

MEMORANDUM

DATE: February 2, 2026

TO: Megan Buczynski, P.E., LEED AP
Activias, Inc.
70 Milton Street
Dedham MA 02026

FROM: Robert J. Michaud, P.E. – Managing Principal
Daniel A. Dumais, P.E. – Senior Project Manager



RE: **Cow Pond Brook Fields**
599 Cow Pond Brook Road, Groton, MA

MDM Transportation Consultants, Inc. (MDM) has prepared a traffic and parking assessment in support of access and parking improvements for redevelopment of the Cow Pond Brook Fields (Site) located along Cow Pond Brook Road in Groton, Massachusetts. This memorandum estimates traffic volume and parking demands for peak non-tournament use of the Site, to quantify baseline traffic and parking observations, and appropriate parking supply and access/egress accommodations to support the Site. The Site location relative to the adjacent roadway network is shown in **Figure 1**.

Key findings of the assessment are as follows:

- *Baseline Traffic Volumes.* Cow Pond Brook Road carries approximately 950 vehicles per day (vpd) on a Friday, 2,600 vpd on a Saturday, and 485 vpd on Sunday. Peak hour traffic flow on Cow Pond Brook Road during the peak hours ranges from 105 to 377 vehicles per hour. Facility peak hours occur on a Friday during the weekday evening peak commuter periods, while the Saturday and Sunday peak hours occur during the midday period.
- *Safety Review.* Based on an extensive review of MassDOT crash data for the latest available 5-year period, no reported crashes occurred at the site driveway intersections with Cow Pond Brook Road.

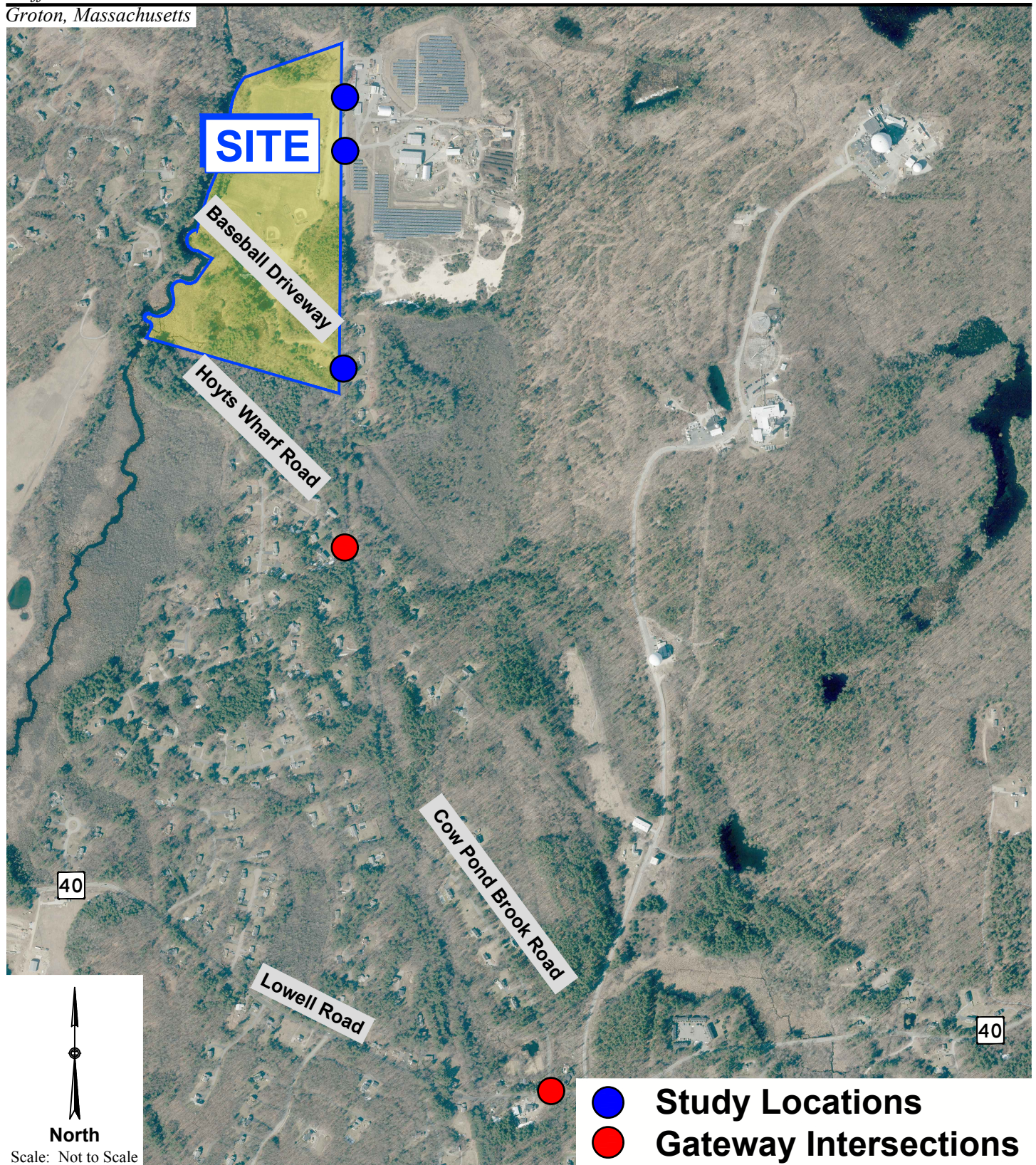


Figure 1

Site Location

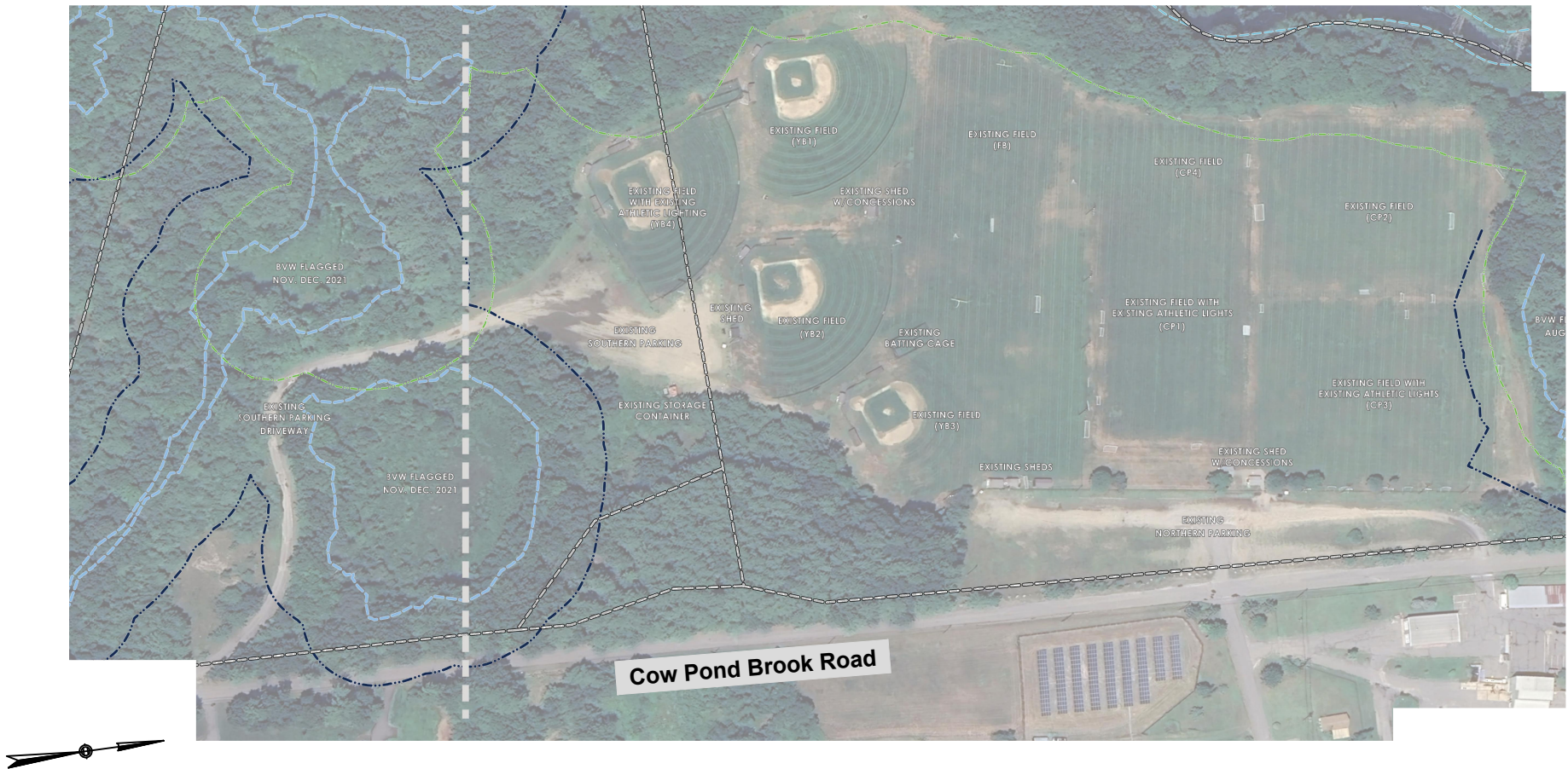
- *Baseline Trip Generation.* Traffic volume data was also collected at the Cow Pond Brook Recreational Area for the four-day period between Thursday, October 16, 2025 and Sunday, October 19, 2025. The observed activity include observations under normal fall conditions on the soccer/multi-use fields with non-tournament field usage. During a critical Saturday the facility generally had organized sports activity throughout the daytime hours resulting in the majority of daily trips which occur between the hours of 7:00 AM and 4:00 PM with the peak activity observed to occur between 11:00 AM and 12:00 PM. Based on the observed empirical trip generation data, the peak critical period for travel along Cow Pond Brook Road and the Site occurred during the Saturday midday peak hour with 273 vehicle-trips observed during that period. The daily trips on the critical Saturday were observed at 1,370 trips split between entering and exiting.
- *Adequate Parking.* The proposed parking supply at the site of approximately 295 marked parking spaces is generally adequate to support the projected peak design parking demand of the site under a full use of the soccer/multi-use fields and baseball fields under non-tournament play. The Town should provide a parking management plan as outlined under *Recommendations and Conclusions* to ensure adequate parking is provided for atypical events, such as tournaments, that may occasionally occur at the Cow Pond Brook Fields.

In summary, MDM finds that the proposed access/egress plan and site layout results in adequate capacity to accommodate the traffic at the Site under Design Year with concurrent baseball field use. Implementation of access/egress improvements, a Parking Management Plan, and TDM considerations as outlined under *Recommendations and Conclusions* will establish a framework of minimizing Site traffic impacts.

PROJECT DESCRIPTION

The existing Cows Pong Brook Fields consists of six soccer/multi-use fields and four baseball fields on approximately 29 acres. The layout of the soccer field use is provided in the **Attachments**. Access/Egress is provided via three driveways, a northern enter only driveway and a central exit only driveway primarily service the soccer/multi-use fields and a southern full access driveway services the baseball fields. The existing parking supply includes approximately 280 unmarked/unpaved spaces with room for approximately 190 parked vehicles for the soccer/multi-use fields and approximately 90 parked vehicles for the baseball fields. The existing layout and parking areas are shown in **Figure 2**.

Under the proposed improvement plan, the total number of fields will remain the same with one (1) baseball field being relocated to provide more efficient use. Access/egress will be provided via three full-access/egress driveways that will provide access to both the soccer/multi-use fields and baseball uses. In order to restore and protect NHESP (National Heritage and Endangered Species Program) resource areas, the southern driveway that currently services the baseball fields will be relocated as part of the project. The Site will be supported by approximately 295 marked parking spaces in a paved parking lot.



North

Scale: Not to Scale

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Figure 2

Existing Site Layout (Cow Pond Brook Fields)

The preliminary Master Plan for the proposed renovations to Cow Pond Brook Fields prepared by Activitas is presented in **Figure 3** which looks to provide the following enhancements at the Site:

- Formalized bituminous concrete parking lot
- New bituminous concrete driveways
- New poured-in-place playground
- Relocated Youth Baseball Field
- ADA accessible porous pavement walkways
- ADA accessible walkways
- Stormwater improvements
- Landscape improvements
- NHESP Species Habitat Restoration and Development

BASELINE TRAFFIC & SAFETY CHARACTERISTICS

An overview of existing roadway conditions along Cow Pond Brook Road, traffic volumes, speed data collection, and safety/sight lines evaluation is provided below.

Cow Pond Brook Road

Cow Pond Brook Road is classified by the Massachusetts Department of Transportation (MassDOT) as a local roadway under Town jurisdiction. Cow Pond Brook Road is generally a north-south roadway providing a connection between Lowell Road (Route 40) to the south and the Cow Pond Brook Road Recreation Area and Groton Transfer Station to the north before becoming a dead end. Within the immediate area, Cow Pond Brook Road provides a single travel lane in each direction with no marked centerline. Land uses along Cow Pond Brook Road are primarily residential uses to the south of Hoyts Warf Road and includes the Cow Pond Brook Road Recreation Area, Groton Transfer Station and Black Earth Compost Facility to the north of Hoyts Warf Road.

Baseline Traffic Data

Daily Traffic Counts

Daily traffic volumes that were along Cow Pond Brook Road just south of Cow Pond Recreational Area for the three-day period between Friday, October 17, 2025 and Sunday, October 19, 2025. A review of MassDOT permanent count station data for the area indicated that October represents above average traffic conditions (approximately 4% above average). To remain slightly conservative, no seasonal adjustment (reduction) of the data was applied. Daily traffic volumes along Cow Pond Brook Road are summarized in **Table 1** without adjustment.



TABLE 1
ROADWAY TRAFFIC-VOLUME SUMMARY
COW POND BROOK ROAD SOUTH OF COW POND RECREATIONAL AREA

Time Period	Daily Volume (vpd) ¹	Percent Daily Traffic ²	Peak Hour Volume (vph) ³	Peak Flow Direction ⁴	Peak Hour Directional Volume (vph)
Friday, October 17, 2025	950	11%	105	71% SB	75
Saturday, October 18, 2025	2,600	15%	377	68% SB	255
Sunday, October 19, 2025	485	23%	112	69% SB	77

¹Two-way daily traffic expressed in vehicles per day without adjustment.

²The percent of daily traffic that occurs during the peak hour.

³Two-way peak-hour volume expressed in vehicles per hour.

⁴NB = Northbound, SB = Southbound.

As summarized in **Table 1**, Cow Pond Brook Road carries approximately 950 vehicles per day (vpd) on a Friday, 2,600 vpd on a Saturday, and 485 vpd on Sunday. Peak hour traffic flow on Cow Pond Brook Road during the peak hours is approximately 11 to 23 percent of daily traffic flow which represents a two way flow of approximately 75 vehicles per hour (vph) during the weekday (Friday) evening peak hour and 255 vph during the critical design period (Saturday midday peak hour). The peak hour on a weekday (Friday) occurs during the weekday evening peak commuter period, while the Saturday and Sunday peak hours occurred during the midday period. These time periods also coincide with the peak use of the Cows Pond Brook Fields on days with formalized sports activity.

Speed Study Data

Vehicle speeds were obtained for Cow Pond Brook Road to the south of Cow Pond Recreational Area using a radar recorder device over a 3-day period. **Table 2** presents a summary of the travel speed data collected in October 2025 along Cow Pond Brook Road. Detailed speed data is provided in the **Attachments**.

TABLE 2
SPEED STUDY RESULTS – COW POND BROOK ROAD

Travel Direction	Regulatory Speed	Travel Speeds	
		Mean ²	85 th Percentile ³
Northbound	25	32	37
Southbound	25	32	37

¹Regulatory speed limit in mph.

²Arithmetic mean in mph.

³The speed at or below which 85 percent of the vehicles are traveling in mph.

As summarized in **Table 2**, the mean (average) travel speed on Cow Pond Brook Road to the south of the Cow Pond Recreational Area is 32 mph and the 85th percentile travel speed is 37 mph traveling both northbound and southbound. The speed data indicates that the observed travel speeds are 7 to 12 mph above the regulatory speed limit of 25 mph.

Intersection Crash History

In order to identify crash trends and safety characteristics for the existing site driveway intersections with Cow Pond Brook Road, crash data were obtained from MassDOT for the five-year period covering 2020-2025. A review of Highway Safety Improvement Project (HSIP) locations was also conducted.

There were no crashes reported for the Cow Pond Brook Road intersections with the site driveways over the five-year study period and the intersection is not classified as high crash locations (HSIP eligible) by MassDOT. Therefore, no improvement strategies are required at the study area intersections based on the crash history.

Observed Trip Generation – Cow Pond Brook Fields

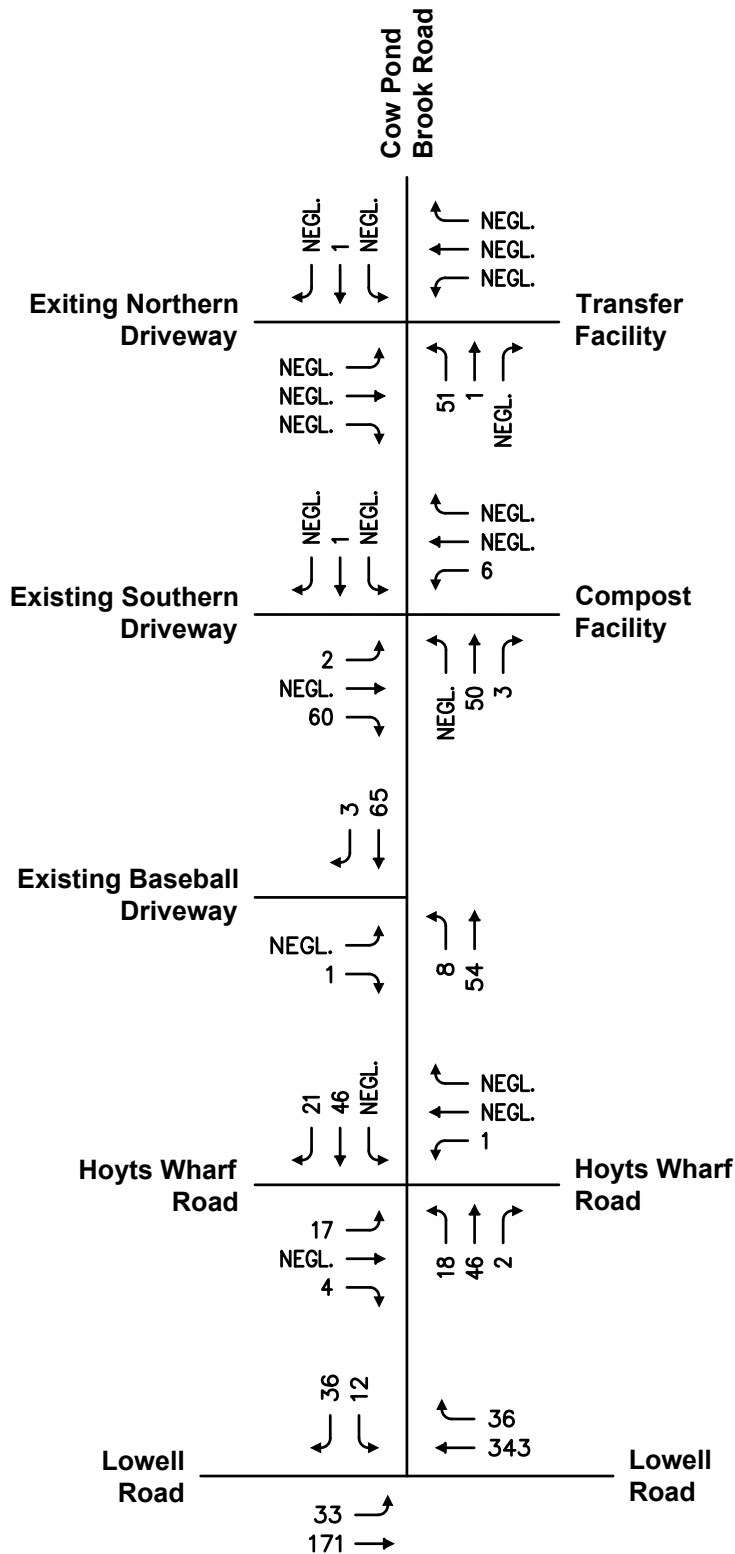
Traffic volume data was also collected along Cow Pond Brook Road for the four-day period between Thursday, October 16, 2025 and Sunday, October 19, 2025. The observed activity include observations under normal non-tournament field usage. A detailed trip generation summary for the Site for the morning period (7-9 AM), midday period (11 AM – 1 PM), evening period (4-6 PM), and on a daily basis are summarized in **Table 3** and described below. The resulting peak hour trip activity is depicted in **Figures 4** through **Figure 6**. Observed activity at the site indicates that between 20% to 30% of the trip activity enter/exit Cow Pond Brook Road via Hoyts Wharf Road with the remaining 70% to 80% of the trip activity to/from Lowell Road (Route 40). Detailed traffic volume data and expanded hourly trip activity data split between entering and exiting vehicles is provided in the **Attachments**.

TABLE 3
OBSERVED TRIP-GENERATION – COW POND BROOK FIELDS

Period	Thursday	Friday	Saturday	Sunday
<i>Morning Peak Period:</i>				
Enter			21	10
<u>Exit</u>	Negl.	Negl.	<u>151</u>	<u>16</u>
Total			172	26
<i>Midday Peak Period:</i>				
Enter			112	103
<u>Exit</u>	Negl.	Negl.	<u>161</u>	<u>23</u>
Total			273	126
<i>Evening Peak Period:</i>				
Enter	62	66	6	2
<u>Exit</u>	<u>63</u>	<u>65</u>	<u>30</u>	<u>37</u>
Total	125	131	36	39
<i>Daily:</i>	288	320	1,370	412

¹Peak hour trips based on observations conducted on Thursday, October 16, 2025 through Sunday, October 19, 2025.

EXISTING SITE TRIPS	
Enter	62
Exit	63
Total	125



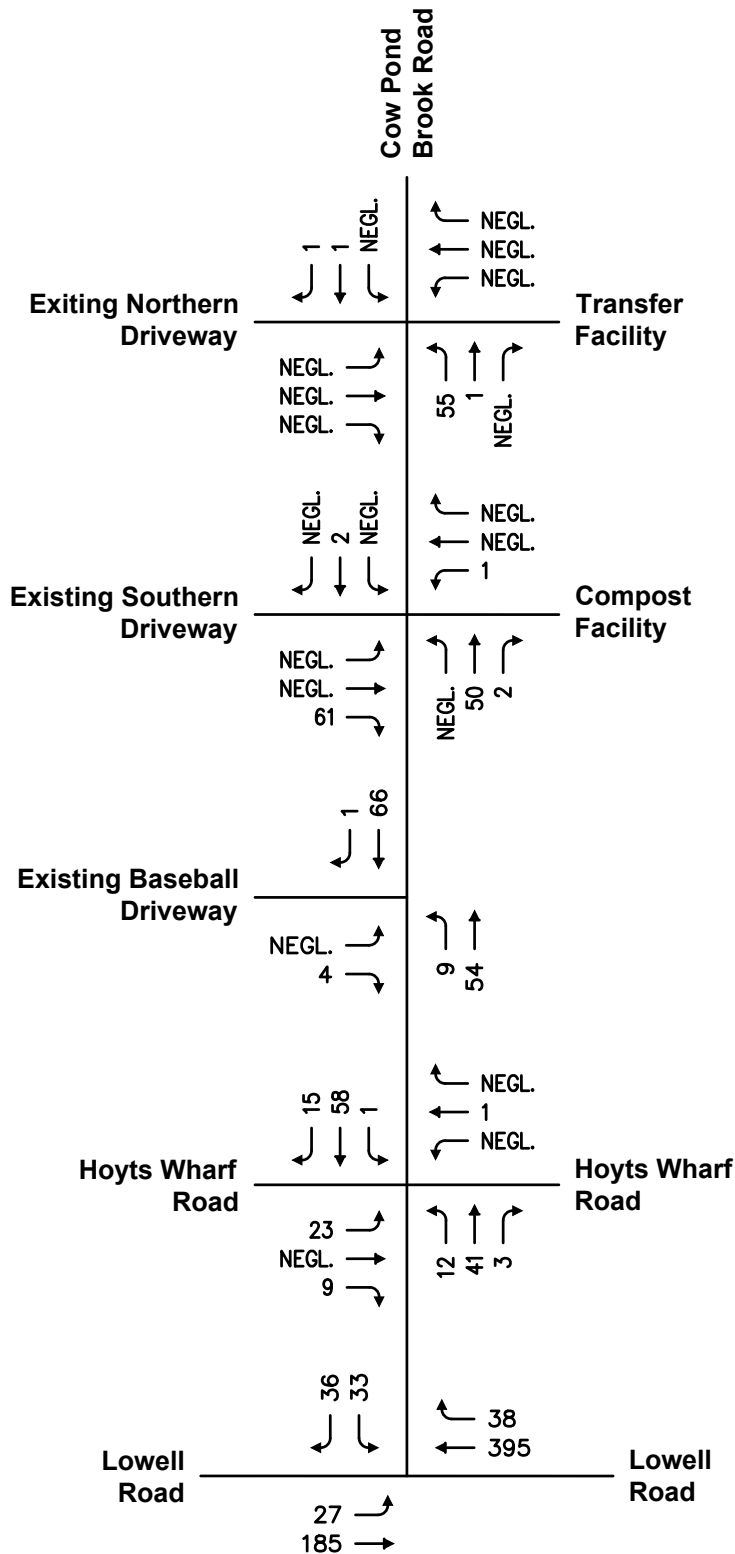
NOTES:
NEGL. = Negligible

North
Scale: Not to Scale

Figure 4

**2025 Baseline Condition
(5:30 PM - 6:30 PM)
Thursday Evening Peak Hour Traffic Volumes**

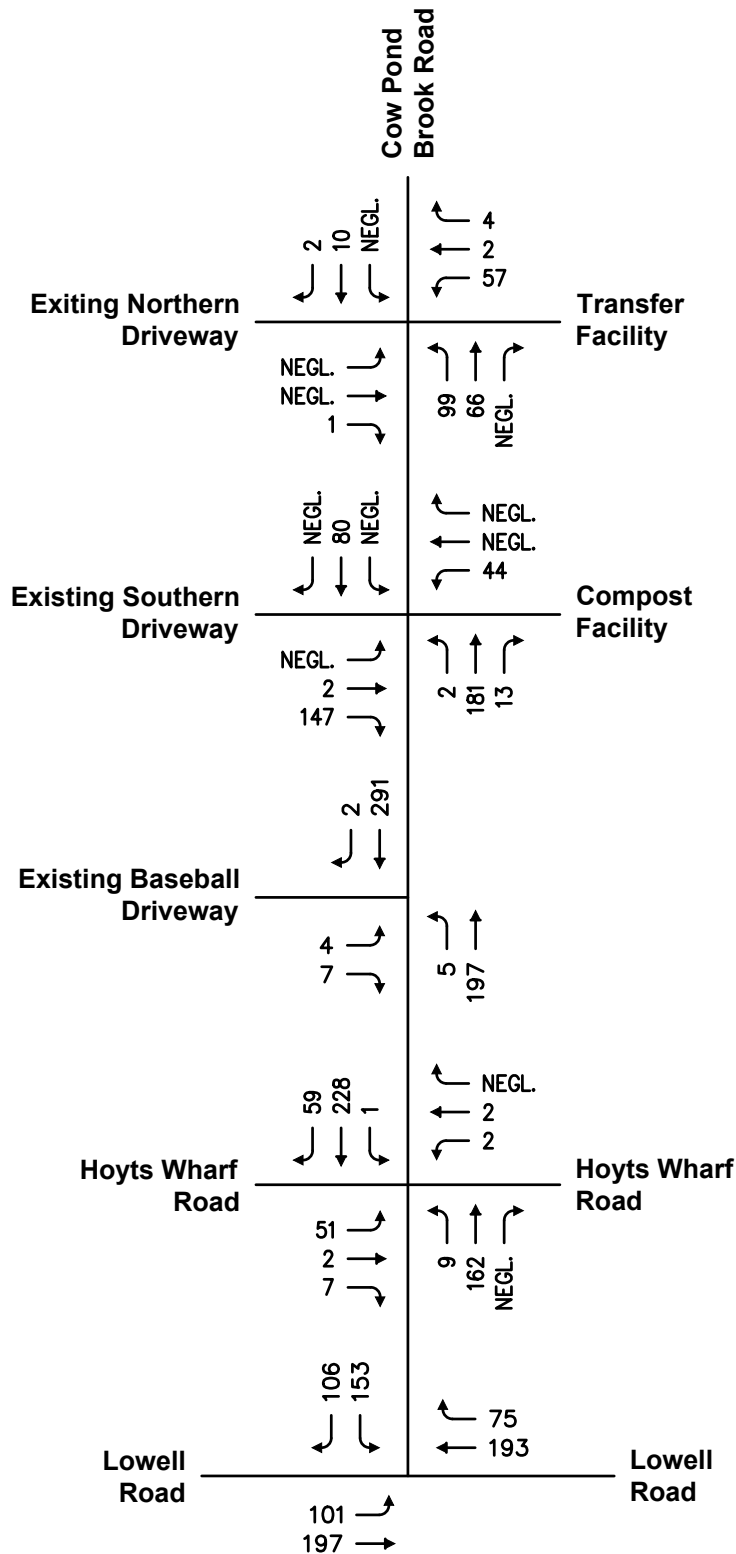
EXISTING SITE TRIPS	
Enter	66
Exit	65
Total	131



NOTES:
NEGL. = Negligible

Figure 5

EXISTING SITE TRIPS	
Enter	112
Exit	161
Total	273



NOTES:
NEGL. = Negligible

Figure 6

As presented in **Table 3** and shown in **Figures 4 – 6**:

- *Thursday.* The observed trip generation during the Thursday evening peak hour was approximately 125 vehicle-trips (62 entering vehicles and 63 exiting vehicles) occurring between 5:30 and 6:30 PM. Cow Pond Brook Fields generates approximately 288 daily trips during the fall soccer season. On a weekday with sport activity the Cow Pond Brook Fields generates approximately 30% of the traffic along Cow Pond Brook Road over the course of the day.
- *Friday.* The observed trip generation during the Friday was 131 vehicle-trips during the evening peak hour and 320 trips on a daily basis. On a Friday the facility generally has modest trip activity during the daytime hours with the organized sports activity resulting in the majority of daily trips which occur between the hours of 4:00 PM and 7:00 PM. On a Friday with sport activity the Cow Pond Brook Fields generates approximately 30% of the traffic along Cow Pond Brook Road over the course of the day.
- *Saturday.* The observed trip generation during the Saturday is approximately 172 vehicle-trips during the morning peak hour, 273 vehicle-trips during the midday peak hour, 36 vehicle-trips during the evening peak hour and 1,370 daily trips. On a Saturday the facility generally had organized sports activity throughout the daytime hours resulting in the majority of daily trips which occur between the hours of 7:00 AM and 4:00 PM with the peak activity observed to occur between 11:00 AM and 12:00 PM. On a Saturday the Cow Pond Brook Fields generates approximately 50% of the traffic along Cow Pond Brook Road over the course of the day.
- *Sunday.* The observed trip generation during the Sunday is approximately 26 vehicle-trips during the morning peak hour, 126 vehicle-trips during the midday peak hour and 39 vehicle-trips during the evening peak hour, and 412 daily trips. On a Sunday the facility generally had modest activity throughout the daytime hours of 8:00 AM and 6:00 PM with the peak activity occurring between the hours of 11:15 AM and 12:15 PM. On a Sunday the Cow Pond Brook Fields generates approximately all (100%) of the traffic along Cow Pond Brook Road over the course of the day.

DESIGN YEAR VOLUMES

Design Year traffic conditions are developed by first relocating the existing site trips at the site driveways to the proposed driveway access/egress plan. The resulting Design Year conditions are depicted in **Figure 7** through **Figure 9**. Then additional trips associated with the baseball use of the site are added to the Design Year traffic volumes to represent a conservative trip generation basis for analysis purposes. Specific methodologies and assumptions used to estimate trips and trip distribution are discussed below.

Trip Generation

The trip generation estimates for the site under a conservative peak operating conditions are provided for the study periods, which correspond to the critical analysis periods for the proposed use and adjacent street traffic flow. For planning purposes it is assumed conservatively that the soccer use would remain consistent with fall observations and the baseball uses of the site will occur at the same time which while unlikely is appropriate for design considerations. In this case, given that the baseball fields were not in use in the fall, industry standard trip generation rates from *ITE's Trip Generation Manual* (12th Edition) were used to estimate trips associated with the baseball field use of the site. New traffic generated by the project is presented in **Table 4**.

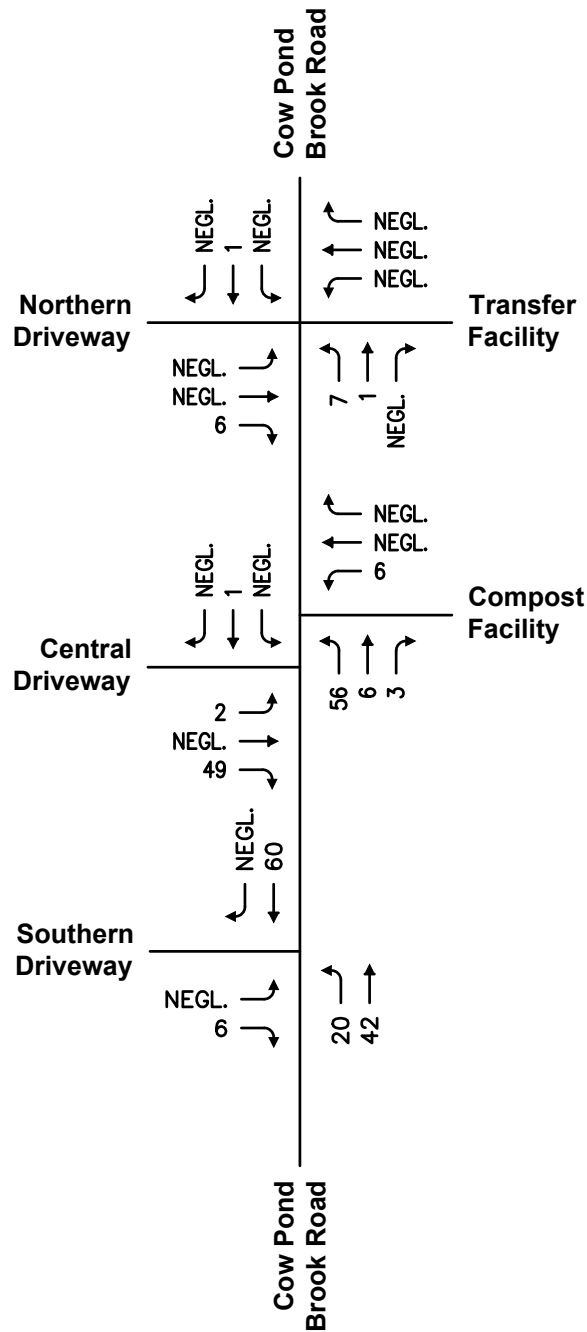
TABLE 4
TRIP GENERATION SUMMARY

Period/Direction	Existing Soccer ¹	Baseball Infill ²	Total Trips
<i>Thursday Evening Peak Hour:</i>			
Entering	62	32	94
<u>Exiting</u>	<u>63</u>	<u>36</u>	<u>99</u>
Total	125	68	193
<i>Friday Evening Peak Hour:</i>			
Entering	66	32	98
<u>Exiting</u>	<u>65</u>	<u>36</u>	<u>101</u>
Total	131	68	199
<i>Sunday Midday Peak Hour:</i>			
Entering	112	72	184
<u>Exiting</u>	<u>161</u>	<u>78</u>	<u>239</u>
Total	273	150	423

¹Based on **Table 3**.

²Based on ITE LUC 488 trip rates applied to 4 fields under non tournament play.

