

## INTRODUCTION

It is proposed to construct a residential development on a parcel of land currently undeveloped located in the northwest quadrant of the intersection of Texas Road and Wooleytown Road/Falson Lane in the Township of Marlboro, Monmouth County, New Jersey, see Figure 1 in Appendix A. The site is designated as Block 146 - Lots 25 and 26 on the Township of Marlboro Tax Maps. It is proposed to construct sixteen (16) 3-story residential buildings totaling 387 dwelling units (The Project). Access to the site is proposed via two (2) full movement driveways along Texas Road and one (1) full movement driveway along Falson Lane. Parking will be provided via eight hundred nine (809) onsite parking spaces.

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 morning and evening peak periods at the intersection of Texas Road with Wooleytown Road/Falson Lane.
- 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 points of ingress and egress were 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 the anticipated automobile traffic.
- The parking layout and supply was assessed based on accepted design standards 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 analyses.

## Existing Roadway Conditions

The following are descriptions of the roadways in the study area:
Texas Road is an Urban Minor Collector roadway under the jurisdiction of the Township of Marlboro. In the vicinity of the site the posted speed limit is 45 MPH and the roadway provides one travel lane in each direction. It should be noted that Texas Road is designated as a north/south roadway; however, it was assumed to have an east/west orientation for the purposes of this report. On-street parking is not permitted along either side of the roadway. Curb and sidewalk is provided along the north side of the roadway to the east of Wooleytown Road/Falson Lane while neither curb nor sidewalk is provided along either side of the roadway to the west of Wooleytown Road/Falson Lane. Texas Road provides a straight horizontal alignment and a rolling vertical alignment. The land uses along Texas Road in the vicinity of The Project are a mix of residential, commercial and undeveloped land.

Wooleytown Road is a local roadway under the jurisdiction of the Township of Marlboro. In the vicinity of the site the posted speed limit is 35 MPH and the roadway provides one travel lane in each direction with a general north/south orientation. No on-street parking restrictions are posted in the vicinity of the site and neither curb nor sidewalk are provided along either side of the roadway. Wooleytown Road provides a straight horizontal alignment and a slightly uphill vertical alignment from south to north. The land uses along Wooleytown in the vicinity of The Project are primarily residential, however it should be mentioned that the Sri Guruvaayoorappan Temple is located along the west side of the roadway approximately 850 feet from Texas Road.

Falson Lane is a local roadway under the jurisdiction of the Township of Marlboro. In the vicinity of the site the posted speed limit is 25 MPH and the roadway provides one travel lane in each direction with a general north/south orientation. No on-street parking restrictions are posted in the vicinity of the site and neither curb nor sidewalk are provided along either side of the roadway. Falson Lane provides a slightly curved horizontal alignment and an uphill vertical alignment from south to north. The land uses along Falson Lane in the vicinity of The Project are primarily residential and undeveloped land.

## Existing Traffic Volumes

Manual turning movement (MTM) counts were conducted on Thursday, July 30, 2020 between 7:00 - 9:00 AM and between 4:30-6:30 PM at the intersection of Texas Road with Wooleytown Road/Falson Lane as well as between 7:45-8:45 AM and between 5:00-6:00 PM at the intersection of Texas Road with the Costco Driveway/Shopping Center Driveway to be used to normalize the counts.

It should be noted that traffic impacts 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 are atypically low at this time and would not be representative of "existing" traffic conditions. Therefore, historical traffic volume data has been reviewed and compared with current traffic conditions.

MTM counts were previously conducted by Tri-State Traffic Data in September 2017 at the intersection of Texas Road with the Costco Driveway/Shopping Center Driveway. In order to better represent 2020 traffic volumes, the 2017 MTM peak hour volumes were grown utilizing an annual growth rate contained within the NJDOT Annual Background Growth Rate Table, which indicates a growth rate of $2.5 \%$ per year, for a period of three (3) years. The MTM traffic volumes representative of "existing" conditions were then compared to the July 2020 MTM peak hour volumes. Adjustment factors of 1.38 and 1.13 were then calculated and applied to the weekday morning and weekday evening counts, respectively, to develop traffic volumes that best represent "existing" conditions at the study intersections.

Review of the collected traffic data reveals that the weekday morning peak street hour (PSH) occurs from 7:45-8:45 AM and the weekday evening PSH occurs from 4:45-5:45 PM. Figure 2, located in Appendix A, shows the existing peak hour traffic volumes at the study intersections. All MTM counts are contained in Appendix B.

## 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 I describes the Level of Service ranges for unsignalized (stop controlled) intersections.

Table I
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 |

It should be noted that the analyses within the Highway Capacity Manual assume a random arrival for all the movements. All capacity analyses were performed utilizing the Synchro software package (Synchro 11). Table II summarizes the existing Levels of Service (LOS) and delays. All capacity analysis calculation worksheets are contained in Appendix C.

Table II
Existing Levels of Service

| Intersection | Direction/ Movement |  |  | AM PSH | PM PSH |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Texas Road | EB | LTR |  |  |
|  |  | NB | LTR | ATR | B (13) |
| A (8) | C (16) |  |  |  |  |
|  | Falson Lane | SB | LTR | B (13) | B (15) |

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

## Texas Road and Wooleytown Road/Falson Lane

Wooleytown Road/Falson Lane intersects Texas Road to form an unsignalized four-leg intersection with Wooleytown Road and Falson Lane under stop control. The eastbound and westbound approaches of Texas Road each provide a shared left turn/through/right turn lane. The northbound approach of Wooleytown Road provides a shared left turn/through/right turn lane. The southbound approach of Falson Lane provides a shared left turn/through/right turn lane.

A review of the existing analysis reveals that the individual intersection movements operate at Level of Service "C" or better during the analyzed peak periods. See Table II for the individual movement Levels of Service and delays.

## FUTURE CONDITIONS

Traffic volumes and operational analyses were developed for both the Future 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 Township of Marlboro staff, there are numerous developments in the vicinity of the site that have been approved but not yet constructed/occupied that should be considered, shown below. In addition, this office is aware of another residential development currently in the preliminary planning stages, which was conservatively considered as an additional adjacent development. It was assumed that the background growth rate was adequate to account for the traffic associated with all developments not listed hereafter.

- A residential development known as Marlboro Estates, consisting of 16 single family homes and located just east of Wooleytown Road/Falson Lane, is currently under construction. Projections of the associated traffic volumes were developed using Institute of Transportation Engineers (ITE) publication Trip Generation, $10^{\text {th }}$ Edition for Land Use Code (LUC) 210 -Single-Family Detached Housing. The Adjacent Development Traffic Volumes at the study intersection from this development are shown on Figure 3.
- A residential development known as Monarch Pointe, consisting of 18 single family homes and located along the north side of Texas Road just east of Mountain Laurel Road, is currently under construction. Projections of the associated traffic volumes were developed using LUC 210 - Single-Family Detached Housing. The Adjacent Development Traffic Volumes at the study intersection from this development are also shown on Figure 3.
- A 5,085 SF Chick-Fil-A restaurant with drive-through, located along the south side of Texas Road within the Costco shopping center just east of Route 9 , is currently under construction. Projections of the associated traffic volumes were developed using LUC 934 - Fast-Food Restaurant with Drive-Through Window. The Adjacent Development Traffic Volumes at the study intersection from this development are shown on Figure 4.
- A 21,820 SF Aldi Supermarket, also located within the Costco shopping center, is currently under construction. Projections of the associated traffic volumes were developed using LUC 854 - Discount Supermarket. The Adjacent Development Traffic Volumes at the study intersection from this development are shown on Figure 5.
- A residential development consisting of 120 dwelling units, located in the northwest corner of the intersection of Texas Road and Greenwood Road, is currently in the preliminary planning stages. Projections of the associated traffic volumes were developed using LUC 220 Multifamily Housing (Low-Rise). The Adjacent Development Traffic Volumes at the study intersection from this development are shown on Figure 6.

Future No Build traffic volumes were developed by applying the background growth rate of $2.5 \%$ per year for two (2) years to the study area roadways existing traffic volumes and by adding the site generated traffic associated with the adjacent developments discussed above. Figure 7, in Appendix A of this report, shows the Total Adjacent Development Traffic Volumes at the study intersection and Figure 8 shows the Future 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 220 - Multifamily Housing (Low-Rise) in the Institute of Transportation Engineers' (ITE) publication, Trip Generation, $10^{\text {h }}$ Edition. This publication sets forth trip generation rates based on traffic counts conducted at research sites throughout the country. Table III summarizes the projected trips generated by the proposed development utilizing the ITE data.

