

# TRAFFIC IMPACT REPORT



May 2, 2025

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# HARTWELL HEIGHTS

## TOWN OF PERINTON, NY

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TOWN OF PERINTON

PREPARED FOR:  
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2 Thornell Road  
Pittsford, NY 14534

## TABLE OF CONTENTS

|  |           |
|--|-----------|
| <b>1.0 EXECUTIVE SUMMARY .....</b>                                   | <b>3</b>  |
| <b>2.0 INTRODUCTION.....</b>   | <b>4</b>  |
| 2.1 Study Purpose and Objectives .....                               | 4         |
| 2.2 Traffic Impact Report Methodology.....                           | 4         |
| 2.3 Project Location .....   | 4         |
| 2.4 Study Area .....   | 4         |
| <b>3.0 TRANSPORTATION SETTING .....</b>                              | <b>5</b>  |
| 3.1 Description of Study Area Roadways .....                         | 5         |
| Table 1: Existing Roadway Network.....                               | 5         |
| Table 2: Multimodal Network.....                                     | 5         |
| 3.2 Planned / Programmed Roadway Improvements.....                   | 5         |
| <b>4.0 EXISTING CONDITIONS ANALYSIS .....</b>                        | <b>6</b>  |
| 4.1 Peak Intervals for Analysis .....                                | 6         |
| 4.2 Existing Traffic Volume Data .....                               | 6         |
| Table 3: Seasonal Adjustment Categories .....                        | 6         |
| 4.3 Field Observations .....   | 6         |
| 4.4 Peak Hour Queue Assessment .....                                 | 7         |
| 4.5 Sight Distance Evaluation .....                                  | 7         |
| Table 4: Sight Distance Results .....                                | 7         |
| 4.6 Existing Crash Investigation .....                               | 8         |
| Table 5: Intersection Crash Rate Analysis .....                      | 8         |
| 4.7 Traffic Gap Assessment .....                                     | 9         |
| Table 6: Gap Acceptance Results .....                                | 9         |
| <b>5.0 BACKGROUND (NO BUILD) CONDITIONS .....</b>                    | <b>9</b>  |
| <b>6.0 PROPOSED DEVELOPMENT CONDITIONS .....</b>                     | <b>10</b> |
| 6.1 Project Description .....  | 10        |
| 6.2 Trip Generation .....  | 10        |
| Table 7: Site Generated Trips .....                                  | 10        |
| 6.3 Trip Distribution .....  | 10        |
| 6.4 Full Development Volumes .....                                   | 10        |
| <b>7.0 TRAFFIC OPERATIONS AND ANALYSIS.....</b>                      | <b>11</b> |
| 7.1 Description of Capacity Analysis and Evaluation Techniques ..... | 11        |
| 7.2 Performance Measures.....  | 11        |
| Table 8: Level of Service Criteria .....                             | 11        |
| 7.3 Generalized Acceptable Level of Service Thresholds .....         | 12        |
| 7.4 Capacity Analysis Results .....                                  | 12        |
| Table 9: Capacity Analysis Results .....                             | 13        |
| <b>8.0 CONCLUSIONS AND RECOMMENDATIONS .....</b>                     | <b>15</b> |
| <b>9.0 REFERENCES.....</b>   | <b>16</b> |
| <b>10.0 FIGURES .....</b>  | <b>16</b> |

## **APPENDICES**

- APPENDIX A: EXISTING TRAFFIC COUNT DATA
- APPENDIX B: MISCELLANEOUS CALCULATIONS
- APPENDIX C: LOS CALCULATIONS – EXISTING CONDITIONS
- APPENDIX D: LOS CALCULATIONS – BACKGROUND CONDITIONS
- APPENDIX E: LOS CALCULATIONS – FULL BUILD CONDITIONS

## 1.0 EXECUTIVE SUMMARY

The purpose of this report is to evaluate the potential traffic impacts associated with the proposed residential project located at 2 Thornell Road in the Town of Perinton, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are identified. Mitigating measures—if needed—are provided to minimize capacity or safety concerns. Passero consulted with the Town of Perinton to develop the general scope of work for this study.

To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project. All figures, supporting calculations, and the conceptual site plan are included at the end of this report.

### *Traffic Impact Report Methodology*

This comprehensive Traffic Impact Report provides the Town of Perinton, the New York State Department of Transportation (NYSDOT), the Monroe County Department of Transportation (MCDOT), and other involved and interested agencies with detailed information allowing for a “hard look” of potential traffic impacts.

This study was completed in accordance with the procedures of the New York State Environmental Quality Review Act (SEQRA), the NYSDOT, the MCDOT, the Institute of Transportation Engineers (ITE), and local requirements. SEQRA assumes that a project generating fewer than 100 peak hour vehicle trips per day will not result in any significant increases in traffic.

### *Project Location, Description, and Study Area*

The site's address is 2 Thornell Road. Currently, the site is occupied by an existing building at the southeast corner of NY-96 and Thornell Road. Another vacant housing structure is present along NY-96. Vicinity land uses include residential, commercial, and service.

The project entails constructing 30 units of single-family attached housing in five separate buildings. Access is proposed via the existing Thornell Road driveway and along NY-96. The NY-96 access will be consolidated with the adjacent small business owner pending agreements between the property owners.

