

## INTRODUCTION

It is proposed to construct a self-storage facility on a parcel of land that is currently undeveloped, located in the southwest corner of the intersection of Crine Road (CR 4)/Vanderburg Road and Boundary Road in the Township of Marlboro, Monmouth County, New Jersey (see Figure 1 in Appendix A). The site is designated as Block 360 - Lots 7 and 8 on the Marlboro Township Tax Maps. It is proposed to construct a $89,700 \mathrm{SF}$ self-storage facility ("The Project"). The site is located within the LI - Light Industrial Zone. It is proposed to provide access to The Project via a full movement driveway along Vanderburg Road.

Dynamic Traffic LLC has been retained to prepare this study to assess the traffic impact associated with the construction of The Project on the adjacent roadway network. This study documents the methodology, analyses, findings and conclusions of our study and includes:

- A detailed field inspection was conducted to obtain an inventory of existing roadway geometry, traffic control, and location and geometry of existing driveways and intersections.
- Existing traffic data was collected via manual turning movement (MTM) counts during the weekday PM and Saturday midday peak periods at the intersection of Crine Road (CR 4)/ Vanderburg Road and Boundary Road.
- Projections of traffic to be generated by the proposed development were prepared utilizing trip generation data as published by the Institute of Transportation Engineers. Site traffic was then assigned to the adjacent street system based upon the anticipated directional distribution.
- Capacity analyses were conducted for the Existing, No Build, and Build conditions for the study intersections.
- The proposed point of ingress and egress was inspected for adequacy of geometric design, spacing and/or alignment to streets and driveways on the opposite side of the street, relationship to other driveways adjacent to the development, and conformance with accepted design standards.
- The site plan as designed was reviewed for sufficiency in accommodating large wheel base vehicles such as recreational vehicles or emergency vehicles.
- The parking layout and supply was assessed based on accepted design standards, local requirements, and demand experienced at similar developments.


## EXISTING CONDITIONS

A review of the existing roadway conditions near the proposed site was conducted to provide the basis for assessing the traffic impact of the development. This included field investigations of the surrounding roadways and intersections, collection of traffic volume data, and extensive analyses.

## Existing Roadway Conditions

The following are descriptions of the roadways in the study area:
Crine Road (CR 4) is an Urban Major Collector roadway under Monmouth County jurisdiction with a general east/west orientation. In the vicinity of the site the posted speed limit is 45 MPH and the roadway provides one travel lane in each direction. On-street parking is not permitted. Curb and sidewalk are not provided along either side of the roadway. Crine Road (CR 4) provides a straight horizontal alignment and an upgrade from east to west. The land uses along Crine Road (CR 4) in the vicinity of The Project are primarily residential.

Vanderburg Road is an Urban Major Collector roadway under Marlboro Township jurisdiction with a general east/west orientation. In the vicinity of the site the posted speed limit is 45 MPH and the roadway provides one travel lane in each direction. On-street parking is not permitted. Curb is provided along both sides of the roadway, while sidewalk is not provided along either side of the roadway. Vanderburg Road provides a straight horizontal alignment along the site frontage and a relatively flat vertical alignment. The land uses along Vanderburg Road in the vicinity of The Project are mixed residential, commercial, and industrial.

Boundary Road is an Urban Major Collector roadway under Colts Neck Township and Marlboro Township jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 40 MPH and the roadway provides one travel lane in each direction. On-street parking is not permitted. Curb is provided along the northbound side of the roadway to the north of Crine Road (CR 4)/Vanderburg Road and along the southside of the roadway to the south of Crine Road (CR 4)/Vanderburg Road. Sidewalk is not provided along either side of the roadway. Boundary Road provides a relatively straight vertical alignment and a downgrade from north to south. The land uses along Boundary Road in the vicinity of The Project are mixed residential and industrial.

## Existing Traffic Volumes

Manual turning movement (MTM) counts were conducted on Thursday, June 10, 2021 from 4:30 to 6:30 PM and on Saturday, June 12, 2021 from 11:00 AM to 2:00 PM at the intersection of Crine Road (CR 4)/Vanderburg Road and Boundary Road.

Review of the collected traffic data reveals that the weekday evening PSH occurs between 4:30 PM 5:30 PM and the Saturday PSH occurs between 12:45 PM - 1:45 PM. Figure 2, located in Appendix B , shows the existing peak hour traffic volumes at the study intersections. All traffic counts are contained in Appendix B.

## COVID-19 Traffic Count Normalization

It should be noted that various protocols associated with the COVID-19 pandemic were in effect as of the time of the traffic counts. As a result, current traffic volumes on the surrounding roadways may be atypically low at this time and would not be representative of "existing" traffic conditions. While there are currently no historical traffic volumes published on the study roadways in the vicinity of the site, it is noted that this firm recently conducted a traffic count comparison for existing traffic volumes in Marlboro Township, contained within the Traffic Impact Study for the Marlboro Community Commerce Park, prepared Dynamic Traffic and dated April 30, 2021. Specially, this firm conducted MTM counts at the intersection of Amboy Road and Tennent Road on Tuesday, April 20, 2021 and normalized these volumes utilizing a June 2018 NJDOT ATR located along Tennant Road just east of Amboy Road.

In order to perform an appropriate comparison, the 2018 NJDOT traffic volumes were increased to better represent existing 2021 traffic volumes by applying a growth rate of $1.0 \%$ per year obtained from the NJDOT Annual Background Growth Rate Table for a period of three (3) years. The adjusted 2018 traffic volumes were then compared to the existing 2021 traffic counts as summarized in the table below.