Table III
Trip Generation

| Land Use | AM PSH |  |  | PM PSH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total |
| 387 Residential Units | 40 | 133 | 173 | 124 | 73 | 197 |

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. Figure 9, located in Appendix A, illustrates the site generated trip distribution and Figure 10 illustrates the site generated traffic volumes for the proposed residential development. The site generated volumes were added to the Future No Build traffic volumes to generate the Future Build traffic volumes, which are shown in Figure 11.

## Future Capacity Analysis

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

Traffic Impact Study
Proposed Residential Development - Marlboro

Table IV
Future Levels of Service

| Intersection |  | Direction/ Movement | AM PSH |  | PM PSH |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Build | No <br> Build | Build |  |  |
|  |  | EB | LTR | A (8) | A (8) | A (8) | A (8) |
|  | WB |  | LTR | A (8) | A (8) | A (8) | A (8) |  |
|  | Wooleytown Road | NB | LTR | B (15) | C (17) | C (21) | D (28) |
|  | Falson Lane | SB | LTR | B (14) | C (16) | C (17) | C (20) |
| Texas Road and East Site <br> Driveway | Texas Road | EB | LT | - | A (8) | - | A (8) |
| Texas Road and West Site <br> Driveway | Site Driveway | SB | LR | - | B (13) | - | B (14) |
| Falson Lane and Site <br> Driveway | Texas Road | EB | LT | - | A (8) | - | A (8) |

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

## Texas Road and Wooleytown Road/Falson Lane

With the addition of site generated traffic, the individual intersection movements are anticipated to operate at Level of Service "D" or better during the analyzed peak hours. See Table IV for the individual movement Levels of Service and delays.

## Texas Road and the East Site Driveway

The east site driveway is proposed to intersect Texas Road to form an unsignalized T-intersection with the site driveway under stop control. The eastbound and westbound approaches of Texas Road will provide a shared left turn/through lane and a shared through/right turn lane, respectively. The southbound approach of the site driveway will provide a shared lane for left and right turns.

As designed, the individual intersection movements are anticipated to operate at Level of Service " $B$ " or better during the studied peak hours. See Table IV for the individual movement Levels of Service and delays.

## Texas Road and the West Site Driveway

The west site driveway is proposed to intersect Texas Road to form an unsignalized T-intersection with the site driveway under stop control. The eastbound and westbound approaches of Texas Road will provide a shared left turn/through lane and a shared through/right turn lane, respectively. The southbound approach of the site driveway will provide a shared lane for left and right turns.

As designed, the individual intersection movements are anticipated to operate at Level of Service " B " or better during the studied peak hours. See Table IV for the individual movement Levels of Service and delays.

## Falson Lane and the Site Driveway

The site driveway is proposed to intersect Falson Lane to form an unsignalized T-intersection with the site driveway under stop control. The northbound and southbound approaches of Falson Lane will provide a shared left turn/through lane and a shared through/right turn lane, respectively. The eastbound approach of the site driveway will provide a shared lane for left and right turns.

As designed, the individual intersection movements are anticipated to operate at Level of Service "A" during the studied peak hours. See Table IV 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 two (2) full movement driveways along Texas Road and one (1) full movement driveway along Falson Lane.

The newly constructed parking areas will be serviced by parking aisles with widths of $26^{\prime}$ and $28^{\prime}$, which are consistent with accepted engineering design standards and exceed the Residential Site Improvement Standards (RSIS) requirement of $24^{\prime}$. These aisles will provide for two-way circulation and 90 -degree parking. Review of the site plan design indicates that the site can sufficiently accommodate the automobile traffic anticipated as well as refuse and emergency vehicles.

## Parking

Since the proposed development is exclusively residential, the RSIS requirements govern and were referenced. RSIS sets forth a parking requirement of 1.8 parking spaces per one-bedroom unit, 2 parking spaces per two-bedroom unit and 2.1 parking spaces per three-bedroom unit for low-rise developments. This equates to a parking requirement of 758 spaces for the proposed 99 one-bedroom units, 250 two-bedroom units and 38 three-bedroom units. The site as proposed provides 809 parking spaces and as such the RSIS requirement is exceeded.

It is proposed to provide parking stalls with dimensions of $9^{\prime} \times 18^{\prime}$, which are consistent with accepted engineering design standards and meet the RSIS requirement of 9'x18'. Given the low-turnover expected for the majority of the parking spaces, these dimensions will adequately accommodate the site.

## FINDINGS \& CONCLUSIONS

## Findings

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

- The proposed 387 residential units are projected to generate 40 entering trips and 133 exiting trips during the weekday morning peak hour and 124 entering trips and 73 exiting trips during the evening peak hour.
- Access to The Project will be provided via two (2) full movement driveways along Texas Road and one (1) full movement driveway along Falson Lane with the exiting movements under stop control.
- With the addition of site generated traffic, the individual intersection movements of Texas Road and Wooleytown Road/Falson Lane are anticipated to operate at Level of Service "D" or better during the peak hours studied.
- As designed, the individual intersection movements of Texas Road and the east site driveway are anticipated to operate at Level of Service "B" or better during the peak hours studied.
- As designed, the individual intersection movements of Texas Road and the west site driveway are anticipated to operate at Level of Service "B" or better during the peak hours studied.
- As designed, the individual intersection movements of Falson Lane and the site driveway are anticipated to operate at Level of Service "A" 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.
- The proposed parking supply and design is sufficient to support the maximum anticipated demand and exceeds the RSIS requirement.


## 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 the Township of Marlboro will not experience any significant change in operating conditions with the construction of The Project. The site driveways are located to provide safe and efficient access to the adjacent roadway system. The site plan as proposed provides for good circulation within the parking area and provides adequate parking supply to accommodate The Project's needs.

## Appendix A <br> Traffic Volume Figures













Appendix B
Traffic Counts

Marlboro, NJ
Texas Rd \& Costco
Thursday, September 28, 2017
Location: 40.364634,
74.302214

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Count Name: Texas Rd-Costco
Site Code:
Start Date: 09/28/2017
Page No: 1