The Town of Perinton selected the following existing intersections to ensure a comprehensive analysis of potential traffic impacts based on the peak hours of trip generation.

- NY-96 at Thornell Road
- NY-96 at Marsh Road
- NY-96 at Kreag Road

### *Findings and Recommendations*

This report identified and evaluated the potential traffic impacts that can be expected from the proposed residential project. The primary conclusion of this comprehensive study is that the existing transportation network can adequately accommodate the projected traffic volumes and minor impacts to study area intersections.

As noted, this project will generate 17 or fewer peak hour trips. All movements generally operate at an acceptable LOS D or better under all conditions during the peak hours at the study intersections.

Pursuant to SEQRA, this detailed analysis conducted with respect to nationally and locally accepted standards demonstrates that the proposed project does not result in any significant adverse traffic impacts.

## 2.0 INTRODUCTION

### 2.1 Study Purpose and Objectives

The purpose of this report is to evaluate the potential traffic impacts associated with the proposed residential project located at 2 Thornell Road in the Town of Perinton, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are identified. Mitigating measures—if needed—are provided to minimize capacity or safety concerns. Passero consulted with the Town of Perinton to develop the general scope of work for this study.

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### 2.2 Traffic Impact Report Methodology

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### 2.3 Project Location

The site's address is 2 Thornell Road. Currently, the site is occupied by an existing building at the southeast corner of NY-96 and Thornell Road. Another vacant housing structure is present along NY-96. Vicinity land uses include residential, commercial, and service. The site boundaries are:

- (North) NY-96
- (East) Small office development
- (South) Residential
- (West) Thornell Road

### 2.4 Study Area

The Town of Perinton selected the following existing intersections to ensure a comprehensive analysis of potential traffic impacts based on the peak hours of trip generation. **Figure 1** illustrates the study area and project location.

- NY-96 at Thornell Road
- NY-96 at Marsh Road
- NY-96 at Kreag Road

## 3.0 TRANSPORTATION SETTING

### 3.1 Description of Study Area Roadways

The information outlined in **Table 1** provides a description of the existing roadway network within the study area. The Annual Average Daily Traffic (AADT), in vehicles per day (vpd), reflect the most recently collected data obtained from the NYSDOT or Passero via an extrapolation of traffic counts performed at the study intersections.

Functional classification (FC) of roadways, determined by NYSDOT and the Federal Highway Administration (FHWA), organizes roads, streets, and highways into classes based on their usage. The study area includes the following functional classifications: **Urban Principal Arterial Other (Class 14)**, and **Urban Minor Arterial (Class 16)**.

**Table 1: Existing Roadway Network**

| ROADWAY               | FC | AGENCY | ROADWAY CONDITIONS |       |            |                | AADT   |        |      |
|-----------------------|----|--------|--------------------|-------|------------|----------------|--------|--------|------|
|                       |    |        | SPEED              | LANES | LANE WIDTH | SHOULDER WIDTH | VOLUME | SOURCE | YEAR |
| NY-96                 | 16 | NYSDOT | 30-55              | 2     | 11         | 5-6            | 16,369 | NYSDOT | 2022 |
| Thornell Road (CR-33) | 17 | MCDOT  | 35                 | 2     | 11         | 3              | 5,087  | NYSDOT | 2022 |
| Marsh Road (CR-38)    | 17 | MCDOT  | 35                 | 2     | 10-11      | 3-4            | 3,405  | NYSDOT | 2024 |
| Kreag Road (CR-27)    | 16 | MCDOT  | 35                 | 2     | 11         | 4-5            | 7,942  | NYSDOT | 2023 |

Speeds shown in miles per hour. Widths shown in feet.

**Table 2** summarizes the traffic controls, pedestrian, bicycle, and transit accommodations at the study intersections.

**Table 2: Multimodal Network**

| INTERSECTION           | TRAFFIC CONTROL | PEDESTRIAN |            |            | BICYCLE |                    | OTHER   |          |
|------------------------|-----------------|------------|------------|------------|---------|--------------------|---------|----------|
|                        |                 | SIDE-WALK  | CROSS-WALK | PED SIGNAL | LANE    | OTHER              | TRANSIT | LIGHTING |
| NY-96 at Thornell Road | Stop            | P          | P          | N          | N       | In-lane / Shoulder | N       | Y        |
| NY-96 at Marsh Road    | Signal          | F          | F          | Y          | N       | In-lane / Shoulder | N       | Y        |
| NY-96 at Kreag Road    | Signal          | F          | P          | Y          | N       | In-lane / Shoulder | N       | Y        |

Note: F = Fully, P = Partial, Y = Yes, N = Not Present

### 3.2 Planned / Programmed Roadway Improvements

Passero reviewed the NYSDOT *Projects in Your Neighborhood* web portal. One project was identified:

- **NYSDOT PIN 449016:** This project will replace the bridges carrying I-490 over the Erie Canal and Kreag Road in the Town of Perinton, Monroe County. The eastbound I-490 off and on-ramps are closed until later in 2025.

## 4.0 EXISTING CONDITIONS ANALYSIS

### 4.1 Peak Intervals for Analysis

Given the functional characteristics of the corridors, adjacent land uses, and the proposed land uses, the following peak periods were selected for analysis. The combination of future site traffic and adjacent street traffic produces the greatest travel demands during these peaks.