EXISTING SITE TRIPS	
Enter	62
Exit	63
Total	125



North

Scale: Not to Scale

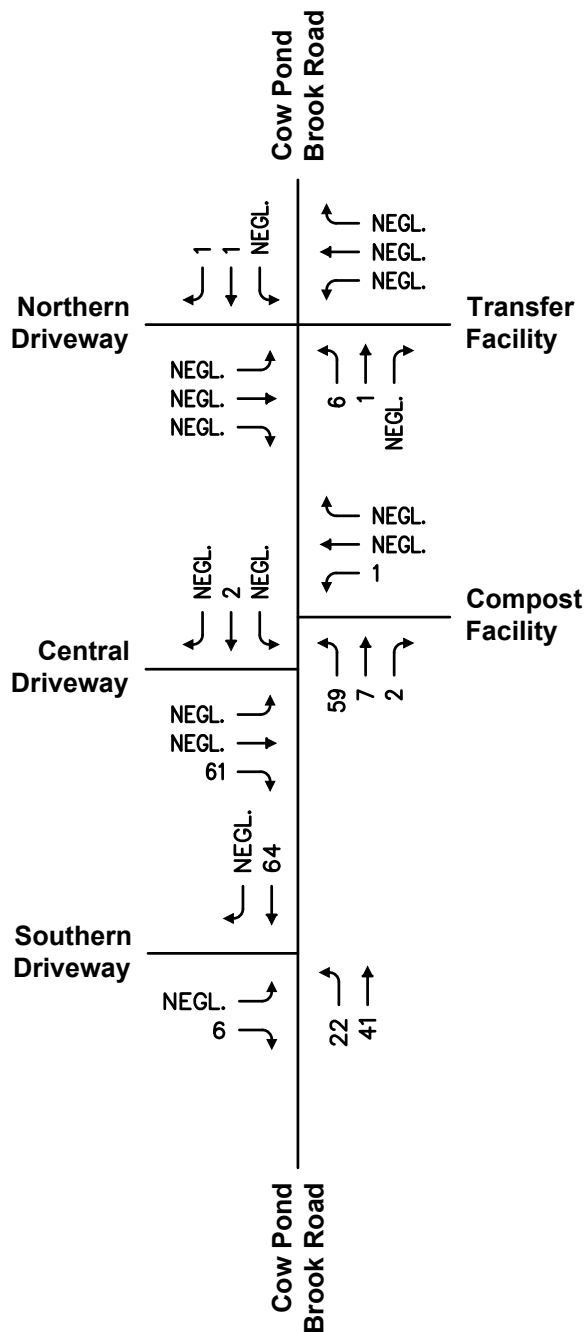
NOTES:
NEGL. = Negligible

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Figure 7

**2025 Design Year Condition
(5:30 PM - 6:30 PM)
Thursday Evening Peak Hour Traffic Volumes**

EXISTING SITE TRIPS	
Enter	66
Exit	65
Total	131



North

Scale: Not to Scale

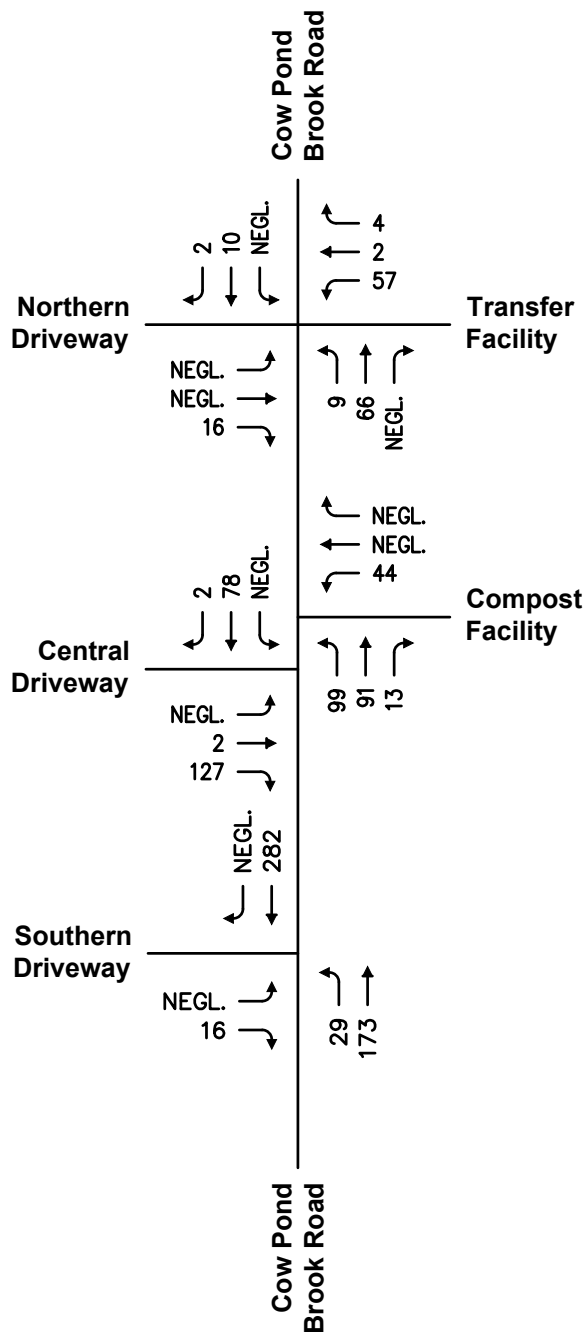
NOTES:
NEGL. = Negligible

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Figure 8

**2025 Design Year Condition
(5:15 PM - 6:15 PM)
Friday Evening Peak Hour Traffic Volumes**

EXISTING SITE TRIPS	
Enter	112
Exit	161
Total	273



North

Scale: Not to Scale

NOTES:
NEGL. = Negligible

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Figure 9

**2025 Design Year Condition
(11:00 AM - 12:00 PM)
Saturday Midday Peak Hour Traffic Volumes**

As summarized in **Table 4**, based on the conservative assumption that the soccer fields would be in full use as observed in the fall and all 4 of the baseball fields were simultaneously used (Design Year with Baseball), the site would generate approximately 193 vehicle trips (94 entering and 99 exiting) during the Thursday evening peak hour, 199 vehicle trips (98 entering and 101 exiting) during the Friday evening peak hour, and approximately 423 vehicle trips (184 entering and 239 exiting) during the Saturday midday peak hour.

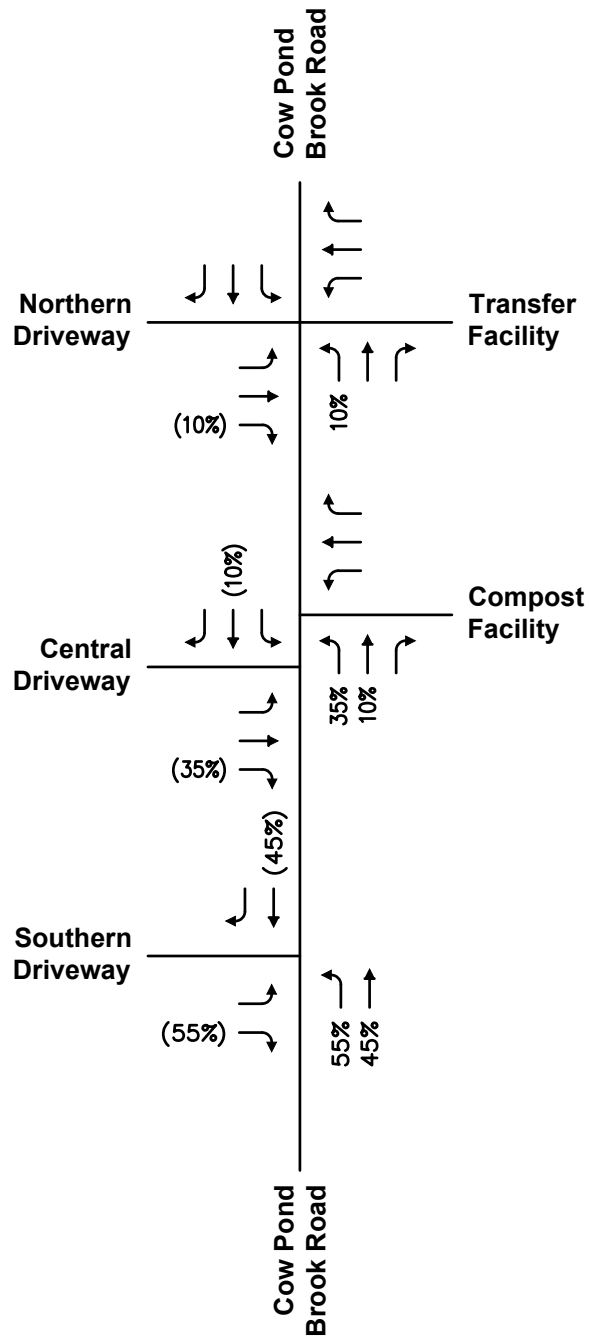
Trip Distribution

The directional distribution of development-generated trips at the site driveways is a function of a number of variables including proximity to parking areas and Site uses (soccer/multi-use fields versus baseball). The distribution of the site generated trips what then split based on the location of parking on-site, which is presented in **Figure 10** for the Design Year with concurrent Baseball use. Trip distribution calculations are provided in the **Attachments**.

Development-related trips for the baseball infill at the site are assigned to the roadway network using the trip-generation estimates shown in **Table 4** and the distribution patterns shown in **Figure 10**. Development-related trips at each intersection approach for the Thursday evening, Friday evening, and Saturday midday peak hours are quantified in **Figures 11** through **Figure 13**.

Design Year Volumes with Concurrent Baseball Use

Design Year traffic conditions with baseball use of the site are estimated by adding Baseball specific traffic volumes to the Design Year traffic volumes to represent a conservative trip generation basis for analysis purposes. Specific methodologies and assumptions used to estimate trips and trip distribution are discussed below. The resulting Design Year conditions with Baseball concurrent use are depicted in **Figure 14** through **Figure 16**.



North

Scale: Not to Scale

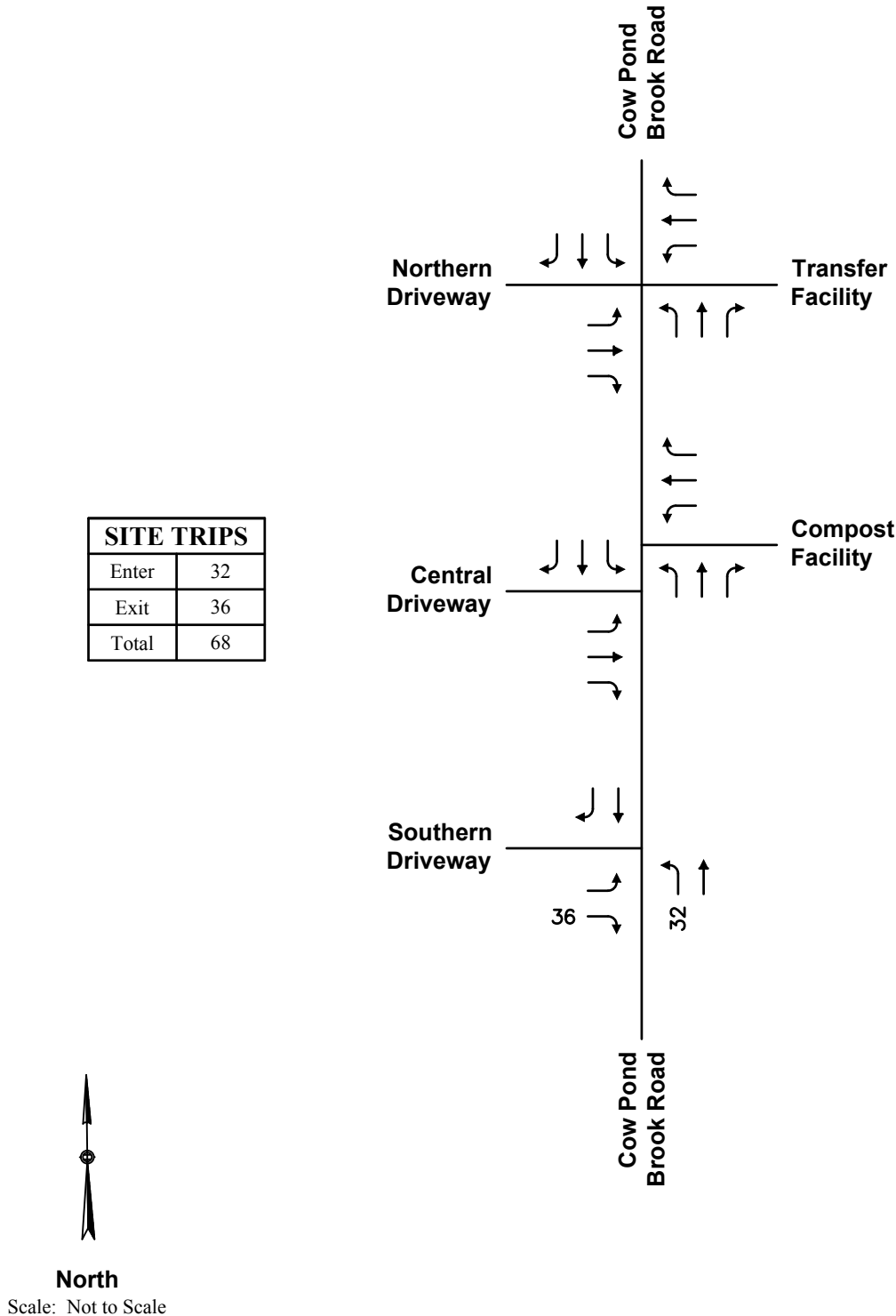


Figure 11

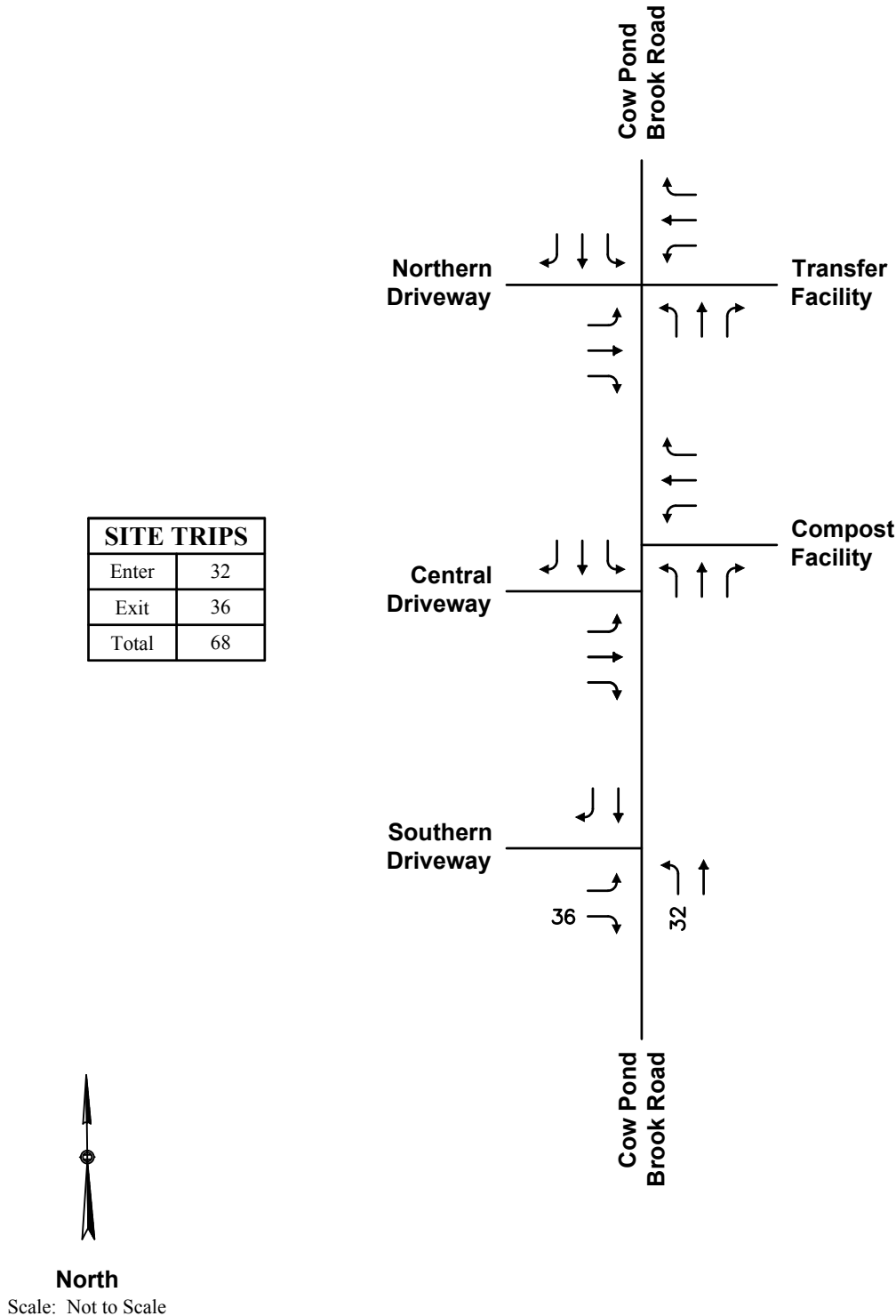
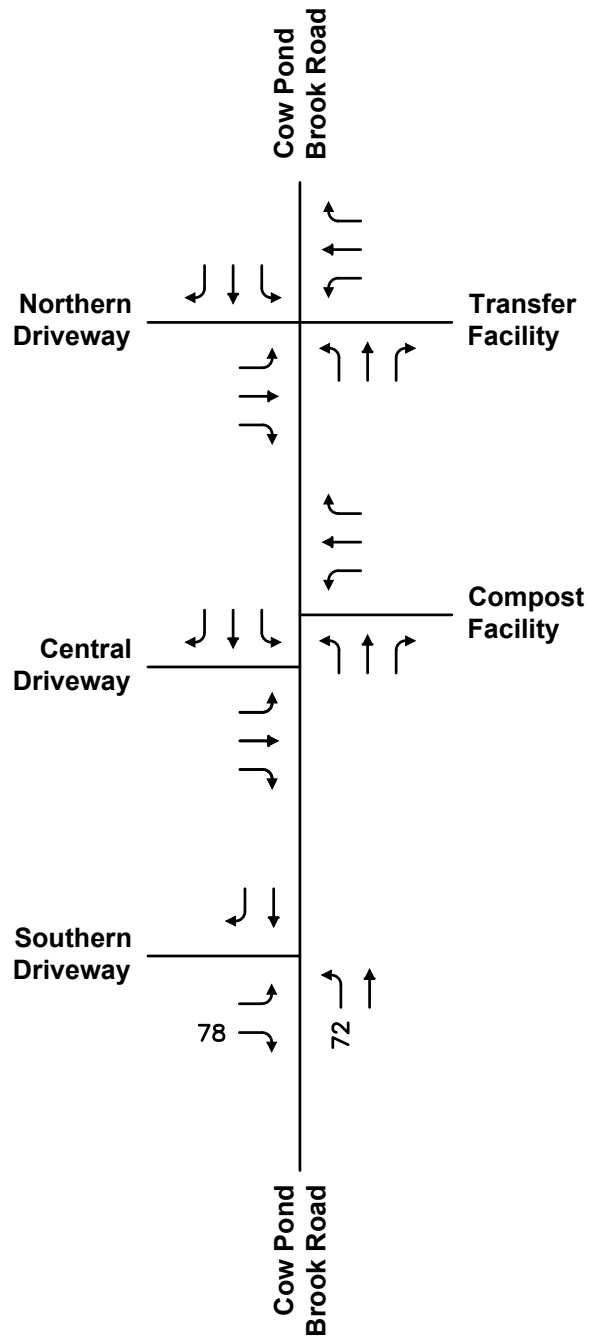


Figure 12

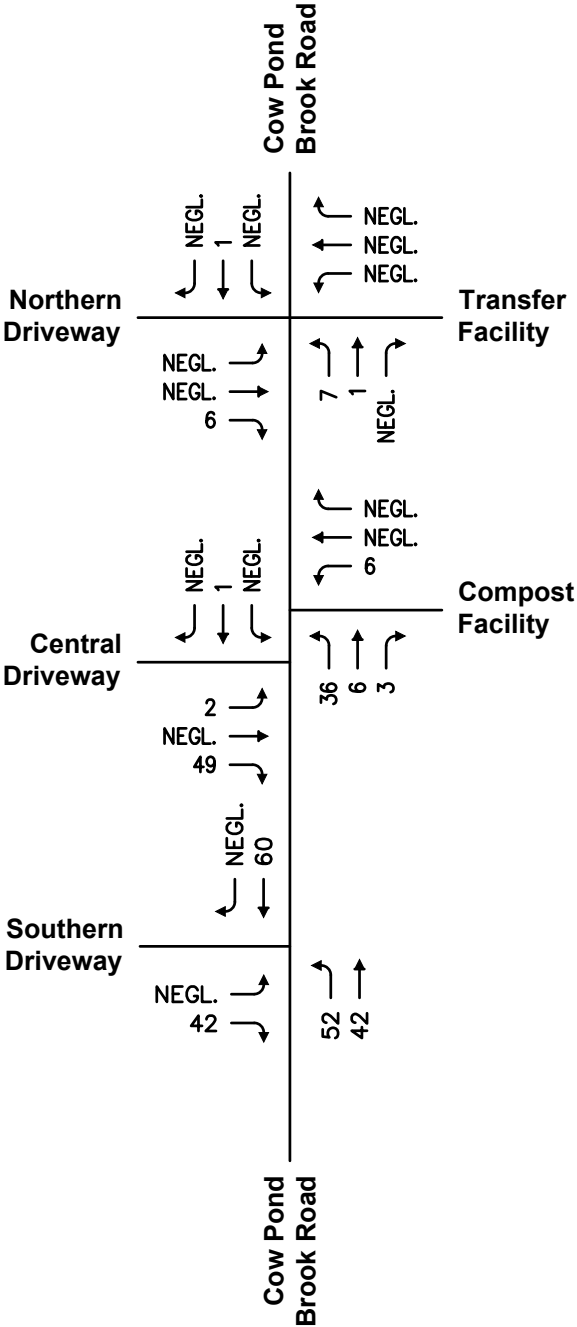
SITE TRIPS	
Enter	72
Exit	78
Total	150



North

Scale: Not to Scale

SITE TRIPS			
	Existing Soccer	Baseball	Total
Entering	62	32	94
Exiting	63	36	99
Total	125	68	193



North

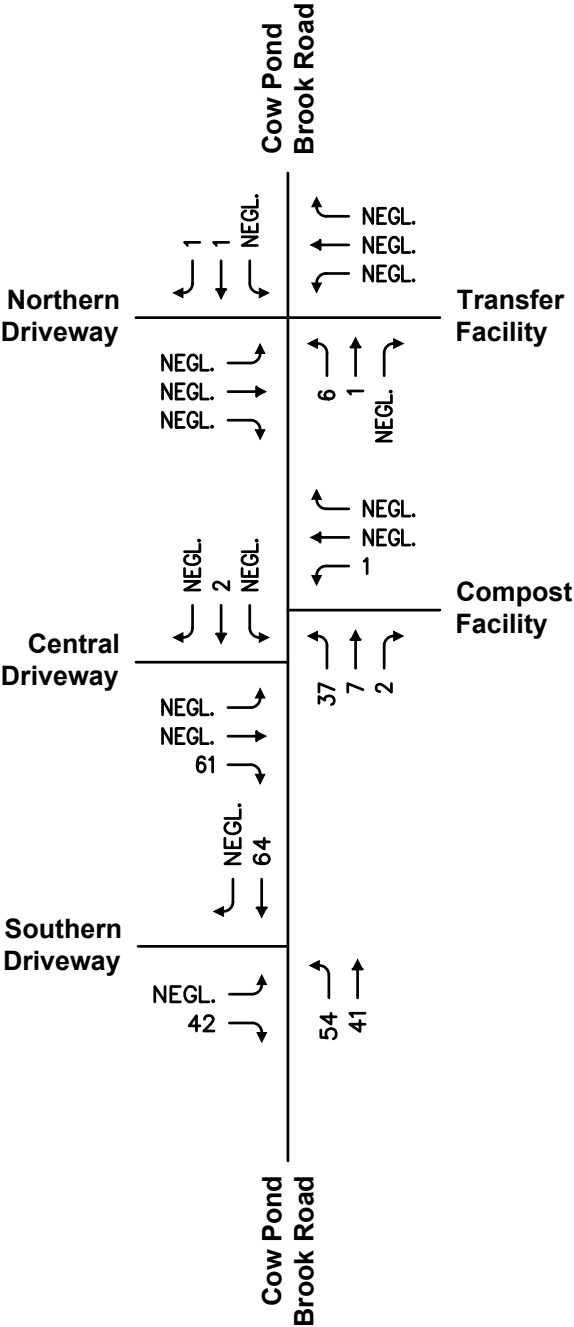
Scale: Not to Scale

NOTES:
NEGL. = Negligible

Figure 14

**2025 Design Year Condition
With Concurrent Baseball Use
(5:30 PM - 6:30 PM)
Thursday Evening Peak Hour Traffic Volumes**

SITE TRIPS			
	Existing Soccer	Baseball	Total
Entering	66	32	98
Exiting	65	36	101
Total	131	68	199



North

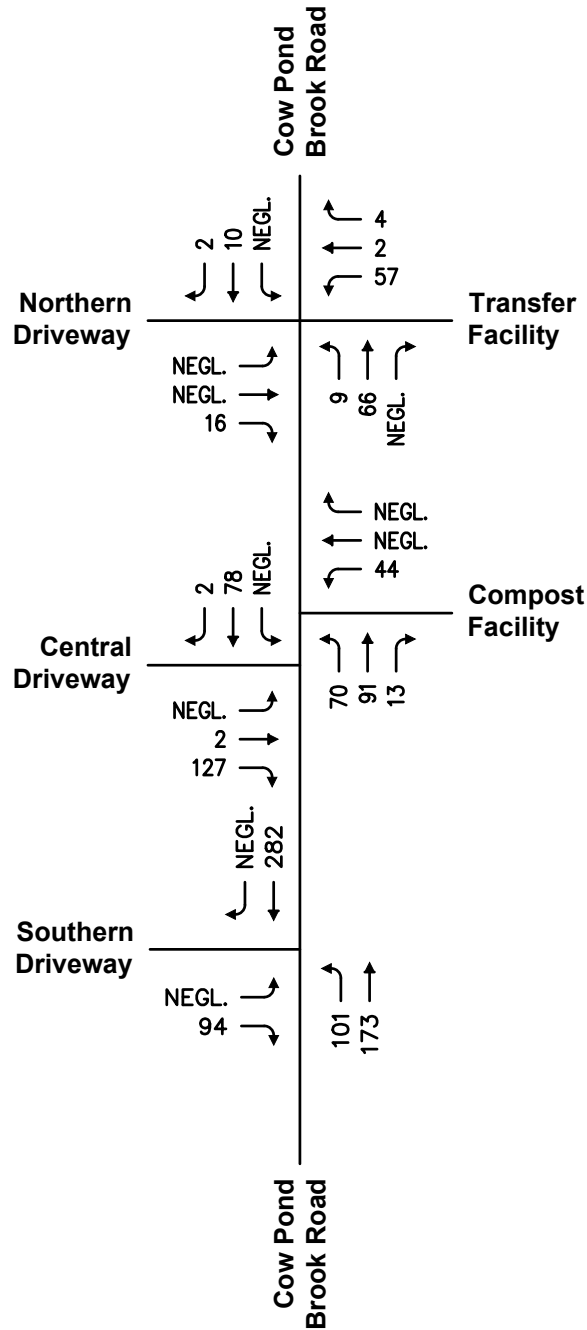
Scale: Not to Scale

NOTES:
NEGL. = Negligible

Figure 15

**2025 Design Year Condition
With Concurrent Baseball Use
(5:15 PM - 6:15 PM)
Friday Evening Peak Hour Traffic Volumes**

SITE TRIPS			
	Existing Soccer	Baseball	Total
Entering	112	72	184
Exiting	161	78	239
Total	273	150	423



North

Scale: Not to Scale

NOTES:
NEGL. = Negligible

Figure 16

**2025 Design Year Condition
With Concurrent Baseball Use
(11:00 AM - 12:00 PM)**

Saturday Midday Peak Hour Traffic Volumes

OPERATIONS ANALYSIS

This section provides an overview of operational analysis methodology as well as an assessment of driveway operations under Design Year conditions.

Analysis Methodology

Capacity analyses, conducted in accordance with EEA/MassDOT guidelines, provide an index of how well the roadway facilities serve the traffic demands placed upon them. The operational results provide the basis for recommended access and roadway improvements in the following section if required. Capacity analysis of intersections is developed using the Synchro® computer software, which implements the methods of the Highway Capacity Manual 7th Edition (HCM6). The resulting analysis presents a level-of-service (LOS) designation for individual intersection movements. The LOS is a letter designation that provides a qualitative measure of operating conditions based on several factors including roadway geometry, speeds, ambient traffic volumes, traffic controls, and driver characteristics. Since the LOS of a traffic facility is a function of the traffic flows placed upon it, such a facility may operate at a wide range of LOS, depending on the time of day, day of week, or period of year. A range of six levels of service are defined on the basis of average delay, ranging from LOS A (the least delay) to LOS F (delays greater than 50 seconds for unsignalized movements). The specific control delays and associated LOS designations are presented in the **Attachments**.

Analysis Results

Level-of-Service (LOS) analyses were conducted for the Design Year conditions for the study intersections based on the existing soccer/multi-use field use of the site and a conservative peak season use with the baseball field use infilled (Design Year w/ Baseball) for the critical Saturday midday period. The results of the intersection capacity analyses are summarized below in **Table 5**. Detailed analysis results are presented in the **Attachments**.

TABLE 5
INTERSECTION CAPACITY ANALYSIS RESULTS
SATURDAY MIDDAY PEAK HOUR

Time Period	Approach	Design Year Conditions (Soccer/Multi-Use Fields Only)			Design Year Conditions w/ Baseball Infill		
		v/c ¹	Delay ²	LOS ³	v/c	Delay	LOS
Cow Pond Brook Road at Northern Site Driveway	Eastbound	0.15	9	A	0.15	9	A
	Westbound	0.10	13	B	0.10	13	B
	Northbound	0.05	<5	A	0.05	<5	A
	Southbound	0.00	<5	A	0.00	<5	A
Cow Pond Brook Road at Main Site Driveway	Eastbound	0.02	8	A	0.02	8	A
	Westbound	0.08	10	A	0.08	10	A
	Northbound	0.01	<5	A	0.01	<5	A
	Southbound	0.00	<5	A	0.00	<5	A
Cow Pond Brook Road at Southern Site Driveway	Eastbound	0.02	10	A	0.14	11	B
	Northbound	0.03	<5	A	0.09	<5	A
	Southbound	0.00	<5	A	0.00	<5	A

¹ Volume-to-capacity ratio

² Average control delay per vehicle (in seconds)

³ Level of service

As summarized in **Table 5**, during the critical Saturday midday period under Design Year w/ Baseball conditions, site driveway approaches to Cow Pond Brook Road will operate with minimal delay (LOS B or better). Mainline operations along Cow Pond Brook Road remain unimpeded at LOS A or better. In summary, the full access/egress use of the three (3) proposed driveways will provide adequate access/egress under the critical Design Year with concurrent Baseball use. As outlined under *Recommendations and Conclusions*, wayfinding signage should be installed at the driveways and on-site to direct traffic to the different on-site uses and various field locations.

PARKING DEMAND

Parking activity was also observed in October 2025 for the four-day period between Thursday, October 16, 2025 and Sunday, October 19, 2025 during peak fall season conditions under normal non-tournament field usage. Under a future Design Year condition the peak parking demand for the soccer use is expected to remain consistent with the observed baseline demand. For design and planning purposes, the parking demand for the Design Year with concurrent Baseball use was also estimated to determine a peak parking demand for design purposes and field use flexibility.

Observed Parking Activity

The existing parking supply includes approximately 280 unmarked/unpaved spaces with room for approximately 190 parked vehicles for the soccer/multi-use fields and approximately 90 parked vehicles for the baseball fields. Observations indicate that on-street along Cow Pond Brook Road occurs at times. Observed hourly peak parking demands for Cow Pond Brook Fields are summarized in **Table 6**. The resulting hourly parking activity is depicted over the course of the day in **Figures 17** through **Figure 20**. Detailed parking data is provided in the **Attachments**.

TABLE 6
PEAK PARKING DEMAND
COW POND BROOK FIELDS

Period	Total Parking Demand
<i>Thursday, October 16, 2025</i>	82
<i>Friday, October 17, 2025</i>	58
<i>Saturday, October 18, 2025</i>	214
<i>Sunday, October 19, 2025</i>	101

¹Based on observed parking generation based on observations conducted on Thursday, October 16, 2025 to Sunday, October 19, 2025.

As presented in **Table 6** and shown in **Figures 17– 20**:

- *Thursday*. The observed peak parking demand during the Thursday was observed to be 82 vehicles. On a Thursday the facility generally has modest parking activity during the daytime hours with the organized sports activity resulting in peak parking demand periods which occur between the hours of 5:00 PM and 7:00 PM.
- *Friday*. The observed peak parking demand during the Friday was observed to be 58 vehicles. On a Friday the facility generally has modest parking activity during the daytime hours with the organized sports activity resulting in peak parking demand periods which occur between the hours of 5:00 PM and 7:00 PM. Observations indicate that park on street along Cow Pond Brook Road even when the on-site parking is underutilized.