Table I
Traffic Count Comparison

| Location | Date | As-Counted | With Background <br> Growth | \% Difference |
| :---: | :---: | :---: | :---: | :---: |
|  |  | PM | PM |  |
| Amboy Road and <br> Tennent Road | June 2018 | 1,057 | 1,089 | $-9 \%$ |
|  | April 2021 | 1,196 | 1,196 |  |

${ }^{[1]}$ June 2018 data increased by $1.00 \%$ per NJDOT Annual Background Growth Rate Table compounded annually for three years.

As seen above, the current traffic volumes were found to be higher than the historical traffic volumes grown to represent existing conditions during the weekday evening peak hour. It is noted that there is no published historical traffic data published during the Saturday peak hour. Therefore, no adjustment factor was applied to peak hour volumes.

## Existing Capacity Analysis

The methodology utilized in the capacity analyses is described in the Highway Capacity Manual, published by the Transportation Research Board. In general, the term Level of Service (LOS) is used to provide a "qualitative" evaluation of capacity based upon certain "quantitative" calculations related to empirical values, such as traffic volume and intersection control.

An unsignalized (STOP sign controlled) driveway or side street along a through route is seldom critical from an overall capacity standpoint, however, it may be of great significance to the capacity of the minor cross-route, and it may influence the quality of traffic flow on both. When analyzing an unsignalized intersection, it is assumed that both the major street through and right turn movements are unimpeded and have the right-of-way over all side street traffic and left turns from the major street. All other turning movements in the intersection cross, merge with, or are otherwise impeded by major
street movements. Traffic delays at unsignalized intersections are determined by sequentially processing these impeded movements. Table II describes the level of service ranges for unsignalized (stop controlled) intersections.

Table II
Level of Service Criteria for Unsignalized Intersections

| Level of <br> Service | Average Control Delay <br> (seconds per vehicle) |
| :---: | :---: |
| a | 0.0 to 10.0 |
| b | 10.1 to 15.0 |
| c | 15.1 to 25.0 |
| d | 25.1 to 35.0 |
| e | 35.1 to 50.0 |
| f | greater than 50.0 |

All capacity analyses were performed utilizing Synchro 11 software. Table III summarizes the existing levels of service (LOS) and delays. All capacity analysis calculation worksheets are contained in Appendix C.

Table III
Existing Levels of Service

| Intersection | Direction/ <br> Movement |  | PM PSH | SAT PSH |
| :---: | :---: | :---: | :---: | :---: |
| Crine Road (CR 4)/Vanderburg Road and <br> Boundary Road | EB | L | $\mathrm{a}(8)$ | $\mathrm{a}(7)$ |
|  | WB | L | $\mathrm{a}(8)$ | $\mathrm{a}(7)$ |
|  | NB | LTR | $\mathrm{b}(14)$ | $\mathrm{b}(11)$ |
|  | SB | LTR | $\mathrm{b}(15)$ | $\mathrm{b}(11)$ |

a (\#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)
The following are discussions pertaining to each of the existing intersections analyzed. It should be noted that the existing percentage of trucks and peak hour factors were used in the existing analysis.

## Crine Road (CR 4)/Vanderburg Road and Boundary Road

Crine Road (CR 4)/Vanderburg Road intersects Boundary Road to form a four-leg intersection operating with the northbound and southbound approaches of Boundary Road under stop control. The eastbound and westbound approaches of Crine Road (CR 4)/Vanderburg Road both provide a shared left turn/through/right turn lane. The northbound and southbound approaches of Boundary Road both provide a shared left turn/through/right turn lane.

A review of the existing analysis reveals that all movements operate at levels of service " B " or better during the analyzed peak periods. See Table III for the individual movement levels of service and delays.

## FUTURE CONDITIONS

Traffic volumes and operational analyses were developed for both the 2023 No Build and Build conditions. The No Build conditions provide a baseline for assessing the impact of the site development traffic on the roadway system. The process of developing the No Build and Build traffic volumes and the subsequent analyses is outlined below.

Regardless of whether the subject site is developed or not, traffic volumes on the surrounding roadways are expected to increase as a result of developments throughout the region. A growth rate for roadways within the study area was obtained from the NJDOT Annual Background Growth Rate Table, which indicates a growth rate of $2.5 \%$ per year.

Through consultation with the Marlboro Township Planning Board staff, there is one development in the vicinity of the site that has been approved but not yet constructed that is identified as a potential significant traffic generator, shown below. The Adjacent Development Traffic Volumes passing the site are shown on Figure 3. It was assumed that the background growth rate was adequate to account for the traffic associated with all developments not listed hereafter.

- A development consisting of 85 townhome units, 20 apartment units, a 4,000 SF drive-in bank, and $8,110 \mathrm{SF}$ of retail space known as Marlboro Green, located in the southeast corner of the intersection of NJ Route 79 and Stevenson Drive, has been approved. Projections of the associated traffic volumes were obtained from Figure 12 contained within the Appendix A of the Traffic Impact Study, prepared by Langan Engineering and Environmental Services, Inc and dated April 30, 2020.

Future 2023 No Build traffic volumes were developed by applying the background growth rate of 2.5\% for two (2) years to the study area roadways existing traffic volumes and adding the adjacent development traffic volumes. Figure 4, in Appendix A, shows the 2023 No Build traffic volumes.