- Weekday AM Peak: 7:00 to 9:00 AM
- Weekday PM Peak: 3:00 to 6:00 PM

### 4.2 Existing Traffic Volume Data

Passero conducted manual turning movement traffic counts on Wednesday, April 2, 2025, to determine peak hour traffic volumes. The turning movement count data was collected on a typical weekday while local schools were in session. No adverse weather conditions impacted the traffic counts. The peak hour traffic periods generally occurred from 8:00 to 9:00 AM and 4:45 to 5:45 PM.

The traffic volumes were reviewed to confirm accuracy, seasonality, and relative balance between intersections. According to the NYSDOT and traffic engineering principles, traffic is typically affected by the seasons of the year with it being lower during the winter months and higher during the summer months. The NYSDOT Seasonal Adjustment Factors are used to remove this seasonal bias by converting the Average Daily Traffic (ADT) from short count data into AADT data—where AADT is the average daily traffic for the entire year.

The factors are grouped into three major groups according to how much the road segments are affected by the seasons of the year. These factor groups follow the suggestions of the Federal Highway Administration (FHWA) *Traffic Monitoring Guide*. **Table 3** describes the categories.

**Table 3: Seasonal Adjustment Categories**

| CATEGORIES               | FACTOR GROUP 30<br>COMMUTER-DOMINATED | FACTOR GROUP 40<br>NON-COMMUTER DOMINATED | FACTOR GROUP 60<br>RECREATIONAL |
|--------------------------|---------------------------------------|---|---------------------------------|
| Traffic Patterns         | Urbanized                             | Suburban                                  | Recreational                    |
| Seasonal Effect          | Minimal                               | Moderate                                  | Extreme                         |
| Coefficient of Variation | Less than 10%                         | 10% to 25%                                | More than 25%                   |

Passero reviewed the latest NYSDOT *Seasonal Adjustment Factors* (2024). The study roadways are Factor Group 30, which is "commuter dominated." The seasonal adjustment factor for April is 1.041, which means traffic counts taken during this month are higher than average yearly traffic. This indicates no seasonal adjustment is required.

**Figure 2** illustrates the existing peak hour traffic volumes for the AM and PM peak hours. The actual differences in traffic volumes can be attributed to temporal variations in traffic volumes, activity related to driveways located in the segments between the study intersections, and traffic disruptions from the NYSDOT road work.

### 4.3 Field Observations

The study intersections were observed during peak intervals to assess current traffic operations. Signal timing and phasing information was obtained from the NYSDOT to determine peak hour phasing plans and phase durations during each interval at the signalized intersections. This information was used to support and/or calibrate the study's capacity analysis models.

#### 4.4 Peak Hour Queue Assessment

This study documented how often the northbound queue lengths at NY-96 and Thornell Road blocked the proposed driveway location. The distance between the Thornell Road stop bar and the proposed driveway centerline is approximately 95 feet—or three to four car lengths using a car spacing distance of 25 feet (including vehicle length and space between vehicles).

The total time in seconds and the percentage of the peak hour vehicles blocked the proposed driveway during each peak hour is shown below. An hour is comprised of 3,600 seconds.

- AM Peak Hour (8:00 to 9:00 AM)
  - Time: 197 seconds
  - Percent of peak: 5.5%
- PM Peak Hour (4:45 to 5:45 PM)
  - Time: 309 seconds
  - Percent of peak: 8.6%

Passero observed drivers occasionally performing rolling stops when approaching NY-96 if gaps in traffic were readily available.

#### 4.5 Sight Distance Evaluation

Passero investigated available sight distances at the proposed access along NY-96. Sight distance is provided at intersections to allow drivers to perceive the presence of potentially conflicting vehicles. This should occur in sufficient time for a motorist to stop or adjust their speed, as appropriate, to avoid a collision at the intersection. Sight distance is also provided at intersections to allow the drivers of stopped vehicles to have a sufficient view of the intersecting highway to anticipate and avoid potential incidents.

If the available sight distance for an entering or crossing vehicle is at least equal to the appropriate Stopping Sight Distance (SSD) for the major road, then drivers have sufficient sight distance to anticipate and avoid collisions. To enhance traffic operations, Intersection Sight Distances (ISD) that exceed that exceed SSD are desirable along the major road.

Sight distance is evaluated using guidance contained within *A Policy on Geometric Design of Highways and Streets (7<sup>th</sup> Edition)* published by the American Association of State Highway and Transportation Officials (AASHTO) and the NYSDOT *Highway Design Manual* to establish the required SSD and desirable ISD. The recommended sight distances are based on a road's design speed (posted plus 5 mph).

**Table 4: Sight Distance Results**

| CATEGORY                    | DESIGN SPEED | RECOMMENDATION | MEASUREMENTS |          |
|-----------------------------|--------------|----------------|--------------|----------|
|                             |              |                | To Left      | To Right |
| Stopping Sight Distance     | 35 mph       | 250'           | 300'         | >500'    |
|                             |              |                | To Left      | To Right |
| Intersection Sight Distance | 35 mph       | 390'           | 340'         | >500'    |
|                             |              |                |              |          |

Sight distance is limited to the left. Passero recommends intersection warning signage (W2-2) be installed for eastbound traffic entering Bushnell's Basin. Any signage should not conflict with adjacent signage and not obstruct the views at the NY-96 and Thornell Road intersection.