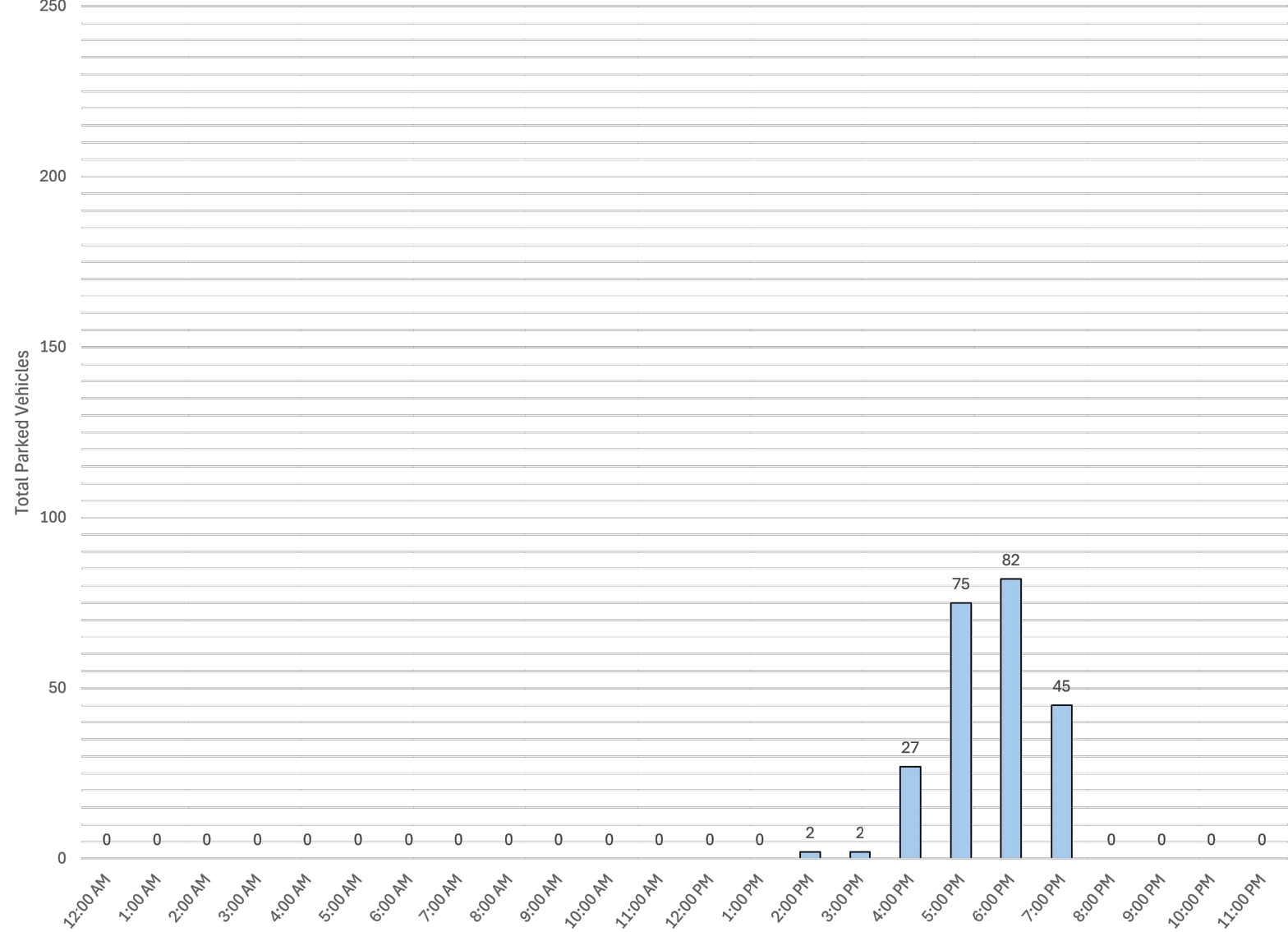


Figure 17

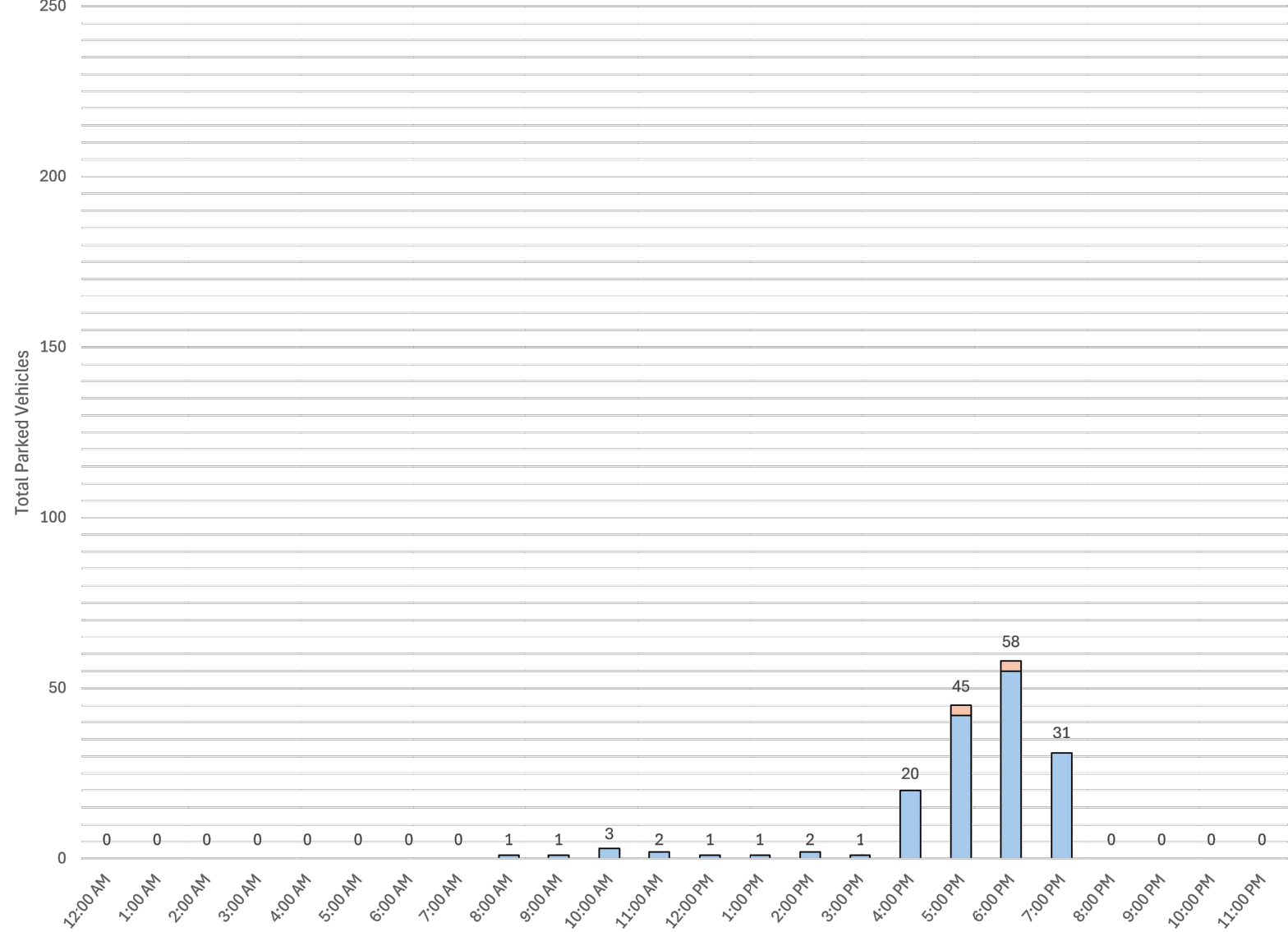


Figure 18

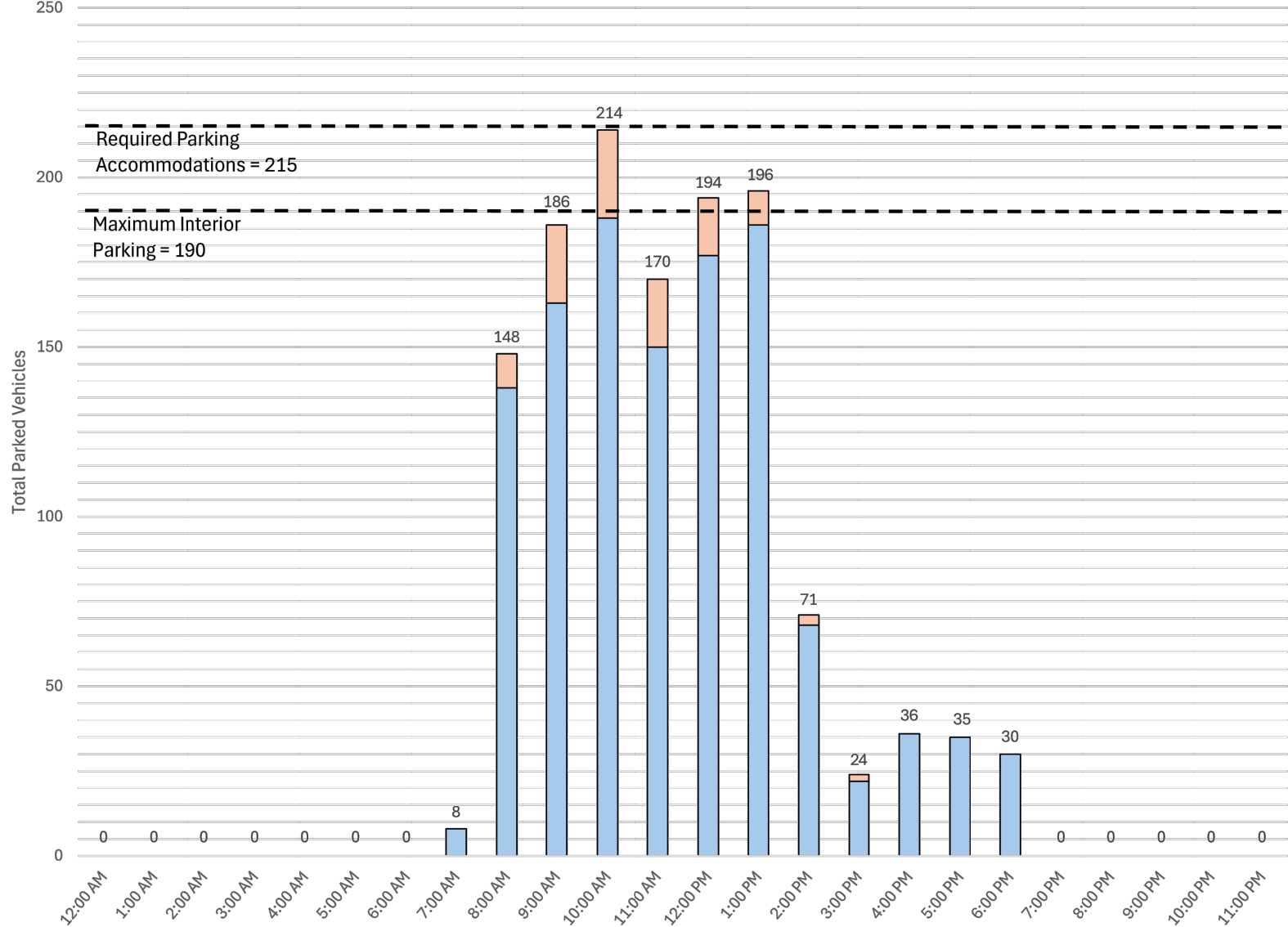


Figure 19

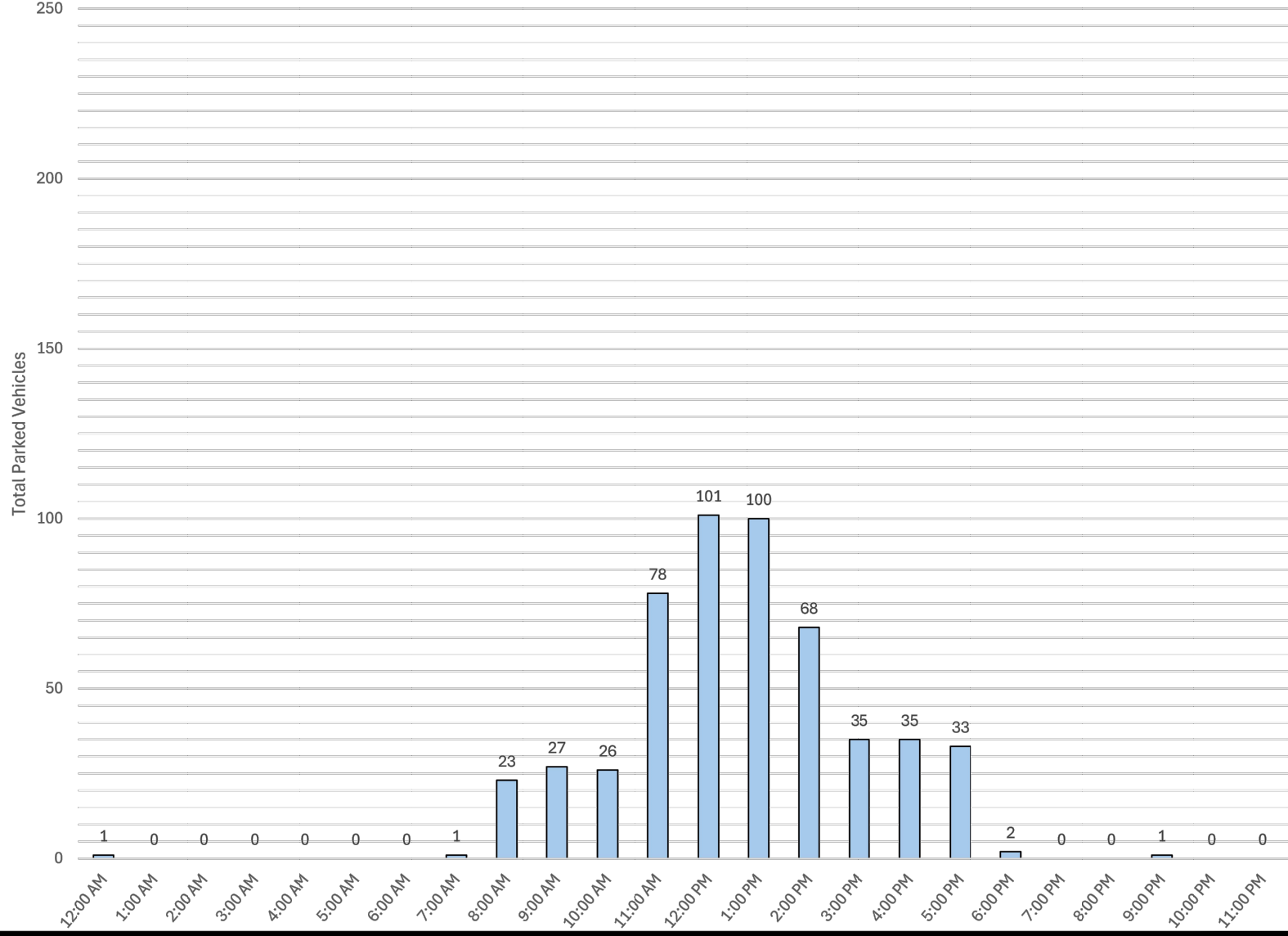


Figure 20

- *Saturday.* The observed peak parking demand during the Saturday was observed to be 214 vehicles. On a Saturday the facility generally had organized sports activity throughout the daytime hours resulting in the peak parking activity between 8:00 AM and 6:00 PM with the peak activity observed to occur between 10:00 AM and 11:00 AM. Observations indicate that park on street along Cow Pond Brook Road throughout the day with approximately 26 vehicles estimated to be parked during the peak midday period.
- *Sunday.* The observed trip demand during the Sunday was observed to be 101 vehicles. On a Sunday the facility generally had modest activity throughout the daytime hours of 8:00 AM and 5:00 PM with the peak activity parking occurring between the hours of 12:00 PM and 1:00 PM.

As shown the peak parking demands at the Cow Pond Brook Fields currently exceed the on-site parking supply of 190 unmarked spaces in the soccer/multi-use fields portion of the parking lot during the Saturday midday period.

Design Year Parking Activity

Under future conditions, an on-site parking supply of 295± spaces is proposed to accommodate the soccer/multi-use fields and baseball uses of the site. The estimated peak parking demands for the Design Year Condition (Soccer /Multi-use Fields) were based on observations above and for Design Year with concurrent Baseball use are based observations above plus parking demands as published in *ITE's Parking Generation* and empirical data from the Town.

Design Year (Soccer/Multi-use Fields)

The observed peak parking demand during the Saturday was observed to be 214 vehicles under fall use of the soccer/multi-use fields during non-tournament play. The proposed parking supply at the site of approximately 295 marked parking spaces is adequate to accommodate the critical peak design parking demand of the site under Design Year (soccer/multi-use field) use.

Design Year with Concurrent Baseball

Applying ITE parking demand rates for the closest available land use code results in a peak parking demand for the baseball field uses of approximately 66 to 75 spaces on a critical Saturday peak period resulting in a peak parking demand under Design Year with concurrent Baseball use ranging between 280 to 289 parking spaces. Industry standard rates are highly consistent with empirical parking demands for the baseball component; based on discussions with the Town, the baseball field uses are expected to need up to 100 parking spaces.

Parking Summary

In summary, the proposed parking supply at the site of approximately 295 marked parking spaces is adequate and consistent with the projected peak design parking demand of the site under Design Year (soccer/multi-use field) use and Design Year with concurrent Baseball use under non-tournament play. The Town should provide a parking management plan as outlined under *Recommendations and Conclusions* to ensure adequate parking is provided for atypical events that may occasionally occur at the Cow Pond Brook Fields.

RECOMMENDATIONS AND CONCLUSIONS

In summary, the proposed Cow Pond Brook Field improvements will not increase field capacity; therefore, are not expected to result in any increases in traffic at the site compared to historical conditions. The proposed access/egress layout results in adequate capacity to accommodate the traffic at the Site. MDM recommends the following access/egress improvements, parking management plan, and potential TDM actions to consider to enhance operations, safety, and traffic flow:

Access/Egress Improvements

- *Driveway Design.* The final driveway alignment, widths and curb radii shall be designed to achieve (a) approximate perpendicular orientation with Cow Pond Brook Road and (b) curb radii as required to accommodate the design vehicle for the Site as well as the Town of Groton Ladder truck. The driveway grading, orientation, signage, and landscaping should meet or exceed the minimum recommended stopping sight distance criteria by AASTHO.
- *Signs and Pavement Markings.* A STOP sign (R1-1) and STOP line pavement marking should be installed on the site driveway approaches to Cow Pond Brook Road that conform to Manual on Uniform Traffic Control Devices (MUTCD) standards. Wayfinding signs should be installed at the driveways and on-site to direct traffic to the different on-site uses and various field locations.
- *Sight Line Maintenance.* Plantings (shrubs, bushes) and structures (walls, fences, etc.) should be maintained at a height of 2 feet or less above the adjacent roadway grade within the sight lines in vicinity of the Cow Pond Brook Road in order to provide unobstructed sight lines.

Parking Management Plan

- MDM recommends that the Town provide a parking management plan and monitor of the parking supply as programming comes online so that the parking activity is adequately accommodated on-site. The Town should continue to schedule the fields uses with staggered start times to optimize field usage and avoid exceeding the available parking supply. To the extent special programming is planned for the site additional parking may be required subject to a parking management protocol to be developed by the Town.

TDM Plan

A range of potential traffic demand management (TDM) actions are identified below for use in local discussion that are aimed at enhancing travel safety along Cow Pond Brook Road to enhance safety and operations and traffic controls that enhance driver awareness and the control of vehicle speeds.

- No Parking Signage – Cow Pond Brook Road adjacent to Site
- Speed Cushions
- Center Islands
- Supplemental Driver Feedback Speed Radar Signs
- Road Diet – Pavement Markings to Visually Narrow Roadway
- Future Pedestrian and Bike Accommodations

CONCLUSIONS

In summary, MDM finds that the proposed access/egress plan and site layout results in adequate capacity to accommodate the traffic at the Site under Design Year with concurrent Baseball use. Implementation of access/egress improvements, a Parking Management Plan, and TDM considerations as outlined under *Recommendations and Conclusions* will establish a framework of minimizing Site traffic impacts.

ATTACHMENTS

- Traffic Volume Data
- Seasonal Adjustment Data
- Speed Data
- Trip Generation Data
- Trip Distribution
- Capacity Analysis
- Parking Analysis

□ Traffic Volume Data

MDM TRANSPORTATION CONSULTANTS, INC.

Page 1

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16-Oct-25 Thu	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	0			*	0		
12:15		*	0			*	0		
12:30		*	0			*	0		
12:45		*	7	0	7	*	1	0	1
01:00		*	6			*	9		
01:15		*	5			*	12		
01:30		*	5			*	6		
01:45		*	4	0	20	*	4	0	31
02:00		*	7			*	4		
02:15		*	9			*	10		
02:30		*	3			*	2		
02:45		*	2	0	21	*	7	0	23
03:00		*	10			*	16		
03:15		*	6			*	5		
03:30		*	5			*	4		
03:45		*	3	0	24	*	8	0	33
04:00		*	5			*	2		
04:15		*	3			*	7		
04:30		*	4			*	3		
04:45		*	47	0	59	*	9	0	21
05:00		*	19			*	13		
05:15		*	2			*	5		
05:30		*	10			*	1		
05:45		*	28	0	59	*	8	0	27
06:00		*	15			*	51		
06:15		*	2			*	12		
06:30		*	3			*	7		
06:45		*	3	0	23	*	2	0	72
07:00		*	1			*	23		
07:15		*	3			*	1		
07:30		*	0			*	17		
07:45		*	1	0	5	*	5	0	46
08:00		*	1			*	1		
08:15		*	0			*	0		
08:30		*	0			*	2		
08:45		*	1	0	2	*	0	0	3
09:00		*	0			*	1		
09:15		*	1			*	0		
09:30		*	0			*	1		
09:45		*	0	0	1	*	0	0	2
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	221			0	259	0	480
Percent		0.0%	100.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		221				259		480	

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	17-Oct-25 Fri	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	8			0	14		
12:15		0	7			0	10		
12:30		0	6			0	8		
12:45		0	6	0	27	0	8	0	40
01:00		0	8			0	3		
01:15		0	8			0	9		
01:30		0	5			0	13		
01:45		1	12	1	33	1	7	1	32
02:00		0	10			0	10		
02:15		1	10			0	10		
02:30		0	9			1	11		
02:45		0	10	1	39	0	10	1	41
03:00		0	10			0	19		
03:15		0	9			0	5		
03:30		0	6			0	15		
03:45		1	5	1	30	0	4	0	43
04:00		1	6			0	5		
04:15		1	11			0	12		
04:30		0	9			1	9		
04:45		0	25	2	51	1	5	2	31
05:00		1	20			0	12		
05:15		0	8			0	8		
05:30		1	3			2	2		
05:45		0	20	2	51	0	8	2	30
06:00		0	24			1	52		
06:15		2	5			0	5		
06:30		3	3			2	18		
06:45		6	3	11	35	0	2	3	77
07:00		4	5			0	1		
07:15		1	5			6	30		
07:30		7	0			10	2		
07:45		8	0	20	10	4	0	20	33
08:00		4	0			0	0		
08:15		5	0			4	0		
08:30		5	0			8	0		
08:45		8	0	22	0	6	0	18	0
09:00		4	0			8	0		
09:15		2	0			4	0		
09:30		10	0			4	0		
09:45		8	1	24	1	10	0	26	0
10:00		9	1			8	1		
10:15		10	0			11	0		
10:30		12	0			12	0		
10:45		10	0	41	1	10	1	41	2
11:00		9	0			14	0		
11:15		10	0			8	0		
11:30		8	0			9	0		
11:45		14	0	41	0	16	0	47	0
Total		166	278			161	329	327	607
Percent		37.4%	62.6%			32.9%	67.1%	35.0%	65.0%
Combined Total		444				490		934	

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	18-Oct-25 Sat	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	76			0	35		
12:15		0	22			0	18		
12:30		0	29			0	15		
12:45		0	40	0	167	0	20	0	88
01:00		0	37			0	19		
01:15		0	27			0	125		
01:30		0	27			0	119		
01:45		0	24	0	115	0	23	0	286
02:00		0	16			0	22		
02:15		0	23			0	17		
02:30		0	18			0	18		
02:45		1	14	1	71	0	43	0	100
03:00		1	20			1	77		
03:15		0	14			0	25		
03:30		0	17			0	16		
03:45		1	27	2	78	0	18	1	136
04:00		0	36			0	20		
04:15		0	17			1	21		
04:30		0	15			0	13		
04:45		0	2	0	70	0	4	1	58
05:00		0	1			0	6		
05:15		0	2			0	2		
05:30		0	0			0	2		
05:45		0	3	0	6	0	3	0	13
06:00		0	1			0	32		
06:15		1	0			1	3		
06:30		0	1			0	1		
06:45		2	0	3	2	0	0	1	36
07:00		1	0			0	1		
07:15		2	0			0	0		
07:30		5	0			2	0		
07:45		18	0	26	0	2	0	4	1
08:00		46	0			11	0		
08:15		53	0			9	0		
08:30		69	0			6	0		
08:45		24	0	192	0	9	0	35	0
09:00		18	0			11	0		
09:15		21	0			7	0		
09:30		50	0			54	0		
09:45		73	0	162	0	35	0	107	0
10:00		82	0			29	0		
10:15		51	0			71	0		
10:30		34	0			36	0		
10:45		33	0	200	0	35	0	171	0
11:00		24	0			128	0		
11:15		31	0			48	0		
11:30		46	0			31	0		
11:45		76	0	177	0	119	0	326	0
Total		763	509			646	718	1409	1227
Percent		60.0%	40.0%			47.4%	52.6%	53.5%	46.5%
Combined Total		1272				1364		2636	

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	19-Oct-25 Sun	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	2			0	4		
12:15		0	1			0	0		
12:30		0	0			0	1		
12:45		1	1	1	4	1	0	1	5
01:00		0	0			0	2		
01:15		0	1			0	2		
01:30		0	0			0	0		
01:45		0	2	0	3	0	1	0	5
02:00		0	0			0	0		
02:15		0	1			0	2		
02:30		0	0			0	1		
02:45		0	2	0	3	0	0	0	3
03:00		1	1			1	0		
03:15		0	1			0	1		
03:30		0	0			0	0		
03:45		0	3	1	5	0	5	1	6
04:00		0	1			0	1		
04:15		0	2			0	3		
04:30		0	0			0	1		
04:45		0	0	0	3	0	2	0	7
05:00		0	0			0	0		
05:15		0	1			0	0		
05:30		0	2			0	0		
05:45		0	0	0	3	0	2	0	2
06:00		0	0			0	0		
06:15		0	1			0	0		
06:30		0	1			0	2		
06:45		0	1	0	3	0	1	0	3
07:00		1	0			0	1		
07:15		0	0			0	0		
07:30		3	0			0	0		
07:45		1	0	5	0	1	0	1	1
08:00		1	0			1	0		
08:15		0	0			1	0		
08:30		9	1			1	0		
08:45		6	0	16	1	1	1	4	1
09:00		3	0			0	0		
09:15		0	1			0	1		
09:30		1	0			0	0		
09:45		0	0	4	1	0	0	0	1
10:00		1	0			6	0		
10:15		0	0			3	0		
10:30		2	0			6	0		
10:45		1	0	4	0	0	0	15	0
11:00		2	0			0	0		
11:15		2	0			4	0		
11:30		0	0			3	0		
11:45		3	0	7	0	6	0	13	0
Total		38	26			35	34	73	60
Percent		59.4%	40.6%			50.7%	49.3%	54.9%	45.1%
Combined Total		64				69		133	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 1

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16-Oct-25 Thu	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	0			*	0		
12:15		*	1			*	2		
12:30		*	4			*	6		
12:45		*	10	0	15	*	6	0	14
01:00		*	6			*	7		
01:15		*	5			*	10		
01:30		*	7			*	7		
01:45		*	5	0	23	*	4	0	28
02:00		*	7			*	4		
02:15		*	8			*	13		
02:30		*	3			*	1		
02:45		*	5	0	23	*	7	0	25
03:00		*	10			*	15		
03:15		*	5			*	5		
03:30		*	6			*	5		
03:45		*	4	0	25	*	6	0	31
04:00		*	5			*	3		
04:15		*	4			*	7		
04:30		*	8			*	3		
04:45		*	48	0	65	*	8	0	21
05:00		*	17			*	11		
05:15		*	2			*	8		
05:30		*	14			*	1		
05:45		*	34	0	67	*	8	0	28
06:00		*	15			*	49		
06:15		*	1			*	10		
06:30		*	4			*	7		
06:45		*	3	0	23	*	2	0	68
07:00		*	1			*	28		
07:15		*	2			*	1		
07:30		*	0			*	20		
07:45		*	1	0	4	*	4	0	53
08:00		*	1			*	1		
08:15		*	1			*	1		
08:30		*	0			*	2		
08:45		*	2	0	4	*	0	0	4
09:00		*	0			*	1		
09:15		*	1			*	0		
09:30		*	0			*	1		
09:45		*	0	0	1	*	0	0	2
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	250			0	274	0	524
Percent		0.0%	100.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		250				274		524	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 2

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	17-Oct-25 Fri	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	6			0	14		
12:15		0	8			0	8		
12:30		0	4			0	8		
12:45		0	8	0	26	0	7	0	37
01:00		0	8			0	2		
01:15		0	9			0	10		
01:30		1	5			0	11		
01:45		0	10	1	32	1	6	1	29
02:00		0	11			0	13		
02:15		1	10			0	9		
02:30		0	11			1	11		
02:45		0	10	1	42	0	9	1	42
03:00		0	11			0	19		
03:15		0	7			0	10		
03:30		0	7			0	8		
03:45		1	6	1	31	0	4	0	41
04:00		1	5			0	8		
04:15		1	15			0	9		
04:30		0	9			1	11		
04:45		0	32	2	61	1	5	2	33
05:00		1	15			0	10		
05:15		0	11			0	8		
05:30		1	9			1	6		
05:45		0	28	2	63	0	9	1	33
06:00		1	16			1	52		
06:15		1	4			2	5		
06:30		3	6			0	15		
06:45		8	4	13	30	0	3	3	75
07:00		2	9			0	4		
07:15		1	1			6	28		
07:30		7	0			8	3		
07:45		9	0	19	10	5	0	19	35
08:00		3	0			1	1		
08:15		6	0			4	0		
08:30		5	0			7	0		
08:45		7	1	21	1	6	0	18	1
09:00		4	0			7	0		
09:15		3	0			3	0		
09:30		11	0			4	0		
09:45		7	1	25	1	9	1	23	1
10:00		13	1			11	0		
10:15		9	0			9	0		
10:30		11	0			9	0		
10:45		9	0	42	1	10	1	39	1
11:00		11	0			16	0		
11:15		8	0			6	0		
11:30		11	0			9	0		
11:45		14	0	44	0	13	0	44	0
Total		171	298			151	328		
Percent		36.5%	63.5%			31.5%	68.5%		
Combined Total		469				479			
								948	

28 Lord Road, Suite 280
Marlborough, MA, 01752

Latitude: 0' 0.0000 Undefined

Start Time	18-Oct-25 Sat	Northbound		Hour Totals		Southbound				Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	46			0	30				
12:15		0	27			0	12				
12:30		0	31			0	17				
12:45		0	39	0	143	0	18	0	77	0	220
01:00		0	35			0	23				
01:15		0	32			0	145				
01:30		0	29			0	66				
01:45		0	26	0	122	0	21	0	255	0	377
02:00		0	19			0	17				
02:15		0	17			0	21				
02:30		1	20			0	16				
02:45		1	17	2	73	0	55	0	109	2	182
03:00		0	19			1	59				
03:15		0	14			0	25				
03:30		1	20			0	14				
03:45		0	39	1	92	0	17	1	115	2	207
04:00		0	22			0	22				
04:15		0	21			2	17				
04:30		0	6			0	11				
04:45		0	5	0	54	0	6	2	56	2	110
05:00		0	2			0	5				
05:15		0	1			0	3				
05:30		0	0			0	3				
05:45		0	1	0	4	0	2	0	13	0	17
06:00		1	1			0	32				
06:15		0	1			0	2				
06:30		0	0			0	1				
06:45		3	0	4	2	0	1	0	36	4	38
07:00		1	0			0	0				
07:15		2	0			1	0				
07:30		6	0			1	0				
07:45		27	1	36	1	7	1	9	1	45	2
08:00		55	0			9	0				
08:15		61	0			8	0				
08:30		48	0			7	0				
08:45		23	0	187	0	10	0	34	0	221	0
09:00		16	0			9	0				
09:15		28	0			14	0				
09:30		53	0			66	0				
09:45		92	0	189	0	24	0	113	0	302	0
10:00		68	0			20	0				
10:15		44	0			82	0				
10:30		37	0			32	0				
10:45		31	0	180	0	49	0	183	0	363	0
11:00		22	0			111	0				
11:15		38	0			40	0				
11:30		57	0			28	0				
11:45		91	0	208	0	115	0	294	0	502	0
Total		807	491			636	662			1443	1153
Percent		62.2%	37.8%			49.0%	51.0%			55.6%	44.4%
Combined Total		1298				1298				2596	

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	19-Oct-25 Sun	Northbound		Hour Totals		Southbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	17			0	2		
12:15		0	9			0	1		
12:30		1	3			0	3		
12:45		0	3	1	32	0	2	0	8
01:00		0	2			1	25		
01:15		0	3			0	11		
01:30		0	2			0	3		
01:45		0	2	0	9	0	4	1	43
02:00		0	4			0	22		
02:15		0	11			0	43		
02:30		0	10			0	10		
02:45		1	10	1	35	0	2	0	77
03:00		0	6			1	1		
03:15		0	2			0	0		
03:30		0	3			0	1		
03:45		0	1	0	12	0	4	1	6
04:00		0	1			0	1		
04:15		0	4			0	5		
04:30		0	0			0	2		
04:45		0	1	0	6	0	2	0	10
05:00		0	1			0	1		
05:15		0	2			0	1		
05:30		0	1			0	24		
05:45		0	1	0	5	0	13	0	39
06:00		0	0			0	0		
06:15		0	1			0	0		
06:30		0	2			0	2		
06:45		0	0	0	3	0	1	0	3
07:00		1	0			0	1		
07:15		2	0			0	0		
07:30		1	0			0	0		
07:45		1	0	5	0	1	0	1	1
08:00		0	0			2	0		
08:15		3	0			0	0		
08:30		10	1			1	1		
08:45		15	0	28	1	2	0	5	1
09:00		2	0			0	0		
09:15		1	1			0	1		
09:30		1	0			0	0		
09:45		0	0	4	1	1	0	1	1
10:00		1	0			8	0		
10:15		1	0			1	0		
10:30		2	0			5	0		
10:45		0	0	4	0	0	0	14	0
11:00		10	0			1	0		
11:15		14	0			17	0		
11:30		25	0			9	0		
11:45		42	0	91	0	6	0	33	0
Total		134	104			56	189		
Percent		56.3%	43.7%			22.9%	77.1%		
Combined Total		238				245			
								483	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 1

Soccer Fields (North)
At North Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16-Oct-25 Thu	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	*			*	*		
12:15		*	*			*	*		
12:30		*	*			*	*		
12:45		*	*	0	0	*	*	0	0
01:00		*	*			*	*		
01:15		*	*			*	*		
01:30		*	*			*	*		
01:45		*	*	0	0	*	*	0	0
02:00		*	0			*	0		
02:15		*	0			*	0		
02:30		*	0			*	0		
02:45		*	0	0	0	*	0	0	0
03:00		*	0			*	0		
03:15		*	0			*	0		
03:30		*	0			*	1		
03:45		*	0	0	0	*	0	0	1
04:00		*	0			*	0		
04:15		*	0			*	0		
04:30		*	0			*	0		
04:45		*	0	0	0	*	31	0	31
05:00		*	0			*	32		
05:15		*	0			*	2		
05:30		*	0			*	2		
05:45		*	0	0	0	*	23	0	59
06:00		*	0			*	23		
06:15		*	0			*	3		
06:30		*	0			*	3		
06:45		*	0	0	0	*	2	0	31
07:00		*	0			*	1		
07:15		*	0			*	2		
07:30		*	0			*	1		
07:45		*	0	0	0	*	0	0	4
08:00		*	0			*	0		
08:15		*	0			*	0		
08:30		*	0			*	0		
08:45		*	0	0	0	*	0	0	0
09:00		*	0			*	0		
09:15		*	0			*	0		
09:30		*	0			*	0		
09:45		*	0	0	0	*	0	0	0
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	0			0	126	0	126
Percent		0.0%	0.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		0				126		126	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 2

Soccer Fields (North)
At North Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	17-Oct-25 Fri	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	0			0	0		
12:30		0	1			0	0		
12:45		0	0	0	1	0	1	0	2
01:00		0	0			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	0	0	0	0	0
02:00		0	0			0	0		
02:15		0	0			0	0		
02:30		0	0			0	0		
02:45		0	0	0	0	0	1	0	1
03:00		0	0			0	0		
03:15		0	0			0	0		
03:30		0	0			0	1		
03:45		0	0	0	0	0	0	0	1
04:00		0	0			0	0		
04:15		0	0			0	6		
04:30		0	0			0	4		
04:45		0	0	0	0	0	20	0	30
05:00		0	0			0	21		
05:15		0	0			0	10		
05:30		0	0			0	2		
05:45		0	0	0	0	0	19	0	52
06:00		0	0			0	25		
06:15		0	0			0	4		
06:30		0	0			0	2		
06:45		0	0	0	0	0	4	0	35
07:00		0	0			0	5		
07:15		0	0			0	5		
07:30		0	0			0	0		
07:45		0	0	0	0	0	0	0	10
08:00		0	0			0	0		
08:15		0	0			1	0		
08:30		0	0			0	0		
08:45		0	0	0	0	1	0	2	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		0	0	0	0	1	0	1	0
10:00		0	0			0	0		
10:15		0	0			0	0		
10:30		0	0			0	0		
10:45		0	0	0	0	0	0	0	0
11:00		0	0			1	0		
11:15		0	0			1	0		
11:30		0	0			0	0		
11:45		0	0	0	0	0	0	2	0
Total		0	1			5	130	5	131
Percent		0.0%	100.0%			3.7%	96.3%	3.7%	96.3%
Combined Total		1				135		136	

MDM TRANSPORTATION CONSULTANTS, INC.

Soccer Fields (North)
At North Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	18-Oct-25 Sat	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	41		
12:15		0	0			0	14		
12:30		0	0			0	16		
12:45		0	0	0	0	0	15	0	86
01:00		0	0			0	22		
01:15		0	1			0	9		
01:30		0	0			0	10		
01:45		0	0	0	1	0	8	0	49
02:00		0	0			0	3		
02:15		0	0			0	3		
02:30		0	0			0	1		
02:45		0	0	0	0	0	2	0	9
03:00		0	0			0	2		
03:15		0	0			0	2		
03:30		0	0			0	0		
03:45		0	0	0	0	0	6	0	10
04:00		0	0			0	12		
04:15		0	0			0	8		
04:30		0	0			0	6		
04:45		0	0	0	0	0	0	0	26
05:00		0	0			0	1		
05:15		0	0			0	1		
05:30		0	0			0	0		
05:45		0	0	0	0	0	1	0	3
06:00		0	0			0	1		
06:15		0	0			0	0		
06:30		0	0			0	0		
06:45		0	0	0	0	0	0	0	1
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		0	0			2	0		
07:45		0	0	0	0	11	0	13	0
08:00		0	0			41	0		
08:15		0	0			46	0		
08:30		0	0			47	0		
08:45		0	0	0	0	10	0	144	0
09:00		0	0			6	0		
09:15		0	0			11	0		
09:30		0	0			33	0		
09:45		0	0	0	0	50	0	100	0
10:00		0	0			43	0		
10:15		0	0			20	0		
10:30		0	0			10	0		
10:45		0	0	0	0	11	0	84	0
11:00		0	0			11	0		
11:15		0	0			17	0		
11:30		0	0			26	0		
11:45		1	0	1	0	47	0	101	0
Total		1	1			442	184	443	185
Percent		50.0%	50.0%			70.6%	29.4%	70.5%	29.5%
Combined Total		2				626		628	

MDM TRANSPORTATION CONSULTANTS, INC.

Soccer Fields (North)
At North Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	19-Oct-25 Sun	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	0			0	0		
12:30		0	0			0	0		
12:45		0	0	0	0	0	0	0	0
01:00		0	0			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	0	0	0	0	0
02:00		0	0			0	0		
02:15		0	0			0	0		
02:30		0	0			0	0		
02:45		0	0	0	0	0	0	0	0
03:00		0	0			0	1		
03:15		0	0			0	0		
03:30		0	0			0	0		
03:45		0	0	0	0	0	2	0	3
04:00		0	0			0	1		
04:15		0	0			0	2		
04:30		0	0			0	0		
04:45		0	0	0	0	0	0	0	3
05:00		0	0			0	0		
05:15		0	0			0	0		
05:30		0	0			0	1		
05:45		0	0	0	0	0	0	0	1
06:00		0	0			0	0		
06:15		0	0			0	0		
06:30		0	0			0	2		
06:45		0	0	0	0	0	0	0	2
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		0	0			1	0		
07:45		0	0	0	0	0	0	1	0
08:00		0	0			0	0		
08:15		0	0			0	0		
08:30		0	0			5	0		
08:45		0	0	0	0	1	0	6	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		0	0	0	0	0	0	0	0
10:00		0	0			0	0		
10:15		0	0			0	0		
10:30		0	0			0	0		
10:45		0	0	0	0	0	0	0	0
11:00		0	0			0	0		
11:15		0	0			1	0		
11:30		0	0			0	0		
11:45		0	0	0	0	0	0	1	0
Total		0	0			8	9	8	9
Percent		0.0%	0.0%			47.1%	52.9%	47.1%	52.9%
Combined Total		0				17		17	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 1

Soccer Fields (South)
At South Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	23-Oct-25 Thu	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	*			*	*		
12:15		*	*			*	*		
12:30		*	*			*	*		
12:45		*	*	0	0	*	*	0	0
01:00		*	*			*	*		
01:15		*	*			*	*		
01:30		*	*			*	*		
01:45		*	*	0	0	*	*	0	0
02:00		*	0			*	0		
02:15		*	0			*	1		
02:30		*	0			*	0		
02:45		*	0	0	0	*	0	0	1
03:00		*	1			*	0		
03:15		*	2			*	1		
03:30		*	0			*	0		
03:45		*	1	0	4	*	0	0	5
04:00		*	0			*	1		
04:15		*	0			*	0		
04:30		*	0			*	0		
04:45		*	5	0	5	*	0	0	6
05:00		*	8			*	0		
05:15		*	2			*	0		
05:30		*	0			*	0		
05:45		*	7	0	17	*	0	0	17
06:00		*	48			*	0		
06:15		*	7			*	0		
06:30		*	6			*	0		
06:45		*	2	0	63	*	0	0	63
07:00		*	22			*	0		
07:15		*	0			*	0		
07:30		*	15			*	0		
07:45		*	4	0	41	*	0	0	41
08:00		*	0			*	0		
08:15		*	0			*	0		
08:30		*	0			*	0		
08:45		*	0	0	0	*	0	0	0
09:00		*	0			*	0		
09:15		*	0			*	0		
09:30		*	0			*	0		
09:45		*	0	0	0	*	0	0	0
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	130			0	3	0	133
Percent		0.0%	100.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		130				3		133	

MDM TRANSPORTATION CONSULTANTS, INC.

