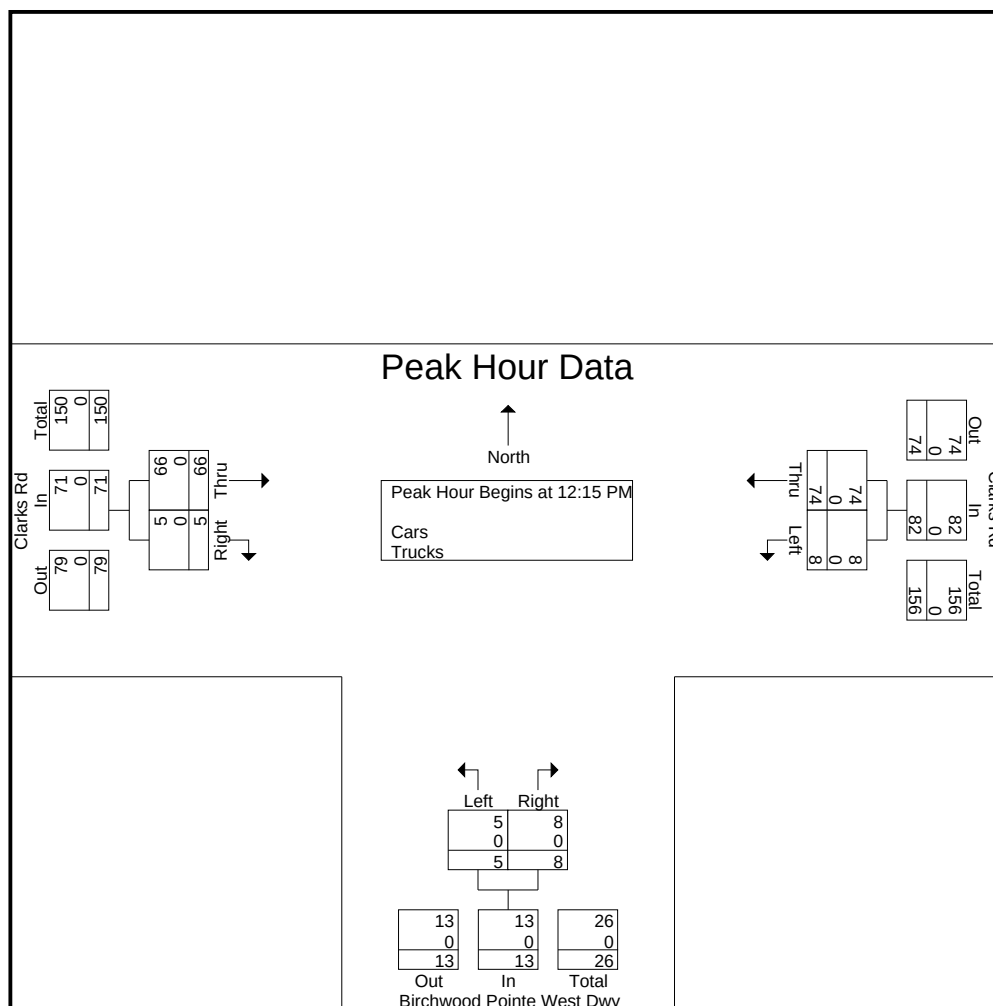
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File Name : 101650S1
Site Code : 10165002
Start Date : 12/13/2025
Page No : 2



Peak Hour for Each Approach Begins at:

[illegible]

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe West Dwy

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Cloudy

File Name : 101650S1

Site Code : 10165002

Start Date : 12/13/2025

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Groups Printed- Trucks

	Clarks Rd From East		Birchwood Pointe West Dwy From South		Clarks Rd From West		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
11:00 AM	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	1	0	1
01:45 PM	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	1
Grand Total	0	0	0	0	1	0	1
Apprch %	0	0	0	0	100	0	
Total %	0	0	0	0	100	0	