#### 4.6 Existing Crash Investigation

The Federal Highway Administration (FHWA) and local agencies, such as NYSDOT, have adopted the Safe Systems Approach to roadway safety. This approach prioritizes the elimination of crashes that result in death and serious injuries. The safety evaluation process follows three general components: identification of safety problems, development of potential safety strategies, and selection and implementation of strategies.

Intersections are evaluated using the Potential for Safety Improvement (PSI) and Safety Performance Function (SPF) methodology described in the latest American Association of State Highway Transportation Officials (AASHTO) *Highway Safety Manual* (2010), FHWA *Road Safety Fundamentals* (2017), NYSDOT *Yellow Book* (2023), and NYSDOT *Red Book* (2023). The accompanying SPF worksheet can be obtained from the NYSDOT Crash Analysis Toolbox. NYSDOT defines PSI and SPF as:

- **Potential for Safety Improvement (PSI)** A comparison of the site-specific safety performance compared to the statewide average using either observed or expected crashes depending on whether traffic volume is available.
- **Safety Performance Function (SPF)** An equation used to estimate or predict the average crash frequency per year at a location as a function of traffic volume and, in some cases, roadway or intersection characteristics (e.g., number of lanes, traffic control, or type of median).

To support this effort on a site-level scale, Passero obtained crash history data using MV-104 Police Accident Reports provided by the NYSDOT *Crash Location & Engineering Analysis & Reporting (CLEAR)* database from 06/30/2019 to 06/30/2024.

**Table 5** provides a summary of the crashes that occurred within the study area and resulting PSI. SPF Prediction, Expected Crashes, and Excess Expected Crashes are shown as crashes per year. NYSDOT suggests that intersections with positive values under Excess Expected Crashes per year greater than 5.0000 for total crashes and 1.0000, with a high Level of Service of Safety (LOSS) should be evaluated further for potential safety improvements.

**Table 5: Intersection Crash Rate Analysis**

| INTERSECTION           | CRASHES |        | SPF PREDICTION |        | EXPECTED CRASHES |        | EXCESS EXPECTED CRASHES |         | LOSS  |        |
|------------------------|---------|--------|----------------|--------|------------------|--------|-------------------------|---------|-------|--------|
|                        | TOTAL   | INJURY | TOTAL          | INJURY | TOTAL            | INJURY | TOTAL                   | INJURY  | TOTAL | INJURY |
| NY-96 at Thornell Road | 12      | 1      | 2.1437         | 0.7016 | 2.3683           | 0.3307 | 0.2246                  | -0.3709 | 3     | 2      |

LOSS is the ranking of sites according to their observed and expected crash frequency for the entire population, where the degree of deviation is then labeled into four classes of level of service. LOSS 1 = Indicates a low potential for crash reduction. LOSS 2 = Indicates a low to moderate potential for crash reduction. LOSS 3 = Indicates a moderate to high potential for crash reduction. LOSS 4 = Indicates a high potential for crash reduction.

Three of the crashes were single-vehicle incidents involving drivers who collided with fixed objects. The remaining crashes occurred predominantly in the northbound direction from Thornell Road and included: three rear-end collisions; one westbound left-turn crash; a crash involving a vehicle performing a U-turn; a conflict in which a northbound vehicle turned right in front of another vehicle simultaneously turning from Thornell Road; and a sideswipe incident in the northbound direction. Additionally, one low-speed crash occurred when a driver rolled backward into a vehicle on Thornell Road after their foot slipped off the brake pedal.

The primary contributing factors across these crashes were driver inattention and failure to yield the right of way. Of the reported incidents, only the left-turn crash resulted in a minor injury.

#### **4.7 Traffic Gap Assessment**

A gap acceptance study was conducted at the proposed access along NY-96 to determine the availability of gaps for drivers to enter the driveway (left turns from NY-96) and exit the driveway (left and right turns onto NY-96). For unsignalized intersections such as this, gap availability can be used as a surrogate methodology for evaluating the ability of side road traffic to enter and exit the fronting traffic stream.

The availability of gaps within the traffic stream primarily determines the side road driver behavior and delay for both entering and exiting motorists. A gap study counts the actual gaps in existing traffic available for a vehicle to enter or exit the side road. The difference between the actual number of gaps and the projected demand for a particular traffic movement can then be calculated as a reserve or deficit capacity.

The latest *Highway Capacity Manual (7<sup>th</sup> Edition)* provides data relative to gap sizes that motorists find acceptable to execute the required maneuver. Passero collected existing traffic gap data during the study periods to evaluate existing and potential future operating conditions. **Table 6** summarizes the applicable movement, acceptable gap duration, and the existing gaps during the peak hours.