Soccer Fields (South)
At South Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	24-Oct-25 Fri	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	1			0	0		
12:30		0	0			0	1		
12:45		0	1	0	2	0	0	0	1
01:00		0	0			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	0	0	1	0	1
02:00		0	1			0	1		
02:15		0	1			0	0		
02:30		0	0			0	0		
02:45		0	0	0	2	0	0	0	1
03:00		0	1			0	0		
03:15		0	0			0	0		
03:30		0	1			0	0		
03:45		0	0	0	2	0	0	0	0
04:00		0	0			0	0		
04:15		0	4			0	1		
04:30		0	3			0	0		
04:45		0	4	0	11	0	0	0	1
05:00		0	9			0	0		
05:15		0	6			0	0		
05:30		0	1			0	0		
05:45		0	12	0	28	0	0	0	0
06:00		0	44			0	0		
06:15		0	5			0	1		
06:30		0	10			0	0		
06:45		0	2	0	61	0	0	0	1
07:00		0	1			0	0		
07:15		0	28			0	0		
07:30		0	0			0	0		
07:45		0	0	0	29	0	0	0	0
08:00		0	0			0	0		
08:15		0	0			0	0		
08:30		0	0			0	0		
08:45		2	0	2	0	0	0	0	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		1	0	1	0	0	0	0	0
10:00		0	0			1	0		
10:15		2	0			1	0		
10:30		0	0			0	0		
10:45		0	0	2	0	0	0	2	0
11:00		1	0			0	0		
11:15		2	0			1	0		
11:30		0	0			0	0		
11:45		0	0	3	0	1	0	2	0
Total		8	135			4	5	12	140
Percent		5.6%	94.4%			44.4%	55.6%	7.9%	92.1%
Combined Total		143				9		152	

MDM TRANSPORTATION CONSULTANTS, INC.

Soccer Fields (South)
At South Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	25-Oct-25 Sat	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	7			0	2		
12:15		0	3			0	2		
12:30		0	2			0	0		
12:45		0	9	0	21	0	1	0	5
01:00		0	16			0	0		
01:15		0	121			0	0		
01:30		0	27			0	0		
01:45		0	0	0	164	0	0	0	0
02:00		0	0			0	0		
02:15		0	2			0	0		
02:30		0	1			0	0		
02:45		0	40	0	43	0	0	0	0
03:00		0	23			0	1		
03:15		0	2			0	0		
03:30		0	0			0	1		
03:45		0	1	0	26	0	1	0	3
04:00		0	2			0	0		
04:15		0	0			0	0		
04:30		0	1			0	0		
04:45		0	1	0	4	0	0	0	0
05:00		0	0			0	0		
05:15		0	3			0	1		
05:30		0	2			0	0		
05:45		0	2	0	7	0	0	0	1
06:00		0	30			0	0		
06:15		0	3			0	0		
06:30		0	0			0	0		
06:45		0	0	0	33	0	0	0	0
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		2	0			0	0		
07:45		3	0	5	0	0	0	0	0
08:00		9	0			0	0		
08:15		5	0			2	0		
08:30		4	0			1	0		
08:45		0	0	18	0	1	0	4	0
09:00		2	0			0	0		
09:15		6	0			0	0		
09:30		53	0			0	0		
09:45		15	0	76	0	1	0	1	0
10:00		22	0			1	0		
10:15		53	0			3	0		
10:30		10	0			1	0		
10:45		17	0	102	0	0	0	5	0
11:00		60	0			0	0		
11:15		16	0			0	0		
11:30		16	0			2	0		
11:45		60	0	152	0	4	0	6	0
Total		353	298			16	9	369	307
Percent		54.2%	45.8%			64.0%	36.0%	54.6%	45.4%
Combined Total		651				25		676	

MDM TRANSPORTATION CONSULTANTS, INC.

Soccer Fields (South)
At South Soccer Fields Driveway
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	26-Oct-25 Sun	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	1		
12:15		0	0			0	0		
12:30		0	1			0	0		
12:45		0	0	0	1	0	1	0	2
01:00		0	2			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	2	0	0	0	0
02:00		0	0			0	0		
02:15		0	0			0	0		
02:30		0	0			0	1		
02:45		0	0	0	0	0	0	0	1
03:00		0	0			0	0		
03:15		0	0			0	0		
03:30		0	1			0	1		
03:45		0	3	0	4	0	0	0	1
04:00		0	1			0	0		
04:15		0	2			0	0		
04:30		0	0			0	0		
04:45		0	1	0	4	0	0	0	0
05:00		0	0			0	0		
05:15		0	0			0	0		
05:30		0	0			0	0		
05:45		0	1	0	1	0	0	0	0
06:00		0	0			0	0		
06:15		0	0			0	1		
06:30		0	2			0	1		
06:45		0	2	0	4	0	0	0	2
07:00		0	1			0	0		
07:15		0	0			0	0		
07:30		0	0			0	0		
07:45		0	0	0	1	0	0	0	0
08:00		1	0			0	0		
08:15		0	0			3	0		
08:30		0	0			3	0		
08:45		0	0	1	0	3	0	9	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		1	0	1	0	0	0	0	0
10:00		6	0			0	0		
10:15		1	0			0	0		
10:30		3	0			0	0		
10:45		0	0	10	0	0	0	0	0
11:00		1	0			0	0		
11:15		2	0			0	0		
11:30		4	0			0	0		
11:45		2	0	9	0	2	0	2	0
Total		21	17			11	6	32	23
Percent		55.3%	44.7%			64.7%	35.3%	58.2%	41.8%
Combined Total		38				17		55	

MDM TRANSPORTATION CONSULTANTS, INC.

Page 1

Baseball Fields
Just North of the Baseball Fields Entrance
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16-Oct-25 Thu	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	*			*	*		
12:15		*	*			*	*		
12:30		*	*			*	*		
12:45		*	*	0	0	*	*	0	0
01:00		*	0			*	0		
01:15		*	0			*	0		
01:30		*	0			*	0		
01:45		*	0	0	0	*	0	0	0
02:00		*	1			*	0		
02:15		*	0			*	1		
02:30		*	0			*	0		
02:45		*	1	0	2	*	1	0	2
03:00		*	1			*	0		
03:15		*	0			*	1		
03:30		*	0			*	0		
03:45		*	0	0	1	*	0	0	1
04:00		*	0			*	0		
04:15		*	0			*	0		
04:30		*	0			*	0		
04:45		*	1	0	1	*	0	0	0
05:00		*	0			*	0		
05:15		*	0			*	1		
05:30		*	2			*	0		
05:45		*	5	0	7	*	0	0	1
06:00		*	2			*	1		
06:15		*	1			*	0		
06:30		*	0			*	0		
06:45		*	0	0	3	*	0	0	1
07:00		*	0			*	7		
07:15		*	0			*	1		
07:30		*	0			*	1		
07:45		*	0	0	0	*	0	0	9
08:00		*	0			*	0		
08:15		*	0			*	0		
08:30		*	0			*	0		
08:45		*	0	0	0	*	0	0	0
09:00		*	0			*	0		
09:15		*	0			*	0		
09:30		*	0			*	0		
09:45		*	0	0	0	*	0	0	0
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	14			0	14	0	28
Percent		0.0%	100.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		14				14		28	

MDM TRANSPORTATION CONSULTANTS, INC.

Baseball Fields
Just North of the Baseball Fields Entrance
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	17-Oct-25 Fri	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	0			0	0		
12:30		0	0			0	0		
12:45		0	0	0	0	0	0	0	0
01:00		0	0			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	0	0	0	0	0
02:00		0	1			0	0		
02:15		0	0			0	0		
02:30		0	0			0	1		
02:45		0	0	0	1	0	0	0	1
03:00		0	0			0	0		
03:15		0	0			0	0		
03:30		0	0			0	0		
03:45		0	0	0	0	0	0	0	0
04:00		0	0			0	0		
04:15		0	0			0	0		
04:30		0	0			0	0		
04:45		0	0	0	0	0	0	0	0
05:00		0	0			0	0		
05:15		0	6			0	0		
05:30		0	3			0	2		
05:45		0	0	0	9	0	1	0	3
06:00		0	1			0	0		
06:15		0	1			0	0		
06:30		0	2			0	2		
06:45		0	0	0	4	0	1	0	3
07:00		0	0			0	3		
07:15		0	0			0	0		
07:30		0	0			0	3		
07:45		0	0	0	0	0	0	0	6
08:00		0	0			0	0		
08:15		0	0			0	0		
08:30		0	0			0	0		
08:45		1	0	1	0	1	0	1	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		0	0	0	0	0	0	0	0
10:00		1	0			0	0		
10:15		0	0			1	0		
10:30		0	0			1	0		
10:45		0	0	1	0	0	0	2	0
11:00		1	0			0	0		
11:15		0	0			0	0		
11:30		0	0			0	0		
11:45		0	0	1	0	0	0	0	0
Total		3	14			3	13	6	27
Percent		17.6%	82.4%			18.8%	81.3%	18.2%	81.8%
Combined Total		17				16		33	

MDM TRANSPORTATION CONSULTANTS, INC.

Baseball Fields
Just North of the Baseball Fields Entrance
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	18-Oct-25 Sat	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	1			0	1		
12:30		0	3			0	0		
12:45		0	0	0	4	0	1	0	2
01:00		0	1			0	1		
01:15		0	4			0	2		
01:30		0	1			0	2		
01:45		0	1	0	7	0	1	0	6
02:00		0	0			0	0		
02:15		0	0			0	0		
02:30		0	1			0	0		
02:45		0	0	0	1	0	1	0	1
03:00		0	1			0	0		
03:15		0	0			0	4		
03:30		0	0			0	0		
03:45		0	1	0	2	0	0	0	4
04:00		0	0			0	1		
04:15		0	1			0	0		
04:30		0	0			0	1		
04:45		0	1	0	2	0	2	0	4
05:00		0	0			0	0		
05:15		0	0			0	0		
05:30		0	0			0	0		
05:45		0	0	0	0	0	0	0	0
06:00		0	0			0	0		
06:15		0	0			0	0		
06:30		0	0			0	0		
06:45		0	0	0	0	0	0	0	0
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		0	0			0	0		
07:45		0	0	0	0	0	0	0	0
08:00		1	0			0	0		
08:15		0	0			0	0		
08:30		0	0			1	0		
08:45		2	0	3	0	2	0	3	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		1	0	1	0	1	0	1	0
10:00		3	0			3	0		
10:15		1	0			0	0		
10:30		2	0			0	0		
10:45		1	0	7	0	0	0	3	0
11:00		2	0			1	0		
11:15		0	0			2	0		
11:30		2	0			1	0		
11:45		3	0	7	0	6	0	10	0
Total		18	16			17	17	35	33
Percent		52.9%	47.1%			50.0%	50.0%	51.5%	48.5%
Combined Total		34				34		68	

MDM TRANSPORTATION CONSULTANTS, INC.

Baseball Fields
Just North of the Baseball Fields Entrance
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	19-Oct-25 Sun	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	15			0	3		
12:15		0	9			0	0		
12:30		0	3			0	2		
12:45		1	1	1	28	0	2	0	7
01:00		0	2			1	19		
01:15		0	2			0	12		
01:30		0	0			0	2		
01:45		0	1	0	5	0	3	1	36
02:00		0	1			0	19		
02:15		0	9			0	41		
02:30		0	11			0	9		
02:45		0	7	0	28	0	0	0	69
03:00		0	5			0	0		
03:15		0	1			0	0		
03:30		0	1			0	1		
03:45		0	0	0	7	0	0	0	1
04:00		0	0			0	0		
04:15		0	1			0	1		
04:30		0	1			0	1		
04:45		0	1	0	3	0	1	0	3
05:00		0	0			0	0		
05:15		0	1			0	1		
05:30		0	0			0	24		
05:45		0	0	0	1	0	11	0	36
06:00		0	0			0	0		
06:15		0	0			0	0		
06:30		0	0			0	0		
06:45		0	0	0	0	0	0	0	0
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		0	0			0	0		
07:45		0	0	0	0	0	0	0	0
08:00		0	0			0	0		
08:15		0	0			0	0		
08:30		0	0			0	0		
08:45		9	0	9	0	1	0	1	0
09:00		2	0			0	0		
09:15		2	1			0	1		
09:30		0	0			0	0		
09:45		0	0	4	1	0	0	0	1
10:00		0	0			0	0		
10:15		0	0			0	0		
10:30		0	0			0	0		
10:45		0	0	0	0	0	0	0	0
11:00		5	0			1	0		
11:15		16	0			13	0		
11:30		24	0			2	0		
11:45		40	0	85	0	1	0	17	0
Total		99	73			19	153		
Percent		57.6%	42.4%			11.0%	89.0%		
Combined Total		172				172			
								344	

MDM TRANSPORTATION CONSULTANTS, INC.

Total Field Lot Volumes
At Field Lot Driveways
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	23-Oct-25 Thu	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		*	*			*	*		
12:15		*	*			*	*		
12:30		*	*			*	*		
12:45		*	*	0	0	*	*	0	0
01:00		*	0			*	0		
01:15		*	0			*	0		
01:30		*	0			*	0		
01:45		*	0	0	0	*	0	0	0
02:00		*	1			*	0		
02:15		*	0			*	2		
02:30		*	0			*	0		
02:45		*	1	0	2	*	1	0	3
03:00		*	2			*	0		
03:15		*	2			*	2		
03:30		*	0			*	1		
03:45		*	1	0	5	*	0	0	3
04:00		*	0			*	1		
04:15		*	0			*	0		
04:30		*	0			*	0		
04:45		*	6	0	6	*	31	0	32
05:00		*	8			*	32		
05:15		*	2			*	3		
05:30		*	2			*	2		
05:45		*	12	0	24	*	23	0	60
06:00		*	50			*	24		
06:15		*	8			*	3		
06:30		*	6			*	3		
06:45		*	2	0	66	*	2	0	32
07:00		*	22			*	8		
07:15		*	0			*	3		
07:30		*	15			*	2		
07:45		*	4	0	41	*	0	0	13
08:00		*	0			*	0		
08:15		*	0			*	0		
08:30		*	0			*	0		
08:45		*	0	0	0	*	0	0	0
09:00		*	0			*	0		
09:15		*	0			*	0		
09:30		*	0			*	0		
09:45		*	0	0	0	*	0	0	0
10:00		*	0			*	0		
10:15		*	0			*	0		
10:30		*	0			*	0		
10:45		*	0	0	0	*	0	0	0
11:00		*	0			*	0		
11:15		*	0			*	0		
11:30		*	0			*	0		
11:45		*	0	0	0	*	0	0	0
Total		0	144			0	143	0	287
Percent		0.0%	100.0%			0.0%	100.0%	0.0%	100.0%
Combined Total		144				143		287	

MDM TRANSPORTATION CONSULTANTS, INC.

Total Field Lot Volumes
At Field Lot Driveways
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	24-Oct-25 Fri	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	0			0	0		
12:15		0	1			0	0		
12:30		0	1			0	1		
12:45		0	1	0	3	0	1	0	5
01:00		0	0			0	0		
01:15		0	0			0	0		
01:30		0	0			0	0		
01:45		0	0	0	0	0	1	0	1
02:00		0	2			0	1		
02:15		0	1			0	0		
02:30		0	0			0	1		
02:45		0	0	0	3	0	1	0	6
03:00		0	1			0	0		
03:15		0	0			0	0		
03:30		0	1			0	1		
03:45		0	0	0	2	0	0	0	3
04:00		0	0			0	0		
04:15		0	4			0	7		
04:30		0	3			0	4		
04:45		0	4	0	11	0	20	0	42
05:00		0	9			0	21		
05:15		0	12			0	10		
05:30		0	4			0	4		
05:45		0	12	0	37	0	20	0	92
06:00		0	45			0	25		
06:15		0	6			0	5		
06:30		0	12			0	4		
06:45		0	2	0	65	0	5	0	104
07:00		0	1			0	8		
07:15		0	28			0	5		
07:30		0	0			0	3		
07:45		0	0	0	29	0	0	0	45
08:00		0	0			0	0		
08:15		0	0			1	0		
08:30		0	0			0	0		
08:45		3	0	3	0	2	0	3	0
09:00		0	0			0	0		
09:15		0	0			0	0		
09:30		0	0			0	0		
09:45		1	0	1	0	1	0	1	0
10:00		1	0			1	0		
10:15		2	0			2	0		
10:30		0	0			1	0		
10:45		0	0	3	0	0	0	4	0
11:00		2	0			1	0		
11:15		2	0			2	0		
11:30		0	0			0	0		
11:45		0	0	4	0	1	0	4	0
Total		11	150			12	148	23	298
Percent		6.8%	93.2%			7.5%	92.5%	7.2%	92.8%
Combined Total		161				160		321	

MDM TRANSPORTATION CONSULTANTS, INC.

Total Field Lot Volumes
At Field Lot Driveways
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	25-Oct-25 Sat	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	7			0	43		
12:15		0	4			0	17		
12:30		0	5			0	16		
12:45		0	9	0	25	0	17	0	93
01:00		0	17			0	23		
01:15		0	126			0	11		
01:30		0	28			0	12		
01:45		0	1	0	172	0	9	0	55
02:00		0	0			0	3		
02:15		0	2			0	3		
02:30		0	2			0	1		
02:45		0	40	0	44	0	3	0	10
03:00		0	24			0	3		
03:15		0	2			0	6		
03:30		0	0			0	1		
03:45		0	2	0	28	0	7	0	17
04:00		0	2			0	13		
04:15		0	1			0	8		
04:30		0	1			0	7		
04:45		0	2	0	6	0	2	0	30
05:00		0	0			0	1		
05:15		0	3			0	2		
05:30		0	2			0	0		
05:45		0	2	0	7	0	1	0	4
06:00		0	30			0	1		
06:15		0	3			0	0		
06:30		0	0			0	0		
06:45		0	0	0	33	0	0	0	1
07:00		0	0			0	0		
07:15		0	0			0	0		
07:30		2	0			2	0		
07:45		3	0	5	0	11	0	13	0
08:00		10	0			41	0		
08:15		5	0			48	0		
08:30		4	0			49	0		
08:45		2	0	21	0	13	0	151	0
09:00		2	0			6	0		
09:15		6	0			11	0		
09:30		53	0			33	0		
09:45		16	0	77	0	52	0	102	0
10:00		25	0			47	0		
10:15		54	0			23	0		
10:30		12	0			11	0		
10:45		18	0	109	0	11	0	92	0
11:00		62	0			12	0		
11:15		16	0			19	0		
11:30		18	0			29	0		
11:45		64	0	160	0	57	0	117	0
Total		372	315			475	210	847	525
Percent		54.1%	45.9%			69.3%	30.7%	61.7%	38.3%
Combined Total		687				685		1372	

MDM TRANSPORTATION CONSULTANTS, INC.

Total Field Lot Volumes
At Field Lot Driveways
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	26-Oct-25 Sun	Westbound		Hour Totals		Eastbound		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	15			0	4		
12:15		0	9			0	0		
12:30		0	4			0	2		
12:45		1	1	1	29	0	3	0	9
01:00		0	4			1	19		
01:15		0	2			0	12		
01:30		0	0			0	2		
01:45		0	1	0	7	0	3	1	36
02:00		0	1			0	19		
02:15		0	9			0	41		
02:30		0	11			0	10		
02:45		0	7	0	28	0	0	0	70
03:00		0	5			0	1		
03:15		0	1			0	0		
03:30		0	2			0	2		
03:45		0	3	0	11	0	2	0	5
04:00		0	1			0	1		
04:15		0	3			0	3		
04:30		0	1			0	1		
04:45		0	2	0	7	0	1	0	6
05:00		0	0			0	0		
05:15		0	1			0	1		
05:30		0	0			0	25		
05:45		0	1	0	2	0	11	0	37
06:00		0	0			0	0		
06:15		0	0			0	1		
06:30		0	2			0	3		
06:45		0	2	0	4	0	0	0	4
07:00		0	1			0	0		
07:15		0	0			0	0		
07:30		0	0			1	0		
07:45		0	0	0	1	0	0	1	0
08:00		1	0			0	0		
08:15		0	0			3	0		
08:30		0	0			8	0		
08:45		9	0	10	0	5	0	16	0
09:00		2	0			0	0		
09:15		2	1			0	1		
09:30		0	0			0	0		
09:45		1	0	5	1	0	0	0	1
10:00		6	0			0	0		
10:15		1	0			0	0		
10:30		3	0			0	0		
10:45		0	0	10	0	0	0	0	0
11:00		6	0			1	0		
11:15		18	0			14	0		
11:30		28	0			2	0		
11:45		42	0	94	0	3	0	20	0
Total		120	90			38	168		
Percent		57.1%	42.9%			18.4%	81.6%		
Combined Total		210				206		416	

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North					Transfer Facility From East					Cow Pond Brook Road From South					Soccer Fields (North) 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
03:00 PM	0	0	0	0	0	0	0	4	0	4	0	8	0	0	8	0	0	0	0	0	12
03:15 PM	0	0	0	0	0	0	0	4	0	4	0	4	1	0	5	0	0	0	0	0	9
03:30 PM	0	0	0	0	0	0	0	5	0	5	0	3	1	0	4	0	0	0	0	0	9
03:45 PM	0	1	0	0	1	0	0	1	0	1	0	4	0	0	4	0	0	0	0	0	6
Total	0	1	0	0	1	0	0	14	0	14	0	19	2	0	21	0	0	0	0	0	36
04:00 PM	0	0	0	0	0	2	0	2	0	4	0	3	0	0	3	0	0	0	0	0	7
04:15 PM	0	0	0	0	0	0	0	5	0	5	0	2	0	0	2	0	0	0	0	0	7
04:30 PM	0	0	0	0	0	0	0	2	0	2	0	1	1	0	2	0	0	0	0	0	4
04:45 PM	0	1	0	0	1	0	1	2	0	3	0	3	28	0	31	0	0	0	0	0	35
Total	0	1	0	0	1	2	1	11	0	14	0	9	29	0	38	0	0	0	0	0	53
05:00 PM	0	0	0	0	0	0	0	2	0	2	0	0	32	1	33	0	0	0	2	2	37
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	23	0	23	0	0	0	0	0	23
Total	0	0	0	0	0	0	0	2	0	2	0	0	59	1	60	0	0	0	2	2	64
06:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	23	0	24	0	0	0	0	0	25
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	3
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	3
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	3
Total	0	1	0	0	1	0	0	0	0	0	0	2	31	0	33	0	0	0	0	0	34
Grand Total	0	3	0	0	3	2	1	27	0	30	0	30	121	1	152	0	0	0	2	2	187
Apprch %	0	100	0	0		6.7	3.3	90	0		0	19.7	79.6	0.7		0	0	0	100		
Total %	0	1.6	0	0	1.6	1.1	0.5	14.4	0	16	0	16	64.7	0.5	81.3	0	0	0	1.1	1.1	
Lights	0	3	0	0	3	2	1	26	0	29	0	29	121	1	151	0	0	0	2	2	185
% Lights	0	100	0	0	100	100	100	96.3	0	96.7	0	96.7	100	100	99.3	0	0	0	100	100	98.9
Mediums	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	2
% Mediums	0	0	0	0	0	0	0	3.7	0	3.3	0	3.3	0	0	0.7	0	0	0	0	0	1.1</

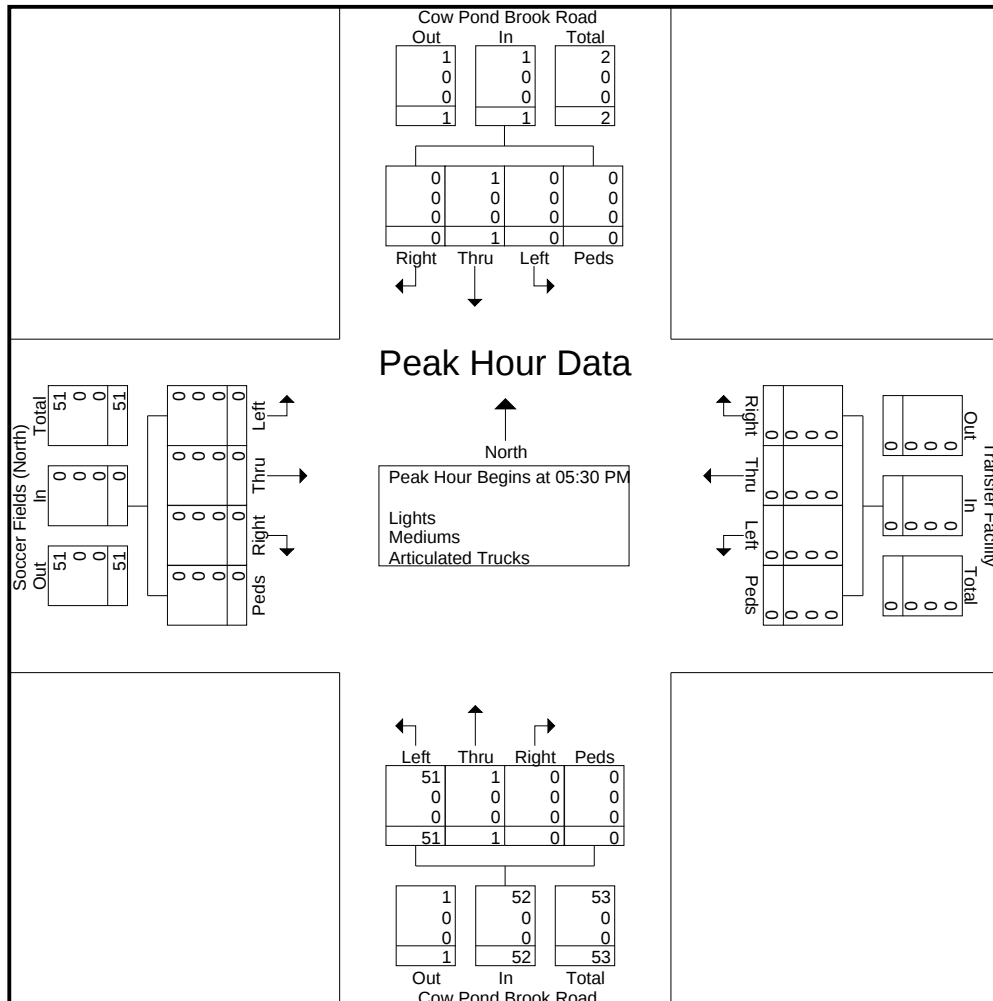
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 2

	Cow Pond Brook Road From North					Transfer Facility From East					Cow Pond Brook Road From South					Soccer Fields (North) 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 05:30 PM to 06:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:30 PM																					
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	23	0	23	0	0	0	0	0	23
06:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	23	0	24	0	0	0	0	0	25
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	3
Total Volume	0	1	0	0	1	0	0	0	0	0	0	1	51	0	52	0	0	0	0	0	53
% App. Total	0	100	0	0		0	0	0	0		0	1.9	98.1	0		0	0	0	0		
PHF	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.250	.554	.000	.542	.000	.000	.000	.000	.000	.530
Lights	0	1	0	0	1	0	0	0	0	0	0	1	51	0	52	0	0	0	0	0	53
% Lights	0	100	0	0	100	0	0	0	0	0	0	100	100	0	100	0	0	0	0	0	100
Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

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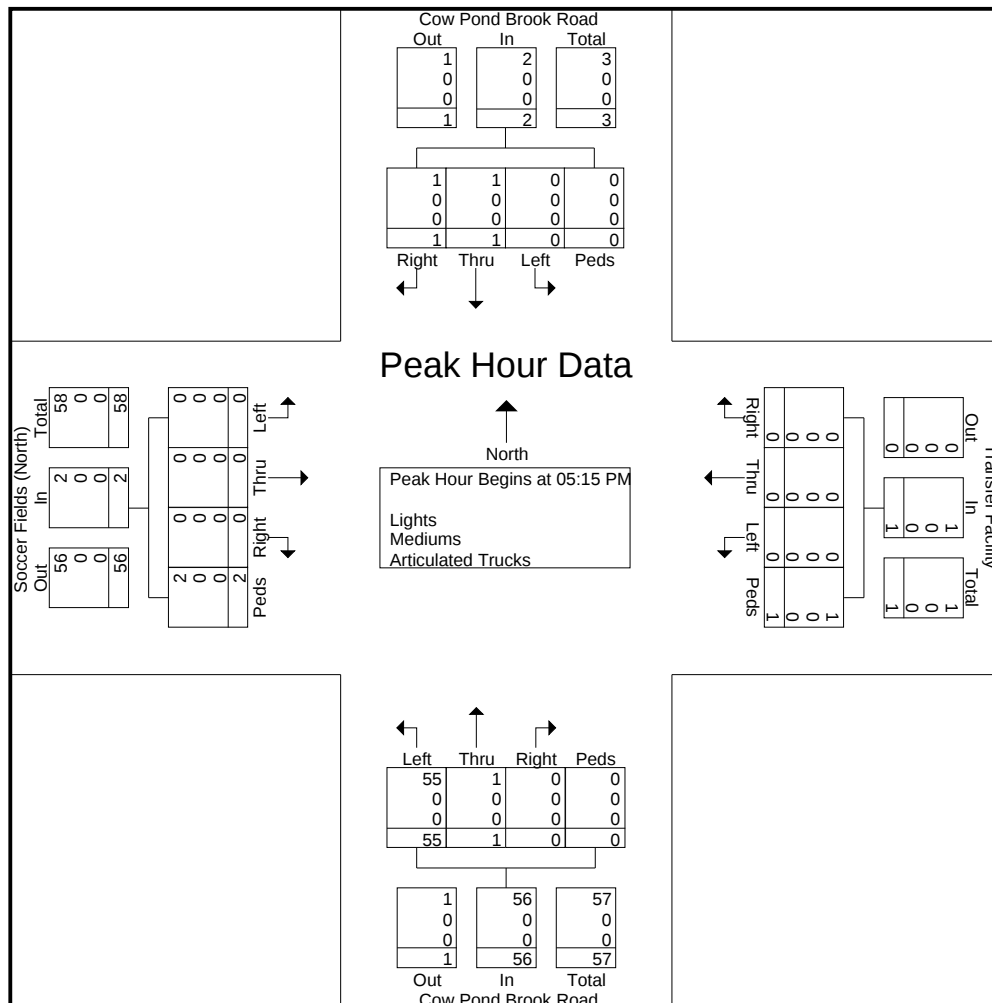
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 2

	Cow Pond Brook Road From North					Transfer Facility From East					Cow Pond Brook Road From South					Soccer Fields (North) 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 05:15 PM to 06:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:15 PM																					
05:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	10	0	10	0	0	0	1	1	12
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	1	1	3
05:45 PM	0	0	0	0	0	0	0	0	1	1	0	1	19	0	20	0	0	0	0	0	21
06:00 PM	1	0	0	0	1	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	25
Total Volume	1	1	0	0	2	0	0	0	1	1	0	1	55	0	56	0	0	0	2	2	61
% App. Total	50	50	0	0		0	0	0	100		0	1.8	98.2	0		0	0	0	100		
PHF	.250	.250	.000	.000	.500	.000	.000	.000	.250	.250	.000	.250	.573	.000	.583	.000	.000	.000	.500	.500	.610
Lights	1	1	0	0	2	0	0	0	1	1	0	1	55	0	56	0	0	0	2	2	61
% Lights	100	100	0	0	100	0	0	0	100	100	0	100	100	0	100	0	0	0	100	100	100
Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

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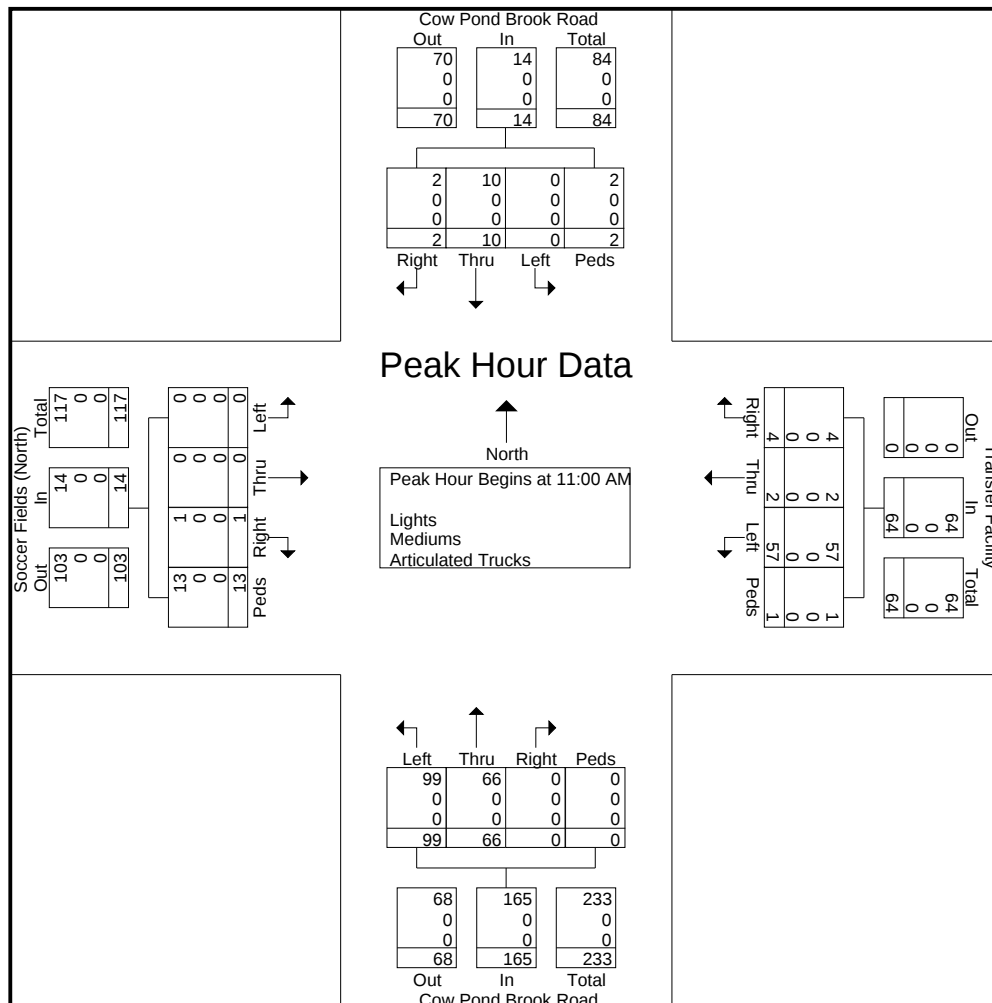
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Transfer Facility
West: Soccer Fields (North)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (N) Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North					Transfer Facility From East					Cow Pond Brook Road From South					Soccer Fields (North) 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 11:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:00 AM																					
11:00 AM	0	4	0	2	6	1	0	22	1	24	0	16	11	0	27	0	0	0	9	9	66
11:15 AM	1	1	0	0	2	0	0	13	0	13	0	18	16	0	34	0	0	0	0	0	49
11:30 AM	0	1	0	0	1	0	0	10	0	10	0	15	26	0	41	0	0	0	0	0	52
11:45 AM	1	4	0	0	5	3	2	12	0	17	0	17	46	0	63	1	0	0	4	5	90
Total Volume	2	10	0	2	14	4	2	57	1	64	0	66	99	0	165	1	0	0	13	14	257
% App. Total	14.3	71.4	0	14.3		6.2	3.1	89.1	1.6		0	40	60	0		7.1	0	0	92.9		
PHF	.500	.625	.000	.250	.583	.333	.250	.648	.250	.667	.000	.917	.538	.000	.655	.250	.000	.000	.361	.389	.714
Lights	2	10	0	2	14	4	2	57	1	64	0	66	99	0	165	1	0	0	13	14	257
% Lights	100	100	0	100	100	100	100	100	100	100	0	100	100	0	100	100	0	0	100	100	100
Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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
03:00 PM	0	6	0	0	6	0	0	7	0	7	3	7	0	0	10	1	0	0	0	1	24
03:15 PM	0	2	0	0	2	0	0	1	0	1	0	5	1	0	6	1	0	1	0	2	11
03:30 PM	0	4	0	0	4	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	9
03:45 PM	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	9
Total	0	17	0	0	17	0	0	8	0	8	4	19	1	0	24	3	0	1	0	4	53
04:00 PM	0	2	0	0	2	0	0	2	0	2	1	3	1	0	5	0	0	0	0	0	9
04:15 PM	0	3	0	0	3	0	0	2	0	2	0	3	0	0	3	0	0	0	0	0	8
04:30 PM	0	3	0	0	3	0	0	1	0	1	1	3	0	0	4	0	0	0	0	0	8
04:45 PM	0	2	0	0	2	0	0	1	0	1	4	44	0	0	48	5	0	0	0	5	56
Total	0	10	0	0	10	0	0	6	0	6	6	53	1	0	60	5	0	0	0	5	81
05:00 PM	0	2	0	0	2	0	0	2	0	2	0	18	0	0	18	7	0	0	0	7	29
05:15 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3	0	0	1	4	7
05:30 PM	0	0	0	0	0	0	0	1	1	2	2	7	0	0	9	0	0	0	2	2	13
05:45 PM	0	0	0	0	0	0	0	3	0	3	0	27	0	0	27	7	0	0	0	7	37
Total	0	3	0	0	3	0	0	6	1	7	2	54	0	0	56	17	0	0	3	20	86
06:00 PM	0	1	0	0	1	0	0	0	0	0	1	15	0	0	16	46	0	2	0	48	65
06:15 PM	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	7	0	0	0	7	10
06:30 PM	0	0	0	0	0	0	0	1	0	1	0	3	0	0	3	6	0	0	0	6	10
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	0	0	2	5
Total	0	1	0	0	1	0	0	3	0	3	1	22	0	0	23	61	0	2	0	63	90
Grand Total	0	31	0	0	31	0	0	23	1	24	13	148	2	0	163	86	0	3	3	92	310
Apprch %	0	100	0	0		0	0	95.8	4.2		8	90.8	1.2	0		93.5	0	3.3	3.3		
Total %	0	10	0	0	10	0	0	7.4	0.3	7.7	4.2	47.7	0.6	0	52.6	27.7	0	1	1	29.7	
Lights	0	30	0	0	30	0	0	21	1	22	7	147	2	0	156	86	0	3	3	92	300
% Lights	0	96.8	0	0	96.8	0	0	91.3	100	91.7	53.8	99.3	100	0	95.7	100	0	100	100	100	96.8
Mediums	0	1	0	0	1	0	0	2	0	2	5	1	0	0	6	0	0	0	0	0	9
% Mediums	0	3.2	0	0	3.2	0	0	8.7	0	8.3	38.5	0.7	0	0	3.7	0	0	0	0	0	2.9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	7.7	0	0	0	0.6	0	0	0	0	0	0.3