## Traffic Generation

Trip generation projections for The Project were prepared utilizing trip generation research data as published under Land Use Code 151 - Mini-Warehouse in the Institute of Transportation Engineers' (ITE) publication, Trip Generation, $10^{\text {dh }}$ Edition. This publication sets forth trip generation rates based on traffic counts conducted at research sites throughout the country.

Table IV
Trip Generation

| Trip Type | PM PSH |  |  | SAT PSH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total |
| 89,700 SF Self-Storage Facility | 7 | 8 | 15 | 17 | 11 | 28 |

Once the magnitude of traffic to be generated by the site is known, it is necessary to assign that traffic to the adjacent street system. The distribution of new traffic to the surrounding roadways is based on the location of primary arterial roadways, major signalized intersections and existing traffic patterns. Located in Appendix A, Figures 5 and 6 illustrate the Trip Distribution and the Site Generated

Volumes, respectively. The Site Generated Volumes assigned to the study area network were added to the No Build traffic volumes to generate the Build traffic volumes, which are shown in Figure 7.

## Future Capacity Analysis

Operational conditions at the study intersections were analyzed under the No Build and Build conditions and are summarized in Table V below.

Table V
Future Levels of Service

| Intersection | Direction/ <br> Movement |  | PM PSH |  | SAT PSH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No Build | Build | No Build | Build |
| Crine Road (CR 4) / Vanderburg Road and Boundary Road | EB | L | a (8) | a (8) | a (7) | a (7) |
|  | WB | L | a (8) | a (8) | a (7) | a (8) |
|  | NB | LTR | b (15) | b (15) | b (12) | b (12) |
|  | SB | LTR | c (16) | c (16) | b (11) | b (12) |
| Vanderburg Road and Site Driveway | WB | L | - | a (8) | - | a (8) |
|  | NB | LR | - | b (11) | - | a (10) |

a (\#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)

## Crine Road (CR 4)/Vanderburg Road and Boundary Road

With the addition of site generated each movement is anticipated to operate at No Build levels of service "C" or better. See Table V for the individual movement levels of service and delays.

## Vanderburg Road and Site Driveway

The site driveway is proposed to intersect Vanderburg Road to form an unsignalized T-intersection with the northbound approach of the site driveway operating under stop control. The eastbound approach of Vanderburg Road is proposed to provide a shared through/right turn lane, while the westbound approach is proposed to provide a shared left turn/through lane. The northbound approach of the site driveway is proposed to provide a shared left/right turn lane.

As designed, the driveway is anticipated to operate at levels of service " B " or better during the studied peak hours. See Table V for the individual movement levels of service and delays.

## SITE PLAN

## Site Access and Circulation

The site plan was reviewed with respect to the site access and on-site circulation design. As noted previously, access to The Project will be provided via a new full movement driveway along Vanderburg Road.

The parking lot will be serviced by parking aisles with minimum widths of $30^{\prime}$ for two-way circulation, which satisfies the Ordinance's minimum requirement of $25^{\prime}$. Review of the site plan design indicates that the site can sufficiently accommodate, within paved areas, a large wheel base vehicle, such as a fire truck or recreational vehicle, along with the automobile traffic anticipated.

## Parking

The Marlboro Township Ordinance sets forth a parking requirement of 1 parking space per 5,000 SF for warehouse, storage, distribution, shipping and receiving facilities. This equates to a parking requirement of 18 spaces for the proposed $89,700 \mathrm{SF}$ self-storage facility. The site as proposed provides 67 parking spaces, and as such the Ordinance requirement is satisfied.

It is proposed to provide parking stalls with dimensions of 10 'x20, $12^{\prime} \times 20^{\prime}$ and $12^{\prime} \times 30^{\prime}$, which satisfy the Ordinance minimum requirement of 10 ' $\times 20^{\prime}$.

## FINDINGS AND CONCLUSIONS

## Findings

Based upon the detailed analyses as documented herein, the following findings are noted:

- The proposed 89,700 SF Self-Storage Facility, is projected to generate 5 entering trips and 4 exiting trips during the weekday morning peak hour, 7 entering trips and 8 exiting trips during the evening peak hour, and 17 entering trips and 11 exiting trips during the Saturday peak hour that are "new" to the adjacent roadway network.
- Access to the site is proposed to be provided via a new full movement driveway along Vanderburg Road.
- With the addition of site generated traffic, the intersection of Crine Road (CR 4)/Vanderburg Road and Boundary Road is anticipated to operate at No Build levels of service "B" or better during the peak hours studied.
- As designed, the intersection of Vanderburg Road and site driveway is anticipated to operate at levels of service " B " or better during the peak hours studied.
- As proposed, The Project's site driveways and internal circulation have been designed to provide for safe and efficient movement of automobiles and large wheel base vehicles.
- The proposed parking supply and design is sufficient to support the projected demand and satisfies the Ordinance requirements.


## Conclusions

Based upon our Traffic Impact Study as detailed in the body of this report, it is the professional opinion of Dynamic Traffic LLC that the adjacent street system of Marlboro Township, Colts Neck Township and Monmouth County will not experience any significant degradation in operating conditions with the construction of The Project. The site driveway is located to provide safe and efficient access to the adjacent roadway system. The site plan as proposed provides for good circulation throughout the site and provides adequate parking to accommodate The Project's needs.