**Table 6: Gap Acceptance Results**

| MOVEMENT            | GAP DURATION<br>(SECONDS) | AM PEAK<br>HOUR | PM PEAK<br>HOUR |
|---------------------|---------------------------|-----------------|-----------------|
| Left from NY-96     | 4.1                       | 590             | 532             |
| Left from Driveway  | 7.1                       | 59              | 37              |
| Right from Driveway | 6.2                       | 307             | 254             |

## **5.0 BACKGROUND (NO BUILD) CONDITIONS**

Background traffic volumes represent the traffic conditions during the proposed build year without development of the project. The project is anticipated to be completed and occupied within five years depending on project approvals and market conditions. The widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Projects that are contemplated but are not yet approved are not included in the traffic impact study.

Passero consulted with personnel from the Town of Perinton to identify any additional development projects that could potentially contribute to increased traffic within the study area. Although no approved projects in the immediate vicinity were identified, Town staff noted that a redevelopment proposal for the former Burgundy Basin Inn site is currently under review by Town boards. At this time, there is no indication that the proposal will be approved.

A review of available historical NYSDOT traffic volume data in the vicinity of the site indicates that traffic has fluctuated between 2014 and 2024. Passero also reviewed the latest MCDOT *Monroe County Vehicle Traffic Volume Trends (2024)* memo, which recommends an annual growth rate of 1.0% per year for the Town of Perinton. This is largely based on county road data.

To account for normal increases in background traffic growth, including the noted development and any unforeseen developments in the study area, an adjusted growth rate of 1.0% per year was applied to the existing traffic volumes for a duration of five years. **Figure 3** depicts the background traffic volumes.

## 6.0 PROPOSED DEVELOPMENT CONDITIONS

### 6.1 Project Description

The project entails constructing 30 units of single-family attached housing in five separate buildings. Access is proposed via the existing Thornell Road driveway and along NY-96. The NY-96 access will be consolidated with the adjacent small business owner pending agreements between the property owners.

### 6.2 Trip Generation

The traffic volume generated by a site depends on the development's land use and size. Trip generation estimates the number of trips associated with a specific land use or building, representing the volume of traffic entering and exiting the site. The peak-hour trip rate for the site may differ in timing or volume from the peak hour of traffic on adjacent streets. The latest ITE *Trip Generation Manual (11<sup>th</sup> Edition)* is the industry standard reference for this information.

For capacity analysis, the critical volumes are those generated during the weekday AM and PM peak hours of the adjacent street traffic and proposed land use. These intervals form the basis of this analysis. **Table 7** shows the anticipated trip generation.

**Table 7: Site Generated Trips**

| DESCRIPTION | SOURCE  | SIZE | UNIT | AM PEAK HOUR |      |       | PM PEAK HOUR |      |       |
|-------------|---------|------|------|--------------|------|-------|--------------|------|-------|
|             |         |      |      | ENTER        | EXIT | TOTAL | ENTER        | EXIT | TOTAL |
| Residential | ITE 215 | 30   | DU   | 4            | 10   | 14    | 10           | 7    | 17    |

### 6.3 Trip Distribution

The cumulative effect of site generated traffic on the transportation network is dependent on the origins and destinations of that traffic and the location of the access drives serving the site. The proposed arrival and departure distribution of traffic generated by the proposed project is considered a function of several parameters, including:

- Employment areas using Longitudinal Employer-Household Dynamics (LODES) data from the U.S. Census.
- Proximity and access to main roadways (e.g., I-490, NY-31).
- Proximity and access to activity centers (e.g., Village of Pittsford, NY-31 Wegmans, schools, etc.)
- Site access locations
- Existing roadway network and contextual factors.
- Navigational aids (e.g., Google Maps, Apple Maps, Waze, etc.).
- Existing traffic patterns derived from the traffic counts.
- Existing traffic conditions and controls.

**Figure 4** shows the anticipated trip distribution pattern percentage for the project site. **Figure 5** illustrates the total peak hour trip assignments based on the anticipated trip distribution.

### 6.4 Full Development Volumes

The proposed future traffic volumes are developed for the peak hours by combining the background traffic conditions without the project (**Figure 3**) and the new site trips (**Figure 5**) to yield the traffic volumes under full build conditions. **Figure 6** illustrates the total anticipated full build peak hour volumes for the AM and PM peak hours.

## 7.0 TRAFFIC OPERATIONS AND ANALYSIS

### 7.1 Description of Capacity Analysis and Evaluation Techniques

Capacity analysis is a technique used for determining a measure of effectiveness for a section of roadway and/or intersection based on the number of vehicles during a specific period of time. The measure of effectiveness used for the capacity analysis is referred to as a Level of Service (LOS). Levels of service are calculated to provide an indication of the amount of delay that a motorist experiences while traveling along a roadway or through an intersection. Since the most amount of delay to motorists usually occurs at intersections, capacity analysis focuses on intersections, as opposed to roadway/highway segments.

The standard procedure for capacity analysis of signalized and unsignalized intersections is outlined in the latest Transportation Research Board (TRB) *Highway Capacity Manual (HCM)* (7<sup>th</sup> Edition). Traffic analysis software, *Synchro* 12, which is based on procedures and methodologies contained in the HCM, was used to analyze operating conditions at study area intersections. The procedure yields a LOS based on the HCM as an indicator of how well intersections operate.