	Clarks Rd From East			Birchwood Pointe West Dwy From South			Clarks Rd From West			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 12:45 PM										
12:45 PM	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	1	0	1	1
Total Volume	0	0	0	0	0	0	1	0	1	1
% App. Total	0	0		0	0		100	0		
PHF	.000	.000	.000	.000	.000	.000	.250	.000	.250	.250

978-664-2565

N/S Street : Birchwood Pointe West Dwy

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Cloudy

File Name : 101650S1

Site Code : 10165002

Start Date : 12/13/2025

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Groups Printed- Bikes Peds
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Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe East Dwy/Exit Only

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Clear

File Name : 10165002

Site Code : 10165002

Start Date : 12/11/2025

Page No : 1

Groups Printed- Cars - Trucks

	Clarks Rd From East			Exit Only From Southeast			Birchwood Pointe East Dwy From South			Clarks Rd From West			
Start Time	Hd Left	Left	Thru	Hd Left	Br Left	Hd Right	Left	Right	Hd Right	Thru	Br Right	Right	Int. Total
07:00 AM	0	0	8	0	0	0	1	0	0	27	0	0	36
07:15 AM	0	2	7	0	1	0	0	2	0	16	0	0	28
07:30 AM	0	0	16	0	3	0	0	1	0	23	0	0	43
07:45 AM	0	0	11	0	0	1	0	1	0	24	0	0	37
Total	0	2	42	0	4	1	1	4	0	90	0	0	144
08:00 AM	0	2	13	0	2	0	0	1	0	18	0	0	36
08:15 AM	0	1	22	0	4	0	0	0	0	18	0	0	45
08:30 AM	0	1	15	0	0	0	0	0	0	19	0	0	35
08:45 AM	0	0	10	0	1	0	1	2	0	17	0	0	31
Total	0	4	60	0	7	0	1	3	0	72	0	0	147
Grand Total	0	6	102	0	11	1	2	7	0	162	0	0	291
Apprch %	0	5.6	94.4	0	91.7	8.3	22.2	77.8	0	100	0	0	
Total %	0	2.1	35.1	0	3.8	0.3	0.7	2.4	0	55.7	0	0	
Cars	0	6	99	0	11	1	2	7	0	156	0	0	282
% Cars	0	100	97.1	0	100	100	100	100	0	96.3	0	0	96.9
Trucks	0	0	3	0	0	0	0	0	0	6	0	0	9
% Trucks	0	0	2.9	0	0	0	0	0	0	3.7	0	0	3.1

	Clarks Rd From East				Exit Only From Southeast				Birchwood Pointe East Dwy From South				Clarks Rd From West				
Start Time	Hd Left	Left	Thru	App. Total	Hd Left	Br Left	Hd Right	App. Total	Left	Right	Hd Right	App. Total	Thru	Br Right	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	16	16	0	3	0	3	0	1	0	1	23	0	0	23	43
07:45 AM	0	0	11	11	0	0	1	1	0	1	0	1	24	0	0	24	37
08:00 AM	0	2	13	15	0	2	0	2	0	1	0	1	18	0	0	18	36
08:15 AM	0	1	22	23	0	4	0	4	0	0	0	0	18	0	0	18	45
Total Volume	0	3	62	65	0	9	1	10	0	3	0	3	83	0	0	83	161
% App. Total	0	4.6	95.4		0	90	10		0	100	0		100	0	0		
PHF	.000	.375	.705	.707	.000	.563	.250	.625	.000	.750	.000	.750	.865	.000	.000	.865	.894
Cars	0	3	59	62	0	9	1	10	0	3	0	3	80	0	0	80	155
% Cars	0	100	95.2	95.4	0	100	100	100	0	100	0	100	96.4	0	0	96.4	96.3
Trucks	0	0	3	3	0	0	0	0	0	0	0	0	3	0	0	3	6
% Trucks	0	0	4.8	4.6	0	0	0	0	0	0	0	0	3.6	0	0	3.6	3.7