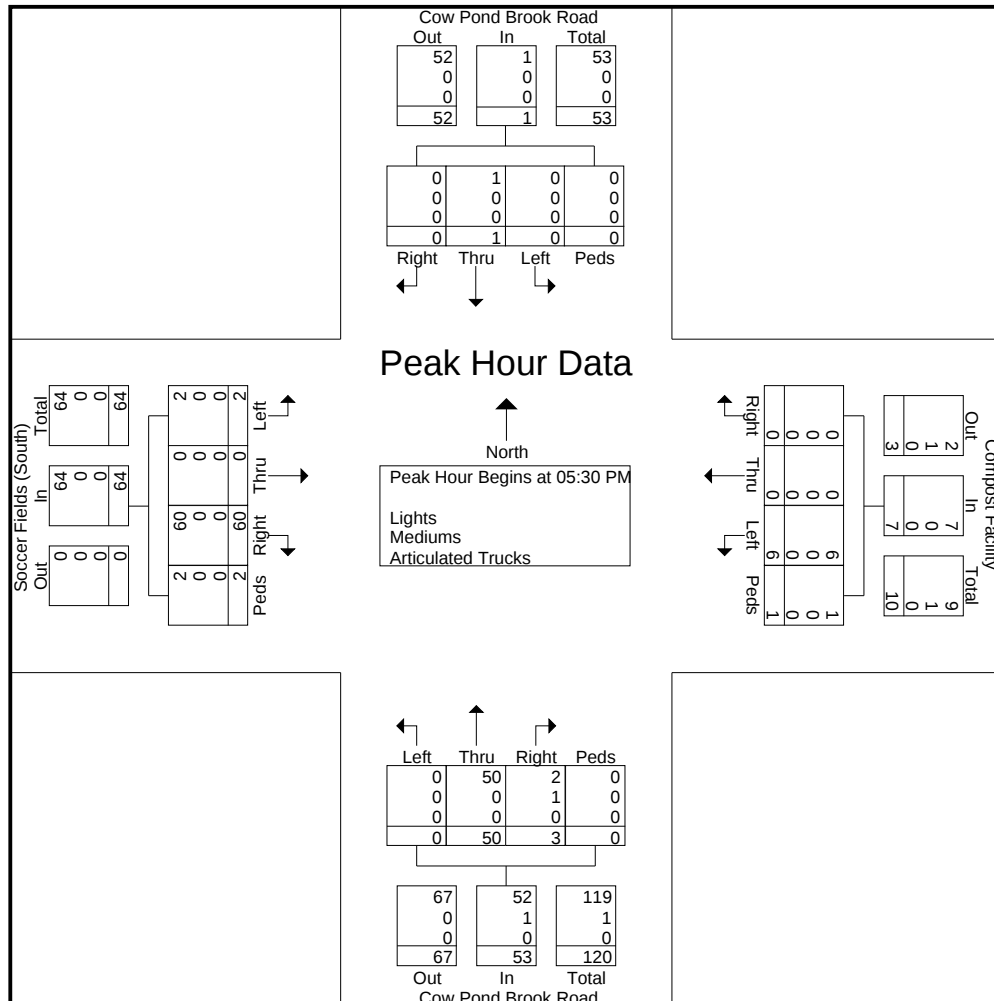
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 2

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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 03:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:30 PM																					
05:30 PM	0	0	0	0	0	0	0	1	1	2	2	7	0	0	9	0	0	0	2	2	13
05:45 PM	0	0	0	0	0	0	0	3	0	3	0	27	0	0	27	7	0	0	0	7	37
06:00 PM	0	1	0	0	1	0	0	0	0	0	1	15	0	0	16	46	0	2	0	48	65
06:15 PM	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	7	0	0	0	7	10
Total Volume	0	1	0	0	1	0	0	6	1	7	3	50	0	0	53	60	0	2	2	64	125
% App. Total	0	100	0	0		0	0	85.7	14.3		5.7	94.3	0	0		93.8	0	3.1	3.1		
PHF	.000	.250	.000	.000	.250	.000	.000	.500	.250	.583	.375	.463	.000	.000	.491	.326	.000	.250	.250	.333	.481
Lights	0	1	0	0	1	0	0	6	1	7	2	50	0	0	52	60	0	2	2	64	124
% Lights	0	100	0	0	100	0	0	100	100	100	66.7	100	0	0	98.1	100	0	100	100	100	99.2
Mediums	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
% Mediums	0	0	0	0	0	0	0	0	0	0	33.3	0	0	0	1.9	0	0	0	0	0	0.8
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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
03:00 PM	0	8	0	0	8	0	0	9	0	9	1	9	0	0	10	1	0	0	0	1	28
03:15 PM	0	9	0	0	9	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	16
03:30 PM	0	8	0	0	8	0	0	1	0	1	1	5	0	0	6	1	0	0	0	1	16
03:45 PM	0	1	0	0	1	0	0	0	0	0	0	5	0	1	6	0	0	0	0	0	7
Total	0	26	0	0	26	0	0	10	0	10	2	26	0	1	29	2	0	0	0	2	67
04:00 PM	0	5	0	0	5	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	11
04:15 PM	0	7	0	0	7	0	0	0	0	0	1	10	1	0	12	4	0	0	0	4	23
04:30 PM	0	3	0	0	3	0	0	1	0	1	1	8	0	1	10	3	0	0	1	4	18
04:45 PM	0	3	0	0	3	0	0	1	0	1	0	31	0	0	31	4	0	1	0	5	40
Total	0	18	0	0	18	0	0	3	0	3	2	54	1	1	58	11	0	1	1	13	92
05:00 PM	0	2	0	0	2	0	0	0	2	2	0	16	0	0	16	9	0	0	2	11	31
05:15 PM	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	5	0	0	1	6	12
05:30 PM	0	0	0	1	1	0	0	1	2	3	0	3	0	0	3	1	0	0	1	2	9
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	29	0	0	29	11	0	0	1	12	41
Total	0	2	0	1	3	0	0	1	4	5	1	53	0	0	54	26	0	0	5	31	93
06:00 PM	0	2	0	0	2	0	0	0	0	0	1	13	0	0	14	44	0	0	0	44	60
06:15 PM	0	1	0	0	1	1	0	0	0	1	0	2	1	0	3	5	0	0	0	5	10
06:30 PM	0	0	0	0	0	0	0	1	0	1	0	3	0	0	3	10	0	0	0	10	14
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	2	0	0	0	2	6
Total	0	3	0	0	3	1	0	1	0	2	1	22	1	0	24	61	0	0	0	61	90
Grand Total	0	49	0	1	50	1	0	15	4	20	6	155	2	2	165	100	0	1	6	107	342
Apprch %	0	98	0	2		5	0	75	20		3.6	93.9	1.2	1.2		93.5	0	0.9	5.6		
Total %	0	14.3	0	0.3	14.6	0.3	0	4.4	1.2	5.8	1.8	45.3	0.6	0.6	48.2	29.2	0	0.3	1.8	31.3	
Lights	0	49	0	1	50	1	0	13	4	18	2	155	2	2	161	100	0	1	6	107	336
% Lights	0	100	0	100	100	100	0	86.7	100	90	33.3	100	100	100	97.6	100	0	100	100	100	98.2
Mediums	0	0	0	0	0	0	0	2	0	2	4	0	0	0	4	0	0	0	0	0	6
% Mediums	0	0	0	0	0	0	0	13.3	0	10	66.7	0	0	0	2.4	0	0	0	0	0	1.8
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

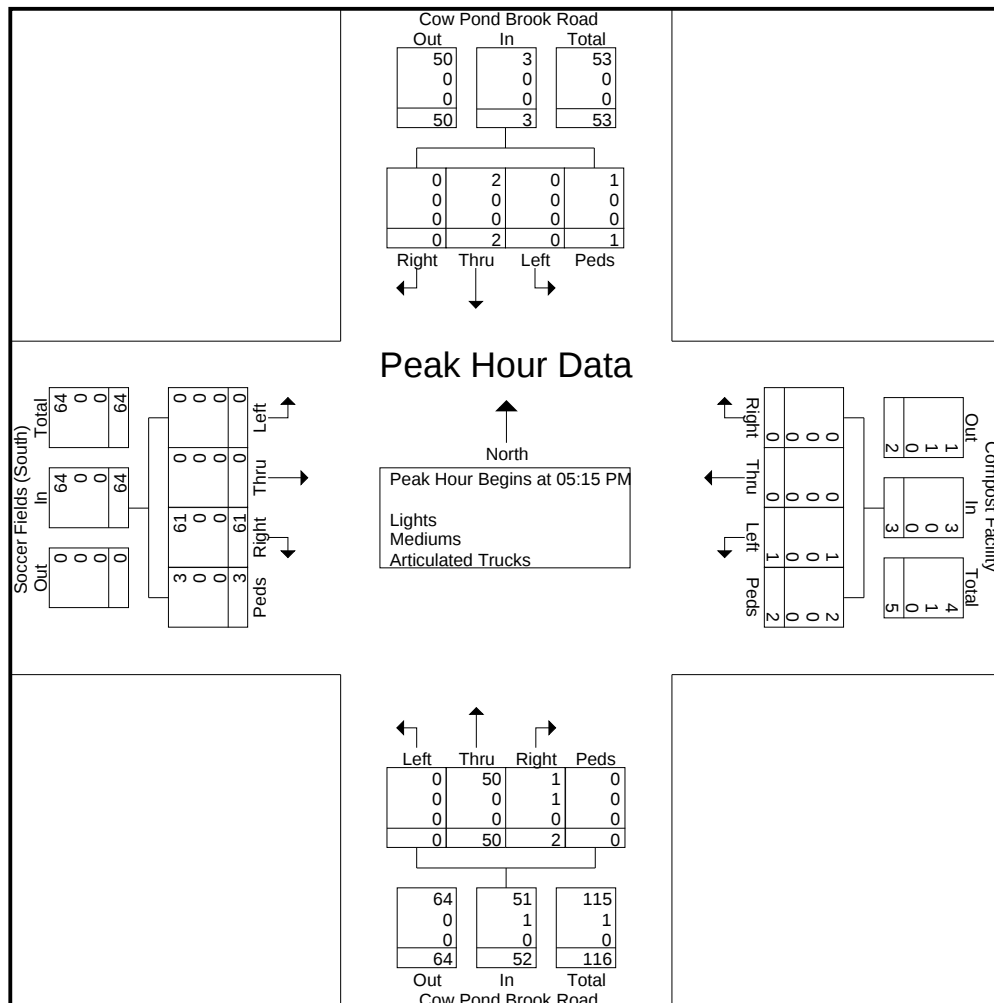
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 2

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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 05:15 PM to 06:00 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	1	5	0	0	6	5	0	0	1	6	12
05:30 PM	0	0	0	1	1	0	0	1	2	3	0	3	0	0	3	1	0	0	1	2	9
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	29	0	0	29	11	0	0	1	12	41
06:00 PM	0	2	0	0	2	0	0	0	0	0	1	13	0	0	14	44	0	0	0	44	60
Total Volume	0	2	0	1	3	0	0	1	2	3	2	50	0	0	52	61	0	0	3	64	122
% App. Total	0	66.7	0	33.3		0	0	33.3	66.7		3.8	96.2	0	0		95.3	0	0	4.7		
PHF	.000	.250	.000	.250	.375	.000	.000	.250	.250	.250	.500	.431	.000	.000	.448	.347	.000	.000	.750	.364	.508
Lights	0	2	0	1	3	0	0	1	2	3	1	50	0	0	51	61	0	0	3	64	121
% Lights	0	100	0	100	100	0	0	100	100	100	50.0	100	0	0	98.1	100	0	0	100	100	99.2
Mediums	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
% Mediums	0	0	0	0	0	0	0	0	0	0	50.0	0	0	0	1.9	0	0	0	0	0	0.8
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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
10:00 AM	0	12	2	64	78	1	0	3	7	11	19	49	1	1	70	10	10	3	1	24	183
10:15 AM	0	20	1	23	44	1	0	10	0	11	4	34	3	0	41	50	1	0	3	54	150
10:30 AM	0	21	1	6	28	1	0	1	1	3	4	33	1	0	38	7	0	1	1	9	78
10:45 AM	0	24	0	10	34	0	0	6	0	6	1	29	0	0	30	16	0	1	0	17	87
Total	0	77	4	103	184	3	0	20	8	31	28	145	5	1	179	83	11	5	5	104	498
11:00 AM	0	33	0	20	53	0	0	12	1	13	0	21	0	0	21	57	1	0	0	58	145
11:15 AM	0	13	0	5	18	0	0	2	0	2	1	37	0	0	38	16	0	0	1	17	75
11:30 AM	0	15	0	39	54	0	0	7	0	7	2	52	1	0	55	16	0	0	0	16	132
11:45 AM	0	19	0	60	79	0	0	23	0	23	10	71	1	2	84	58	1	0	6	65	251
Total	0	80	0	124	204	0	0	44	1	45	13	181	2	2	198	147	2	0	7	156	603
12:00 PM	0	20	0	4	24	1	1	3	0	5	2	45	1	0	48	6	0	1	0	7	84
12:15 PM	0	9	0	2	11	1	0	2	0	3	1	23	2	0	26	1	1	1	1	4	44
12:30 PM	0	16	0	2	18	0	0	0	0	0	2	28	0	0	30	1	0	1	0	2	50
12:45 PM	0	11	0	9	20	0	0	1	0	1	4	30	1	0	35	6	2	1	1	10	66
Total	0	56	0	17	73	2	1	6	0	9	9	126	4	0	139	14	3	4	2	23	244
01:00 PM	0	14	0	11	25	4	0	3	0	7	6	28	0	5	39	9	3	4	0	16	87
01:15 PM	0	28	0	38	66	0	0	19	0	19	1	29	0	0	30	121	0	1	0	122	237
01:30 PM	0	22	1	2	25	3	0	3	0	6	0	26	0	0	26	26	0	1	0	27	84
01:45 PM	0	17	0	0	17	1	0	0	0	1	1	26	0	0	27	0	0	0	0	0	45
Total	0	81	1	51	133	8	0	25	0	33	8	109	0	5	122	156	3	6	0	165	453
Grand Total	0	294	5	295	594	13	1	95	9	118	58	561	11	8	638	400	19	15	14	448	1798
Apprch %	0	49.5	0.8	49.7		11	0.8	80.5	7.6		9.1	87.9	1.7	1.3		89.3	4.2	3.3	3.1		
Total %	0	16.4	0.3	16.4	33	0.7	0.1	5.3	0.5	6.6	3.2	31.2	0.6	0.4	35.5	22.2	1.1	0.8	0.8	24.9	
Lights	0	294	5	295	594	13	1	94	9	117	56	561	11	8	636	400	19	15	14	448	1795
% Lights	0	100	100	100	100	100	100	98.9	100	99.2	96.6	100	100	100	99.7	100	100	100	100	100	99.8
Mediums	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2	0	0	0	0	0	3
% Mediums	0	0	0	0	0	0	0	1.1	0	0.8	3.4	0	0	0	0.3	0	0	0	0	0	0.2
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

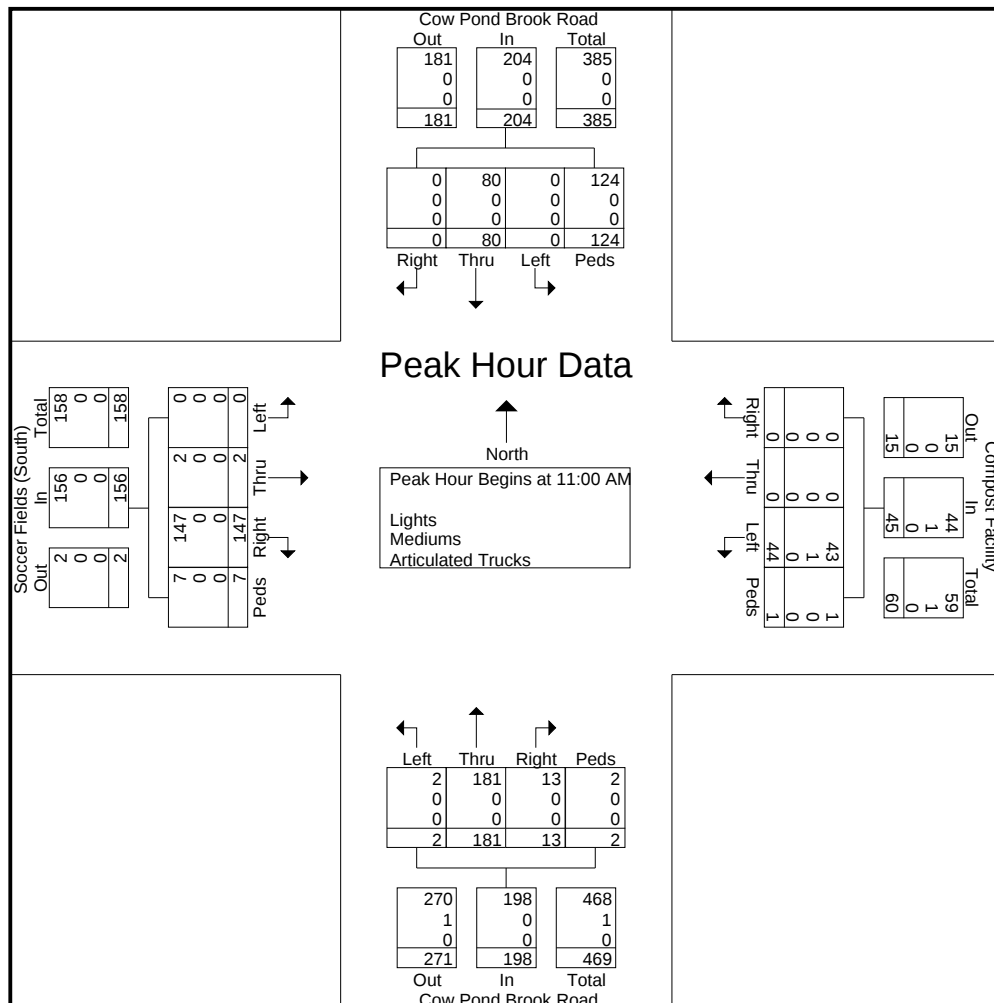
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
East: Compost Facility
West: Soccer Fields (South)
Groton, MA

File Name : 1462 Cow Pond Brook Road at Soccer Fields (S) Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North					Compost Facility From East					Cow Pond Brook Road From South					Soccer Fields (South) 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 11:00 AM																					
11:00 AM	0	33	0	20	53	0	0	12	1	13	0	21	0	0	21	57	1	0	0	58	145
11:15 AM	0	13	0	5	18	0	0	2	0	2	1	37	0	0	38	16	0	0	1	17	75
11:30 AM	0	15	0	39	54	0	0	7	0	7	2	52	1	0	55	16	0	0	0	16	132
11:45 AM	0	19	0	60	79	0	0	23	0	23	10	71	1	2	84	58	1	0	6	65	251
Total Volume	0	80	0	124	204	0	0	44	1	45	13	181	2	2	198	147	2	0	7	156	603
% App. Total	0	39.2	0	60.8		0	0	97.8	2.2		6.6	91.4	1	1		94.2	1.3	0	4.5		
PHF	.000	.606	.000	.517	.646	.000	.000	.478	.250	.489	.325	.637	.500	.250	.589	.634	.500	.000	.292	.600	.601
Lights	0	80	0	124	204	0	0	43	1	44	13	181	2	2	198	147	2	0	7	156	602
% Lights	0	100	0	100	100	0	0	97.7	100	97.8	100	100	100	100	100	100	100	0	100	100	99.8
Mediums	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
% Mediums	0	0	0	0	0	0	0	2.3	0	2.2	0	0	0	0	0	0	0	0	0	0	0.2
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
West: Baseball Fields
Groton, MA

File Name : 1462 Cow Pond Brook Road at Baseball Fields Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

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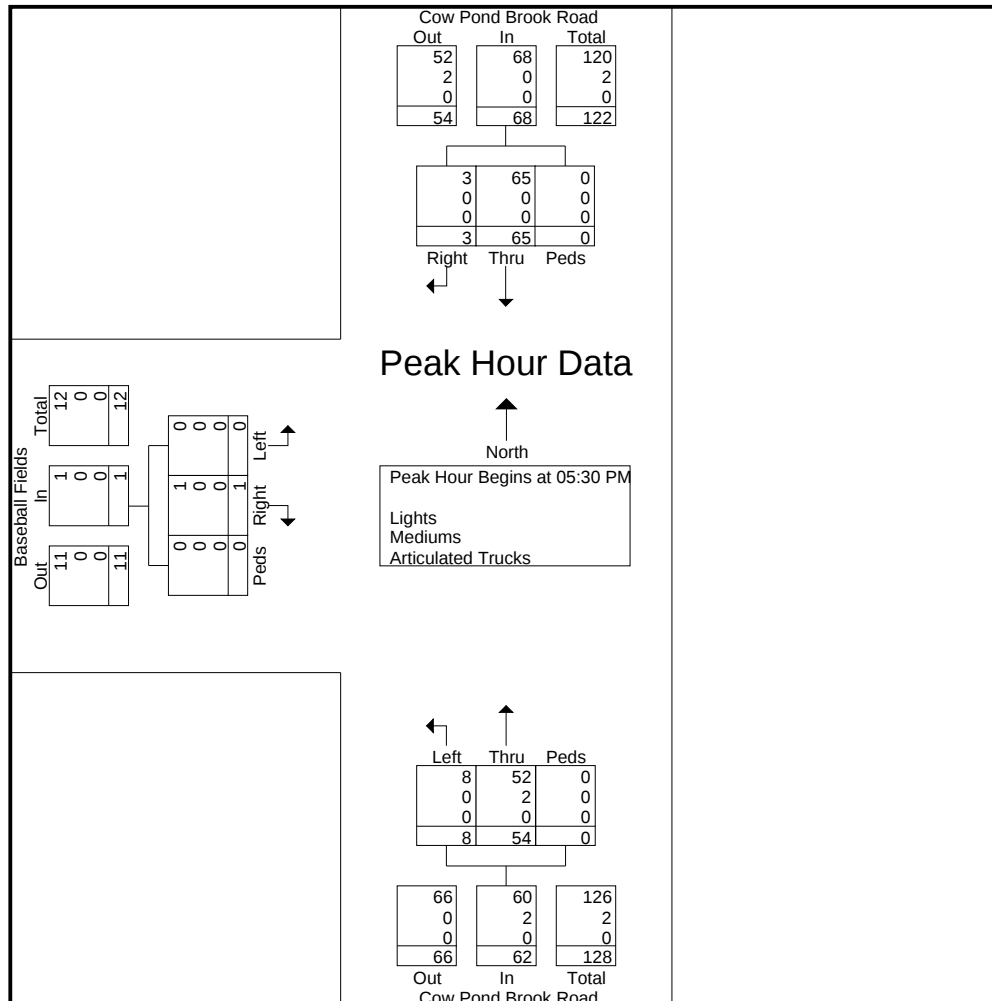
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
West: Baseball Fields
Groton, MA

File Name : 1462 Cow Pond Brook Road at Baseball Fields Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 2

	Cow Pond Brook Road From North				Cow Pond Brook Road From South				Baseball Fields 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 05:15 PM to 06:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:30 PM													
05:30 PM	0	0	0	0	7	2	0	9	0	0	0	0	9
05:45 PM	0	8	0	8	28	5	0	33	0	0	0	0	41
06:00 PM	2	47	0	49	17	1	0	18	1	0	0	1	68
06:15 PM	1	10	0	11	2	0	0	2	0	0	0	0	13
Total Volume	3	65	0	68	54	8	0	62	1	0	0	1	131
% App. Total	4.4	95.6	0		87.1	12.9	0		100	0	0		
PHF	.375	.346	.000	.347	.482	.400	.000	.470	.250	.000	.000	.250	.482
Lights	3	65	0	68	52	8	0	60	1	0	0	1	129
% Lights	100	100	0	100	96.3	100	0	96.8	100	0	0	100	98.5
Mediums	0	0	0	0	2	0	0	2	0	0	0	0	2
% Mediums	0	0	0	0	3.7	0	0	3.2	0	0	0	0	1.5
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0



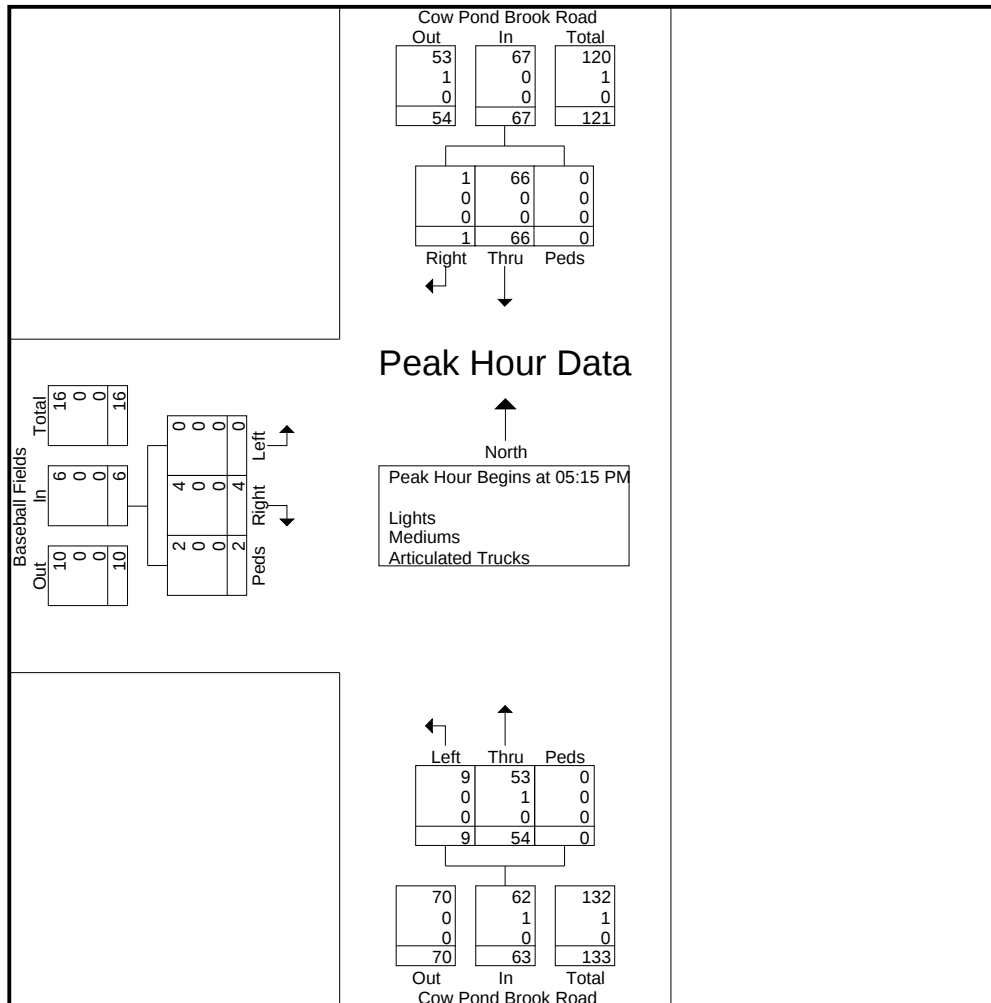
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
West: Baseball Fields
Groton, MA

File Name : 1462 Cow Pond Brook Road at Baseball Fields Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 2

	Cow Pond Brook Road From North				Cow Pond Brook Road From South				Baseball Fields 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 03:00 PM to 06:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:15 PM													
05:15 PM	1	7	0	8	5	5	0	10	0	0	1	1	19
05:30 PM	0	3	0	3	2	3	0	5	3	0	1	4	12
05:45 PM	0	7	0	7	29	0	0	29	1	0	0	1	37
06:00 PM	0	49	0	49	18	1	0	19	0	0	0	0	68
Total Volume	1	66	0	67	54	9	0	63	4	0	2	6	136
% App. Total	1.5	98.5	0		85.7	14.3	0		66.7	0	33.3		
PHF	.250	.337	.000	.342	.466	.450	.000	.543	.333	.000	.500	.375	.500
Lights	1	66	0	67	53	9	0	62	4	0	2	6	135
% Lights	100	100	0	100	98.1	100	0	98.4	100	0	100	100	99.3
Mediums	0	0	0	0	1	0	0	1	0	0	0	0	1
% Mediums	0	0	0	0	1.9	0	0	1.6	0	0	0	0	0.7
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
West: Baseball Fields
Groton, MA

File Name : 1462 Cow Pond Brook Road at Baseball Fields Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

[illegible]

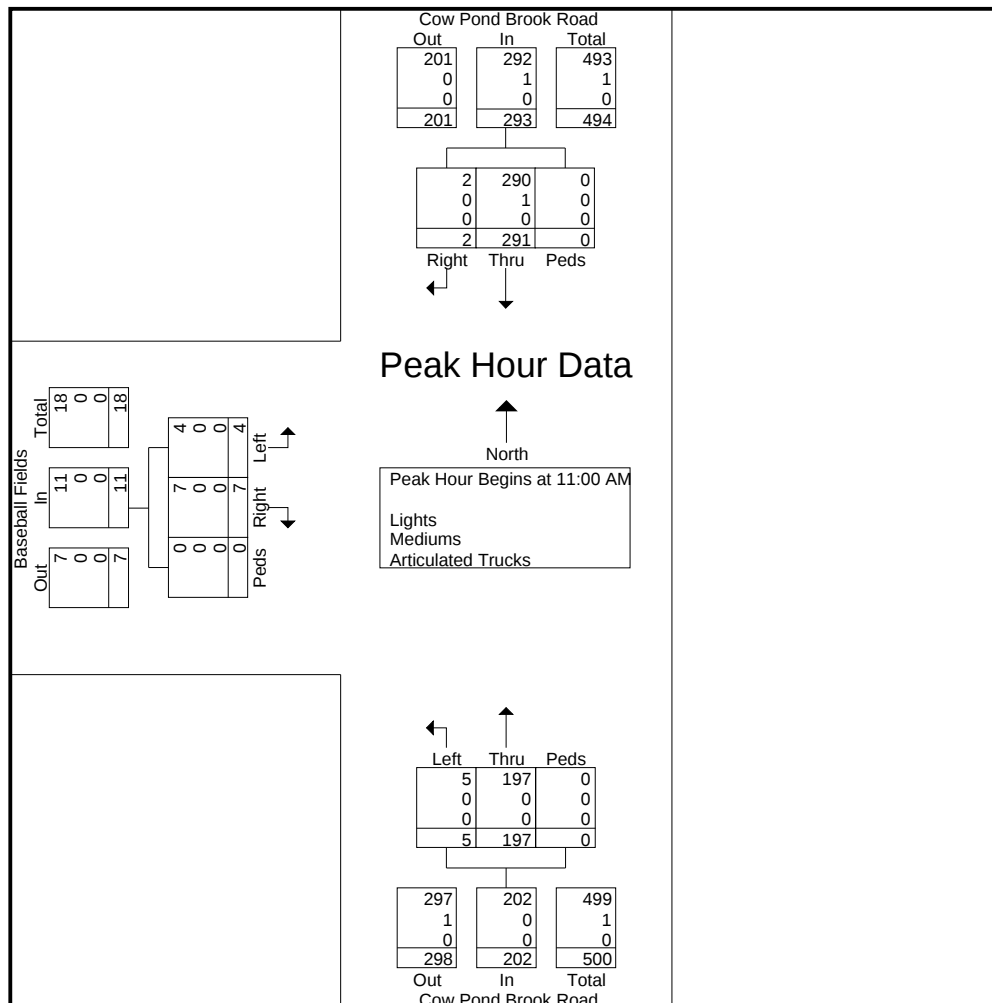
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
West: Baseball Fields
Groton, MA

File Name : 1462 Cow Pond Brook Road at Baseball Fields Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North				Cow Pond Brook Road From South				Baseball Fields 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 11:00 AM													
11:00 AM	1	111	0	112	24	1	0	25	1	0	0	1	138
11:15 AM	0	39	0	39	37	0	0	37	2	0	0	2	78
11:30 AM	1	24	0	25	49	0	0	49	0	1	0	1	75
11:45 AM	0	117	0	117	87	4	0	91	4	3	0	7	215
Total Volume	2	291	0	293	197	5	0	202	7	4	0	11	506
% App. Total	0.7	99.3	0		97.5	2.5	0		63.6	36.4	0		
PHF	.500	.622	.000	.626	.566	.313	.000	.555	.438	.333	.000	.393	.588
Lights	2	290	0	292	197	5	0	202	7	4	0	11	505
% Lights	100	99.7	0	99.7	100	100	0	100	100	100	0	100	99.8
Mediums	0	1	0	1	0	0	0	0	0	0	0	0	1
% Mediums	0	0.3	0	0.3	0	0	0	0	0	0	0	0	0.2
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0

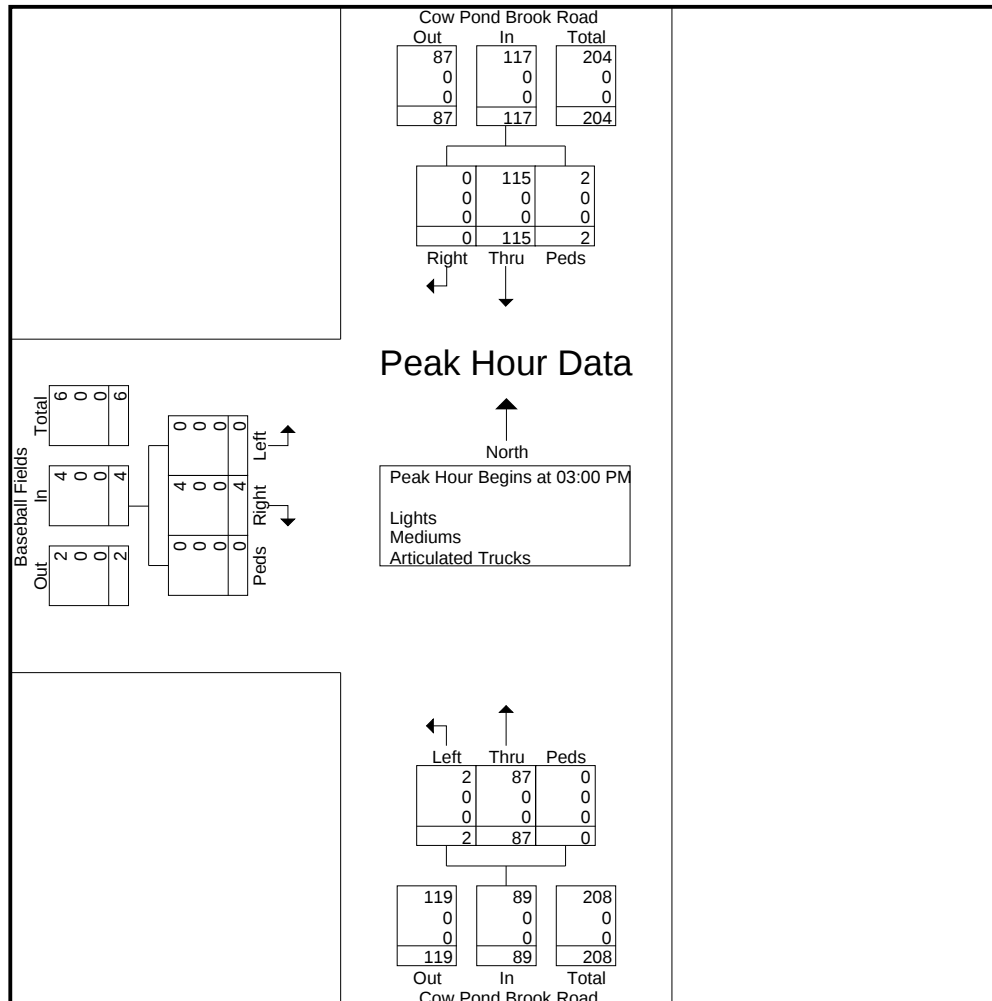


MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road at 1462 Cow Pond Brook Road at Baseball Fields Saturday (Extra Data - 3-7 PM)
West: Baseball Fields
Site Code : 1462
Groton, MA Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North				Cow Pond Brook Road From South				Baseball Fields 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 03:00 PM to 06:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 03:00 PM													
03:00 PM	0	61	0	61	21	1	0	22	0	0	0	0	83
03:15 PM	0	23	0	23	14	0	0	14	4	0	0	4	41
03:30 PM	0	13	1	14	20	0	0	20	0	0	0	0	34
03:45 PM	0	18	1	19	32	1	0	33	0	0	0	0	52
Total Volume	0	115	2	117	87	2	0	89	4	0	0	4	210
% App. Total	0	98.3	1.7		97.8	2.2	0		100	0	0		
PHF	.000	.471	.500	.480	.680	.500	.000	.674	.250	.000	.000	.250	.633
Lights	0	115	2	117	87	2	0	89	4	0	0	4	210
% Lights	0	100	100	100	100	100	0	100	100	0	0	100	100
Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0
% Mediums	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

[illegible]