Evaluations may also be supplemented with traffic simulation modeling using an extension of *Synchro* called *SimTraffic*. During simulation modeling, vehicles are individually tracked, and statistics are recorded on a second-by-second basis to determine the delays each vehicle experiences. Since *SimTraffic* simulation modeling is microscopic and stochastic, meaning car movement parameters vary randomly within a set distribution based on an initial seed number, the same traffic volume may result in slightly different results depending on the random seed used. Therefore, simulation results are reported based on an average value of multiple simulation runs (five or more) to reduce the variability in results.

### 7.2 Performance Measures

Six levels of service are defined for analysis purposes. They are assigned letter designations, from A to F, with LOS A representing the conditions with little to no delay, and LOS F conditions with very long delays. **Table 8** depicts LOS criteria for signalized and unsignalized intersections with their associated average delays per vehicle in seconds.

**Table 8: Level of Service Criteria**

| LOS | SIGNALIZED CONTROL | UN SIGNALIZED CONTROL |
|-----|--------------------|-----------------------|
| A   | < 10               | < 10                  |
| B   | 10 – 20            | 10 – 15               |
| C   | 20 – 35            | 15 – 25               |
| D   | 35 – 55            | 25 – 35               |
| E   | 55 – 80            | 35 – 50               |
| F   | > 80               | > 50                  |

Signalized intersection LOS is defined in terms of the average total vehicle delay of individual and all movements through an intersection for a 15-minute analysis period. The total delay experienced by a road user can be defined as the difference between the measured travel time and the reference travel time that would result in the absence of traffic control, changes in speed due to geometric conditions, any incidents, and the interaction with any other road users (adapted from the HCM definition).

LOS criteria for unsignalized intersections differ from those for signalized intersections. This is primarily due to driver expectations—signalized intersections are designed to accommodate higher traffic volumes, while unsignalized intersections introduce more uncertainty for users. Delays at unsignalized intersections are generally less predictable compared to signalized intersections, where traffic control provides more consistent operations.

The volume-to-capacity (v/c) ratio, also referred to as degree of saturation, represents the sufficiency of an intersection movement or the overall intersection to accommodate the vehicular demand. A v/c ratio less than 0.85 generally indicates that adequate capacity is available, and vehicles are not expected to experience significant queues and delays. As the v/c ratio approaches 1.0, traffic flow may become unstable, and delay and queuing conditions may occur.

### 7.3 Generalized Acceptable Level of Service Thresholds

In accordance with common transportation engineering practice in conjunction with NYSDOT, ITE, and SEQRA methodologies, a project may have a noticeable impact if the addition of peak hour trips would increase traffic volumes by 100 vehicles or more.<sup>1</sup> Permitting agencies (e.g., NYSDOT and the SEQRA process) use guidelines in determining whether a project may result in a change in vehicular operations—noticeable drop in LOS, increase in delays, or increase in v/c ratios—and potentially requires appropriate mitigation to offset project-related impacts. SEQRA requires the lead agency to identify an impact as either “none/small impact” or “moderate to large impact.”

LOS C or better is desirable, but LOS D for signalized locations and LOS E for unsignalized locations are generally thresholds of acceptable operation during peak periods so long as the v/c ratio is below 1.0. NYSDOT specifically considers a LOS C to be acceptable in rural conditions and a LOS D to be acceptable in urban conditions.

SEQRA guidelines and recommended practice indicate that a project generating fewer than 100 peak hour vehicle trips per day is unlikely to result in significant adverse impacts. In general, traffic volume increases less than these thresholds could be attributed to the fluctuation of vehicles due to driver patterns that occur during the day, on different days of the week, or different months of the year.

### 7.4 Capacity Analysis Results

Existing and background operating conditions during the peak study periods are evaluated to determine a basis for comparison with the projected future conditions. The future traffic conditions generated by the project were analyzed to assess the operation of the study area intersections. **Table 9** depicts the capacity results for existing, background, and full build conditions. The discussion following the table summarizes capacity conditions.

<sup>1</sup> *Multimodal Transportation Impact Analysis for Site Development: An ITE Recommended Practice*. Institute of Transportation Engineers. Washington DC. 2023.