| Start Time | Shopping Center Dwy Southbound |  |  |  |  |  |  | Turning <br> Texas Rd <br> Westbound |  |  |  |  |  |  | Costco Dwy <br> Northbound |  |  |  |  |  |  | Texas Rd <br> Eastbound |  |  |  |  |  |  | Int. Tota I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Righ t | $\begin{aligned} & \text { Righ } \\ & \text { t on } \\ & \text { Red } \\ & \hline \end{aligned}$ | Thru | Left | $\begin{gathered} \text { U- } \\ \text { Turn } \end{gathered}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota I | Righ | Righ t on Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota 1 | $\underset{\text { t }}{\text { Righ }}$ | $\begin{aligned} & \text { Righ } \\ & \text { t on } \end{aligned}$ Red | Thru | Left | $\begin{gathered} \text { U- } \\ \text { Turn } \end{gathered}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota I | $\underset{\text { t }}{\text { Righ }}$ | Righ $t$ on Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. <br> Tota <br> I |  |
| 7:00 AM | 7 | 1 | 1 | 4 | 0 | 6 | 13 | 4 | 0 | 107 | 34 | 0 | 0 | 145 | 1 | 3 | 0 | 7 | 0 | 1 | 11 | 4 | 1 | 45 | 4 | 0 | 1 | 54 | 223 |
| 7:15 AM | 5 | 1 | 0 | 3 | 0 | 4 | 9 | 2 | 0 | 86 | 36 | 0 | 0 | 124 | 1 | 5 | 0 | 2 | 0 | 1 | 8 | 8 | 0 | 40 | 1 | 0 | 0 | 49 | 190 |
| 7:30 AM | 4 | 1 | 1 | 3 | 0 | 1 | 9 | 5 | 1 | 106 | 28 | 0 | 0 | 140 | 1 | 2 | 1 | 5 | 0 | 0 | 9 | 6 | 1 | 52 | 0 | 0 | 0 | 59 | 217 |
| 7:45 AM | 3 | 0 | 0 | 4 | 0 | 1 | 7 | 6 | 1 | 96 | 16 | 0 | 0 | 119 | 1 | 3 | 0 | 3 | 0 | 0 | 7 | 9 | 2 | 65 | 2 | 0 | 0 | 78 | 211 |
| Hourly Total | 19 | 3 | 2 | 14 | 0 | 12 | 38 | 17 | 2 | 395 | 114 | 0 | 0 | 528 | 4 | 13 | 1 | 17 | 0 | 2 | 35 | 27 | 4 | 202 | 7 | 0 | 1 | 240 | 841 |
| 8:00 AM | 1 | 1 | 0 | 6 | 0 | 2 | 8 | 4 | 3 | 92 | 5 | 0 | 1 | 104 | 2 | 0 | 1 | 4 | 0 | 0 | 7 | 10 | 1 | 56 | 10 | 0 | 1 | 77 | 196 |
| 8:15 AM | 5 | 1 | 0 | 5 | 0 | 1 | 11 | 6 | 3 | 84 | 14 | 0 | 0 | 107 | 3 | 2 | 0 | 8 | 0 | 0 | 13 | 10 | 2 | 60 | 12 | 0 | 0 | 84 | 215 |
| 8:30 AM | 5 | 5 | 0 | 6 | 0 | 0 | 16 | 8 | 2 | 99 | 12 | 0 | 0 | 121 | 4 | 3 | 0 | 9 | 0 | 0 | 16 | 4 | 0 | 60 | 7 | 0 | 0 | 71 | 224 |
| 8:45 AM | 2 | 2 | 0 | 1 | 0 | 0 | 5 | 12 | 1 | 86 | 10 | 0 | 0 | 109 | 2 | 1 | 0 | 8 | 0 | 0 | 11 | 5 | 0 | 63 | 5 | 0 | 0 | 73 | 198 |
| Hourly Total | 13 | 9 | 0 | 18 | 0 | 3 | 40 | 30 | 9 | 361 | 41 | 0 | 1 | 441 | 11 | 6 | 1 | 29 | 0 | 0 | 47 | 29 | 3 | 239 | 34 | 0 | 1 | 305 | 833 |
| ** BREAK *** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11:00 AM | 6 | 4 | 2 | 9 | 0 | 0 | 21 | 3 | 0 | 54 | 19 | 0 | 2 | 76 | 10 | 6 | 3 | 44 | 0 | 1 | 63 | 37 | 1 | 52 | 12 | 0 | 0 | 102 | 262 |
| 11:15 AM | 14 | 5 | 3 | 6 | 0 | 1 | 28 | 3 | 0 | 65 | 15 | 0 | 0 | 83 | 10 | 17 | 2 | 52 | 0 | 0 | 81 | 26 | 6 | 57 | 16 | 0 | 0 | 105 | 297 |
| 11:30 AM | 14 | 4 | 7 | 6 | 0 | 0 | 31 | 7 | 0 | 54 | 15 | 0 | 0 | 76 | 21 | 9 | 4 | 46 | 0 | 0 | 80 | 20 | 4 | 49 | 20 | 0 | 0 | 93 | 280 |
| 11:45 AM | 13 | 3 | 4 | 9 | 0 | 1 | 29 | 10 | 0 | 42 | 17 | 1 | 0 | 70 | 18 | 9 | 4 | 49 | 0 | 0 | 80 | 41 | 0 | 49 | 10 | 0 | 1 | 100 | 279 |
| Hourly Total | 47 | 16 | 16 | 30 | 0 | 2 | 109 | 23 | 0 | 215 | 66 | 1 | 2 | 305 | 59 | 41 | 13 | 191 | 0 | 1 | 304 | 124 | 11 | 207 | 58 | 0 | 1 | 400 | 1118 |
| 12:00 PM | 7 | 7 | 2 | 7 | 0 | 0 | 23 | 5 | 0 | 50 | 23 | 0 | 0 | 78 | 11 | 11 | 3 | 43 | 0 | 0 | 68 | 47 | 1 | 53 | 19 | 0 | 0 | 120 | 289 |
| 12:15 PM | 9 | 5 | 2 | 9 | 0 | 1 | 25 | 11 | 1 | 56 | 11 | 0 | 1 | 79 | 15 | 17 | 7 | 57 | 0 | 0 | 96 | 37 | 3 | 52 | 10 | 0 | 0 | 102 | 302 |
| 12:30 PM | 20 | 1 | 1 | 9 | 0 | 0 | 31 | 10 | 3 | 54 | 14 | 0 | 0 | 81 | 17 | 9 | 1 | 69 | 0 | 0 | 96 | 30 | 6 | 76 | 16 | 0 | 0 | 128 | 336 |
| 12:45 PM | 15 | 7 | 3 | 11 | 0 | 1 | 36 | 15 | 4 | 46 | 17 | 0 | 0 | 82 | 11 | 8 | 4 | 48 | 0 | 0 | 71 | 36 | 3 | 61 | 18 | 0 | 0 | 118 | 307 |
| Hourly Total | 51 | 20 | 8 | 36 | 0 | 2 | 115 | 41 | 8 | 206 | 65 | 0 | 1 | 320 | 54 | 45 | 15 | 217 | 0 | 0 | 331 | 150 | 13 | 242 | 63 | 0 | 0 | 468 | 1234 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *** ${ }^{\text {break }}$.** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hourly Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:00 PM | 12 | 8 | 1 | 12 | 0 | 0 | 33 | 3 | 1 | 82 | 17 | 0 | 0 | 103 | 26 | 8 | 3 | 55 | 0 | 0 | 92 | 39 | 0 | 107 | 14 | 0 | 0 | 160 | 388 |
| 4:15 PM | 11 | 3 | 4 | 10 | 0 | 0 | 28 | 11 | 0 | 72 | 13 | 0 | 0 | 96 | 18 | 5 | 0 | 48 | 0 | 2 | 71 | 29 | 2 | 102 | 10 | 0 | 0 | 143 | 338 |
| 4:30 PM | 6 | 8 | 0 | 9 | 0 | 0 | 23 | 7 | 0 | 83 | 17 | 0 | 0 | 107 | 20 | 12 | 4 | 49 | 0 | 0 | 85 | 44 | 5 | 110 | 13 | 0 | 0 | 172 | 387 |
| 4:45 PM | 4 | 4 | 1 | 8 | 0 | 0 | 17 | 14 | 5 | 71 | 15 | 0 | 0 | 105 | 24 | 6 | 1 | 61 | 0 | 0 | 92 | 20 | 5 | 124 | 8 | 0 | 0 | 157 | 371 |
| Hourly Total | 33 | 23 | 6 | 39 | 0 | 0 | 101 | 35 | 6 | 308 | 62 | 0 | 0 | 411 | 88 | 31 | 8 | 213 | 0 | 2 | 340 | 132 | 12 | 443 | 45 | 0 | 0 | 632 | 1484 |
| 5:00 PM | 8 | 6 | 4 | 4 | 0 | 2 | 22 | 8 | 0 | 77 | 14 | 0 | 0 | 99 | 22 | 10 | 1 | 61 | 0 | 0 | 94 | 32 | 6 | 98 | 15 | 0 | 0 | 151 | 366 |
| 5:15 PM | 9 | 2 | 1 | 10 | 0 | 3 | 22 | 8 | 3 | 88 | 14 | 0 | 1 | 113 | 25 | 12 | 4 | 47 | 0 | 0 | 88 | 46 | 3 | 115 | 18 | 0 | 0 | 182 | 405 |
| 5:30 PM | 9 | 9 | 1 | 10 | 0 | 1 | 29 | 15 | 2 | 76 | 16 | 0 | 0 | 109 | 22 | 13 | 1 | 49 | 0 | 0 | 85 | 32 | 2 | 106 | 23 | 0 | 0 | 163 | 386 |
| 5:45 PM | 9 | 5 | 0 | 13 | 0 | 1 | 27 | 13 | 0 | 68 | 22 | 0 | 0 | 103 | 41 | 3 | 3 | 61 | 0 | 0 | 108 | 21 | 4 | 126 | 16 | 0 | 0 | 167 | 405 |
| Hourly Total | 35 | 22 | 6 | 37 | 0 | 7 | 100 | 44 | 5 | 309 | 66 | 0 | 1 | 424 | 110 | 38 | 9 | 218 | 0 | 0 | 375 | 131 | 15 | 445 | 72 | 0 | 0 | 663 | 1562 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 198 | 93 | 38 | 174 | 0 | 26 | 503 | 190 | 30 | 1794 | 414 | 1 | 5 | 2429 | 327 | 174 | 47 | 885 | 0 | 5 | 1433 | 593 | 58 | 1778 | 279 | 0 | 3 | 2708 | 7073 |
| $\begin{gathered} \text { Approach } \\ \% \\ \hline \end{gathered}$ | 39.4 | 18.5 | 7.6 | 34.6 | 0.0 | - | - | 7.8 | 1.2 | 73.9 | 17.0 | 0.0 | - | - | 22.8 | 12.1 | 3.3 | 61.8 | 0.0 | - | - | 21.9 | 2.1 | 65.7 | 10.3 | 0.0 | - | - | - |
| Total \% | 2.8 | 1.3 | 0.5 | 2.5 | 0.0 | - | 7.1 | 2.7 | 0.4 | 25.4 | 5.9 | 0.0 | - | 34.3 | 4.6 | 2.5 | 0.7 | 12.5 | 0.0 | - | 20.3 | 8.4 | 0.8 | 25.1 | 3.9 | 0.0 | - | 38.3 | - |
| Lights | 194 | 93 | 38 | 173 | 0 | - | 498 | 190 | 30 | 1732 | 414 | 1 | - | 2367 | 326 | 174 | 46 | 876 | 0 | - | 1422 | 587 | 58 | 1699 | 275 | 0 | - | 2619 | 6906 |
| \% Lights | 98.0 | 100.0 | 100.0 | 99.4 | - | - | 99.0 | 100.0 | 100.0 | 96.5 | 100.0 | 100.0 | - | 97.4 | 99.7 | 100.0 | 97.9 | 99.0 | - | - | 99.2 | 99.0 | 100.0 | 95.6 | 98.6 | - | - | 96.7 | 97.6 |
| Buses | 1 | 0 | 0 | 1 | 0 | - | 2 | 0 | 0 | 11 | 0 | 0 | - | 11 | 0 | 0 | 0 | 0 | 0 | - | 0 | 1 | 0 | 16 | 2 | 0 | - | 19 | 32 |
| \% Buses | 0.5 | 0.0 | 0.0 | 0.6 | - | - | 0.4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | - | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.2 | 0.0 | 0.9 | 0.7 | - | - | 0.7 | 0.5 |
| Trucks | 3 | 0 | 0 | 0 | 0 | $-$ | 3 | 0 | 0 | 51 | 0 | 0 | $-$ | 51 | 1 | 0 | 1 | 9 | 0 | $-$ | 11 | 5 | 0 | 63 | 2 | 0 | - | 70 | 135 |
| \% Trucks | 1.5 | 0.0 | 0.0 | 0.0 | - | - | 0.6 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | $-$ | 2.1 | 0.3 | 0.0 | 2.1 | 1.0 | - | - | 0.8 | 0.8 | 0.0 | 3.5 | 0.7 | - | - | 2.6 | 1.9 |
| Bicycles on Crosswalk | - | - | - | - | - | 1 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - |
| $\begin{gathered} \text { \% Bicycles } \\ \text { on } \\ \text { Crosswalk } \\ \hline \end{gathered}$ | - | - | - | - | - | 3.8 | - | - | - | - | - | - | 0.0 | - | - | - | - | - | - | 0.0 | - | - | - | - | - | - | 0.0 | - | - |
| $\begin{gathered} \text { Pedestrian } \\ \mathrm{s} \end{gathered}$ | - | - | - | - | - | 25 | - | - | - | - | - | - | 5 | - | - | - | - | - | - | 5 | - | - | - | - | - | - | 3 | - | - |
| $\begin{gathered} \hline \% \\ \text { Pedestrian } \\ \mathrm{s} \\ \hline \end{gathered}$ | - | - | - | - | - | 96.2 | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | 100.0 | - | - |