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe East Dwy/Exit Only

E/W Street : Clarks Road

City/State : Amesbury, MA

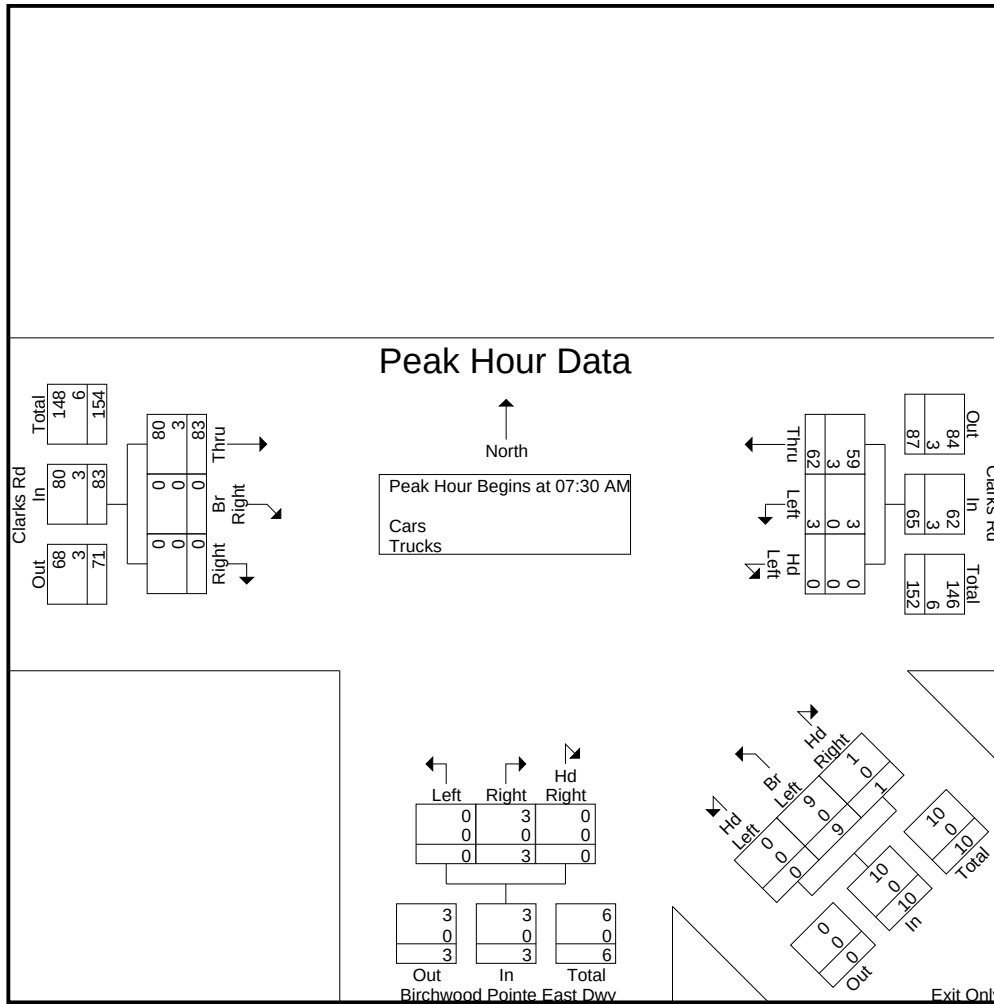
Weather : Clear

File Name : 10165002

Site Code : 10165002

Start Date : 12/11/2025

Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	16	16	0	3	0	3	1	0	0	1	27	0	0	27
+15 mins.	0	0	11	11	0	0	1	1	0	2	0	2	16	0	0	16
+30 mins.	0	2	13	15	0	2	0	2	0	1	0	1	23	0	0	23
+45 mins.	0	1	22	23	0	4	0	4	0	1	0	1	24	0	0	24
Total Volume	0	3	62	65	0	9	1	10	1	4	0	5	90	0	0	90
% App. Total	0	4.6	95.4		0	90	10		20	80	0		100	0	0	
PHF	.000	.375	.705	.707	.000	.563	.250	.625	.250	.500	.000	.625	.833	.000	.000	.833
Cars	0	3	59	62	0	9	1	10	1	4	0	5	86	0	0	86
% Cars	0	100	95.2	95.4	0	100	100	100	100	100	0	100	95.6	0	0	95.6
Trucks	0	0	3	3	0	0	0	0	0	0	0	0	4	0	0	4
% Trucks	0	0	4.8	4.6	0	0	0	0	0	0	0	0	4.4	0	0	4.4

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe East Dwy/Exit Only

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Clear

File Name : 10165002

Site Code : 10165002

Start Date : 12/11/2025

Page No : 7

Groups Printed- Trucks

	Clarks Rd From East			Exit Only From Southeast			Birchwood Pointe East Dwy From South			Clarks Rd From West			Int. Total
Start Time	Hd Left	Left	Thru	Hd Left	Br Left	Hd Right	Left	Right	Hd Right	Thru	Br Right	Right	
07:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	0	0	2	0	0	0	0	0	0	4	0	0	6
08:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
08:15 AM	0	0	1	0	0	0	0	0	0	1	0	0	2
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	0	0	0	2	0	0	3
Grand Total	0	0	3	0	0	0	0	0	0	6	0	0	9
Apprch %	0	0	100	0	0	0	0	0	0	100	0	0	
Total %	0	0	33.3	0	0	0	0	0	0	66.7	0	0	

	Clarks Rd From East				Exit Only From Southeast				Birchwood Pointe East Dwy From South				Clarks Rd From West				Int. Total