**Table 9: Capacity Analysis Results**

| INTERSECTION                                   | 2025 EXISTING CONDITIONS |       |      |     |       |      | 2030 BACKGROUND CONDITIONS |       |      |     |       |      | 2030 FULL BUILD CONDITIONS |       |      |     |       |      |
|--|--------------------------|-------|------|-----|-------|------|----------------------------|-------|------|-----|-------|------|----------------------------|-------|------|-----|-------|------|
|  | AM                       |       |      | PM  |       |      | AM                         |       |      | PM  |       |      | AM                         |       |      | PM  |       |      |
|  | LOS                      | Delay | v/c  | LOS | Delay | v/c  | LOS                        | Delay | v/c  | LOS | Delay | v/c  | LOS                        | Delay | v/c  | LOS | Delay | v/c  |
| <b>1. Thornell Road at Proposed Access (U)</b> |                          |       |      |     |       |      |                            |       |      |     |       |      |                            |       |      |     |       |      |
| WB - Proposed Access                           |                          |       |      |     |       |      |                            |       |      |     |       |      | B                          | 11.5  | 0.00 | B   | 11.6  | 0.00 |
| SB - Thornell Road                             |                          |       |      |     |       |      |                            |       |      |     |       |      | A                          | 0.0   | 0.00 | A   | 7.9   | 0.00 |
| <b>2. NY-96 at Thornell Road (U)</b>           |                          |       |      |     |       |      |                            |       |      |     |       |      |                            |       |      |     |       |      |
| EB - NY-96                                     | A                        | 1.4   | 0.00 | A   | 1.8   | 0.00 | A                          | 1.4   | 0.00 | A   | 1.8   | 0.00 | A                          | 1.5   | 0.00 | A   | 1.9   | 0.00 |
| WB Left - NY-96                                | A                        | 4.2   | 0.18 | A   | 6.9   | 0.32 | A                          | 4.7   | 0.19 | A   | 6.9   | 0.34 | A                          | 5.7   | 0.19 | A   | 9.4   | 0.35 |
| WB Thru - NY-96                                | A                        | 3.6   | 0.00 | A   | 4.1   | 0.00 | A                          | 3.8   | 0.00 | A   | 4.1   | 0.00 | A                          | 3.2   | 0.00 | A   | 1.7   | 0.00 |
| NB Left - Thornell Road                        | D                        | 25.3  | 0.33 | E   | 43.6  | 0.47 | D                          | 27.6  | 0.39 | E   | 43.6  | 0.59 | D                          | 26.7  | 0.40 | E   | 48.0  | 0.62 |
| NB Right - Thornell Road                       | A                        | 8.7   | 0.46 | B   | 12.0  | 0.65 | A                          | 9.5   | 0.49 | B   | 12.0  | 0.72 | A                          | 7.3   | 0.49 | A   | 9.8   | 0.72 |
| <b>3. NY-96 at Proposed Access (U)</b>         |                          |       |      |     |       |      |                            |       |      |     |       |      |                            |       |      |     |       |      |
| WB - NY-96                                     |                          |       |      |     |       |      |                            |       |      |     |       |      | A                          | 9.1   | 0.00 | A   | 9.5   | 0.01 |
| NB - Proposed Access                           |                          |       |      |     |       |      |                            |       |      |     |       |      | C                          | 19.5  | 0.03 | C   | 21.2  | 0.02 |
| <b>4. NY-96 at Marsh Road (S)</b>              |                          |       |      |     |       |      |                            |       |      |     |       |      |                            |       |      |     |       |      |
| EB Left - NY-96                                | A                        | 3.7   | 0.11 | A   | 5.2   | 0.20 | A                          | 3.9   | 0.13 | A   | 5.8   | 0.23 | A                          | 3.9   | 0.13 | A   | 5.9   | 0.23 |
| EB Thru/Right - NY-96                          | A                        | 6.8   | 0.45 | B   | 12.8  | 0.57 | A                          | 7.2   | 0.48 | B   | 13.9  | 0.60 | A                          | 7.3   | 0.48 | B   | 14.0  | 0.60 |
| WB Left - NY-96                                | A                        | 2.5   | 0.03 | A   | 6.6   | 0.14 | A                          | 2.6   | 0.03 | A   | 7.2   | 0.16 | A                          | 2.6   | 0.03 | A   | 7.2   | 0.16 |
| WB Thru/Right - NY-96                          | A                        | 9.0   | 0.66 | C   | 20.7  | 0.77 | B                          | 10.4  | 0.69 | C   | 23.7  | 0.82 | B                          | 10.5  | 0.70 | C   | 23.9  | 0.82 |
| NB Left/Thru - Plaza                           | C                        | 32.7  | 0.92 | D   | 42.6  | 0.44 | C                          | 32.7  | 0.02 | D   | 42.5  | 0.46 | C                          | 32.7  | 0.02 | D   | 42.5  | 0.46 |
| NB Right - Plaza                               | A                        | 0.2   | 0.03 | A   | 6.6   | 0.23 | A                          | 0.2   | 0.03 | A   | 7.0   | 0.24 | A                          | 0.2   | 0.03 | A   | 7.0   | 0.24 |
| SB Left/Thru - Marsh Road                      | D                        | 44.8  | 0.46 | D   | 47.3  | 0.55 | D                          | 45.0  | 0.47 | D   | 47.6  | 0.56 | D                          | 45.0  | 0.47 | D   | 47.6  | 0.56 |
| SB Right - Marsh Road                          | A                        | 7.1   | 0.24 | A   | 9.4   | 0.28 | A                          | 7.7   | 0.25 | A   | 9.8   | 0.29 | A                          | 7.7   | 0.25 | A   | 10.0  | 0.29 |
| Overall LOS                                    | A                        | 9.5   | 0.66 | B   | 18.3  | 0.77 | B                          | 10.4  | 0.69 | C   | 20.1  | 0.82 | B                          | 10.4  | 0.70 | C   | 20.3  | 0.82 |
| <b>5. NY-96 at Kreag Road (S)</b>              |                          |       |      |     |       |      |                            |       |      |     |       |      |                            |       |      |     |       |      |
| EB - Bruegger's                                | C                        | 20.8  | 0.23 | C   | 31.6  | 0.04 | C                          | 20.6  | 0.23 | C   | 31.1  | 0.04 | C                          | 20.6  | 0.23 | C   | 31.1  | 0.04 |
| WB Left/Thru - Kreag Road                      | D                        | 47.0  | 0.65 | D   | 53.4  | 0.63 | D                          | 46.4  | 0.65 | D   | 53.3  | 0.64 | D                          | 46.4  | 0.65 | D   | 53.3  | 0.64 |
| WB Right - Kreag Road                          | B                        | 11.3  | 0.37 | B   | 18.4  | 0.51 | B                          | 12.6  | 0.38 | B   | 19.3  | 0.53 | B                          | 12.7  | 0.38 | B   | 19.4  | 0.53 |
| NB Left - NY 96                                | A                        | 6.8   | 0.03 | A   | 6.0   | 0.01 | A                          | 7.2   | 0.03 | A   | 6.5   | 0.01 | A                          | 7.2   | 0.03 | A   | 6.5   | 0.01 |
| NB Thru - NY-96                                | C                        | 22.8  | 0.63 | C   | 24.1  | 0.70 | C                          | 25.3  | 0.68 | C   | 27.2  | 0.75 | C                          | 25.5  | 0.69 | C   | 27.5  | 0.76 |
| NB Right - NY 96                               | A                        | 7.7   | 0.26 | A   | 8.0   | 0.27 | A                          | 8.5   | 0.28 | A   | 8.8   | 0.29 | A                          | 8.6   | 0.28 | A   | 8.9   | 0.29 |
| SB Left - NY-96                                | B                        | 11.4  | 0.47 | B   | 10.7  | 0.50 | B                          | 14.2  | 0.52 | B   | 15.1  | 0.55 | B                          | 14.5  | 0.52 | B   | 15.6  | 0.55 |
| SB Thru/Right - NY-96                          | A                        | 7.8   | 0.34 | A   | 3.3   | 0.36 | A                          | 8.5   | 0.36 | A   | 3.4   | 0.38 | A                          | 8.6   | 0.37 | A   | 3.4   | 0.38 |
| Overall LOS                                    | B                        | 16.7  | 0.65 | B   | 16.3  | 0.70 | B                          | 18.2  | 0.68 | B   | 18.2  | 0.75 | B                          | 18.3  | 0.69 | B   | 18.3  | 0.76 |