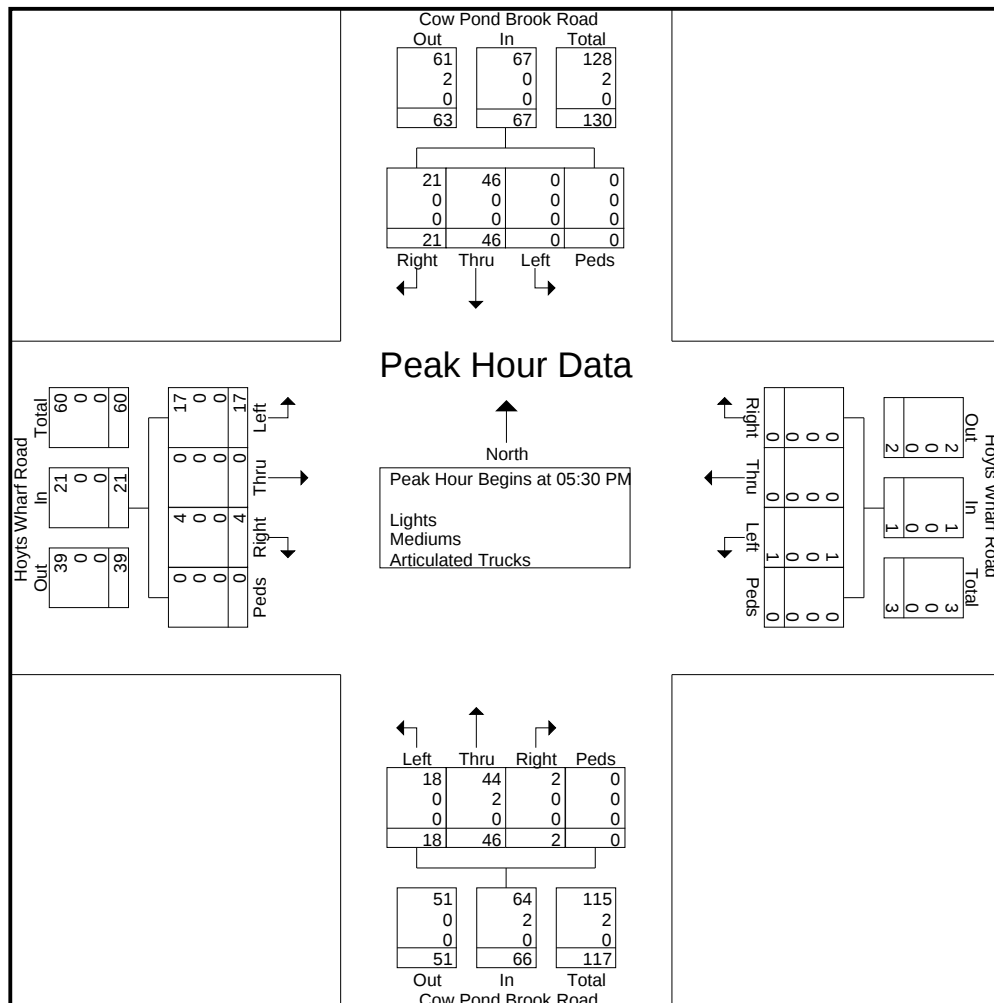
Groups Printed- Lights - Mediums - Articulated Trucks																					
	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	4	11	0	0	15	0	0	0	0	0	2	8	5	0	15	2	1	2	1	6	36
03:15 PM	2	3	0	0	5	0	0	2	0	2	0	5	3	0	8	2	0	0	0	2	17
03:30 PM	0	4	0	0	4	0	0	1	0	1	1	5	6	0	12	1	1	1	0	3	20
03:45 PM	2	4	0	0	6	0	0	1	0	1	0	2	7	0	9	4	0	2	0	6	22
Total	8	22	0	0	30	0	0	4	0	4	3	20	21	0	44	9	2	5	1	17	95
04:00 PM	0	3	0	0	3	0	0	0	0	0	0	5	3	0	8	1	0	0	0	1	12
04:15 PM	1	6	0	0	7	0	0	1	0	1	1	4	3	0	8	0	0	0	0	0	16
04:30 PM	0	2	0	0	2	0	0	0	0	0	0	9	7	0	16	3	0	2	0	5	23
04:45 PM	1	7	0	0	8	1	0	1	0	2	0	36	4	0	40	1	0	9	0	10	60
Total	2	18	0	0	20	1	0	2	0	3	1	54	17	0	72	5	0	11	0	16	111
05:00 PM	2	9	0	0	11	0	0	0	0	0	0	7	4	0	11	6	0	8	0	14	36
05:15 PM	1	6	0	0	7	0	0	0	0	0	0	2	4	0	6	2	0	0	0	2	15
05:30 PM	0	1	0	0	1	0	0	1	0	1	1	8	4	0	13	1	0	5	0	6	21
05:45 PM	1	7	0	0	8	0	0	0	0	0	0	25	4	0	29	0	0	9	0	9	46
Total	4	23	0	0	27	0	0	1	0	1	1	42	16	0	59	9	0	22	0	31	118
06:00 PM	14	34	0	0	48	0	0	0	0	0	1	11	7	0	19	0	0	3	0	3	70
06:15 PM	6	4	0	0	10	0	0	0	0	0	0	2	3	0	5	3	0	0	0	3	18
06:30 PM	2	5	0	0	7	0	0	0	0	0	0	3	6	0	9	1	0	0	0	1	17
06:45 PM	1	1	0	0	2	1	0	1	0	2	2	1	4	0	7	1	0	1	0	2	13
Total	23	44	0	0	67	1	0	1	0	2	3	17	20	0	40	5	0	4	0	9	118
Grand Total	37	107	0	0	144	2	0	8	0	10	8	133	74	0	215	28	2	42	1	73	442
Apprch %	25.7	74.3	0	0		20	0	80	0		3.7	61.9	34.4	0		38.4	2.7	57.5	1.4		
Total %	8.4	24.2	0	0	32.6	0.5	0	1.8	0	2.3	1.8	30.1	16.7	0	48.6	6.3	0.5	9.5	0.2	16.5	
Lights	37	104	0	0	141	1	0	8	0	9	7	127	72	0	206	28	2	42	1	73	429
% Lights	100	97.2	0	0	97.9	50	0	100	0	90	87.5	95.5	97.3	0	95.8	100	100	100	100	100	97.1
Mediums	0	3	0	0	3	1	0	0	0	1	1	6	2	0	9	0	0	0	0	0	13
% Mediums	0	2.8	0	0	2.1	50	0	0	0	10	12.5	4.5	2.7	0	4.2	0	0	0	0	0	2.9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road File Name : 1462 Cow Pond Brook Road at Hoyts Wharf Road Thursday
E/W: Hoyts Wharf Road Site Code : 1462
Groton, MA Start Date : 10/16/2025
Page No : 2

	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road 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 03:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:30 PM																					
05:30 PM	0	1	0	0	1	0	0	1	0	1	1	8	4	0	13	1	0	5	0	6	21
05:45 PM	1	7	0	0	8	0	0	0	0	0	0	25	4	0	29	0	0	9	0	9	46
06:00 PM	14	34	0	0	48	0	0	0	0	0	1	11	7	0	19	0	0	3	0	3	70
06:15 PM	6	4	0	0	10	0	0	0	0	0	0	2	3	0	5	3	0	0	0	3	18
Total Volume	21	46	0	0	67	0	0	1	0	1	2	46	18	0	66	4	0	17	0	21	155
% App. Total	31.3	68.7	0	0		0	0	100	0		3	69.7	27.3	0		19	0	81	0		
PHF	.375	.338	.000	.000	.349	.000	.000	.250	.000	.250	.500	.460	.643	.000	.569	.333	.000	.472	.000	.583	.554
Lights	21	46	0	0	67	0	0	1	0	1	2	44	18	0	64	4	0	17	0	21	153
% Lights	100	100	0	0	100	0	0	100	0	100	100	95.7	100	0	97.0	100	0	100	0	100	98.7
Mediums	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
% Mediums	0	0	0	0	0	0	0	0	0	0	0	4.3	0	0	3.0	0	0	0	0	0	1.3
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
E/W: Hoyts Wharf Road
Groton, MA

File Name : 1462 Cow Pond Brook Road at Hoyts Wharf Road Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road 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
03:00 PM	2	15	0	0	17	0	0	1	0	1	0	9	1	0	10	2	0	2	0	4	32
03:15 PM	1	9	0	0	10	0	1	0	0	1	0	4	5	0	9	2	0	4	0	6	26
03:30 PM	1	7	0	0	8	0	0	0	0	0	0	7	3	0	10	5	0	0	0	5	23
03:45 PM	1	3	0	0	4	0	0	0	0	0	0	5	4	0	9	2	0	2	0	4	17
Total	5	34	0	0	39	0	1	1	0	2	0	25	13	0	38	11	0	8	0	19	98
04:00 PM	1	7	0	0	8	0	0	0	0	0	1	2	7	0	10	1	0	1	0	2	20
04:15 PM	3	6	0	0	9	0	0	0	0	0	2	11	1	0	14	1	0	4	0	5	28
04:30 PM	4	7	0	0	11	0	0	0	0	0	1	8	6	0	15	1	0	2	0	3	29
04:45 PM	1	5	0	0	6	0	0	0	1	1	1	26	7	0	34	0	0	9	0	9	50
Total	9	25	0	0	34	0	0	0	1	1	5	47	21	0	73	3	0	16	0	19	127
05:00 PM	2	6	0	0	8	0	0	0	0	0	2	12	5	0	19	2	0	1	0	3	30
05:15 PM	1	7	0	0	8	0	0	0	0	0	0	7	2	0	9	3	0	3	0	6	23
05:30 PM	0	6	0	0	6	0	0	0	0	0	0	6	2	0	8	2	0	5	0	7	21
05:45 PM	5	4	1	0	10	0	1	0	1	2	3	19	6	0	28	1	0	12	0	13	53
Total	8	23	1	0	32	0	1	0	1	2	5	44	15	0	64	8	0	21	0	29	127
06:00 PM	9	41	0	0	50	0	0	0	0	0	0	9	2	0	11	3	0	3	0	6	67
06:15 PM	2	2	0	0	4	0	0	0	0	0	0	4	3	0	7	4	0	0	0	4	15
06:30 PM	3	12	0	0	15	0	0	0	0	0	0	5	4	0	9	3	0	1	0	4	28
06:45 PM	0	3	0	0	3	0	0	0	0	0	0	1	4	0	5	2	0	3	0	5	13
Total	14	58	0	0	72	0	0	0	0	0	0	19	13	0	32	12	0	7	0	19	123
Grand Total	36	140	1	0	177	0	2	1	2	5	10	135	62	0	207	34	0	52	0	86	475
Apprch %	20.3	79.1	0.6	0		0	40	20	40		4.8	65.2	30	0		39.5	0	60.5	0		
Total %	7.6	29.5	0.2	0	37.3	0	0.4	0.2	0.4	1.1	2.1	28.4	13.1	0	43.6	7.2	0	10.9	0	18.1	
Lights	36	138	0	0	174	0	1	1	2	4	10	131	61	0	202	34	0	51	0	85	465
% Lights	100	98.6	0	0	98.3	0	50	100	100	80	100	97	98.4	0	97.6	100	0	98.1	0	98.8	97.9
Mediums	0	2	1	0	3	0	1	0	0	1	0	4	1	0	5	0	0	1	0	1	10
% Mediums	0	1.4	100	0	1.7	0	50	0	0	20	0	3	1.6	0	2.4	0	0	1.9	0	1.2	2.1
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

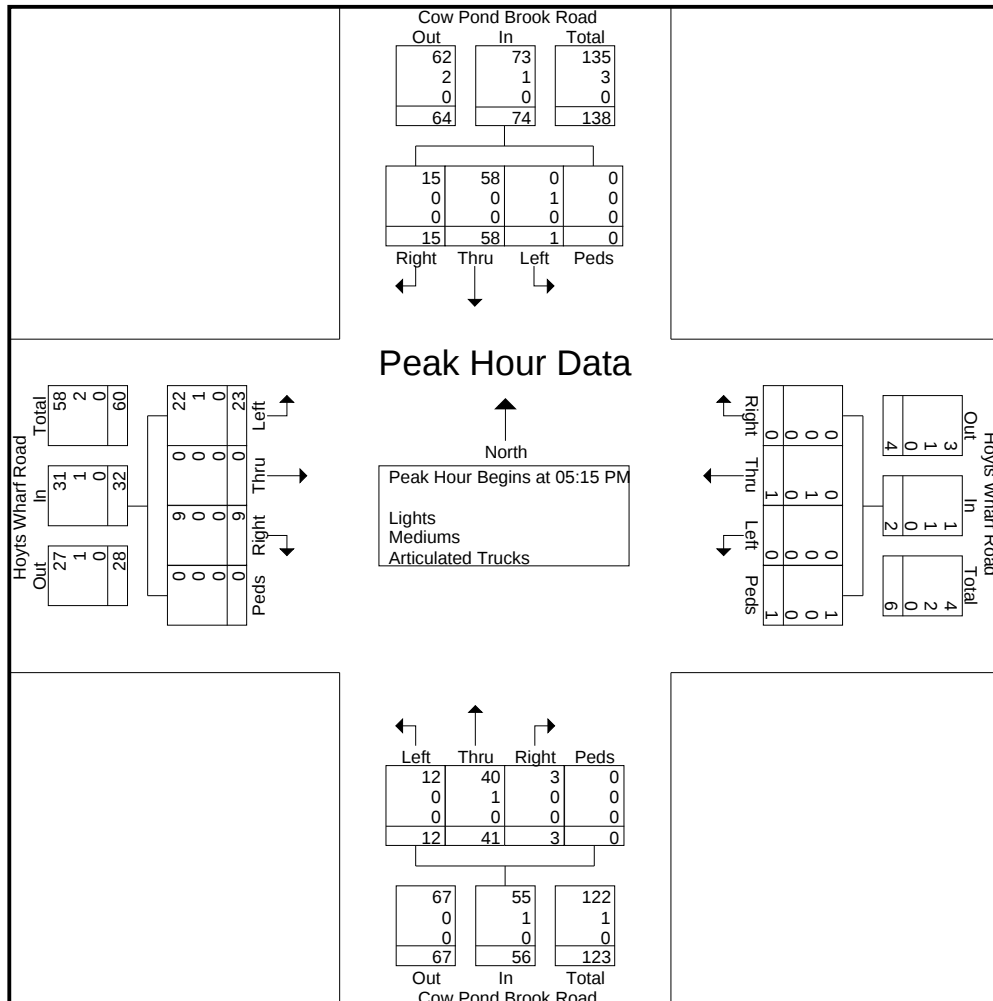
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
E/W: Hoyts Wharf Road
Groton, MA

File Name : 1462 Cow Pond Brook Road at Hoyts Wharf Road Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 2

	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road 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 03:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:15 PM																					
05:15 PM	1	7	0	0	8	0	0	0	0	0	0	7	2	0	9	3	0	3	0	6	23
05:30 PM	0	6	0	0	6	0	0	0	0	0	0	6	2	0	8	2	0	5	0	7	21
05:45 PM	5	4	1	0	10	0	1	0	1	2	3	19	6	0	28	1	0	12	0	13	53
06:00 PM	9	41	0	0	50	0	0	0	0	0	0	9	2	0	11	3	0	3	0	6	67
Total Volume	15	58	1	0	74	0	1	0	1	2	3	41	12	0	56	9	0	23	0	32	164
% App. Total	20.3	78.4	1.4	0		0	50	0	50		5.4	73.2	21.4	0		28.1	0	71.9	0		
PHF	.417	.354	.250	.000	.370	.000	.250	.000	.250	.250	.250	.539	.500	.000	.500	.750	.000	.479	.000	.615	.612
Lights	15	58	0	0	73	0	0	0	1	1	3	40	12	0	55	9	0	22	0	31	160
% Lights	100	100	0	0	98.6	0	0	0	100	50.0	100	97.6	100	0	98.2	100	0	95.7	0	96.9	97.6
Mediums	0	0	1	0	1	0	1	0	0	1	0	1	0	0	1	0	0	1	0	1	4
% Mediums	0	0	100	0	1.4	0	100	0	0	50.0	0	2.4	0	0	1.8	0	0	4.3	0	3.1	2.4
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



28 Lord Rd, Suite 280
Marlborough, MA, 01752

[illegible]

Groups Printed- Lights - Mediums - Articulated Trucks																					
	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road 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
10:00 AM	7	15	0	0	22	0	0	1	0	1	0	50	1	0	51	2	0	17	0	19	93
10:15 AM	16	64	0	0	80	0	0	0	0	0	0	35	1	0	36	0	0	8	0	8	124
10:30 AM	3	27	0	0	30	1	0	0	0	1	1	32	0	0	33	0	0	8	0	8	72
10:45 AM	6	42	0	0	48	0	0	0	0	0	1	18	0	0	19	1	0	9	0	10	77
Total	32	148	0	0	180	1	0	1	0	2	2	135	2	0	139	3	0	42	0	45	366
11:00 AM	24	83	0	0	107	0	0	1	0	1	0	20	2	0	22	2	0	7	0	9	139
11:15 AM	7	31	0	0	38	0	0	0	0	0	0	33	2	0	35	2	1	2	0	5	78
11:30 AM	3	28	1	0	32	0	0	0	0	0	0	40	2	0	42	1	1	15	0	17	91
11:45 AM	25	86	0	0	111	0	2	1	0	3	0	69	3	0	72	2	0	27	0	29	215
Total	59	228	1	0	288	0	2	2	0	4	0	162	9	0	171	7	2	51	0	60	523
12:00 PM	5	24	0	0	29	0	1	0	0	1	0	30	5	0	35	2	1	11	0	14	79
12:15 PM	4	7	0	0	11	0	0	0	0	0	0	25	0	0	25	3	0	4	0	7	43
12:30 PM	4	14	0	0	18	0	0	0	0	0	0	22	2	0	24	3	0	7	0	10	52
12:45 PM	2	16	0	0	18	0	0	0	0	0	0	32	0	0	32	1	1	11	0	13	63
Total	15	61	0	0	76	0	1	0	0	1	0	109	7	0	116	9	2	33	0	44	237
01:00 PM	3	21	0	0	24	0	0	2	0	2	0	31	3	0	34	0	1	2	0	3	63
01:15 PM	47	99	0	0	146	1	0	2	0	3	0	27	0	0	27	2	0	7	0	9	185
01:30 PM	22	58	0	0	80	1	0	0	0	1	1	20	2	0	23	4	1	7	0	12	116
01:45 PM	5	16	0	0	21	0	0	0	0	0	0	19	2	0	21	1	0	6	0	7	49
Total	77	194	0	0	271	2	0	4	0	6	1	97	7	0	105	7	2	22	0	31	413
Grand Total	183	631	1	0	815	3	3	7	0	13	3	503	25	0	531	26	6	148	0	180	1539
Apprch %	22.5	77.4	0.1	0		23.1	23.1	53.8	0		0.6	94.7	4.7	0		14.4	3.3	82.2	0		
Total %	11.9	41	0.1	0	53	0.2	0.2	0.5	0	0.8	0.2	32.7	1.6	0	34.5	1.7	0.4	9.6	0	11.7	
Lights	183	630	1	0	814	3	3	7	0	13	3	501	24	0	528	26	6	148	0	180	1535
% Lights	100	99.8	100	0	99.9	100	100	100	0	100	100	99.6	96	0	99.4	100	100	100	0	100	99.7
Mediums	0	1	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
% Mediums	0	0.2	0	0	0.1	0	0	0	0	0	0	0.4	4	0	0.6	0	0	0	0	0	0.3
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

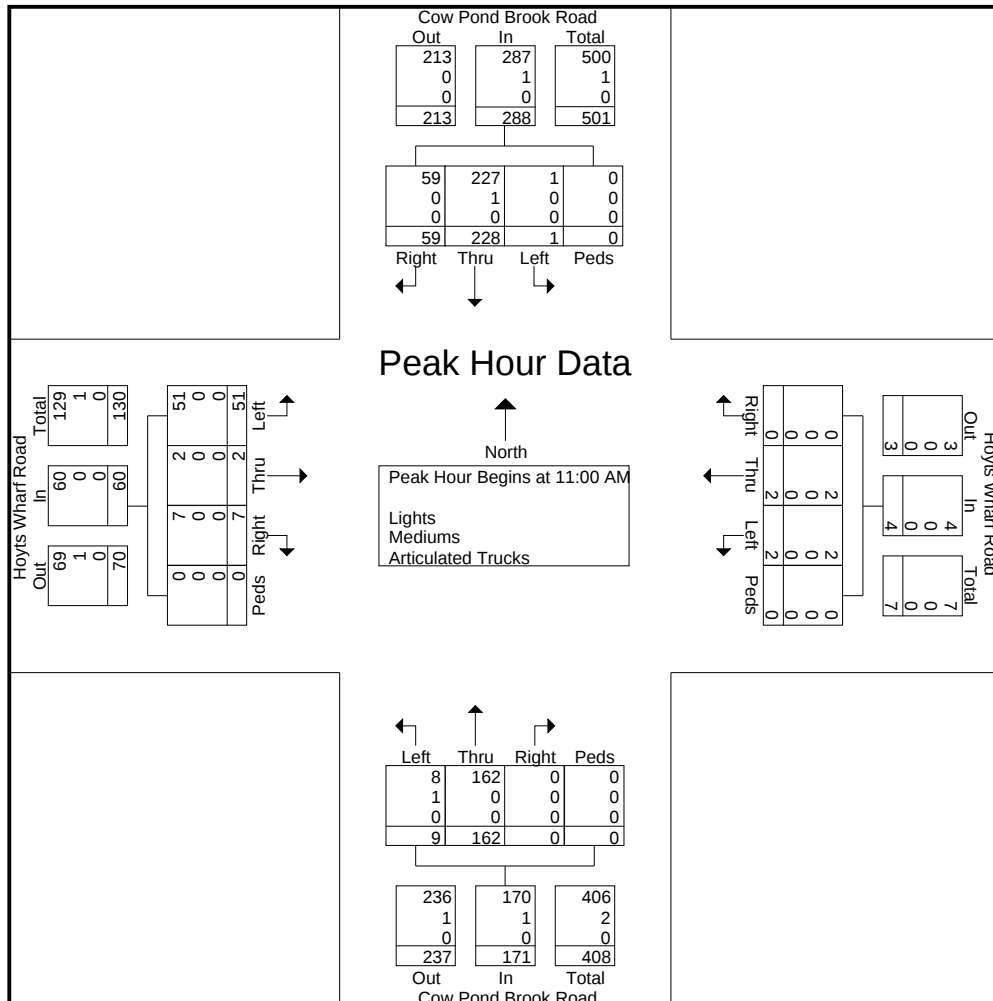
MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

N/S: Cow Pond Brook Road
E/W: Hoyts Wharf Road
Groton, MA

File Name : 1462 Cow Pond Brook Road at Hoyts Wharf Road Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North					Hoyts Wharf Road From East					Cow Pond Brook Road From South					Hoyts Wharf Road 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 11:00 AM																					
11:00 AM	24	83	0	0	107	0	0	1	0	1	0	20	2	0	22	2	0	7	0	9	139
11:15 AM	7	31	0	0	38	0	0	0	0	0	0	33	2	0	35	2	1	2	0	5	78
11:30 AM	3	28	1	0	32	0	0	0	0	0	0	40	2	0	42	1	1	15	0	17	91
11:45 AM	25	86	0	0	111	0	2	1	0	3	0	69	3	0	72	2	0	27	0	29	215
Total Volume	59	228	1	0	288	0	2	2	0	4	0	162	9	0	171	7	2	51	0	60	523
% App. Total	20.5	79.2	0.3	0		0	50	50	0		0	94.7	5.3	0		11.7	3.3	85	0		
PHF	.590	.663	.250	.000	.649	.000	.250	.500	.000	.333	.000	.587	.750	.000	.594	.875	.500	.472	.000	.517	.608
Lights	59	227	1	0	287	0	2	2	0	4	0	162	8	0	170	7	2	51	0	60	521
% Lights	100	99.6	100	0	99.7	0	100	100	0	100	0	100	88.9	0	99.4	100	100	100	0	100	99.6
Mediums	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
% Mediums	0	0.4	0	0	0.3	0	0	0	0	0	0	0	11.1	0	0.6	0	0	0	0	0	0.4
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	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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28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	8	5	0	13	7	70	0	77	55	4	0	59	149
03:15 PM	2	7	0	9	6	97	0	103	56	2	0	58	170
03:30 PM	5	1	0	6	9	98	0	107	63	5	0	68	181
03:45 PM	2	5	0	7	7	114	0	121	64	1	0	65	193
Total	17	18	0	35	29	379	0	408	238	12	0	250	693
04:00 PM	3	7	0	10	9	95	0	104	52	3	0	55	169
04:15 PM	3	4	0	7	8	116	0	124	46	3	0	49	180
04:30 PM	2	4	0	6	10	98	0	108	59	4	0	63	177
04:45 PM	5	3	0	8	13	113	0	126	47	29	0	76	210
Total	13	18	0	31	40	422	0	462	204	39	0	243	736
05:00 PM	6	9	0	15	8	130	0	138	46	3	0	49	202
05:15 PM	2	8	0	10	7	106	0	113	38	2	0	40	163
05:30 PM	1	1	0	2	5	85	0	90	54	5	0	59	151
05:45 PM	5	0	0	5	10	87	0	97	39	24	0	63	165
Total	14	18	0	32	30	408	0	438	177	34	0	211	681
06:00 PM	26	7	0	33	10	84	0	94	46	4	0	50	177
06:15 PM	4	4	0	8	11	87	0	98	32	0	0	32	138
06:30 PM	5	1	0	6	9	58	0	67	37	2	0	39	112
06:45 PM	2	2	0	4	6	55	0	61	33	1	0	34	99
Total	37	14	0	51	36	284	0	320	148	7	0	155	526
Grand Total	81	68	0	149	135	1493	0	1628	767	92	0	859	2636
Apprch %	54.4	45.6	0		8.3	91.7	0		89.3	10.7	0		
Total %	3.1	2.6	0	5.7	5.1	56.6	0	61.8	29.1	3.5	0	32.6	
Lights	79	66	0	145	129	1479	0	1608	751	90	0	841	2594
% Lights	97.5	97.1	0	97.3	95.6	99.1	0	98.8	97.9	97.8	0	97.9	98.4
Mediums	2	2	0	4	6	13	0	19	12	2	0	14	37
% Mediums	2.5	2.9	0	2.7	4.4	0.9	0	1.2	1.6	2.2	0	1.6	1.4
Articulated Trucks	0	0	0	0	0	1	0	1	4	0	0	4	5
% Articulated Trucks	0	0	0	0	0	0.1	0	0.1	0.5	0	0	0.5	0.2

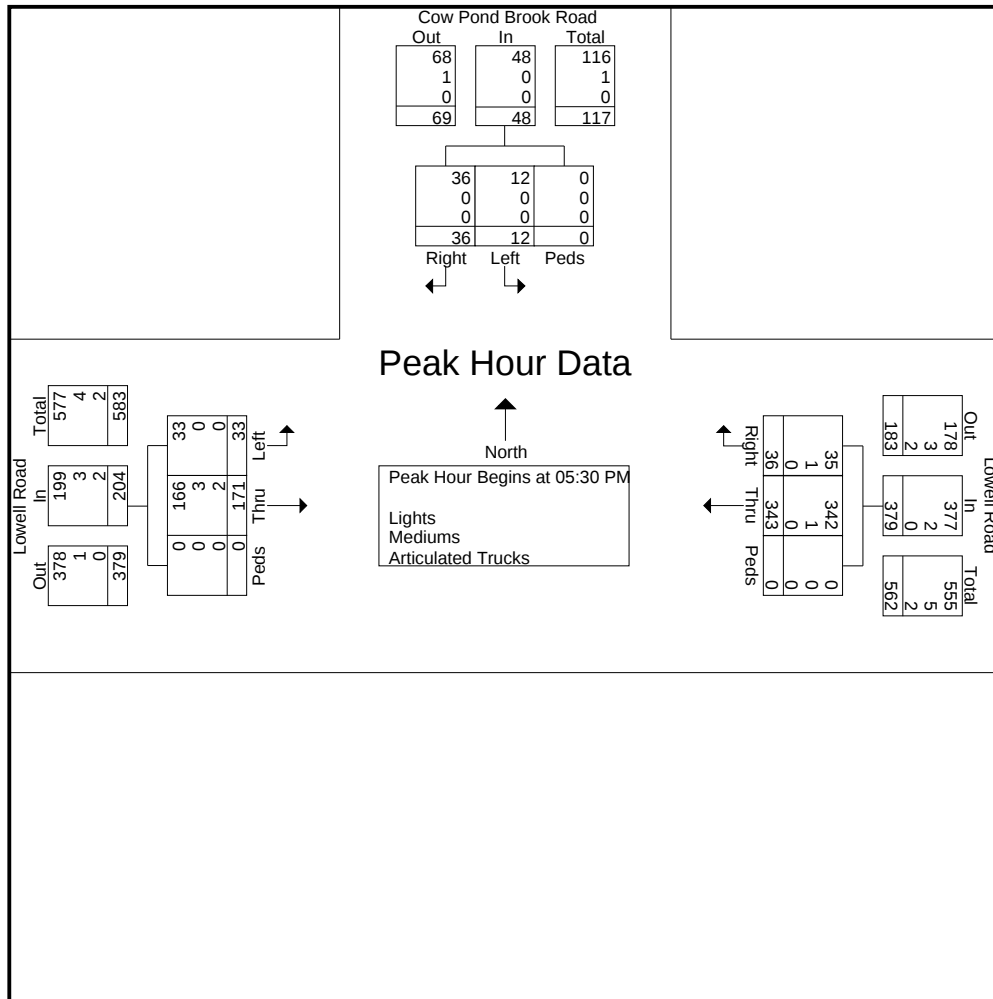
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28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Thursday
Site Code : 1462
Start Date : 10/16/2025
Page No : 2

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 05:30 PM to 06:15 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:30 PM													
05:30 PM	1	1	0	2	5	85	0	90	54	5	0	59	151
05:45 PM	5	0	0	5	10	87	0	97	39	24	0	63	165
06:00 PM	26	7	0	33	10	84	0	94	46	4	0	50	177
06:15 PM	4	4	0	8	11	87	0	98	32	0	0	32	138
Total Volume	36	12	0	48	36	343	0	379	171	33	0	204	631
% App. Total	75	25	0		9.5	90.5	0		83.8	16.2	0		
PHF	.346	.429	.000	.364	.818	.986	.000	.967	.792	.344	.000	.810	.891
Lights	36	12	0	48	35	342	0	377	166	33	0	199	624
% Lights	100	100	0	100	97.2	99.7	0	99.5	97.1	100	0	97.5	98.9
Mediums	0	0	0	0	1	1	0	2	3	0	0	3	5
% Mediums	0	0	0	0	2.8	0.3	0	0.5	1.8	0	0	1.5	0.8
Articulated Trucks	0	0	0	0	0	0	0	0	2	0	0	2	2
% Articulated Trucks	0	0	0	0	0	0	0	0	1.2	0	0	1.0	0.3



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28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	14	5	0	19	5	82	0	87	43	5	0	48	154
03:15 PM	2	4	0	6	5	115	0	120	43	6	0	49	175
03:30 PM	8	10	0	18	10	122	0	132	66	3	0	69	219
03:45 PM	3	5	0	8	6	111	0	117	74	4	0	78	203
Total	27	24	0	51	26	430	0	456	226	18	0	244	751
04:00 PM	6	2	0	8	7	124	0	131	61	1	0	62	201
04:15 PM	7	3	0	10	8	134	0	142	72	9	0	81	233
04:30 PM	3	5	0	8	11	129	0	140	57	6	0	63	211
04:45 PM	1	3	0	4	13	114	0	127	45	21	0	66	197
Total	17	13	0	30	39	501	0	540	235	37	0	272	842
05:00 PM	5	6	0	11	8	105	0	113	44	12	0	56	180
05:15 PM	3	8	0	11	8	97	0	105	58	5	0	63	179
05:30 PM	2	7	0	9	7	116	0	123	38	2	0	40	172
05:45 PM	2	3	0	5	15	90	0	105	42	15	0	57	167
Total	12	24	0	36	38	408	0	446	182	34	0	216	698
06:00 PM	29	15	1	45	8	92	0	100	47	5	0	52	197
06:15 PM	3	4	0	7	8	74	0	82	47	2	0	49	138
06:30 PM	8	12	0	20	8	42	0	50	50	2	0	52	122
06:45 PM	4	4	0	8	3	49	0	52	30	5	0	35	95
Total	44	35	1	80	27	257	0	284	174	14	0	188	552
Grand Total	100	96	1	197	130	1596	0	1726	817	103	0	920	2843
Apprch %	50.8	48.7	0.5		7.5	92.5	0		88.8	11.2	0		
Total %	3.5	3.4	0	6.9	4.6	56.1	0	60.7	28.7	3.6	0	32.4	
Lights	98	96	1	195	124	1574	0	1698	798	103	0	901	2794
% Lights	98	100	100	99	95.4	98.6	0	98.4	97.7	100	0	97.9	98.3
Mediums	2	0	0	2	6	21	0	27	15	0	0	15	44
% Mediums	2	0	0	1	4.6	1.3	0	1.6	1.8	0	0	1.6	1.5
Articulated Trucks	0	0	0	0	0	1	0	1	4	0	0	4	5
% Articulated Trucks	0	0	0	0	0	0.1	0	0.1	0.5	0	0	0.4	0.2

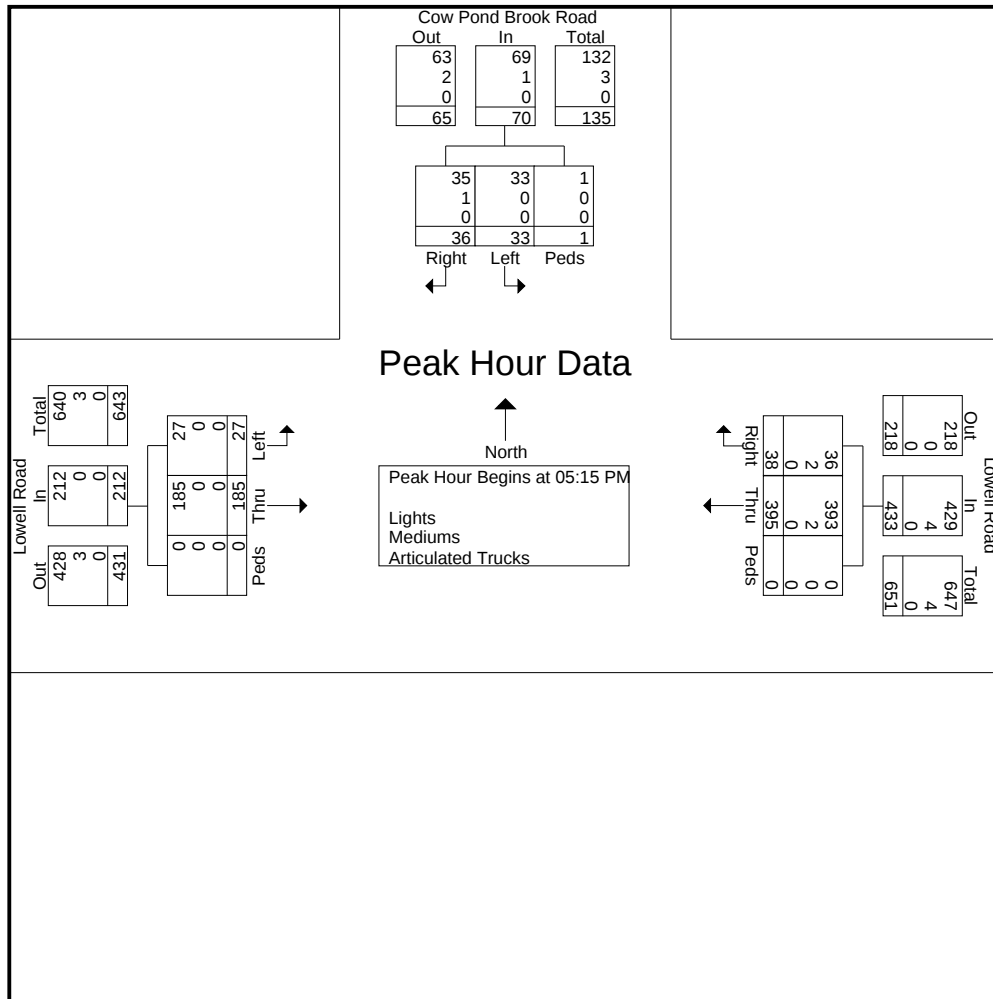
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28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Friday
Site Code : 1462
Start Date : 10/17/2025
Page No : 2

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:15 PM													
05:15 PM	3	8	0	11	8	97	0	105	58	5	0	63	179
05:30 PM	2	7	0	9	7	116	0	123	38	2	0	40	172
05:45 PM	2	3	0	5	15	90	0	105	42	15	0	57	167
06:00 PM	29	15	1	45	8	92	0	100	47	5	0	52	197
Total Volume	36	33	1	70	38	395	0	433	185	27	0	212	715
% App. Total	51.4	47.1	1.4		8.8	91.2	0		87.3	12.7	0		
PHF	.310	.550	.250	.389	.633	.851	.000	.880	.797	.450	.000	.841	.907
Lights	35	33	1	69	36	393	0	429	185	27	0	212	710
% Lights	97.2	100	100	98.6	94.7	99.5	0	99.1	100	100	0	100	99.3
Mediums	1	0	0	1	2	2	0	4	0	0	0	0	5
% Mediums	2.8	0	0	1.4	5.3	0.5	0	0.9	0	0	0	0	0.7
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0



MDM Transportation Consultants, Inc.