> Appendix A
> Traffic Volume Figures



3724-99-001T

| $\longleftarrow 3$ <br> (3) |  |  $\smile 3$ <br> (3) |
| :---: | :---: | :---: |
| Site <br> LEGEND | (3) $2 \rightarrow$ | Crine Rd |
| Proposed Self-Storage <br> Traffic Impact Study <br> 3724-99-001T <br> 6/21/2021 | Adjacent Devel | Figure 3 ment Traffic Volumes [Marlboro Green] |


| $\begin{equation*} \leftharpoondown 135 \tag{132} \end{equation*}$ |  |  |
| :---: | :---: | :---: |
|  <br> LEGEND | (24) $47 \boldsymbol{\rightarrow}$ <br> (89) $120 \longrightarrow$ <br> (21) 72 乙 <br> 2 0 0 0 0 0 0 0 | Crine Rd $\begin{aligned} & 11 r \\ & 7 \% \\ & \text { 엉 } \mathbb{O} \end{aligned}$ |
| Proposed Self-Storage <br> Traffic Impact Study 3724-99-001T <br> 6/21/2021 |  | Figure 4 <br> Build Traffic Volumes |


| Vanderburg Rd - $40 \% \quad(0 \%)$ | $\stackrel{\circ}{8}$ in |  $\smile 30 \% \quad(0 \%)$ |
| :---: | :---: | :---: |
| LEGEND $\qquad$ Existing Roadway <br> Proposed Roadway IN (OUT) | $(5 \%)$ $0 \% \boldsymbol{\square}$ <br> $(30 \%)$ $0 \%$ <br> $(5 \%)$ $0 \%$ | Crine Rd <br> 7 in è |
| Proposed Self-Storage <br> Traffic Impact Study 3724-99-001T <br> 6/21/2021 |  | Figure 5 <br> Percent Distribution |


|  | $\Theta$ <br> j |  $\leftarrow^{3}$ <br> (5) |
| :---: | :---: | :---: |
| (10) $\qquad$ <br> Site <br> LEGEND $\qquad$ | (1) $0 \boldsymbol{\sim}$ <br> (3) $3 \longrightarrow$ <br> (1) $0 \longrightarrow$ <br> py Kırpunog | Crine Rd <br> ? <br> $\Theta$ |
| Proposed Self-Storage <br> Traffic Impact Study $3724-99-001 \mathrm{~T}$ <br> 6/21/2021 |  | Figure 6 <br> Site Generated Trips |


|  135 $(132)$ <br> Vanderburg Rd $\leftharpoondown 3$ $(7)$ |  |  |
| :---: | :---: | :---: |
|  <br> LEGEND | （25） $47 \boldsymbol{\rightarrow}$ <br> （92） $123 \longrightarrow$ <br> （22） 72 乙 |  |
| Proposed Self－Storage <br> Traffic Impact Study $\begin{aligned} & 3724-99-001 \mathrm{~T} \\ & 6 / 21 / 2021 \\ & \hline \end{aligned}$ |  | Figure 7 <br> Build Traffic Volumes |

> Appendix B Project Information

# D ynamic Traffic, LLC <br> 1904 M ain Street, Lake Como, NJ 07719 <br> 245 M ain Street-Suite 110, Chester, NJ 07930 <br> <br> 732-681-0760 

 <br> <br> 732-681-0760}

E/W: Vanderburg Rd/Crine Rd N/S: Boundary Rd
Town/County: Marlboro/Monmouth Job \#: 3724-99-001T

File Name : Vanderburg Rd-Crine Rd \& Boundary Rd - PM
Site Code : 00000000
Start Date : 6/10/2021
Page No : 1