www.TSTData.com
184 Baker Rd

Marlboro, NJ
Texas Rd \& Costco
Thursday, September 28, 2017
Location: 40.364634 ,
74.302214

Coatesville, Pennsylvania, United States 19320
Coatesville, Pennsylvania, United States 19320
Serving Transportation Professionals Since 1995

Count Name: Texas Rd-Costco
Site Code:
Start Date: 09/28/2017
Page No: 3

| Start Time | Shopping Center Dwy Southbound |  |  |  |  |  |  | Texas Rd <br> Westbound |  |  |  |  |  |  | Costco Dwy <br> Northbound |  |  |  |  |  |  | Texas Rd <br> Eastbound |  |  |  |  |  |  | Int. Tota 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Righ t | $\begin{aligned} & \text { Righ } \\ & \text { t on } \\ & \text { Red } \\ & \hline \end{aligned}$ | Thru | Left | $\begin{gathered} \text { U- } \\ \text { Turn } \end{gathered}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota I | $\underset{t}{\text { Righ }}$ | Righ $t$ on Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota $\qquad$ | $\underset{t}{\text { Righ }}$ | Righ ton Red | Thru | Left | U- <br> Turn | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota $\qquad$ | $\underset{t}{\text { Righ }}$ | Righ t on Red | Thru | Left | $\begin{gathered} \text { U- } \\ \text { Turn } \end{gathered}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota $\qquad$ |  |
| 7:45 AM | 3 | 0 | 0 | 4 | 0 | 1 | 7 | 6 | 1 | 96 | 16 | 0 | 0 | 119 | 1 | 3 | 0 | 3 | 0 | 0 | 7 | 9 | 2 | 65 | 2 | 0 | 0 | 78 | 211 |
| 8:00 AM | 1 | 1 | 0 | 6 | 0 | 2 | 8 | 4 | 3 | 92 | 5 | 0 | 1 | 104 | 2 | 0 | 1 | 4 | 0 | 0 | 7 | 10 | 1 | 56 | 10 | 0 | 1 | 77 | 196 |
| 8:15 AM | 5 | 1 | 0 | 5 | 0 | 1 | 11 | 6 | 3 | 84 | 14 | 0 | 0 | 107 | 3 | 2 | 0 | 8 | 0 | 0 | 13 | 10 | 2 | 60 | 12 | 0 | 0 | 84 | 215 |
| 8:30 AM | 5 | 5 | 0 | 6 | 0 | 0 | 16 | 8 | 2 | 99 | 12 | 0 | 0 | 121 | 4 | 3 | 0 | 9 | 0 | 0 | 16 | 4 | 0 | 60 | 7 | 0 | 0 | 71 | 224 |
| Total | 14 | 7 | 0 | 21 | 0 | 4 | 42 | 24 | 9 | 371 | 47 | 0 | 1 | 451 | 10 | 8 | 1 | 24 | 0 | 0 | 43 | 33 | 5 | 241 | 31 | 0 | 1 | 310 | 846 |
| $\begin{gathered} \substack{\text { Approach } \\ \% \\ \hline} \\ \hline \end{gathered}$ | 33.3 | 16.7 | 0.0 | 50.0 | 0.0 | - | - | 5.3 | 2.0 | 82.3 | 10.4 | 0.0 | - | - | 23.3 | 18.6 | 2.3 | 55.8 | 0.0 | - | - | 10.6 | 1.6 | 77.7 | 10.0 | 0.0 | - | - | - |
| Total \% | 1.7 | 0.8 | 0.0 | 2.5 | 0.0 | - | 5.0 | 2.8 | 1.1 | 43.9 | 5.6 | 0.0 | - | 53.3 | 1.2 | 0.9 | 0.1 | 2.8 | 0.0 | - | 5.1 | 3.9 | 0.6 | 28.5 | 3.7 | 0.0 | - | 36.6 | - |
| PHF | $\begin{array}{\|c} 0.70 \\ 0 \\ \hline \end{array}$ | 0.350 | 0.000 | 0.875 | 0.000 | - | 0.656 | 0.750 | 0.750 | 0.937 | 0.734 | 0.000 | - | 0.932 | 0.625 | 0.667 | 0.250 | 0.667 | 0.000 | - | 0.672 | 0.825 | 0.625 | 0.927 | 0.646 | 0.000 | - | 0.923 | 0.944 |
| Lights | 12 | 7 | 0 | 21 | 0 | - | 40 | 24 | 9 | 362 | 47 | 0 | - | 442 | 10 | 8 | 1 | 23 | 0 | - | 42 | 32 | 5 | 216 | 30 | 0 | - | 283 | 807 |
| \% Lights | 85.7 | 100.0 | - | 100.0 | - | - | 95.2 | 100.0 | 100.0 | 97.6 | 100.0 | - | - | 98.0 | 100.0 | 100.0 | 100.0 | 95.8 | - | - | 97.7 | 97.0 | 100.0 | 89.6 | 96.8 | - | - | 91.3 | 95.4 |
| Buses | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 0 | 0 | - | 5 | 6 |
| \% Buses | 0.0 | 0.0 | - | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | - | $-$ | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | - | $-$ | 1.6 | 0.7 |
| Trucks | 2 | 0 | 0 | 0 | 0 | - | 2 | 0 | 0 | 8 | 0 | 0 | - | 8 | 0 | 0 | 0 | 1 | 0 | $-$ | 1 | 1 | 0 | 20 | 1 | 0 | - | 22 | 33 |
| \% Trucks | 14.3 | 0.0 | - | 0.0 | - | - | 4.8 | 0.0 | 0.0 | 2.2 | 0.0 | - | - | 1.8 | 0.0 | 0.0 | 0.0 | 4.2 | - | $-$ | 2.3 | 3.0 | 0.0 | 8.3 | 3.2 | - | $-$ | 7.1 | 3.9 |
| $\begin{gathered} \text { Bicycles } \\ \text { on } \\ \text { Crosswalk } \\ \hline \end{gathered}$ | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - |
| $\begin{gathered} \text { \% Bicycles } \\ \text { on } \\ \text { Crosswalk } \\ \hline \end{gathered}$ | - | - | - | - | - | 0.0 | - | - | - | - | - | - | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - |
| $\begin{gathered} \hline \text { Pedestrian } \\ \mathrm{s} \\ \hline \end{gathered}$ | - | - | - | - | - | 4 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 1 | - | - |
| $\begin{gathered} \% \\ \text { Pedestrian } \\ \mathrm{s} \\ \hline \end{gathered}$ | - | - | - | - | - | 100.0 | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |

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184 Baker Rd

Marlboro, NJ
Texas Rd \& Costco
Thursday, September 28, 2017
Location: 40.364634 ,
74.302214

Coatesville, Pennsylvania, United States 19320
Coatesville, Pennsylvania, United States 19320
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Count Name: Texas Rd-Costco
Site Code:
Start Date: 09/28/2017
Page No: 7

| Start <br> Time | Shopping Center Dwy Southbound |  |  |  |  |  |  | Texas Rd <br> Westbound |  |  |  |  |  |  | Costco Dwy <br> Northbound |  |  |  |  |  |  | Texas Rd <br> Eastbound |  |  |  |  |  |  | Int. Tota I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { R }}{\text { Righ }}$ | Righ t on Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota 1 | $\underset{t}{\text { Righ }}$ | Righ $t$ on Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota I | $\underset{t}{\text { Righ }}$ | Righ ton Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. <br> Tota <br> 1 | $\underset{t}{\text { Righ }}$ | Righ ton Red | Thru | Left | $\begin{aligned} & \text { U- } \\ & \text { Turn } \end{aligned}$ | $\begin{gathered} \text { Ped } \\ \mathrm{s} \end{gathered}$ | App. Tota 1 |  |
| 5:00 PM | 8 | 6 | 4 | 4 | 0 | 2 | 22 | 8 | 0 | 77 | 14 | 0 | 0 | 99 | 22 | 10 | 1 | 61 | 0 | 0 | 94 | 32 | 6 | 98 | 15 | 0 | 0 | 151 | 366 |
| 5:15 PM | 9 | 2 | 1 | 10 | 0 | 3 | 22 | 8 | 3 | 88 | 14 | 0 | 1 | 113 | 25 | 12 | 4 | 47 | 0 | 0 | 88 | 46 | 3 | 115 | 18 | 0 | 0 | 182 | 405 |
| 5:30 PM | 9 | 9 | 1 | 10 | 0 | 1 | 29 | 15 | 2 | 76 | 16 | 0 | 0 | 109 | 22 | 13 | 1 | 49 | 0 | 0 | 85 | 32 | 2 | 106 | 23 | 0 | 0 | 163 | 386 |
| 5:45 PM | 9 | 5 | 0 | 13 | 0 | 1 | 27 | 13 | 0 | 68 | 22 | 0 | 0 | 103 | 41 | 3 | 3 | 61 | 0 | 0 | 108 | 21 | 4 | 126 | 16 | 0 | 0 | 167 | 405 |
| Total | 35 | 22 | 6 | 37 | 0 | 7 | 100 | 44 | 5 | 309 | 66 | 0 | 1 | 424 | 110 | 38 | 9 | 218 | 0 | 0 | 375 | 131 | 15 | 445 | 72 | 0 | 0 | 663 | 1562 |
| $\begin{gathered} \substack{\text { Approach } \\ \% \\ \hline} \\ \hline \end{gathered}$ | 35.0 | 22.0 | 6.0 | 37.0 | 0.0 | - | - | 10.4 | 1.2 | 72.9 | 15.6 | 0.0 | - | - | 29.3 | 10.1 | 2.4 | 58.1 | 0.0 | - | - | 19.8 | 2.3 | 67.1 | 10.9 | 0.0 | - | - | - |
| Total \% | 2.2 | 1.4 | 0.4 | 2.4 | 0.0 | - | 6.4 | 2.8 | 0.3 | 19.8 | 4.2 | 0.0 | - | 27.1 | 7.0 | 2.4 | 0.6 | 14.0 | 0.0 | - | 24.0 | 8.4 | 1.0 | 28.5 | 4.6 | 0.0 | - | 42.4 | - |
| PHF | $\begin{gathered} 0.97 \\ 2 \end{gathered}$ | 0.611 | 0.375 | 0.712 | 0.000 | - | 0.862 | 0.733 | 0.417 | 0.878 | 0.750 | 0.000 | - | 0.938 | 0.671 | 0.731 | 0.563 | 0.893 | 0.000 | - | 0.868 | 0.712 | 0.625 | 0.883 | 0.783 | 0.000 | - | 0.911 | 0.964 |
| Lights | 34 | 22 | 6 | 37 | 0 | - | 99 | 44 | 5 | 303 | 66 | 0 | - | 418 | 110 | 38 | 9 | 218 | 0 | - | 375 | 130 | 15 | 439 | 71 | 0 | - | 655 | 1547 |
| \% Lights | 97.1 | 100.0 | 100.0 | 100.0 | - | - | 99.0 | 100.0 | 100.0 | 98.1 | 100.0 | - | - | 98.6 | 100.0 | 100.0 | 100.0 | 100.0 | - | - | 100.0 | 99.2 | 100.0 | 98.7 | 98.6 | - | - | 98.8 | 99.0 |
| Buses | 1 | 0 | 0 | 0 | 0 | - | 1 | 0 | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 1 | 0 | $-$ | 1 | 3 |
| \% Buses | 2.9 | 0.0 | 0.0 | 0.0 | - | - | 1.0 | 0.0 | 0.0 | 0.3 | 0.0 | - | $-$ | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | - | $-$ | 0.2 | 0.2 |
| Trucks | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 0 | 0 | - | 5 | 0 | 0 | 0 | 0 | 0 | - | 0 | 1 | 0 | 6 | 0 | 0 | - | 7 | 12 |
| \% Trucks | 0.0 | 0.0 | 0.0 | 0.0 | - | $-$ | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | - | - | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.8 | 0.0 | 1.3 | 0.0 | - | $-$ | 1.1 | 0.8 |
| $\begin{gathered} \text { Bicycles } \\ \text { on } \\ \text { Crosswalk } \\ \hline \end{gathered}$ | - | - | - | - | - | 1 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - |
| $\begin{gathered} \text { \% Bicycles } \\ \text { on } \\ \text { Crosswalk } \\ \hline \end{gathered}$ | - | - | - | - | - | 14.3 | - | - | - | - | - | - | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{gathered} \hline \text { Pedestrian } \\ \mathrm{s} \\ \hline \end{gathered}$ | - | - | - | - | - | 6 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | 0 | - | - |
| $\begin{gathered} \% \\ \begin{array}{c} \text { Pedestrian } \\ \mathrm{s} \end{array} \\ \hline \end{gathered}$ | - | - | - | - | - | 85.7 | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# 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: Texas Rd
N/S: Driveways
Town/County: Marlboro/Monmouth Job \#: 2841-99-001T