28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 1

Groups Printed- Lights - Mediums - Articulated Trucks

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Int. Total
10:00 AM	6	15	0	21	27	48	0	75	38	20	0	58	154
10:15 AM	28	34	0	62	21	52	0	73	44	19	0	63	198
10:30 AM	14	13	0	27	8	60	0	68	40	21	0	61	156
10:45 AM	17	12	0	29	8	51	0	59	44	13	0	57	145
Total	65	74	0	139	64	211	0	275	166	73	0	239	653
11:00 AM	41	59	0	100	9	42	0	51	56	14	0	70	221
11:15 AM	17	24	0	41	14	48	0	62	43	19	0	62	165
11:30 AM	9	13	0	22	16	50	0	66	49	32	0	81	169
11:45 AM	39	57	0	96	36	53	0	89	49	36	0	85	270
Total	106	153	0	259	75	193	0	268	197	101	0	298	825
12:00 PM	13	11	1	25	17	55	0	72	26	16	0	42	139
12:15 PM	5	9	0	14	9	54	0	63	46	16	0	62	139
12:30 PM	9	7	0	16	7	42	0	49	58	15	0	73	138
12:45 PM	7	8	0	15	15	54	0	69	50	23	0	73	157
Total	34	35	1	70	48	205	0	253	180	70	0	250	573
01:00 PM	15	7	0	22	17	52	0	69	61	15	0	76	167
01:15 PM	50	38	0	88	6	77	0	83	54	21	0	75	246
01:30 PM	47	35	0	82	10	64	0	74	49	18	0	67	223
01:45 PM	10	5	0	15	6	59	0	65	46	12	0	58	138
Total	122	85	0	207	39	252	0	291	210	66	0	276	774
Grand Total	327	347	1	675	226	861	0	1087	753	310	0	1063	2825
Apprch %	48.4	51.4	0.1		20.8	79.2	0		70.8	29.2	0		
Total %	11.6	12.3	0	23.9	8	30.5	0	38.5	26.7	11	0	37.6	
Lights	327	346	1	674	224	852	0	1076	741	308	0	1049	2799
% Lights	100	99.7	100	99.9	99.1	99	0	99	98.4	99.4	0	98.7	99.1
Mediums	0	1	0	1	2	8	0	10	10	2	0	12	23
% Mediums	0	0.3	0	0.1	0.9	0.9	0	0.9	1.3	0.6	0	1.1	0.8
Articulated Trucks	0	0	0	0	0	1	0	1	2	0	0	2	3
% Articulated Trucks	0	0	0	0	0	0.1	0	0.1	0.3	0	0	0.2	0.1

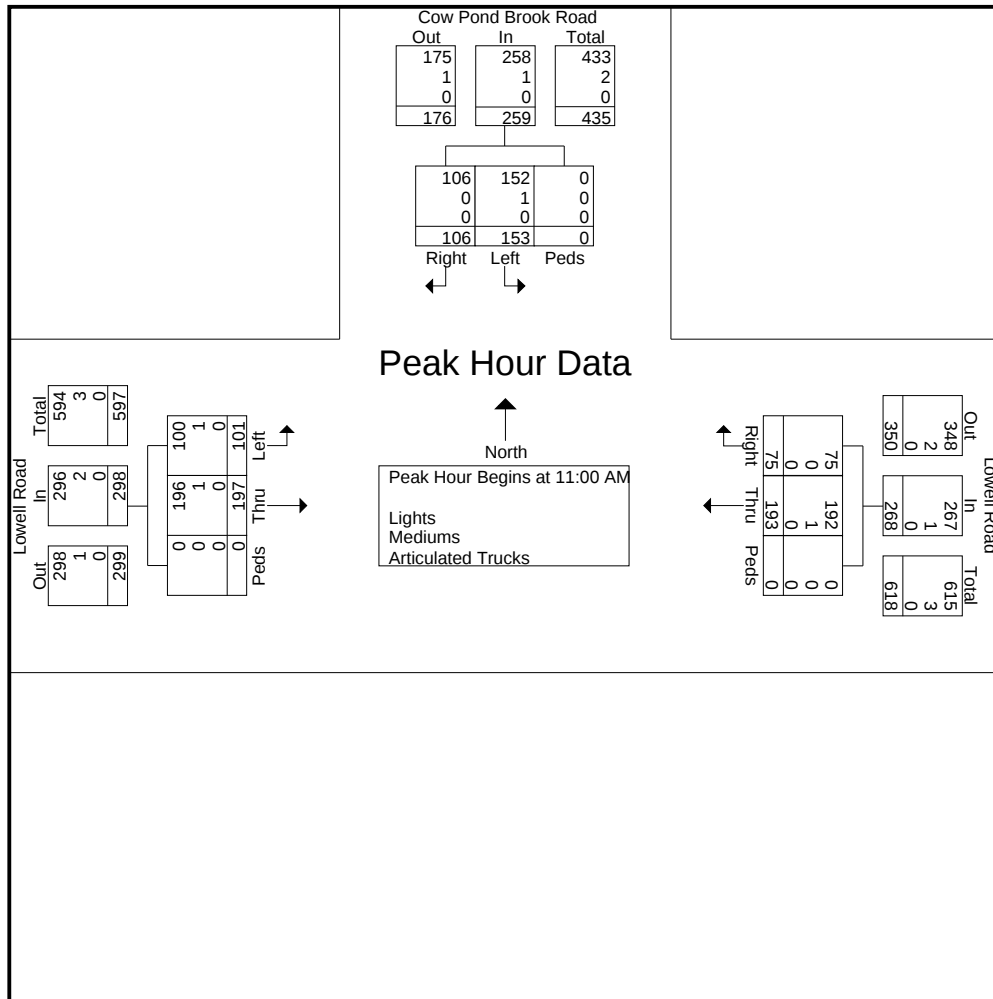
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28 Lord Rd, Suite 280
Marlborough, MA, 01752

North: Cow Pond Brook Road
E/W: Lowell Road
Groton, MA

File Name : 1462 Lowell Road at Cow Pond Brook Road Saturday
Site Code : 1462
Start Date : 10/18/2025
Page No : 2

	Cow Pond Brook Road From North				Lowell Road From East				Lowell Road From West				
Start Time	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	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 11:00 AM													
11:00 AM	41	59	0	100	9	42	0	51	56	14	0	70	221
11:15 AM	17	24	0	41	14	48	0	62	43	19	0	62	165
11:30 AM	9	13	0	22	16	50	0	66	49	32	0	81	169
11:45 AM	39	57	0	96	36	53	0	89	49	36	0	85	270
Total Volume	106	153	0	259	75	193	0	268	197	101	0	298	825
% App. Total	40.9	59.1	0		28	72	0		66.1	33.9	0		
PHF	.646	.648	.000	.648	.521	.910	.000	.753	.879	.701	.000	.876	.764
Lights	106	152	0	258	75	192	0	267	196	100	0	296	821
% Lights	100	99.3	0	99.6	100	99.5	0	99.6	99.5	99.0	0	99.3	99.5
Mediums	0	1	0	1	0	1	0	1	1	1	0	2	4
% Mediums	0	0.7	0	0.4	0	0.5	0	0.4	0.5	1.0	0	0.7	0.5
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0



□ Seasonal Adjustment Data

SECTION I - CONTINUOUS COUNTING STATION MONTHLY AVERAGE DAILY TRAFFIC

STATION 403 - CONCORD - RTE.2 - 0.2 km EAST OF CONCORD ROTARY													
YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
10	41,546 -6%	41,883 -4%	46,472 -6%	50,492 -12%	45,910 0%	46,524 -1%	43,534 0%	39,595 9%	40,709 10%	46,285 -2%	43,576 -1%	44,350 -5%	44,240 -2%
11	39,037 6%	40,138 5%	43,732 -2%	44,191 0%	45,777 0%	46,145 -1%	43,496 -7%	43,117 4%	44,740 0%	45,508 -1%	43,282 -1%	42,043 -1%	43,434 0%
12	41,311 1%	42,111 -7%	43,069 -2%	44,294 -3%	45,759 -3%	45,640 -1%	40,408 4%	44,775 -3%	44,720 -1%	44,904 0%	42,980 -1%	41,701 3%	43,473 -1%
13	41,792 -6%	39,095 -6%	42,007 2%	42,993 2%	44,222 3%	44,984 2%	41,995 4%	43,310 1%	44,422 -1%	45,062 2%	42,684 2%	42,773 12%	42,945 1%
15	39,457 6%	36,908 15%	42,703 4%	44,051 1%	45,401 3%	45,790 4%	43,572 3%	43,700 6%	43,992 3%	46,043 2%	43,701 4%	47,747 -9%	43,589 3%
16	41,896 3%	42,396 1%	44,580 1%	44,670 1%	46,737 2%	47,669 2%	45,004 2%	46,441 1%	45,499 4%	47,080 4%	45,357 3%	43,312 -1%	45,053 2%
17	43,250 0%	43,008 3%	45,196 0%	45,139 4%	47,491 1%	48,619 1%	45,789 -3%	46,860 -2%	47,255 -5%	48,955 -1%	46,715 -9%	42,828 5%	45,855 0%
18	43,289 -4%	44,164 -4%	45,201 -4%	46,965 18%	48,147 -7%	49,054 -5%	44,492 -2%	45,928 0%	44,882 1%	48,454 -2%	42,446 6%	45,171 -5%	45,683 -1%
23	41,584 1%	42,298 1%	43,456 3%	55,261 -18%	44,743 6%	46,752 1%	43,638 2%	45,699 0%	45,234 4%	47,363 2%	44,928 7%	42,884 8%	45,320 1%
24	41,896	42,854	44,818	45,484	47,311	47,214	44,635	45,921	47,074	48,331	47,894	46,263	45,808
Seasonal Adjustment Factor (to average month)	1.07	1.07	1.02	0.95	0.98	0.96	1.03	0.99	0.99	0.95	1.01	1.02	
												Growth	0.36%

STATION 4170 - LOWELL - I-495 NORTH OF ROUTE 4													
YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
07	91,950 -10%	94,873 -6%	94,099 1%	95,258 1%	103,802 -4%	109,192 -4%	113,808 -5%	120,103 -7%	106,428 -3%	105,467 -3%	95,598 -3%	88,019 -2%	101,550 -4%
08	82,908 4%	89,494 0%	95,000 -7%	96,549 1%	99,670 -1%	104,487 1%	107,612 3%	111,258 1%	103,346 0%	101,899 -1%	92,885 1%	86,352 4%	97,622 1%
09	86,006 0%	89,523 -3%	88,806 6%	97,307 2%	98,894 3%	105,468 4%	111,003 2%	112,512 2%	103,316 1%	100,554 2%	94,083 4%	90,186 10%	98,138 3%
10	85,591 -4%	87,178 -2%	93,702 -1%	99,464 -3%	101,519 0%	109,598 -1%	112,681 0%	115,324 -2%	104,814 -2%	103,027 -3%	97,646 -1%	98,820 -6%	100,780 -2%
11	82,383 -7%	85,318 9%	93,109 -1%	96,656 -4%	101,366 -5%	108,157 -4%	112,317 1%	113,437 -5%	103,226 -4%	100,380 -5%	97,023 -23%	92,622 0%	98,833 -2%
13	88,346 -5%	78,578 7%	94,139 -2%	101,106 -3%	106,485 -4%	112,500 -3%	111,699 -2%	118,956 -4%	107,642 -2%	105,330 0%	125,424 -22%	92,497 4%	103,558 -4%
14	83,620 3%	83,908 16%	92,374 11%	98,264 7%	101,814 10%	109,006 10%	109,672 9%	113,815 8%	105,976 8%	105,164 7%	97,446 10%	96,137 2%	99,766 8%
16	86,344 10%	97,440 -2%	102,384 -3%	105,122 -5%	111,678 4%	119,439 -17%	119,430 2%	122,475 2%	114,026 -13%	112,740 4%	107,278 2%	97,630 12%	107,999 -1%
17	95,398 1%	95,078 4%	99,617 5%	99,617 12%	115,915 -7%	99,617 21%	121,449 1%	125,471 0%	99,617 18%	117,494 -1%	109,854 -2%	109,224 -10%	107,363 3%
19	96,139	98,741	104,956	111,442	107,961	120,272	122,184	125,116	117,255	116,129	107,277	98,439	110,493
Seasonal Adjustment Factor (to average month)	1.17	1.15	1.07	1.03	0.97	0.94	0.90	0.87	0.97	0.96	1.00	1.08	
												Growth	-0.29%

Average													
Seasonal Adjustment Factor (to average month)	1.12	1.11	1.05	0.99	0.97	0.95	0.96	0.93	0.98	0.96	1.01	1.05	

Average Yearly Growth Calculated -0.3%
Yearly Growth Factor Used 0.5%

ITALICS = ESTIMATED DATA
MADT

□ Speed Data

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/16/25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	1	1	5	0	0	0	0	0	0	0	0	0	0	7	28
13:00	0	0	2	4	11	3	0	0	0	0	0	0	0	0	20	35
14:00	0	0	2	6	9	4	0	0	0	0	0	0	0	0	21	36
15:00	0	1	3	7	9	2	2	0	0	0	0	0	0	0	24	35
16:00	0	1	13	20	23	2	0	0	0	0	0	0	0	0	59	33
17:00	1	2	5	14	26	10	1	0	0	0	0	0	0	0	59	36
18:00	0	0	1	7	10	5	0	0	0	0	0	0	0	0	23	36
19:00	0	0	0	3	2	0	0	0	0	0	0	0	0	0	5	33
20:00	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	43
21:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	1	5	28	66	90	27	4	0	0	0	0	0	0	0	221	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	34 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	121
	Percent of Vehicles > 30 MPH :	54.8%
	Mean Speed(Average) :	31 MPH

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Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/17/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
04:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	38
05:00	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	38
06:00	0	0	0	5	4	2	0	0	0	0	0	0	0	0	11	35
07:00	0	0	1	4	11	3	0	1	0	0	0	0	0	0	20	36
08:00	0	0	2	11	8	0	1	0	0	0	0	0	0	0	22	33
09:00	0	0	0	9	10	5	0	0	0	0	0	0	0	0	24	36
10:00	0	0	0	17	22	2	0	0	0	0	0	0	0	0	41	34
11:00	0	1	7	11	14	8	0	0	0	0	0	0	0	0	41	36
12 PM	0	0	2	6	16	3	0	0	0	0	0	0	0	0	27	34
13:00	0	0	0	12	17	4	0	0	0	0	0	0	0	0	33	34
14:00	0	0	2	14	17	6	0	0	0	0	0	0	0	0	39	35
15:00	0	3	5	5	12	4	1	0	0	0	0	0	0	0	30	35
16:00	0	0	4	23	17	7	0	0	0	0	0	0	0	0	51	34
17:00	1	0	5	14	24	7	0	0	0	0	0	0	0	0	51	34
18:00	0	0	3	11	16	5	0	0	0	0	0	0	0	0	35	34
19:00	0	0	1	3	5	1	0	0	0	0	0	0	0	0	10	34
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
22:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	2	4	33	147	195	60	2	1	0	0	0	0	0	0	444	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	34 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	258
	Percent of Vehicles > 30 MPH :	58.1%
	Mean Speed(Average) :	31 MPH

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Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/18/25	0	0	0	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	0	0	0	*
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
03:00	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	29
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	32
07:00	0	0	0	9	13	3	1	0	0	0	0	0	0	0	26	35
08:00	0	1	2	67	93	28	1	0	0	0	0	0	0	0	192	35
09:00	0	0	15	59	75	13	0	0	0	0	0	0	0	0	162	34
10:00	0	4	16	89	74	17	0	0	0	0	0	0	0	0	200	34
11:00	0	1	26	65	67	18	0	0	0	0	0	0	0	0	177	34
12 PM	1	0	18	67	60	18	3	0	0	0	0	0	0	0	167	34
13:00	0	0	6	54	39	15	1	0	0	0	0	0	0	0	115	34
14:00	0	0	2	30	29	10	0	0	0	0	0	0	0	0	71	34
15:00	0	0	9	27	33	9	0	0	0	0	0	0	0	0	78	34
16:00	0	0	7	26	29	7	1	0	0	0	0	0	0	0	70	34
17:00	0	0	0	0	3	2	1	0	0	0	0	0	0	0	6	40
18:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	28
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	1	6	102	498	517	140	8	0	0	0	0	0	0	0	1272	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	34 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	665
	Percent of Vehicles > 30 MPH :	52.3%
	Mean Speed(Average) :	31 MPH

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Latitude: 0' 0.0000 Undefined

Northbound																
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		
10/19/25	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
01:00	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	*
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
07:00	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5	36
08:00	1	0	1	3	6	4	1	0	0	0	0	0	0	0	16	38
09:00	0	0	2	1	1	0	0	0	0	0	0	0	0	0	4	32
10:00	0	0	0	2	1	1	0	0	0	0	0	0	0	0	4	37
11:00	1	0	1	2	3	0	0	0	0	0	0	0	0	0	7	33
12 PM	0	0	0	2	2	0	0	0	0	0	0	0	0	0	4	33
13:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	32
14:00	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3	32
15:00	0	0	1	2	2	0	0	0	0	0	0	0	0	0	5	33
16:00	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3	37
17:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	28
18:00	0	0	1	1	0	1	0	0	0	0	0	0	0	0	3	37
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
20:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
21:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	2	0	9	21	22	9	1	0	0	0	0	0	0	0	64	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	35 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	32
	Percent of Vehicles > 30 MPH :	50.0%
	Mean Speed(Average) :	30 MPH

Stats	Mean Speed(Average) :	31 MPH
	85th Percentile :	34 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	1076
	Percent of Vehicles > 30 MPH :	53.8%

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Site Code: 1462

Station ID:

Latitude: 0' 0.0000 Undefined

Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/16/25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
13:00	0	1	4	6	10	9	1	0	0	0	0	0	0	0	31	37
14:00	0	1	4	5	8	2	3	0	0	0	0	0	0	0	23	38
15:00	0	0	6	6	5	9	4	1	2	0	0	0	0	0	33	42
16:00	1	1	3	4	8	2	2	0	0	0	0	0	0	0	21	37
17:00	0	0	3	9	9	6	0	0	0	0	0	0	0	0	27	36
18:00	0	1	10	26	24	10	1	0	0	0	0	0	0	0	72	35
19:00	0	2	6	15	15	8	0	0	0	0	0	0	0	0	46	35
20:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	37
21:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	43
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	1	6	37	72	80	48	12	1	2	0	0	0	0	0	259	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	37 MPH
	95th Percentile :	40 MPH
	Number of Vehicles > 30 MPH :	143
	Percent of Vehicles > 30 MPH :	55.2%
	Mean Speed(Average) :	31 MPH

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Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/17/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	19
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
04:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	23
05:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	19
06:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	32
07:00	0	3	1	3	8	5	0	0	0	0	0	0	0	0	20	37
08:00	0	0	0	5	7	5	1	0	0	0	0	0	0	0	18	38
09:00	0	0	2	6	14	3	1	0	0	0	0	0	0	0	26	35
10:00	0	0	4	13	9	15	0	0	0	0	0	0	0	0	41	37
11:00	0	0	6	13	18	6	3	1	0	0	0	0	0	0	47	37
12 PM	0	0	2	9	12	13	4	0	0	0	0	0	0	0	40	39
13:00	0	0	3	13	12	3	1	0	0	0	0	0	0	0	32	34
14:00	0	0	3	9	16	9	3	1	0	0	0	0	0	0	41	38
15:00	0	0	6	12	12	8	3	1	1	0	0	0	0	0	43	39
16:00	0	0	1	9	12	8	0	0	1	0	0	0	0	0	31	37
17:00	1	0	2	8	12	3	3	1	0	0	0	0	0	0	30	39
18:00	0	0	6	33	28	8	2	0	0	0	0	0	0	0	77	34
19:00	0	0	0	10	19	4	0	0	0	0	0	0	0	0	33	34
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
22:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	28
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	1	7	39	145	181	90	21	4	2	0	0	0	0	0	490	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	37 MPH
	95th Percentile :	40 MPH
	Number of Vehicles > 30 MPH :	298
	Percent of Vehicles > 30 MPH :	60.8%
	Mean Speed(Average) :	32 MPH

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Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/18/25	0	0	0	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	0	0	0	*
02:00	0	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	0	1	24
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
07:00	0	0	1	0	2	1	0	0	0	0	0	0	0	0	4	37
08:00	0	0	0	9	10	12	3	1	0	0	0	0	0	0	35	39
09:00	0	3	12	32	47	11	2	0	0	0	0	0	0	0	107	34
10:00	0	1	26	69	59	13	3	0	0	0	0	0	0	0	171	34
11:00	0	6	64	132	89	32	3	0	0	0	0	0	0	0	326	34
12 PM	0	0	11	17	32	23	5	0	0	0	0	0	0	0	88	38
13:00	0	5	49	119	90	20	3	0	0	0	0	0	0	0	286	33
14:00	1	0	7	33	34	19	5	1	0	0	0	0	0	0	100	37
15:00	0	4	16	35	56	16	6	2	1	0	0	0	0	0	136	36
16:00	1	2	6	12	24	7	6	0	0	0	0	0	0	0	58	38
17:00	0	0	3	3	3	3	1	0	0	0	0	0	0	0	13	38
18:00	0	1	5	18	10	1	1	0	0	0	0	0	0	0	36	33
19:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	3	22	201	480	457	158	38	4	1	0	0	0	0	0	1364	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	34 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	658
	Percent of Vehicles > 30 MPH :	48.2%
	Mean Speed(Average) :	30 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Solar Field
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Southbound

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent
10/19/25	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	44
01:00	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	*
03:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
07:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
08:00	0	0	0	2	1	0	1	0	0	0	0	0	0	0	4	42
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
10:00	0	2	0	6	3	2	2	0	0	0	0	0	0	0	15	39
11:00	0	0	2	3	6	2	0	0	0	0	0	0	0	0	13	35
12 PM	0	0	1	2	2	0	0	0	0	0	0	0	0	0	5	33
13:00	1	0	0	2	1	0	1	0	0	0	0	0	0	0	5	41
14:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	27
15:00	0	0	3	1	1	1	0	0	0	0	0	0	0	0	6	35
16:00	1	0	0	4	0	1	1	0	0	0	0	0	0	0	7	39
17:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	33
18:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	37
19:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	19
20:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
21:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	2	3	9	23	16	10	6	0	0	0	0	0	0	0	69	

Statistics 10 MPH Pace Speed : 26-35 MPH
 85th Percentile : 37 MPH
 95th Percentile : 42 MPH
 Number of Vehicles > 30 MPH : 32
 Percent of Vehicles > 30 MPH : 46.4%
 Mean Speed(Average) : 30 MPH

Stats Mean Speed(Average) : 31 MPH
 85th Percentile : 36 MPH
 95th Percentile : 39 MPH
 Number of Vehicles > 30 MPH : 1131
 Percent of Vehicles > 30 MPH : 51.8%

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/16/25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	0	1	4	9	1	0	0	0	0	0	0	0	0	15	34
13:00	0	0	1	6	13	1	2	0	0	0	0	0	0	0	23	34
14:00	0	0	2	6	11	4	0	0	0	0	0	0	0	0	23	35
15:00	0	1	3	11	6	3	1	0	0	0	0	0	0	0	25	35
16:00	0	0	5	24	29	7	0	0	0	0	0	0	0	0	65	34
17:00	0	2	5	12	33	14	1	0	0	0	0	0	0	0	67	36
18:00	0	0	0	3	13	7	0	0	0	0	0	0	0	0	23	37
19:00	0	0	1	1	1	1	0	0	0	0	0	0	0	0	4	37
20:00	0	1	1	1	0	0	0	1	0	0	0	0	0	0	4	47
21:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	0	4	19	68	116	38	4	1	0	0	0	0	0	0	250	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	35 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	159
	Percent of Vehicles > 30 MPH :	63.6%
	Mean Speed(Average) :	32 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/17/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
02:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	44
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
04:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	38
05:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	33
06:00	0	0	1	4	5	2	1	0	0	0	0	0	0	0	13	37
07:00	0	0	3	2	12	2	0	0	0	0	0	0	0	0	19	34
08:00	0	0	3	9	8	1	0	0	0	0	0	0	0	0	21	33
09:00	0	0	0	11	9	4	1	0	0	0	0	0	0	0	25	36
10:00	0	0	3	16	21	2	0	0	0	0	0	0	0	0	42	33
11:00	0	0	0	9	25	10	0	0	0	0	0	0	0	0	44	36
12 PM	0	1	0	6	11	8	0	0	0	0	0	0	0	0	26	37
13:00	0	0	2	11	15	3	1	0	0	0	0	0	0	0	32	34
14:00	0	0	1	20	13	8	0	0	0	0	0	0	0	0	42	36
15:00	0	0	3	9	17	1	1	0	0	0	0	0	0	0	31	34
16:00	0	1	2	22	27	9	0	0	0	0	0	0	0	0	61	34
17:00	0	2	2	17	30	11	0	1	0	0	0	0	0	0	63	36
18:00	0	0	1	5	17	6	1	0	0	0	0	0	0	0	30	37
19:00	0	0	0	2	4	4	0	0	0	0	0	0	0	0	10	38
20:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
21:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
22:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	0	4	23	146	217	72	6	1	0	0	0	0	0	0	469	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	35 MPH
	95th Percentile :	38 MPH
	Number of Vehicles > 30 MPH :	296
	Percent of Vehicles > 30 MPH :	63.1%
	Mean Speed(Average) :	32 MPH

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Just South of Speed Feedback Sign
Groton, MA

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Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent
10/18/25	0	0	0	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	0	0	0	*
02:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	43
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	1	3	0	0	0	0	0	0	0	0	0	4	34
07:00	0	0	0	9	17	9	1	0	0	0	0	0	0	0	36	37
08:00	0	0	5	38	96	45	2	1	0	0	0	0	0	0	187	37
09:00	0	0	5	51	101	31	1	0	0	0	0	0	0	0	189	35
10:00	0	2	11	39	85	38	5	0	0	0	0	0	0	0	180	37
11:00	0	1	11	65	83	44	3	1	0	0	0	0	0	0	208	36
12 PM	0	0	4	30	65	34	9	1	0	0	0	0	0	0	143	38
13:00	0	2	11	43	46	17	3	0	0	0	0	0	0	0	122	35
14:00	0	0	1	23	35	13	1	0	0	0	0	0	0	0	73	36
15:00	0	0	10	26	43	11	2	0	0	0	0	0	0	0	92	34
16:00	0	1	2	13	19	13	5	1	0	0	0	0	0	0	54	39
17:00	0	0	1	0	0	1	2	0	0	0	0	0	0	0	4	43
18:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	28
19:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	0	6	62	341	594	256	35	4	0	0	0	0	0	0	1298	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	36 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	889
	Percent of Vehicles > 30 MPH :	68.5%
	Mean Speed(Average) :	32 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

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Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/19/25	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
07:00	0	0	0	1	3	1	0	0	0	0	0	0	0	0	5	36
08:00	0	0	1	4	13	9	1	0	0	0	0	0	0	0	28	38
09:00	0	0	1	1	1	1	0	0	0	0	0	0	0	0	4	37
10:00	0	0	0	1	2	1	0	0	0	0	0	0	0	0	4	37
11:00	0	1	6	24	41	17	2	0	0	0	0	0	0	0	91	36
12 PM	0	0	2	6	15	6	2	1	0	0	0	0	0	0	32	38
13:00	0	0	1	1	6	1	0	0	0	0	0	0	0	0	9	34
14:00	0	1	3	9	15	5	2	0	0	0	0	0	0	0	35	36
15:00	0	0	1	4	4	3	0	0	0	0	0	0	0	0	12	37
16:00	0	0	1	3	1	1	0	0	0	0	0	0	0	0	6	35
17:00	0	1	1	1	1	1	0	0	0	0	0	0	0	0	5	36
18:00	0	0	1	0	1	1	0	0	0	0	0	0	0	0	3	37
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
20:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
21:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	0	3	18	55	106	48	7	1	0	0	0	0	0	0	238	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	37 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	162
	Percent of Vehicles > 30 MPH :	68.1%
	Mean Speed(Average) :	32 MPH

Stats	Mean Speed(Average) :	32 MPH
	85th Percentile :	36 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	1506
	Percent of Vehicles > 30 MPH :	66.8%

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/16/25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	1	2	5	2	3	1	0	0	0	0	0	0	0	14	38
13:00	0	0	1	8	6	10	3	0	0	0	0	0	0	0	28	39
14:00	0	0	2	9	7	7	0	0	0	0	0	0	0	0	25	37
15:00	0	0	1	4	16	8	1	0	1	0	0	0	0	0	31	38
16:00	0	1	0	7	7	5	1	0	0	0	0	0	0	0	21	37
17:00	0	0	1	7	14	4	2	0	0	0	0	0	0	0	28	37
18:00	0	0	3	11	39	14	1	0	0	0	0	0	0	0	68	36
19:00	0	0	0	13	25	14	1	0	0	0	0	0	0	0	53	37
20:00	0	0	0	2	2	0	0	0	0	0	0	0	0	0	4	33
21:00	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	43
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	0	2	10	66	119	65	11	0	1	0	0	0	0	0	274	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	37 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	196
	Percent of Vehicles > 30 MPH :	71.5%
	Mean Speed(Average) :	33 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/17/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	19
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
04:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	23
05:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
06:00	0	0	1	0	1	1	0	0	0	0	0	0	0	0	3	37
07:00	2	0	1	3	12	1	0	0	0	0	0	0	0	0	19	34
08:00	0	0	1	2	8	7	0	0	0	0	0	0	0	0	18	38
09:00	0	0	0	6	8	8	1	0	0	0	0	0	0	0	23	38
10:00	0	0	1	8	17	12	1	0	0	0	0	0	0	0	39	37
11:00	0	0	1	6	18	16	3	0	0	0	0	0	0	0	44	38
12 PM	0	0	0	4	16	13	4	0	0	0	0	0	0	0	37	39
13:00	0	0	0	8	14	7	0	0	0	0	0	0	0	0	29	36
14:00	0	0	2	7	20	11	2	0	0	0	0	0	0	0	42	38
15:00	0	0	0	8	19	11	3	0	0	0	0	0	0	0	41	38
16:00	0	1	0	3	17	8	3	1	0	0	0	0	0	0	33	39
17:00	1	0	0	8	17	4	3	0	0	0	0	0	0	0	33	37
18:00	0	0	3	11	43	18	0	0	0	0	0	0	0	0	75	36
19:00	0	0	0	3	24	8	0	0	0	0	0	0	0	0	35	36
20:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
21:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
22:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	3	3	12	78	237	125	20	1	0	0	0	0	0	0	479	

Statistics	10 MPH Pace Speed :	31-40 MPH
	85th Percentile :	37 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	383
	Percent of Vehicles > 30 MPH :	80.0%
	Mean Speed(Average) :	33 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

Southbound

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/18/25	0	0	0	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	0	0	0	*
02:00	0	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	0	1	19
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	19
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
07:00	0	0	0	2	4	1	2	0	0	0	0	0	0	0	9	41
08:00	0	0	2	6	16	6	4	0	0	0	0	0	0	0	34	39
09:00	0	0	1	45	45	22	0	0	0	0	0	0	0	0	113	36
10:00	0	0	3	45	95	35	4	1	0	0	0	0	0	0	183	36
11:00	0	1	18	93	140	40	2	0	0	0	0	0	0	0	294	34
12 PM	0	0	1	11	37	22	6	0	0	0	0	0	0	0	77	38
13:00	91	25	21	31	68	19	0	0	0	0	0	0	0	0	255	33
14:00	0	1	0	12	51	43	2	0	0	0	0	0	0	0	109	38
15:00	0	1	2	31	54	25	2	0	0	0	0	0	0	0	115	36
16:00	0	0	0	7	29	12	7	1	0	0	0	0	0	0	56	39
17:00	0	0	0	3	3	6	0	1	0	0	0	0	0	0	13	39
18:00	0	0	3	11	17	5	0	0	0	0	0	0	0	0	36	34
19:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	91	31	51	298	559	236	29	3	0	0	0	0	0	0	1298	

Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	36 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	827
	Percent of Vehicles > 30 MPH :	63.7%
	Mean Speed(Average) :	31 MPH

MDM TRANSPORTATION CONSULTANTS, INC.