Start Time	Hd Left	Left	Thru	App. Total	Hd Left	Br Left	Hd Right	App. Total	Left	Right	Hd Right	App. Total	Thru	Br Right	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 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	0	0	3	0	0	3	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total Volume	0	0	2	2	0	0	0	0	0	0	0	0	4	0	0	4	6
% App. Total	0	0	100		0	0	0		0	0	0		100	0	0		
PHF	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.333	.000	.000	.333	.500

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Site Code : 10165002

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	Clarks Rd From East				Exit Only From Southeast				Birchwood Pointe East Dwy From South				Clarks Rd From West							
Start Time	Hd Left	Left	Thru	Peds	Hd Left	Br Left	Hd Right	Peds	Left	Right	Hd Right	Peds	Thru	Br Right	Right	Peds	Exclu. Total	Inclu. Total	Int. Total	
07:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1
Total	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0	2	2
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	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
Grand Total	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0	2	2
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0					
Total %																	100	0		

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North

Peak Hour Begins at 04:00 PM

	Cars	Trucks
1990	100	100
2000	100	100
2010	100	100
2020	100	100
2030	100	100
2040	100	100
2050	100	100
2060	100	100
2070	100	100
2080	100	100
2090	100	100
2100	100	100

Clarks Rd					
Out	113	In	108	Total	221
	0		0		0
	113		108		221

3	0	105
0	0	0
3	0	105

Right	Br	Thru
	Right	

Clarks Rd		Total
Out	In	
109	122	231
0	0	0
109	122	231

Thru	Left	Right
108	14	0
0	0	0
108	14	0

Left	Right	Hd Right
0	3	0
0	0	0
0	3	0

17	3	20
0	0	0
17	3	20
Out	In	Total

Out	In	Total
Birchwood	Pointe East	Dwy

Exit Only

Peak Hour for Each Approach Begins at:

Peak Hour for Each Approach Begins at:																
	04:00 PM				04:00 PM				05:00 PM				04:00 PM			
+0 mins.	0	1	35	36	0	1	0	1	0	1	0	1	35	0	1	36
+15 mins.	0	3	17	20	0	2	1	3	0	0	0	0	23	0	1	24
+30 mins.	0	6	27	33	0	1	0	1	0	2	0	2	24	0	1	25
+45 mins.	0	4	29	33	0	1	0	1	0	2	0	2	23	0	0	23
Total Volume	0	14	108	122	0	5	1	6	0	5	0	5	105	0	3	108
% App. Total	0	11.5	88.5		0	83.3	16.7		0	100	0		97.2	0	2.8	
PHF	.000	.583	.771	.847	.000	.625	.250	.500	.000	.625	.000	.625	.750	.000	.750	.750
Cars	0	14	108	122	0	5	1	6	0	5	0	5	105	0	3	108
% Cars	0	100	100	100	0	100	100	100	0	100	0	100	100	0	100	100
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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[illegible]

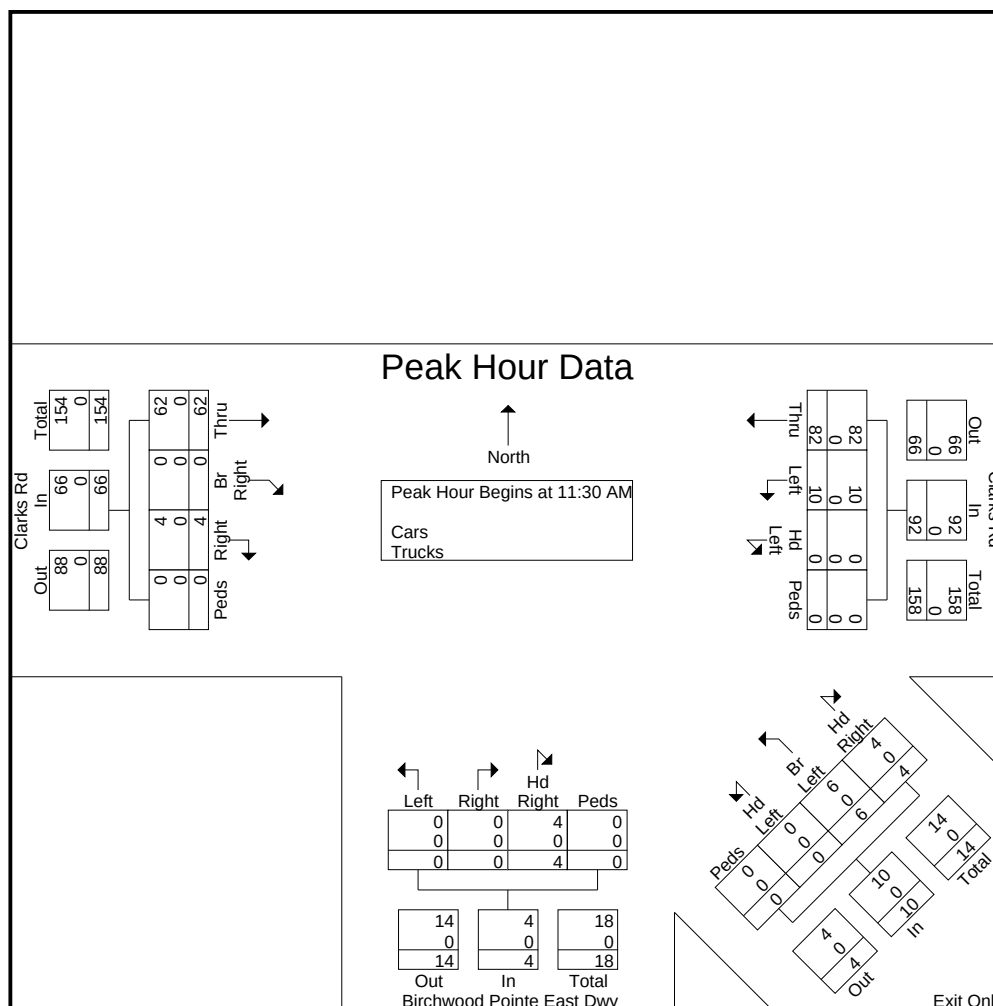
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File Name : 101650S2
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Peak Hour for Each Approach Begins at:

Peak Hour for Each Approach Begins at:																					
	11:30 AM					11:00 AM					11:00 AM					11:45 AM					
+0 mins.	0	2	22	0	24	0	2	0	0	0	2	0	0	0	0	0	19	0	1	0	20
+15 mins.	0	6	16	0	22	0	2	0	0	0	2	0	0	1	0	1	9	0	1	0	10
+30 mins.	0	2	22	0	24	0	3	1	0	0	4	0	0	3	0	3	25	0	2	0	27
+45 mins.	0	0	22	0	22	0	2	1	0	0	3	0	0	1	0	1	17	0	1	0	18
Total Volume	0	10	82	0	92	0	9	2	0	0	11	0	0	5	0	5	70	0	5	0	75
% App. Total	0	10.9	89.1	0		0	81.8	18.2	0	0		0	0	100	0		93.3	0	6.7	0	
PHF	.000	.417	.932	.000	.958	.000	.750	.500	.000	.000	.688	.000	.000	.417	.000	.417	.700	.000	.625	.000	.694
Cars	0	10	82	0	92	0	9	2	0	0	11	0	0	5	0	5	70	0	5	0	75
% Cars	0	100	100	0	100	0	100	100	0	0	100	0	0	100	0	100	100	0	100	0	100
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe East Dwy/Exit Only

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Cloudy

File Name : 101650S2

Site Code : 10165002

Start Date : 12/13/2025

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Groups Printed- Trucks

	Clarks Rd From East				Exit Only From Southeast					Birchwood Pointe East Dwy From South				Clarks Rd From West				Int. Total
Start Time	Hd Left	Left	Thru	Peds	Hd Left	Br Left	Hd Right	Peds	Peds	Left	Right	Hd Right	Peds	Thru	Br Right	Right	Peds	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	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	0	0
11:45 AM	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
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	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
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
01:45 PM	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	1	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	

	Clarks Rd From East					Exit Only From Southeast						Birchwood Pointe East Dwy From South						Clarks Rd From West						
Start Time	Hd Left	Left	Thru	Peds	App. Total	Hd Left	Br Left	Hd Right	Peds	Peds	App. Total	Left	Right	Hd Right	Peds	App. Total	Thru	Br Right	Right	Peds	App. Total	Int. Total		
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																								
Peak Hour for Entire Intersection Begins at 12:45 PM																								
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1		
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1		
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0				
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.000	.250	.250		

Accurate Counts

978-664-2565

N/S Street : Birchwood Pointe East Dwy/Exit Only

E/W Street : Clarks Road

City/State : Amesbury, MA

Weather : Cloudy

File Name : 101650S2

Site Code : 10165002

Start Date : 12/13/2025

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Groups Printed- Bikes Peds

	Clarks Rd From East				Exit Only From Southeast					Birchwood Pointe East Dwy From South				Clarks Rd From West				Int. Total
Start Time	Hd Left	Left	Thru	Peds	Hd Left	Br Left	Hd Right	Peds	Peds	Left	Right	Hd Right	Peds	Thru	Br Right	Right	Peds	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	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	0	0
11:45 AM	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
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	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
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	

	Clarks Rd From East					Exit Only From Southeast						Birchwood Pointe East Dwy From South					Clarks Rd From West					
Start Time	Hd Left	Left	Thru	Peds	App. Total	Hd Left	Br Left	Hd Right	Peds	Peds	App. Total	Left	Right	Hd Right	Peds	App. Total	Thru	Br Right	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																						
Peak Hour for Entire Intersection Begins at 12:00 PM																						
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	4
% App. Total	0	0	0	0		0	0	0	0	0		0	0	0	100		0	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.500	.000	.000	.000	.000	.000	.500

TRIP DISTRIBUTION CALCS

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