File Name : Texas Rd \& Costco-Shopping Center Dway - AMPM Site Code : 00000000
Start Date : 7/30/2020
Page No : 1

| Groups Printed- Cars - Trucks (SU) - Trucks (TT) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Texas Road Eastbound |  |  |  |  | Texas Road Westbound |  |  |  |  | Costco Driveway Northbound |  |  |  |  | Shopping Center Driveway Southbound |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Toala | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal |  |
| 07:45 AM | 0 | 57 | 12 | 1 | 70 | 3 | 68 | 0 | 1 | 72 | 1 | 0 | 3 | 1 | 5 | 0 | 0 | 2 | 1 | 3 | 150 |
| Total | 0 | 57 | 12 | 1 | 70 | 3 | 68 | 0 | 1 | 72 | 1 | 0 | 3 | 1 | 5 | 0 | 0 | 2 | 1 | 3 | 150 |
| 08:00 AM | 1 | 52 | 10 | 0 | 63 | 11 | 63 | , | 0 | 75 | 3 | 0 | 4 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 146 |
| 08:15 AM | 1 | 77 | 13 | 0 | 91 | 6 | 76 | 2 | 3 | 87 | 5 | 0 | 9 | 0 | 14 | 2 | 0 | 1 | 0 | 3 | 195 |
| 08:30 AM | 2 | 61 | 18 | 0 | 81 | 4 | 79 | 0 | 0 | 83 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 171 |
| *** BREAK |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 4 | 190 | 41 | 0 | 235 | 21 | 218 | 3 | 3 | 245 | 10 | 0 | 17 | 0 | 27 | 2 | 0 | 3 | 0 | 5 | 512 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM | 13 | 107 | 42 | 0 | 162 | 26 | 92 | 6 | 0 | 124 | 44 | 1 | 35 | 0 | 80 | 3 | 1 | 10 | 0 | 14 | 380 |
| 05:15 PM | 7 | 123 | 45 | 0 | 175 | 12 | 91 | 3 | 1 | 107 | 50 | 0 | 35 | 0 | 85 | 4 | 3 | 9 | 0 | 16 | 383 |
| 05:30 PM | 10 | 106 | 41 | 0 | 157 | 19 | 78 | 3 | 1 | 101 | 52 | 0 | 35 | 1 | 88 | 11 | 1 | 9 | 0 | 21 | 367 |
| 05:45 PM | 3 | 102 | 47 | 0 | 152 | 20 | 79 | 2 | 0 | 101 | 48 | 2 | 37 | 0 | 87 | 4 | 1 | 7 | 0 | 12 | 352 |
| Total | 33 | 438 | 175 | 0 | 646 | 77 | 340 | 14 | 2 | 433 | 194 | 3 | 142 | 1 | 340 | 22 | 6 | 35 | 0 | 63 | 1482 |
| Grand Total | 37 | 685 | 228 | 1 | 951 | 101 | 626 | 17 | 6 | 750 | 205 | 3 | 162 | 2 | 372 | 24 | 6 | 40 | 1 | 71 | 2144 |
| Apprch \% | 3.9 | 72 | 24 | 0.1 |  | 13.5 | 83.5 | 2.3 | 0.8 |  | 55.1 | 0.8 | 43.5 | 0.5 |  | 33.8 | 8.5 | 56.3 | 1.4 |  |  |
| Total \% | 1.7 | 31.9 | 10.6 | 0 | 44.4 | 4.7 | 29.2 | 0.8 | 0.3 | 35 | 9.6 | 0.1 | 7.6 | 0.1 | 17.4 | 1.1 | 0.3 | 1.9 | 0 | 3.3 |  |
| Cars | 37 | 671 | 224 | 1 | 933 | 101 | 614 | 17 | 6 | 738 | 205 | 3 | 162 | 2 | 372 | 24 | 6 | 39 | 1 | 70 | 2113 |
| \% Cars | 100 | 98 | 98.2 | 100 | 98.1 | 100 | 98.1 | 100 | 100 | 98.4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97.5 | 100 | 98.6 | 98.6 |
| Trucks (SU) | 0 | 12 | 0 | 0 | 12 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 23 |
| \% Trucks (SU) | 0 | 1.8 | 0 | 0 | 1.3 | 0 | 1.6 | 0 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 1.4 | 1.1 |
| Trucks (TT) | 0 | 2 |  | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| \% Trucks (TT) | 0 | 0.3 | 1.8 | 0 | 0.6 | 0 | 0.3 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 |

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<br>File Name : Texas Rd and Wooleytown Rd-Falson Ln - AMPM<br>Site Code : 00000000<br>Start Date : 7/30/2020<br>Page No : 1

E/W: Texas Rd
N/S: Wooleytown Rd/Falson Ln Town/County: Marlboro/Monmouth Job \#: 2841-99-001T

|  | Texas Road Eastbound |  |  |  |  | Texas Road Westbound |  |  |  |  | Wooleytown Road Northbound |  |  |  |  | Falson Lane Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | int. Total |
| 07:00 AM | 1 | 19 | 2 | 0 | 22 | 0 | 23 | 0 | 0 | 23 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 4 | 50 |
| 07:15 AM | 1 | 18 | 2 | 0 | 21 | 1 | 27 | 0 | 0 | 28 | 3 | 2 | 1 | 0 | 6 | 0 | 4 | 5 | 0 | 9 | 64 |
| 07:30 AM | 2 | 24 | 0 | 0 | 26 | 0 | 36 | 0 | 0 | 36 | 1 | 2 | 4 | 0 | 7 | 0 | 8 | 5 | 0 | 13 | 82 |
| 07:45 AM | 1 | 40 | 4 | 1 | 46 | 2 | 20 | 1 | 1 | 24 | 1 | 3 | 3 | 0 | 7 | 1 | 8 | 5 | 1 | 15 | 92 |
| Total | 5 | 101 | 8 | 1 | 115 | 3 | 106 | 1 | 1 | 111 | 5 | 8 | 8 | 0 | 21 | 1 | 21 | 18 | 1 | 41 | 288 |
| 08:00 AM | 3 | 31 | 1 | 0 | 35 | 5 | 27 | 1 | 0 | 33 | 0 | 3 | 2 | 0 | 5 | 1 | 5 | 6 | 0 | 12 | 85 |
| 08:15 AM | 3 | 42 | 1 | 0 | 46 | 1 | 36 | 1 | 1 | 39 | 3 | 3 |  | 0 | 7 | 2 | 7 | 3 | 0 | 12 | 104 |
| 08:30 AM | 4 | 31 | 2 | 0 | 37 | 4 | 31 | 1 | 0 | 36 | 5 | 1 | 2 | 0 | 8 | 1 | 10 | 3 | 0 | 14 | 95 |
| 08:45 AM | 4 | 20 | 1 | 1 | 26 | 1 | 24 | 1 | 0 | 26 | 1 | 2 | 3 | 0 | 6 | 1 | 8 | 10 | 0 | 19 | 77 |
| Total | 14 | 124 | 5 | 1 | 144 | 11 | 118 | 4 | 1 | 134 | 9 | 9 | 8 | 0 | 26 | 5 | 30 | 22 | 0 | 57 | 361 |