| Groups Printed- Cars - Trucks (SU) - Trucks (TT) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vanderburg Road Eastbound |  |  |  |  | Crine Road Westbound |  |  |  |  | Boundary Road Northbound |  |  |  |  | Boundary Road Southbound |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total |  |
| 04:30 PM | 12 | 30 | 21 | 0 | 63 | 2 | 15 | 4 | 0 | 21 | 6 | 9 | 5 | 0 | 20 | 2 | 21 | 5 | 0 | 28 | 132 |
| 04:45 PM | 11 | 17 | 14 | 0 | 42 | 2 | 18 | 4 | 0 | 24 | 13 | 12 | 3 | 0 | 28 | 1 | 24 | 6 | 0 | 31 | 125 |
| Total | 23 | 47 | 35 | 0 | 105 | 4 | 33 | 8 | 0 | 45 | 19 | 21 | 8 | 0 | 48 | 3 | 45 | 11 | 0 | 59 | 257 |
| 05:00 PM | 12 | 43 | 22 | 0 | 77 | 7 | 19 | 4 | 0 | 30 | 8 | 11 | 2 | 0 | 21 | 2 | 20 | 2 | 0 | 24 | 152 |
| 05:15 PM | 10 | 22 | 12 | 0 | 44 | 4 | 14 | 2 | 0 | 20 | 12 | 25 | 6 | 0 | 43 | 3 | 12 | 8 | 0 | 23 | 130 |
| 05:30 PM | 10 | 29 | 16 | 0 | 55 | 2 | 16 | 3 | 0 | 21 | 11 | 14 | 3 | 0 | 28 | 4 | 16 | 0 | 0 | 20 | 124 |
| 05:45 PM | 7 | 21 | 12 | 0 | 40 | 4 | 12 | 5 | 0 | 21 | 20 | 11 | 0 | 0 | 31 | 3 | 14 | 4 | 0 | 21 | 113 |
| Total | 39 | 115 | 62 | 0 | 216 | 17 | 61 | 14 | 0 | 92 | 51 | 61 | 11 | 0 | 123 | 12 | 62 | 14 | 0 | 88 | 519 |
| 06:00 PM | 5 | 18 | 11 | 0 | 34 | 3 | 13 | 1 | 0 | 17 | 9 | 10 | 3 | 0 | 22 | 4 | 10 | 10 | 0 | 24 | 97 |
| 06:15 PM | 8 | 20 | 7 | 0 | 35 | 3 | 18 | 2 | 0 | 23 | 9 | 11 | 4 | 0 | 24 | 3 | 14 | 10 | 0 | 27 | 109 |
| Grand Total | 75 | 200 | 115 | 0 | 390 | 27 | 125 | 25 | 0 | 177 | 88 | 103 | 26 | 0 | 217 | 22 | 131 | 45 | 0 | 198 | 982 |
| Apprch \% | 19.2 | 51.3 | 29.5 | 0 |  | 15.3 | 70.6 | 14.1 | 0 |  | 40.6 | 47.5 | 12 | 0 |  | 11.1 | 66.2 | 22.7 | 0 |  |  |
| Total \% | 7.6 | 20.4 | 11.7 | 0 | 39.7 | 2.7 | 12.7 | 2.5 | 0 | 18 | 9 | 10.5 | 2.6 | 0 | 22.1 | 2.2 | 13.3 | 4.6 | 0 | 20.2 |  |
| Cars | 74 | 198 | 111 | 0 | 383 | 27 | 124 | 25 | 0 | 176 | 84 | 103 | 26 | 0 | 213 | 21 | 129 | 45 | 0 | 195 | 967 |
| \% Cars | 98.7 | 99 | 96.5 | 0 | 98.2 | 100 | 99.2 | 100 | 0 | 99.4 | 95.5 | 100 | 100 | 0 | 98.2 | 95.5 | 98.5 | 100 | 0 | 98.5 | 98.5 |
| Trucks (SU) | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 3 | 8 |
| \% Trucks (SU) | 1.3 | 0.5 | 0.9 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0 | 2.3 | 0 | 0 | 0 | 0.9 | 4.5 | 1.5 | 0 | 0 | 1.5 | 0.8 |
| Trucks (TT) | 0 | 1 | 3 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| \% Trucks (TT) | 0 | 0.5 | 2.6 | 0 | 1 | 0 | 0.8 | 0 | 0 | 0.6 | 2.3 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 0.7 |


|  | Vanderburg Road Eastbound |  |  |  |  | Crine Road Westbound |  |  |  |  | Boundary Road Northbound |  |  |  |  | Boundary Road Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:30 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM | 12 | 30 | 21 | 0 | 63 | 2 | 15 | 4 | 0 | 21 | 6 | 9 | 5 | 0 | 20 | 2 | 21 | 5 | 0 | 28 | 132 |
| 04:45 PM | 11 | 17 | 14 | 0 | 42 | 2 | 18 | 4 | 0 | 24 | 13 | 12 | 3 | 0 | 28 | 1 | 24 | 6 | 0 | 31 | 125 |
| 05:00 PM | 12 | 43 | 22 | 0 | 77 | 7 | 19 | 4 | 0 | 30 | 8 | 11 | 2 | 0 | 21 | 2 | 20 | 2 | 0 | 24 | 152 |
| 05:15 PM | 10 | 22 | 12 | 0 | 44 | 4 | 14 | 2 | 0 | 20 | 12 | 25 | 6 | 0 | 43 | 3 | 12 | 8 | 0 | 23 | 130 |
| Total Volume | 45 | 112 | 69 | 0 | 226 | 15 | 66 | 14 | 0 | 95 | 39 | 57 | 16 | 0 | 112 | 8 | 77 | 21 | 0 | 106 | 539 |
| \% App. Total | 19.9 | 49.6 | 30.5 | 0 |  | 15.8 | 69.5 | 14.7 | 0 |  | 34.8 | 50.9 | 14.3 | 0 |  | 7.5 | 72.6 | 19.8 | 0 |  |  |
| PHF | . 938 | . 651 | . 784 | . 000 | . 734 | . 536 | . 868 | . 875 | . 000 | . 792 | . 750 | . 570 | . 667 | . 000 | . 651 | . 667 | . 802 | . 656 | . 000 | . 855 | . 887 |
| Cars | 45 | 112 | 66 | 0 | 223 | 15 | 65 | 14 | 0 | 94 | 36 | 57 | 16 | 0 | 109 | 7 | 77 | 21 | 0 | 105 | 531 |
| \% Cars | 100 | 100 | 95.7 | 0 | 98.7 | 100 | 98.5 | 100 | 0 | 98.9 | 92.3 | 100 | 100 | 0 | 97.3 | 87.5 | 100 | 100 | 0 | 99.1 | 98.5 |
| Trucks (SU) | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| \% Trucks (SU) | 0 | 0 | 1.4 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 2.6 | 0 | 0 | 0 | 0.9 | 12.5 | 0 | 0 | 0 | 0.9 | 0.6 |
| Trucks (TT) | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| \% Trucks (TT) | 0 | 0 | 2.9 | 0 | 0.9 | 0 | 1.5 | 0 | 0 | 1.1 | 5.1 | 0 | 0 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0.9 |

# D ynamic Traffic, LLC <br> 1904 M ain Street, Lake Como, NJ 07719 <br> 245 M ain Street- Suite 110, Chester, NJ 07930 <br> <br> 732-681-0760 