Cow Pond Brook Road
Just South of Speed Feedback Sign
Groton, MA

28 Lord Road, Suite 280
Marlborough, MA, 01752

Site Code: 1462
Station ID:

Latitude: 0' 0.0000 Undefined

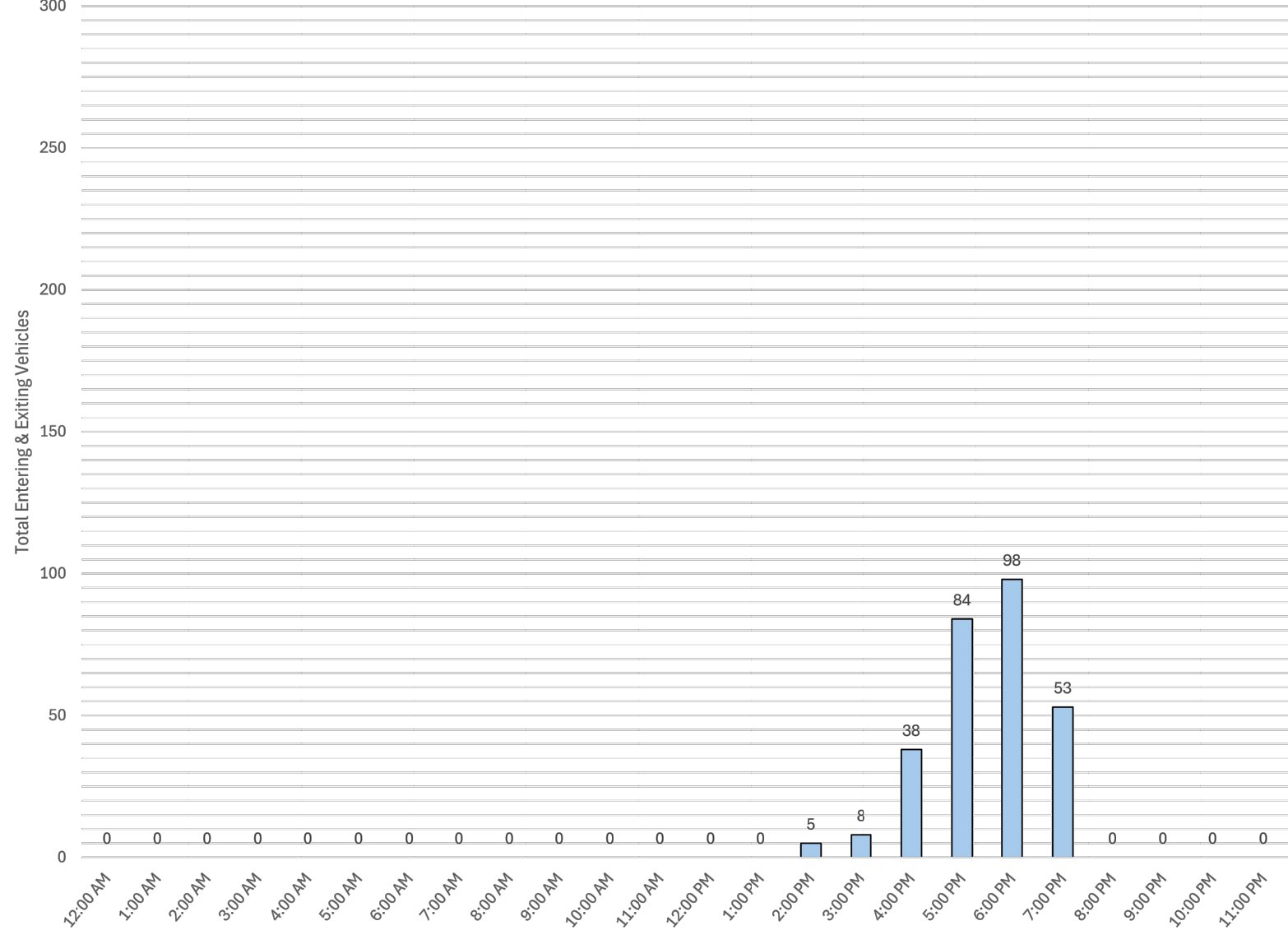
Southbound

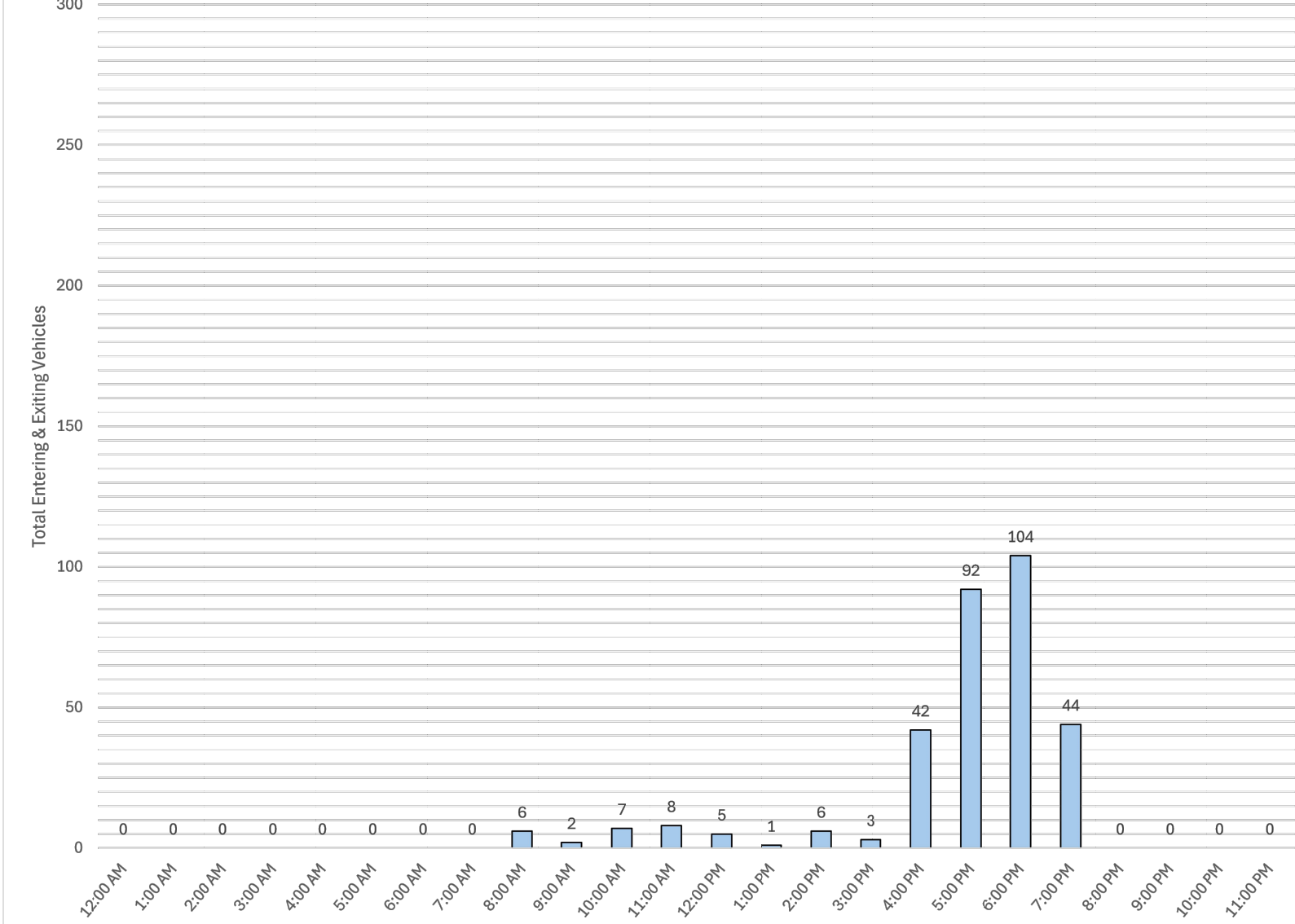
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent
10/19/25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	34
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
07:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29
08:00	0	0	0	0	3	0	2	0	0	0	0	0	0	0	5	43
09:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
10:00	0	0	0	5	6	3	0	0	0	0	0	0	0	0	14	36
11:00	0	0	4	3	13	13	0	0	0	0	0	0	0	0	33	38
12 PM	0	0	1	0	2	4	1	0	0	0	0	0	0	0	8	39
13:00	1	1	0	9	21	9	2	0	0	0	0	0	0	0	43	37
14:00	0	1	7	35	22	10	2	0	0	0	0	0	0	0	77	35
15:00	0	0	1	1	4	0	0	0	0	0	0	0	0	0	6	33
16:00	1	0	1	2	1	4	1	0	0	0	0	0	0	0	10	39
17:00	0	0	3	10	18	6	2	0	0	0	0	0	0	0	39	36
18:00	0	0	0	1	1	0	0	1	0	0	0	0	0	0	3	47
19:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
20:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	39
21:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*
Total	2	2	20	67	93	50	10	1	0	0	0	0	0	0	245	

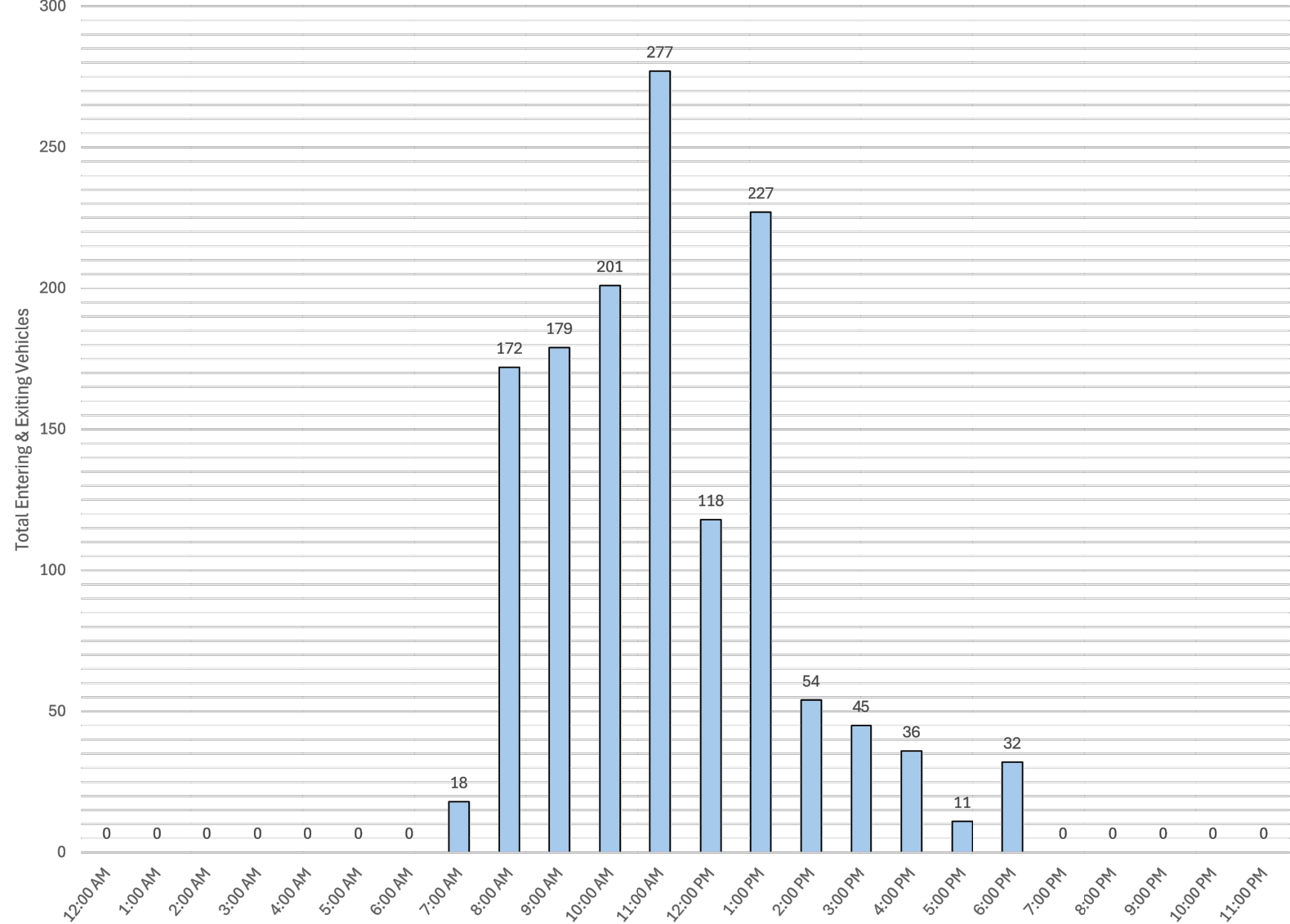
Statistics	10 MPH Pace Speed :	26-35 MPH
	85th Percentile :	37 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	154
	Percent of Vehicles > 30 MPH :	62.9%
	Mean Speed(Average) :	32 MPH

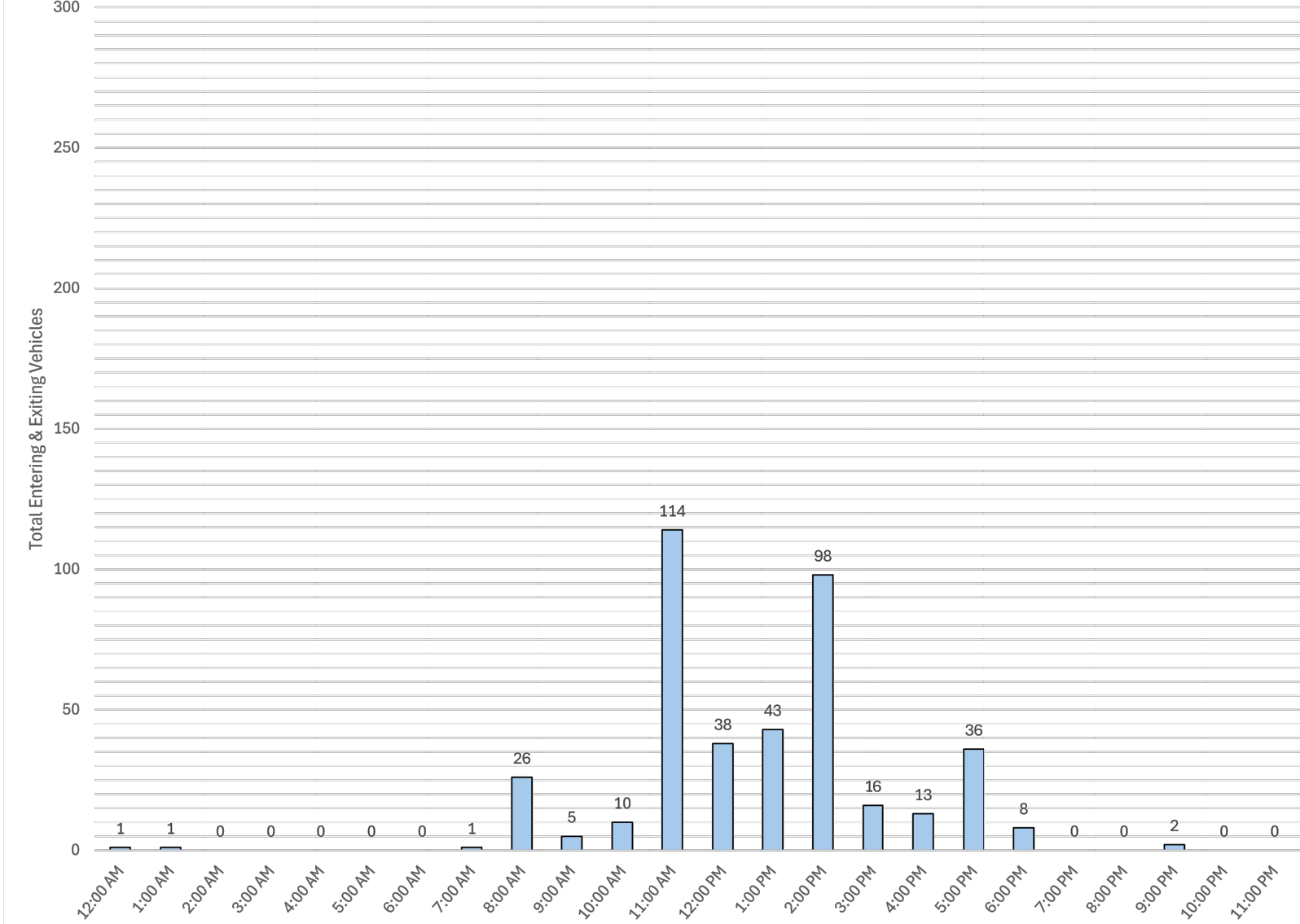
Stats	Mean Speed(Average) :	32 MPH
	85th Percentile :	37 MPH
	95th Percentile :	39 MPH
	Number of Vehicles > 30 MPH :	1560
	Percent of Vehicles > 30 MPH :	67.9%

□ Trip Generation Data









Institute of Transportation Engineers (ITE) 12th Edition
Land Use Code (LUC) 488 - Soccer Complex

Average Vehicle Trips Ends vs: Number of Fields
Independent Variable (X): 4

AVERAGE WEEKDAY DAILY

$$T = 71.33 * (X)$$

$$T = 71.33 * 4$$

$$T = 285.32$$

$$T = 286 \text{ vehicle trips}$$

with 50% (143 vpd) entering and 50% (143 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 0.99 * (X)$$

$$T = 0.99 * 4$$

$$T = 3.96$$

$$T = 4 \text{ vehicle trips}$$

with 61% (2 vph) entering and 39% (2 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 16.43 * (X)$$

$$T = 16.43 * 4$$

$$T = 65.72$$

$$T = 66 \text{ vehicle trips}$$

with 66% (44 vph) entering and 34% (22 vph) exiting.

WEEKDAY MORNING PEAK HOUR OF GENERATOR

$$T = 1.77 * (X)$$

$$T = 1.77 * 0$$

$$T = 7.08$$

$$T = 7 \text{ vehicle trips}$$

with 53% (4 vph) entering and 47% (3 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF AGENERATOR

$$T = 16.90 * (X)$$

$$T = 16.90 * 0$$

$$T = 67.60$$

$$T = 68 \text{ vehicle trips}$$

with 47% (32 vph) entering and 53% (36 vph) exiting.

SATURDAY DAILY

$$T = 404.88 * (X)$$

$$T = 404.88 * 0$$

$$T = 1619.52$$

$$T = 1,620 \text{ vehicle trips}$$

with 50% (810 vpd) entering and 50% (810 vpd) exiting.

SATURDAY MIDDAY PEAK HOUR OF GENERATOR

$$T = 37.48 * (X)$$

$$T = 37.48 * 4$$

$$T = 149.92$$

$$T = 150 \text{ vehicle trips}$$

with 48% (72 vph) entering and 52% (78 vph) exiting.

□ Trip Distribution



□ Capacity Analysis

Intersection

Int Delay, s/veh 5.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	2	127	44	0	0	70	91	13	0	78	2
Future Vol, veh/h	0	2	127	44	0	0	70	91	13	0	78	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	2	138	48	0	0	76	99	14	0	85	2

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	337	351	86	344	345	106	87	0	0	113	0	0
Stage 1	86	86	-	258	258	-	-	-	-	-	-	-
Stage 2	251	265	-	86	87	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	617	573	973	610	578	948	1509	-	-	1476	-	-
Stage 1	922	824	-	747	694	-	-	-	-	-	-	-
Stage 2	753	689	-	922	823	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	584	542	973	494	547	948	1509	-	-	1476	-	-
Mov Cap-2 Maneuver	584	542	-	494	547	-	-	-	-	-	-	-
Stage 1	922	824	-	706	657	-	-	-	-	-	-	-
Stage 2	712	652	-	789	823	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.38	13.08	3.02	0
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	706	-	-	961	494	1476	-	-
HCM Lane V/C Ratio	0.05	-	-	0.146	0.097	-	-	-
HCM Ctrl Dly (s/v)	7.5	0	-	9.4	13.1	0	-	-
HCM Lane LOS	A	A	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.5	0.3	0	-	-

Intersection

Int Delay, s/veh 4.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	16	57	2	4	9	66	0	0	10	2
Future Vol, veh/h	0	0	16	57	2	4	9	66	0	0	10	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	17	62	2	4	10	72	0	0	11	2

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	104	103	12	102	104	72	13	0	0	72	0	0
Stage 1	12	12	-	91	91	-	-	-	-	-	-	-
Stage 2	92	91	-	11	13	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	876	787	1069	879	786	991	1605	-	-	1528	-	-
Stage 1	1009	886	-	916	819	-	-	-	-	-	-	-
Stage 2	915	819	-	1010	885	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	864	782	1069	859	781	991	1605	-	-	1528	-	-
Mov Cap-2 Maneuver	864	782	-	859	781	-	-	-	-	-	-	-
Stage 1	1009	886	-	910	814	-	-	-	-	-	-	-
Stage 2	902	814	-	993	885	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	8.42	9.53	0.87	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	216	-	-	1069	863	1528	-	-
HCM Lane V/C Ratio	0.006	-	-	0.016	0.079	-	-	-
HCM Ctrl Dly (s/v)	7.3	0	-	8.4	9.5	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.3	0	-	-

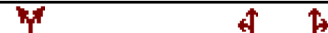
HCM 7th TWSC
3: Cow Pond Brook Road

01/28/2026

Intersection

Int Delay, s/veh 0.8

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations 

Traffic Vol, veh/h 0 16 29 173 282 0

Future Vol, veh/h 0 16 29 173 282 0

Conflicting Peds, #/hr 0 0 0 0 0 0

Sign Control Stop Stop Free Free Free Free

RT Channelized - None - None - None

Storage Length 0 - - - - -

Veh in Median Storage, # 0 - - 0 0 -

Grade, % 0 - - 0 0 -

Peak Hour Factor 92 92 92 92 92 92

Heavy Vehicles, % 2 2 2 2 2 2

Mvmt Flow 0 17 32 188 307 0

Major/Minor Minor2 Major1 Major2

Conflicting Flow All 558 307 307 0 - 0

Stage 1 307 - - - - -

Stage 2 251 - - - - -

Critical Hdwy 6.42 6.22 4.12 - - -

Critical Hdwy Stg 1 5.42 - - - - -

Critical Hdwy Stg 2 5.42 - - - - -

Follow-up Hdwy 3.518 3.318 2.218 - - -

Pot Cap-1 Maneuver 491 733 1254 - - -

Stage 1 746 - - - - -

Stage 2 791 - - - - -

Platoon blocked, % - - -

Mov Cap-1 Maneuver 477 733 1254 - - -

Mov Cap-2 Maneuver 477 - - - - -

Stage 1 726 - - - - -

Stage 2 791 - - - - -

Approach EB NB SB

HCM Ctrl Dly, s/v 10.03 1.14 0

HCM LOS B

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h) 258 - 733 - -

HCM Lane V/C Ratio 0.025 - 0.024 - -

HCM Ctrl Dly (s/v) 7.9 0 10 - -

HCM Lane LOS A A B - -

HCM 95th %tile Q(veh) 0.1 - 0.1 - -

HCM 7th TWSC

1: Cow Pond Brook Road & Central Driveway/Compost Facility Driveway

01/28/2026

Intersection

Int Delay, s/veh 5.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
----------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Lane Configurations

Traffic Vol, veh/h	0	2	127	44	0	0	70	91	13	0	78	2
--------------------	---	---	-----	----	---	---	----	----	----	---	----	---

Future Vol, veh/h	0	2	127	44	0	0	70	91	13	0	78	2
-------------------	---	---	-----	----	---	---	----	----	----	---	----	---

Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
------------------------	---	---	---	---	---	---	---	---	---	---	---	---

Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
--------------	------	------	------	------	------	------	------	------	------	------	------	------

RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
----------------	---	---	------	---	---	------	---	---	------	---	---	------

Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
----------------	---	---	---	---	---	---	---	---	---	---	---	---

Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
--------------------------	---	---	---	---	---	---	---	---	---	---	---	---

Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
----------	---	---	---	---	---	---	---	---	---	---	---	---

Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
------------------	----	----	----	----	----	----	----	----	----	----	----	----

Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
-------------------	---	---	---	---	---	---	---	---	---	---	---	---

Mvmt Flow	0	2	138	48	0	0	76	99	14	0	85	2
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Major/Minor	Minor2	Minor1	Major1	Major2
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Conflicting Flow All	337	351	86	344	345	106	87	0	0	113	0	0
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Stage 1	86	86	-	258	258	-	-	-	-	-	-	-
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Stage 2	251	265	-	86	87	-	-	-	-	-	-	-
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Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
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Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
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Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
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Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
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Pot Cap-1 Maneuver	617	573	973	610	578	948	1509	-	-	1476	-	-
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Stage 1	922	824	-	747	694	-	-	-	-	-	-	-
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Stage 2	753	689	-	922	823	-	-	-	-	-	-	-
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Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
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Mov Cap-1 Maneuver	584	542	973	494	547	948	1509	-	-	1476	-	-
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Mov Cap-2 Maneuver	584	542	-	494	547	-	-	-	-	-	-	-
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Stage 1	922	824	-	706	657	-	-	-	-	-	-	-
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Stage 2	712	652	-	789	823	-	-	-	-	-	-	-
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Approach	EB	WB	NB	SB
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HCM Ctrl Dly, s/v	9.38	13.08	3.02	0
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HCM LOS	A	B		
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Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
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Capacity (veh/h)	706	-	-	961	494	1476	-	-
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HCM Lane V/C Ratio	0.05	-	-	0.146	0.097	-	-	-
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HCM Ctrl Dly (s/v)	7.5	0	-	9.4	13.1	0	-	-
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HCM Lane LOS	A	A	-	A	B	A	-	-
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HCM 95th %tile Q(veh)	0.2	-	-	0.5	0.3	0	-	-
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Intersection

Int Delay, s/veh 4.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
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Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	16	57	2	4	9	66	0	0	10	2
Future Vol, veh/h	0	0	16	57	2	4	9	66	0	0	10	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	17	62	2	4	10	72	0	0	11	2

Major/Minor	Minor2		Minor1		Major1		Major2	
Conflicting Flow All	104	103	12	102	104	72	13	0
Stage 1	12	12	-	91	91	-	-	-
Stage 2	92	91	-	11	13	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	876	787	1069	879	786	991	1605	-
Stage 1	1009	886	-	916	819	-	-	-
Stage 2	915	819	-	1010	885	-	-	-
Platoon blocked, %								-
Mov Cap-1 Maneuver	864	782	1069	859	781	991	1605	-
Mov Cap-2 Maneuver	864	782	-	859	781	-	-	-
Stage 1	1009	886	-	910	814	-	-	-
Stage 2	902	814	-	993	885	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	8.42	9.53	0.87	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	216	-	-	1069	863	1528	-	-
HCM Lane V/C Ratio	0.006	-	-	0.016	0.079	-	-	-
HCM Ctrl Dly (s/v)	7.3	0	-	8.4	9.5	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.3	0	-	-

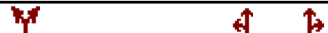
HCM 7th TWSC
3: Cow Pond Brook Road

01/28/2026

Intersection

Int Delay, s/veh 2.8

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations 

Traffic Vol, veh/h 0 94 101 173 282 0

Future Vol, veh/h 0 94 101 173 282 0

Conflicting Peds, #/hr 0 0 0 0 0 0

Sign Control Stop Stop Free Free Free Free

RT Channelized - None - None - None

Storage Length 0 - - - - -

Veh in Median Storage, # 0 - - 0 0 -

Grade, % 0 - - 0 0 -

Peak Hour Factor 92 92 92 92 92 92

Heavy Vehicles, % 2 2 2 2 2 2

Mvmt Flow 0 102 110 188 307 0

Major/Minor Minor2 Major1 Major2

Conflicting Flow All 714 307 307 0 - 0

Stage 1 307 - - - - -

Stage 2 408 - - - - -

Critical Hdwy 6.42 6.22 4.12 - - -

Critical Hdwy Stg 1 5.42 - - - - -

Critical Hdwy Stg 2 5.42 - - - - -

Follow-up Hdwy 3.518 3.318 2.218 - - -

Pot Cap-1 Maneuver 398 733 1254 - - -

Stage 1 746 - - - - -

Stage 2 672 - - - - -

Platoon blocked, % - - - - -

Mov Cap-1 Maneuver 359 733 1254 - - -

Mov Cap-2 Maneuver 359 - - - - -

Stage 1 673 - - - - -

Stage 2 672 - - - - -

Approach EB NB SB

HCM Ctrl Dly, s/v 10.7 3 0

HCM LOS B

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h) 664 - 733 - -

HCM Lane V/C Ratio 0.088 - 0.139 - -

HCM Ctrl Dly (s/v) 8.1 0 10.7 - -

HCM Lane LOS A A B - -

HCM 95th %tile Q(veh) 0.3 - 0.5 - -

□ Parking Analysis

Parking Accumulation
1462 Groton Sports Fields
October 16 to October 19, 2025

	Thursday			Friday			Saturday			Sunday		
	Parking Lot	On Street	Total	Parking Lot	On Street	Total	Parking Lot	On Street	Total	Parking Lot	On Street	Total
12:00 AM	0	0	0	0	0	0	0	0	0	1	0	1
1:00 AM	0	0	0	0	0	0	0	0	0	0	1	1
2:00 AM	0	0	0	0	0	0	0	0	0	0	2	2
3:00 AM	0	0	0	0	0	0	0	0	0	0	3	3
4:00 AM	0	0	0	0	0	0	0	0	0	0	4	4
5:00 AM	0	0	0	0	0	0	0	0	0	0	5	5
6:00 AM	0	0	0	0	0	0	0	0	0	0	6	6
7:00 AM	0	0	0	0	0	0	8	0	8	1	7	8
8:00 AM	0	0	0	1	0	1	138	10	148	23	8	31
9:00 AM	0	0	0	1	0	1	163	23	186	27	9	36
10:00 AM	0	0	0	3	0	3	188	26	214	26	10	36
11:00 AM	0	0	0	2	0	2	150	20	170	78	11	89
12:00 PM	0	0	0	1	0	1	177	17	194	101	12	113
1:00 PM	0	0	0	1	0	1	186	10	196	100	13	113
2:00 PM	2	0	2	2	0	2	68	3	71	68	14	82
3:00 PM	2	0	2	1	0	1	22	2	24	35	15	50
4:00 PM	27	0	27	20	0	20	36	0	36	35	16	51
5:00 PM	75	0	75	42	3	45	35	0	35	33	17	50
6:00 PM	82	0	82	55	3	58	30	0	30	2	18	20
7:00 PM	45	0	45	31	0	31	0	0	0	0	19	19
8:00 PM	0	0	0	0	0	0	0	0	0	0	20	20
9:00 PM	0	0	0	0	0	0	0	0	0	1	21	22
10:00 PM	0	0	0	0	0	0	0	0	0	0	22	22
11:00 PM	0	0	0	0	0	0	0	0	0	0	23	23

Soccer Field - Non-Tournament (488)

Peak Period Parking Demand vs: **Fields**

On a: **Weekday (Monday - Thursday)**

Setting/Location: **General Urban/Suburban**

Number of Studies: 4

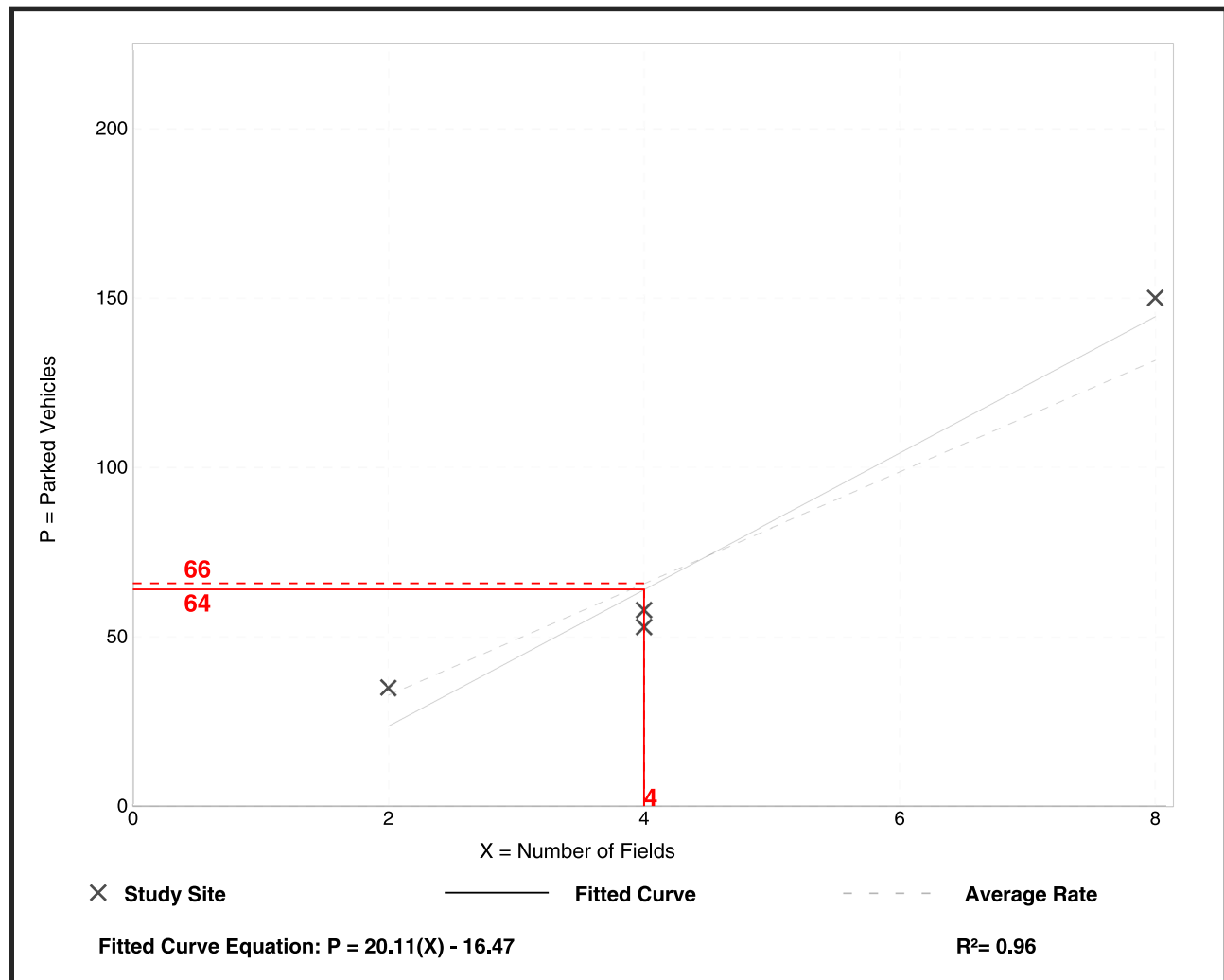
Avg. Num. of Fields: 4.5

Peak Period Parking Demand per Field

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
16.44	13.25 - 18.75	14.06 / 18.75	***	2.73 (17%)

Data Plot and Equation

Caution – Small Sample Size



Parking Generation Manual, 6th Edition • Institute of Transportation Engineers

Soccer Field - Non-Tournament (488)

Peak Period Parking Demand vs: **Fields**

On a: **Saturday**

Setting/Location: **General Urban/Suburban**

Number of Studies: 2

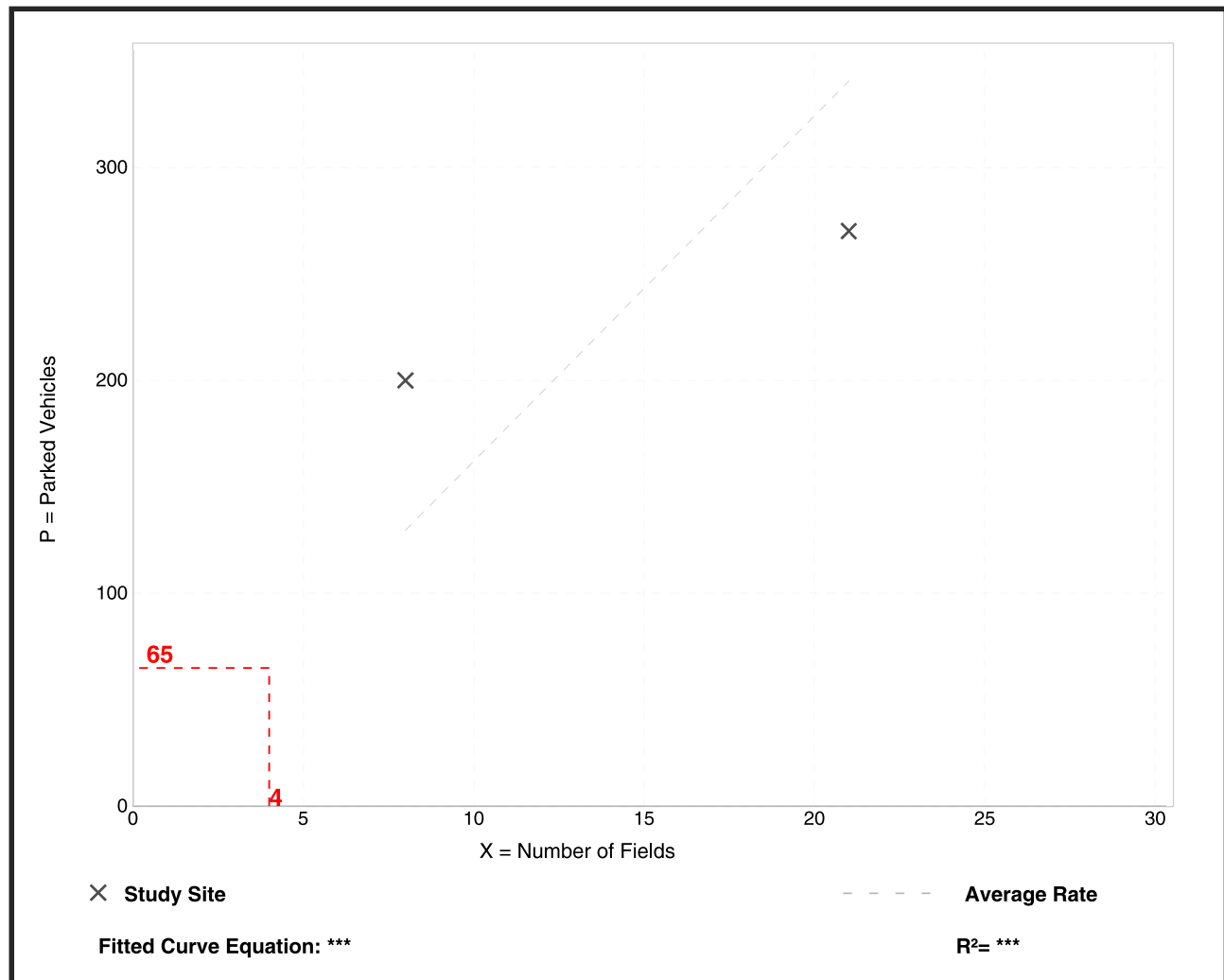
Avg. Num. of Fields: 15

Peak Period Parking Demand per Field

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
16.21	12.86 - 25.00	*** / ***	***	***

Data Plot and Equation

Caution – Small Sample Size



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Soccer Field - Non-Tournament (488)

Peak Period Parking Demand vs: **Fields**

On a: **Sunday**

Setting/Location: **General Urban/Suburban**

Number of Studies: **2**

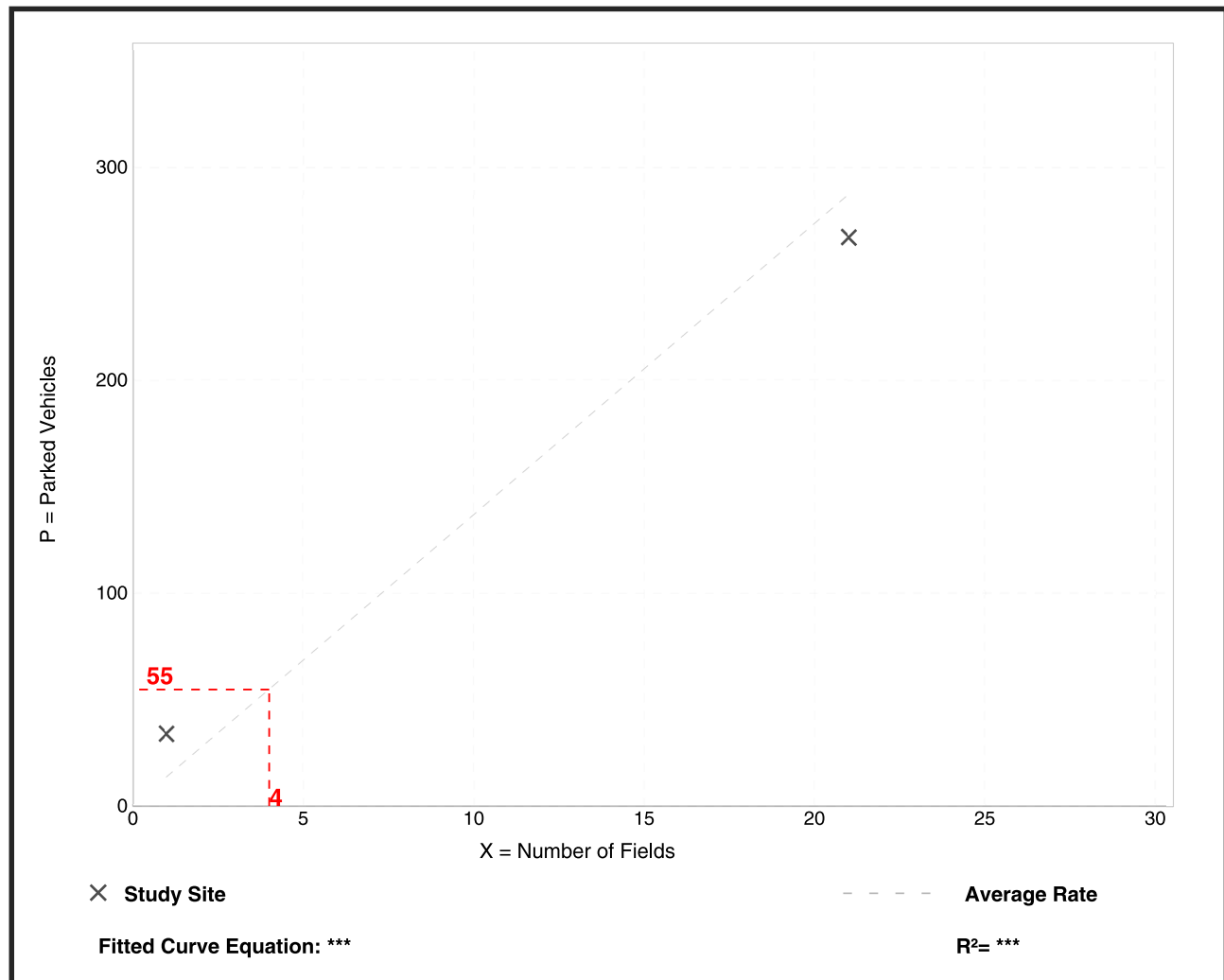
Avg. Num. of Fields: **11**

Peak Period Parking Demand per Field

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
13.68	12.71 - 34.00	*** / ***	***	***

Data Plot and Equation

Caution – Small Sample Size



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