*** BREAK ***

| 04:30 PM | 7 | 52 | 3 | 0 | 62 | 5 | 44 | 0 | 0 | 49 | 1 | 6 | 1 | 0 | 8 | 1 | 6 | 4 | 0 | 11 | 130 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:45 PM | 9 | 78 | 8 | 0 | 95 | 3 | 34 | 2 | 0 | 39 | 4 | 8 | 4 | 0 | 16 | 3 | 5 | 7 | 0 | 15 | 165 |
| Total | 16 | 130 | 11 | 0 | 157 | 8 | 78 | 2 | 0 | 88 | 5 | 14 | 5 | 0 | 24 | 4 | 11 | 11 | 0 | 26 | 295 |
| 05:00 PM | 12 | 56 | 5 | 0 | 73 | 0 | 47 | 1 | 0 | 48 | 5 | 11 | 1 | 0 | 17 | 4 | 8 | 3 | 0 | 15 | 153 |
| 05:15 PM | 2 | 68 | 6 | 0 | 76 | 7 | 45 | 3 | 0 | 55 | 2 | 11 | 5 | 0 | 18 | 1 | 9 | 11 | 0 | 21 | 170 |
| 05:30 PM | 13 | 46 | 8 | 0 | 67 | 3 | 46 | 2 | 0 | 51 | 2 | 6 | 5 | 0 | 13 | 0 | 10 | 6 | 0 | 16 | 147 |
| 05:45 PM | 5 | 59 | 3 | 0 | 67 | 1 | 28 | 3 | 0 | 32 | 4 | 5 | 1 | 0 | 10 | 0 | 8 | 3 | 0 | 11 | 120 |
| Total | 32 | 229 | 22 | 0 | 283 | 11 | 166 | 9 | 0 | 186 | 13 | 33 | 12 | 0 | 58 | 5 | 35 | 23 | 0 | 63 | 590 |
| 06:00 PM | 2 | 57 | 5 | 0 | 64 | 4 | 33 | 1 | 0 | 38 | 2 | 13 | 5 | 0 | 20 | 3 | 8 | 6 | 0 | 17 | 139 |
| 06:15 PM | 6 | 42 | 1 | 0 | 49 | 4 | 33 | 1 | 0 | 38 | 2 | 13 | 3 | 0 | 18 | 1 | 5 | 6 | 0 | 12 | 117 |
| Grand Total | 75 | 683 | 52 | 2 | 812 | 41 | 534 | 18 | 2 | 595 | 36 | 90 | 41 | 0 | 167 | 19 | 110 | 86 | 1 | 216 | 1790 |
| Apprch \% | 9.2 | 84.1 | 6.4 | 0.2 |  | 6.9 | 89.7 | 3 | 0.3 |  | 21.6 | 53.9 | 24.6 | 0 |  | 8.8 | 50.9 | 39.8 | 0.5 |  |  |
| Total \% | 4.2 | 38.2 | 2.9 | 0.1 | 45.4 | 2.3 | 29.8 | 1 | 0.1 | 33.2 | 2 | 5 | 2.3 | 0 | 9.3 | 1.1 | 6.1 | 4.8 | 0.1 | 12.1 |  |
| Cars | 75 | 675 | 51 | 2 | 803 | 40 | 528 | 17 | 2 | 587 | 36 | 90 | 41 | 0 | 167 | 19 | 109 | 86 | 1 | 215 | 1772 |
| \% Cars | 100 | 98.8 | 98.1 | 100 | 98.9 | 97.6 | 98.9 | 94.4 | 100 | 98.7 | 100 | 100 | 100 | 0 | 100 | 100 | 99.1 | 100 | 100 | 99.5 | 99 |
| Trucks (SU) | 0 | 8 | 1 | 0 | 9 | 1 | 6 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 18 |
| \% Trucks (SU) | 0 | 1.2 | 1.9 | 0 | 1.1 | 2.4 | 1.1 | 5.6 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0.5 | 1 |
| 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<br>File Name : Texas \& Wooleytown-Falson - AMPM NORMALIZED<br>Site Code : 00000000<br>Page No : 1

E/W: Texas Rd
N/S: Wooleytown Rd/Falson Ln
Town/County: Marlboro/Monmouth Start Date : 7/30/2020
Job \#: 2841-99-001T

|  | Texas Road Eastbound |  |  |  |  | Texas Road Westbound |  |  |  |  | Wooleytown Road Northbound |  |  |  |  | Falson Lane Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toala | Left | Thru | Right | Peds | App. Toala | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | int. Total |
| 07:00 AM | 1 | 26 | 3 | 0 | 30 | 0 | 32 | 0 | 0 | 32 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 4 | 0 | 5 | 68 |
| 07:15 AM | 1 | 25 | 3 | 0 | 29 | 1 | 37 | 0 | 0 | 38 | 4 | 3 | 1 | 0 | 8 | 0 | 6 | 7 | 0 | 13 | 88 |
| 07:30 AM | 3 | 33 | 0 | 0 | 36 | 0 | 50 | 0 | 0 | 50 | 1 | 3 | 6 | 0 | 10 | 0 | 11 | 7 | 0 | 18 | 114 |
| 07:45 AM | 1 | 55 | 6 | 1 | 63 | 3 | 28 | 1 | 1 | 33 | 1 | 4 | 4 | 0 | 9 | 1 | 11 | 7 | 1 | 20 | 125 |
| Total | 6 | 139 | 12 | 1 | 158 | 4 | 147 | 1 | 1 | 153 | 6 | 11 | 11 | 0 | 28 | 1 | 29 | 25 | 1 | 56 | 395 |
| 08:00 AM | 4 | 43 | 1 | 0 | 48 | 7 | 37 | 1 | 0 | 45 | 0 | 4 | 3 | 0 | 7 | 1 | 7 | 8 | 0 | 16 | 116 |
| 08:15 AM | 4 | 58 | 1 | 0 | 63 | 1 | 50 | 1 |  | 53 | 4 | 4 |  | 0 | 9 | 3 | 10 | 4 | 0 | 17 | 142 |
| 08:30 AM | 6 | 43 | 3 | 0 | 52 | 6 | 43 | 1 | 0 | 50 | 7 | 1 | 3 | 0 | 11 | 1 | 14 | 4 | 0 | 19 | 132 |
| 08:45 AM | 6 | 27 | 1 | 1 | 35 | 1 | 33 | 1 | 0 | 35 | 1 | 3 | 4 | 0 | 8 | 1 | 11 | 14 | 0 | 26 | 104 |
| Total | 20 | 171 | 6 | 1 | 198 | 15 | 163 | 4 | 1 | 183 | 12 | 12 | 11 | 0 | 35 | 6 | 42 | 30 | 0 | 78 | 494 |

*** BREAK ***

| 04:30 PM | 8 | 59 | 3 | 0 | 70 | 6 | 50 | 0 | 0 | 56 | 1 | 7 | 1 | 0 | 9 | 1 | 7 | 5 | 0 | 13 | 148 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:45 PM | 10 | 88 | 9 | 0 | 107 | 3 | 38 | 2 | 0 | 43 | 5 | 9 | 5 | 0 | 19 | 3 | 6 | 8 | 0 | 17 | 186 |
| Total | 18 | 147 | 12 | 0 | 177 | 9 | 88 | 2 | 0 | 99 | 6 | 16 | 6 | 0 | 28 | 4 | 13 | 13 | 0 | 30 | 334 |
| 05:00 PM | 14 | 63 | 6 | 0 | 83 | 0 | 53 | 1 | 0 | 54 | 6 | 12 | 1 | 0 | 19 | 5 | 9 | 3 | 0 | 17 | 173 |
| 05:15 PM | 2 | 77 | 7 | 0 | 86 | 8 | 51 | 3 | 0 | 62 | 2 | 12 | 6 | 0 | 20 | 1 | 10 | 12 | 0 | 23 | 191 |
| 05:30 PM | 15 | 52 | 9 | 0 | 76 | 3 | 52 | 2 | 0 | 57 | 2 | 7 | 6 | 0 | 15 | 0 | 11 | 7 | 0 | 18 | 166 |
| 05:45 PM | 6 | 67 | 3 | 0 | 76 | 1 | 32 | 3 | 0 | 36 | 5 | 6 | 1 | 0 | 12 | 0 | 9 | 3 | 0 | 12 | 136 |
| Total | 37 | 259 | 25 | 0 | 321 | 12 | 188 | 9 | 0 | 209 | 15 | 37 | 14 | 0 | 66 | 6 | 39 | 25 | 0 | 70 | 666 |
| 06:00 PM | 2 | 64 | 6 | 0 | 72 | 5 | 37 | 1 | 0 | 43 | 2 | 15 | 6 | 0 | 23 | 3 | 9 | 7 | 0 | 19 | 157 |
| 06:15 PM | 7 | 47 | 1 | 0 | 55 | 5 | 37 | 1 | 0 | 43 | 2 | 15 | 3 | 0 | 20 | 1 | 6 | 7 | 0 | 14 | 132 |
| Grand Total | 90 | 827 | 62 | 2 | 981 | 50 | 660 | 18 | 2 | 730 | 43 | 106 | 51 | 0 | 200 | 21 | 138 | 107 | 1 | 267 | 2178 |
| Apprch \% | 9.2 | 84.3 | 6.3 | 0.2 |  | 6.8 | 90.4 | 2.5 | 0.3 |  | 21.5 | 53 | 25.5 | 0 |  | 7.9 | 51.7 | 40.1 | 0.4 |  |  |
| Total \% | 4.1 | 38 | 2.8 | 0.1 | 45 | 2.3 | 30.3 | 0.8 | 0.1 | 33.5 | 2 | 4.9 | 2.3 | 0 | 9.2 | 1 | 6.3 | 4.9 | 0 | 12.3 |  |
| Cars | 90 | 818 | 61 | 2 | 971 | 49 | 654 | 17 | 2 | 722 | 43 | 106 | 51 | 0 | 200 | 21 | 137 | 107 | 1 | 266 | 2159 |
| \% Cars | 100 | 98.9 | 98.4 | 100 | 99 | 98 | 99.1 | 94.4 | 100 | 98.9 | 100 | 100 | 100 | 0 | 100 | 100 | 99.3 | 100 | 100 | 99.6 | 99.1 |
| Trucks (SU) | 0 | 9 | 1 | 0 | 10 | 1 | 6 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 19 |
| \% Trucks (SU) | 0 | 1.1 | 1.6 | 0 | 1 | 2 | 0.9 | 5.6 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0 | 0 | 0.4 | 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 |