 <br> <br> 732-681-0760}

E/W: Vanderburg Rd/Crine Rd N/S: Boundary Rd
Town/County: Marlboro/Monmouth
Job \#: 3724-99-001T

File Name : Vanderburg Rd-Crine Rd \& Boundary Rd - SAT Site Code : 00000000
Start Date: 6/12/2021
Page No : 1


|  | Vanderburg Road Eastbound |  |  |  |  | Crine Road Westbound |  |  |  |  | Boundary Road Northbound |  |  |  |  | Boundary Road Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | ap. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | Apo. | Left | Thru | Right | Peds | Apo. To | lnt. $T$ |
| Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 12:45 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12:45 PM | 5 | 17 | 2 | 0 | 24 | 4 | 13 | 1 | 0 | 18 | 9 | 7 | 2 | 0 | 18 | 2 | 9 | 6 | 0 | 17 | 77 |
| 01:00 PM | 6 | 21 | 10 | 0 | 37 | 1 | 11 | 5 | 0 | 17 | 5 | 10 | 2 | 0 | 17 | 4 | 10 | 7 | 0 | 21 | 92 |
| 01:15 PM | 6 | 21 | 3 | 0 | 30 | 1 | 17 | 2 | 0 | 20 | 8 | 7 | 4 | 0 | 19 | 5 | 8 | 8 | 0 | 21 | 90 |
| 01:30 PM | 4 | 16 | 3 | 0 | 23 | 3 | 8 | 3 | 0 | 14 | 13 | 8 | 2 | 0 | 23 | 5 | 13 | 7 | 0 | 25 | 85 |
| Total Volume | 21 | 75 | 18 | 0 | 114 | 9 | 49 | 11 | 0 | 69 | 35 | 32 | 10 | 0 | 77 | 16 | 40 | 28 | 0 | 84 | 344 |
| \% App. Total | 18.4 | 65.8 | 15.8 | 0 |  | 13 | 71 | 15.9 | 0 |  | 45.5 | 41.6 | 13 | 0 |  | 19 | 47.6 | 33.3 | 0 |  |  |
| PHF | . 875 | . 893 | . 450 | . 000 | 770 | . 563 | . 721 | . 550 | . 000 | . 863 | . 673 | . 800 | . 625 | . 000 | . 837 | . 800 | . 769 | . 875 | . 000 | 840 | . 935 |
| Cars | 21 | 75 | 18 | 0 | 114 | 9 | 48 | 11 | 0 | 68 | 34 | 31 | 10 | 0 | 75 | 16 | 40 | 28 | 0 | 84 | 341 |
| \% Cars | 100 | 100 | 100 | 0 | 100 | 100 | 98.0 | 100 | 0 | 98.6 | 97.1 | 96.9 | 100 | 0 | 97.4 | 100 | 100 | 100 | 0 | 100 | 99.1 |
| Trucks (SU) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| \% Trucks (SU) | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 1.4 | 2.9 | 3.1 | 0 | 0 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0.9 |
| Trucks (TT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\%$ Trucks (TT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# D ynamic Traffic, LLC <br> 1904 M ain Street, Lake Como, NJ 07719 <br> 245 M ain Street - Suite 110, Chester, NJ 07930 <br> 732-681-0760 

E/W: Amboy Rd
$\mathrm{N} / \mathrm{S}$ : Tennent Rd
Town/County: Marlboro/Monmuoth
Job \#: 3342-99-003T

File Name : Tennent Rd \& Amboy Rd - AMPM
Site Code : 00000000
Start Date : 4/20/2021
Page No : 1

|  | Amboy Road Eastbound |  |  |  |  | Tennent Road Northbound |  |  |  |  | Tennent Road Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 07:00 AM | 3 | 0 | 17 | 0 | 20 | 19 | 64 | 0 | 0 | 83 | 0 | 63 | 1 | 0 | 64 | 167 |
| 07:15 AM | 4 | 0 | 15 | 1 | 20 | 24 | 89 | 0 | 0 | 113 | 0 | 87 | 3 | 0 | 90 | 223 |
| 07:30 AM | 3 | 0 | 21 | 0 | 24 | 18 | 88 | 0 | 0 | 106 | 0 | 103 | 2 | 0 | 105 | 235 |
| 07:45 AM | 2 | 0 | 21 | 0 | 23 | 25 | 76 | 0 | 0 | 101 | 0 | 109 | 4 | 0 | 113 | 237 |
| Total | 12 | 0 | 74 | 1 | 87 | 86 | 317 | 0 | 0 | 403 | 0 | 362 | 10 | 0 | 372 | 862 |
| 08:00 AM | 6 | 0 | 39 | 0 | 45 | 24 | 94 | 0 | 0 | 118 | 0 | 101 | 6 | 0 | 107 | 270 |
| 08:15 AM | 3 | 0 | 43 | 0 | 46 | 38 | 108 | 0 | 0 | 146 | 0 | 122 | 4 | 0 | 126 | 318 |
| 08:30 AM | 6 | 0 | 42 | 0 | 48 | 53 | 111 | 0 | 0 | 164 | 0 | 95 | 6 | 0 | 101 | 313 |
| 08:45 AM | 9 | 0 | 51 | 0 | 60 | 34 | 101 | 0 | 0 | 135 | 0 | 111 | 14 | 0 | 125 | 320 |
| Total | 24 | 0 | 175 | 0 | 199 | 149 | 414 | 0 | 0 | 563 | 0 | 429 | 30 | 0 | 459 | 1221 |