## Appendix C <br> Capacity Analysis












| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.3 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\mathbf{- 1}$ | b |  | Mr |  |
| Traffic Vol, veh/h | 6 | 291 | 261 | 12 | 33 | 27 |
| Future Vol, veh/h | 6 | 291 | 261 | 12 | 33 | 27 |
| 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, \% | - | -1 | 2 | - | 0 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, \% | 2 | 2 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 338 | 303 | 14 | 38 | 31 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 317 | 0 | - | 0 | 662 | 310 |
| Stage 1 | - | - | - - | - | 310 | - |
| Stage 2 | - | - | - - | - | 352 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1243 | - | - | - | 427 | 730 |
| Stage 1 | - | - | - - | - | 744 | - |
| Stage 2 | - | - | - - | - | 712 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1243 | - | - - | - | 424 | 730 |
| Mov Cap-2 Maneuver | - | - | - - | - | 424 | - |
| Stage 1 | - | - | - - | - | 739 | - |
| Stage 2 | - | - | - - | - | 712 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.2 |  | 0 |  | 12.9 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1243 | - | - | - | 523 |
| HCM Lane V/C Ratio |  | 0.006 | - | - | - | 0.133 |
| HCM Control Delay (s) |  | 7.9 | 0 | - | - | 12.9 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | , | - | - | 0.5 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.3 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 12 | 270 | 282 | 6 | 27 | 33 |
| Future Vol, veh/h | 12 | 270 | 282 | 6 | 27 | 33 |
| 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, \% | - | 1 | -2 | - | 0 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, \% | 2 | 2 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 314 | 328 | 7 | 31 | 38 |


| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 335 | 0 | 0 | 0 | 674 | 332 |
| Stage 1 | - |  | - | - | 332 | - |
| Stage 2 | - |  | - | - | 342 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1224 | - | - | - | 420 | 710 |
| Stage 1 | - | - | - | - | 727 | - |
| Stage 2 | - |  | - - | - | 719 | - |
| Platoon blocked, \% |  |  | - | - |  |  |
| Mov Cap-1 Maneuver | 1224 |  | - - | - | 414 | 710 |
| Mov Cap-2 Maneuver | - | - | - - | - | 414 | - |
| Stage 1 | - |  | - - | - | 717 | - |
| Stage 2 | - | - | - - | - | 719 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.3 |  | 0 |  | 12.7 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1224 | - | - | - | 537 |
| HCM Lane V/C Ratio |  | 0.011 | 1 | - | - | 0.13 |
| HCM Control Delay (s) |  | 8 | 8 | - | - | 12.7 |
| HCM Lane LOS |  | A | A A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | 0 | - | - | 0.4 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Minor2 | Major1 Major2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 132 | 84 | 84 | 0 | - | 0 |  |
| Stage 1 | 84 | - | - | - | - | - |  |
| Stage 2 | 48 | - | - | - | - | - |  |
| Critical Hdwy | 6.62 | 6.32 | 4.12 | - | - | - |  |
| Critical Hdwy Stg 1 | 5.62 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.62 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |  |
| Pot Cap-1 Maneuver | 856 | 973 | 1513 | - | - | - |  |
| Stage 1 | 935 | - | - | - | - | - |  |
| Stage 2 | 972 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  |  | - | - | - |  |
| Mov Cap-1 Maneuver | 853 | 973 | 1513 | - | - | - |  |
| Mov Cap-2 Maneuver | 853 | - | - | - | - | - |  |
| Stage 1 | 932 | - | - | - | - | - |  |
| Stage 2 | 972 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | EB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 8.8 |  | 0.7 |  | 0 |  |  |
| HCM LOS | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBL | NBT | BLn1 | SBT | SBR |  |
| Capacity (veh/h) |  | 1513 | - | 973 | - | - |  |
| HCM Lane V/C Ratio |  | 0.003 |  | 0.014 | - | - |  |
| HCM Control Delay (s) |  | 7.4 | 0 | 8.8 | - | - |  |
| HCM Lane LOS |  | A | A | A | - | - |  |
| HCM 95th \%tile Q(veh) |  | 0 | - | 0 | - | - |  |




| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.7 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | 4 |  |
| Traffic Vol, veh/h | 19 | 444 | 319 | 37 | 18 | 15 |
| Future Vol, veh/h | 19 | 444 | 319 | 37 | 18 | 15 |
| 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, \% | - | -1 | 2 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 2 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 20 | 472 | 339 | 39 | 19 | 16 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 378 | 0 | - | 0 | 871 | 359 |
| Stage 1 | - | - | - - | - | 359 | - |
| Stage 2 | - | - | - - | - | 512 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1180 | - | - | - | 322 | 685 |
| Stage 1 | - | - | - - | - | 707 | - |
| Stage 2 | - | - | - - | - | 602 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1180 | - | - - | - | 315 | 685 |
| Mov Cap-2 Maneuver | - | - | - - | - | 315 | - |
| Stage 1 | - | - | - - | - | 691 | - |
| Stage 2 | - | - | - - | - | 602 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.3 |  | 0 |  | 14.4 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1180 | - | - | - | 418 |
| HCM Lane V/C Ratio |  | 0.017 | - | - | - | 0.084 |
| HCM Control Delay (s) |  | 8.1 | 0 | - | - | 14.4 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0.1 | A | - | - | 0.3 |



| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 355 | 0 | - | 0 | 900 | 345 |
| Stage 1 | - | - | - | - | 345 | - |
| Stage 2 | - | - | - | - | 555 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 |  | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1204 | - | - | - | 309 | 698 |
| Stage 1 | - | - | - | - | 717 | - |
| Stage 2 | - | - | - | - | 575 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1204 | - | - | - | 295 | 698 |
| Mov Cap-2 Maneuver | - | - | - | - | 295 | - |
| Stage 1 | - | - | - | - | 685 | - |
| Stage 2 | - | - | - | - | 575 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.6 |  | 0 |  | 14.1 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1204 | - | - | - | 431 |
| HCM Lane V/C Ratio |  | 0.033 | - | - | - | 0.081 |
| HCM Control Delay (s) |  | 8.1 | 0 | - | - | 14.1 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | - | 0.3 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Minor2 | Major1 Major2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 225 | 91 | 91 | 0 | - | 0 |  |
| Stage 1 | 91 | - | - | - | - | - |  |
| Stage 2 | 134 | - | - | - | - | - |  |
| Critical Hdwy | 6.62 | 6.32 | 4.12 | - | - | - |  |
| Critical Hdwy Stg 1 | 5.62 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.62 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |  |
| Pot Cap-1 Maneuver | 754 | 964 | 1504 | - | - | - |  |
| Stage 1 | 928 | - | - | - | - | - |  |
| Stage 2 | 886 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  |  | - | - | - |  |
| Mov Cap-1 Maneuver | 747 | 964 | 1504 | - | - | - |  |
| Mov Cap-2 Maneuver | 747 | - | - | - | - | - |  |
| Stage 1 | 920 | - | - | - | - | - |  |
| Stage 2 | 886 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | EB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 8.8 |  | 0.8 |  | 0 |  |  |
| HCM LOS | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBL | NBT | BLn1 | SBT | SBR |  |
| Capacity (veh/h) |  | 1504 | - | 964 | - | - |  |
| HCM Lane V/C Ratio |  | 0.009 |  | 0.008 | - | - |  |
| HCM Control Delay (s) |  | 7.4 | 0 | 8.8 | - | - |  |
| HCM Lane LOS |  | A | A | A | - | - |  |
| HCM 95th \%tile Q(veh) |  | 0 | - | 0 | - | - |  |