*** BREAK ***

| 04:30 PM | 10 | 0 | 33 | 0 | 43 | 31 | 119 | 0 | 0 | 150 | 0 | 118 | 4 | 0 | 122 | 315 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:45 PM | 7 | 0 | 37 | 0 | 44 | 51 | 122 | 0 | 0 | 173 | 0 | 122 | 14 | 0 | 136 | 353 |
| Total | 17 | 0 | 70 | 0 | 87 | 82 | 241 | 0 | 0 | 323 | 0 | 240 | 18 | 0 | 258 | 668 |
| 05:00 PM | 7 | 0 | 50 | 0 | 57 | 42 | 136 | 0 | 0 | 178 | 0 | 119 | 3 | 0 | 122 | 357 |
| 05:15 PM | 11 | 0 | 47 | 0 | 58 | 49 | 168 | 0 | 0 | 217 | 0 | 126 | 12 | 0 | 138 | 413 |
| 05:30 PM | 11 | 0 | 49 | 0 | 60 | 50 | 161 | 0 | 0 | 211 | 0 | 126 | 15 | 0 | 141 | 412 |
| 05:45 PM | 13 | 0 | 32 | 0 | 45 | 45 | 157 | 0 | 0 | 202 | 0 | 91 | 16 | 0 | 107 | 354 |
| Total | 42 | 0 | 178 | 0 | 220 | 186 | 622 | 0 | 0 | 808 | 0 | 462 | 46 | 0 | 508 | 1536 |
| 06:00 PM | 3 | 0 | 55 | 0 | 58 | 33 | 144 | 0 | 0 | 177 | 0 | 134 | 8 | 0 | 142 | 377 |
| 06:15 PM | 3 | 0 | 54 | 0 | 57 | 18 | 75 | 0 | 0 | 93 | 0 | 104 | 6 | 0 | 110 | 260 |
| Grand Total | 101 | 0 | 606 | 1 | 708 | 554 | 1813 | 0 | 0 | 2367 | 0 | 1731 | 118 | 0 | 1849 | 4924 |
| Apprch \% | 14.3 | 0 | 85.6 | 0.1 |  | 23.4 | 76.6 | 0 | 0 |  | 0 | 93.6 | 6.4 | 0 |  |  |
| Total \% | 2.1 | 0 | 12.3 | 0 | 14.4 | 11.3 | 36.8 | 0 | 0 | 48.1 | 0 | 35.2 | 2.4 | 0 | 37.6 |  |
| Cars | 94 | 0 | 573 | 1 | 668 | 499 | 1759 | 0 | 0 | 2258 | 0 | 1674 | 112 | 0 | 1786 | 4712 |
| \% Cars | 93.1 | 0 | 94.6 | 100 | 94.4 | 90.1 | 97 | 0 | 0 | 95.4 | 0 | 96.7 | 94.9 | 0 | 96.6 | 95.7 |
| Trucks (SU) | 7 | 0 | 32 | 0 | 39 | 52 | 48 | 0 | 0 | 100 | 0 | 54 | 6 | 0 | 60 | 199 |
| \% Trucks (SU) | 6.9 | 0 | 5.3 | 0 | 5.5 | 9.4 | 2.6 | 0 | 0 | 4.2 | 0 | 3.1 | 5.1 | 0 | 3.2 | 4 |
| Trucks (TT) | 0 | 0 | 1 | 0 | 1 | 3 | 6 | 0 | 0 | 9 | 0 | 3 | 0 | 0 | 3 | 13 |
| \% Trucks (TT) | 0 | 0 | 0.2 | 0 | 0.1 | 0.5 | 0.3 | 0 | 0 | 0.4 | 0 | 0.2 | 0 | 0 | 0.2 | 0.3 |

# D ynamic Traffic, LLC <br> 1904 M ain Street, Lake Como, NJ 07719 <br> 245 M ain Street - Suite 110, Chester, NJ 07930 <br> 732-681-0760 

E/W: Amboy Rd
N/S: Tennent Rd
Town/County: Marlboro/Monmuoth
Job \#: 3342-99-003T

File Name : Tennent Rd \& Amboy Rd - AMPM
Site Code : 00000000
Start Date : 4/20/2021
Page No : 2

|  | Amboy Road Eastbound |  |  |  |  | Tennent Road Northbound |  |  |  |  | Tennent Road Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 6 | 0 | 39 | 0 | 45 | 24 | 94 | 0 | 0 | 118 | 0 | 101 | 6 | 0 | 107 | 270 |
| 08:15 AM | 3 | 0 | 43 | 0 | 46 | 38 | 108 | 0 | 0 | 146 | 0 | 122 | 4 | 0 | 126 | 318 |
| 08:30 AM | 6 | 0 | 42 | 0 | 48 | 53 | 111 | 0 | 0 | 164 | 0 | 95 | 6 | 0 | 101 | 313 |
| 08:45 AM | 9 | 0 | 51 | 0 | 60 | 34 | 101 | 0 | 0 | 135 | 0 | 111 | 14 | 0 | 125 | 320 |
| Total Volume | 24 | 0 | 175 | 0 | 199 | 149 | 414 | 0 | 0 | 563 | 0 | 429 | 30 | 0 | 459 | 1221 |
| \% App. Total | 12.1 | 0 | 87.9 | 0 |  | 26.5 | 73.5 | 0 | 0 |  | 0 | 93.5 | 6.5 | 0 |  |  |
| PHF | . 667 | . 000 | . 858 | . 000 | . 829 | . 703 | . 932 | . 000 | . 000 | . 858 | . 000 | . 879 | . 536 | . 000 | . 911 | . 954 |
| Cars | 21 | 0 | 153 | 0 | 174 | 117 | 397 | 0 | 0 | 514 | 0 | 407 | 27 | 0 | 434 | 1122 |
| \% Cars | 87.5 | 0 | 87.4 | 0 | 87.4 | 78.5 | 95.9 | 0 | 0 | 91.3 | 0 | 94.9 | 90.0 | 0 | 94.6 | 91.9 |
| Trucks (SU) | 3 | 0 | 21 | 0 | 24 | 32 | 17 | 0 | 0 | 49 | 0 | 22 | 3 | 0 | 25 | 98 |
| \% Trucks (SU) | 12.5 | 0 | 12.0 | 0 | 12.1 | 21.5 | 4.1 | 0 | 0 | 8.7 | 0 | 5.1 | 10.0 | 0 | 5.4 | 8.0 |
| Trucks (TT) | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| \% Trucks (TT) | 0 | 0 | 0.6 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |

Peak Hour Analysis From 12:00 PM to 06:15 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 05:15 PM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 11 | 0 | 47 | 0 | 58 | 49 | 168 | 0 | 0 | 217 | 0 | 126 | 12 | 0 | 138 | 413 |
| 05:30 PM | 11 | 0 | 49 | 0 | 60 | 50 | 161 | 0 | 0 | 211 | 0 | 126 | 15 | 0 | 141 | 412 |
| 05:45 PM | 13 | 0 | 32 | 0 | 45 | 45 | 157 | 0 | 0 | 202 | 0 | 91 | 16 | 0 | 107 | 354 |
| 06:00 PM | 3 | 0 | 55 | 0 | 58 | 33 | 144 | 0 | 0 | 177 | 0 | 134 | 8 | 0 | 142 | 377 |
| Total Volume | 38 | 0 | 183 | 0 | 221 | 177 | 630 | 0 | 0 | 807 | 0 | 477 | 51 | 0 | 528 | 1556 |
| \% App. Total | 17.2 | 0 | 82.8 | 0 |  | 21.9 | 78.1 | 0 | 0 |  | 0 | 90.3 | 9.7 | 0 |  |  |
| PHF | . 731 | . 000 | . 832 | 000 | . 921 | . 885 | . 938 | . 000 | . 000 | . 930 | . 000 | . 890 | . 797 | . 000 | . 930 | . 942 |
| Cars | 37 | 0 | 182 | 0 | 219 | 174 | 626 | 0 | 0 | 800 | 0 | 474 | 49 | 0 | 523 | 1542 |
| \% Cars | 97.4 | 0 | 99.5 | 0 | 99.1 | 98.3 | 99.4 | 0 | 0 | 99.1 | 0 | 99.4 | 96.1 | 0 | 99.1 | 99.1 |
| Trucks (SU) | 1 | 0 | 1 | 0 | 2 | 2 | 2 | 0 | 0 | 4 | 0 | 3 | 2 | 0 | 5 | 11 |
| \% Trucks (SU) | 2.6 | 0 | 0.5 | 0 | 0.9 | 1.1 | 0.3 | 0 | 0 | 0.5 | 0 | 0.6 | 3.9 | 0 | 0.9 | 0.7 |
| Trucks (TT) | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| \% Trucks (TT) | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.3 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.2 |

## New Jersey Department of Transportation

Short-term Hourly Traffic Volume for 06/25/2018 to 06/28/2018
$\begin{array}{ll}\text { Site names: } & \text { 121304,Tennent Road-6.79,13000003_ } \\ \text { County: } & \text { MONMOUTH } \\ \text { Funct Class: } & \text { Urban Minor Arterial } \\ \text { Location: } & \text { BET AMBOY RD CRINE RD }\end{array}$

rg3_4U
rg3_4
g3_4U
Seasonal Factor Grp.
Daily Factor Grp:
Axle Factor Grp:
Growh Factor Grp
' $Z$ Uñ 'pəM
 2.000

SRI = 130000041_ Date last inventoried: July 2011


## Appendix C <br> Capacity Analysis

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 6.7 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\ddagger$ |  |  | * |  |  | $\ddagger$ |  |  | $\ddagger$ |  |
| Traffic Vol, veh/h | 45 | 112 | 69 | 15 | 66 | 14 | 39 | 57 | 16 | 8 | 77 | 21 |
| Future Vol, veh/h | 45 | 112 | 69 | 15 | 66 | 14 | 39 | 57 | 16 | 8 | 77 | 21 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | -2 | - | - | 4 | - | - | -2 | - | - | 6 | - |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, \% | 0 | 0 | 3 | 0 | 2 | 0 | 8 | 0 | 0 | 13 | 0 | 0 |
| Mvmt Flow | 51 | 126 | 78 | 17 | 74 | 16 | 44 | 64 | 18 | 9 | 87 | 24 |













| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  |  | -1 | Y |  |
| Traffic Vol, veh/h | 239 | 4 | 3 | 135 | 5 | 3 |
| Future Vol, veh/h | 239 | 4 | 3 | 135 | 5 | 3 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 2 | - | - | -2 | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 0 | 2 | 2 | 4 | 2 | 2 |
| Mvmt Flow | 288 | 5 | 4 | 163 | 6 | 4 |