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

N/A = Approach does not exist and/or was not analyzed during this condition

## 1. Thornell Road / Proposed Access

All movements are projected to operate at LOS B or better under full build conditions during both peak hours. As noted, northbound queues will occasionally block the driveway at times during the AM and PM peak hours. However, given the very low trips using the driveway, there will be sufficient opportunities for drivers to enter and exit the site at this location without impeding prevailing traffic and spilling back into the adjacent intersection at NY-96. No improvements are recommended.

## 2. NY-96 / Thornell Road

The northbound left movement operates at LOS D during the AM peak hour and LOS E during the PM peak hour. All other movements operate at LOS B or better during the peak hours. No changes in LOS are projected because of the proposed project. There is adequate capacity to accommodate future site trips; thus, no improvements are recommended.

## 3. NY-96 / Proposed Access

The northbound exiting movement is projected to operate at LOS C under full build conditions during both peak hours. All other movements will operate at LOS A. There are gaps in traffic available for the new trips to enter and exit the driveway. No improvements are recommended.

Although the project site has access via Thornell Road, its access is occasionally blocked during peak travel periods due to queueing. Accordingly, maintaining a second access point along NY-96 is critical for ensuring consistent and dependable ingress and egress to the site. Traffic operations analysis indicates that sufficient gaps in traffic flow along NY-96 are available to accommodate turning movements to and from the site.

Moreover, the developer is actively coordinating with the adjacent property owner to pursue access consolidation, which will result in a net reduction in the number of driveways along the corridor. As part of this collaborative effort, the neighboring property owner has expressed a requirement for full access via NY-96 to support their own operational needs.

Retaining NY-96 access also enhances site accessibility for emergency service providers by ensuring multi-frontage access, which is consistent with best practices for site circulation and emergency response planning.

## 4. NY-96 / Marsh Road

All movements operate at LOS D or better under all conditions during both peak hours. There are moderate delays at times throughout the peak hours; however, there are fewer delays during the remaining hours of the day. No changes in LOS are anticipated between background and full build conditions. There is adequate capacity to accommodate future site trips; thus, no improvements are recommended.

## 5. NY-96 / Kreag Road

All movements operate at LOS D or better under all conditions during both peak hours. There are moderate delays at times throughout the peak hours; however, there are fewer delays during the remaining hours of the day. No changes in LOS are anticipated between background and full build conditions. There is adequate capacity to accommodate future site trips; thus, no improvements are recommended.

## **8.0 CONCLUSIONS AND RECOMMENDATIONS**

This report identified and evaluated the potential traffic impacts that can be expected from the proposed residential project. The primary conclusion of this comprehensive study is that the existing transportation network can adequately accommodate the projected traffic volumes and minor impacts to study area intersections.

NYSDOT, MCDOT, ITE, and SEQRA methodologies suggest that a project may have a noticeable impact if new site trips increase traffic volumes at an intersection by 100 vehicles per hour or more. As noted, this project will generate 17 or fewer peak hour trips. All movements generally operate at an acceptable LOS D or better under all conditions during the peak hours at the study intersections.

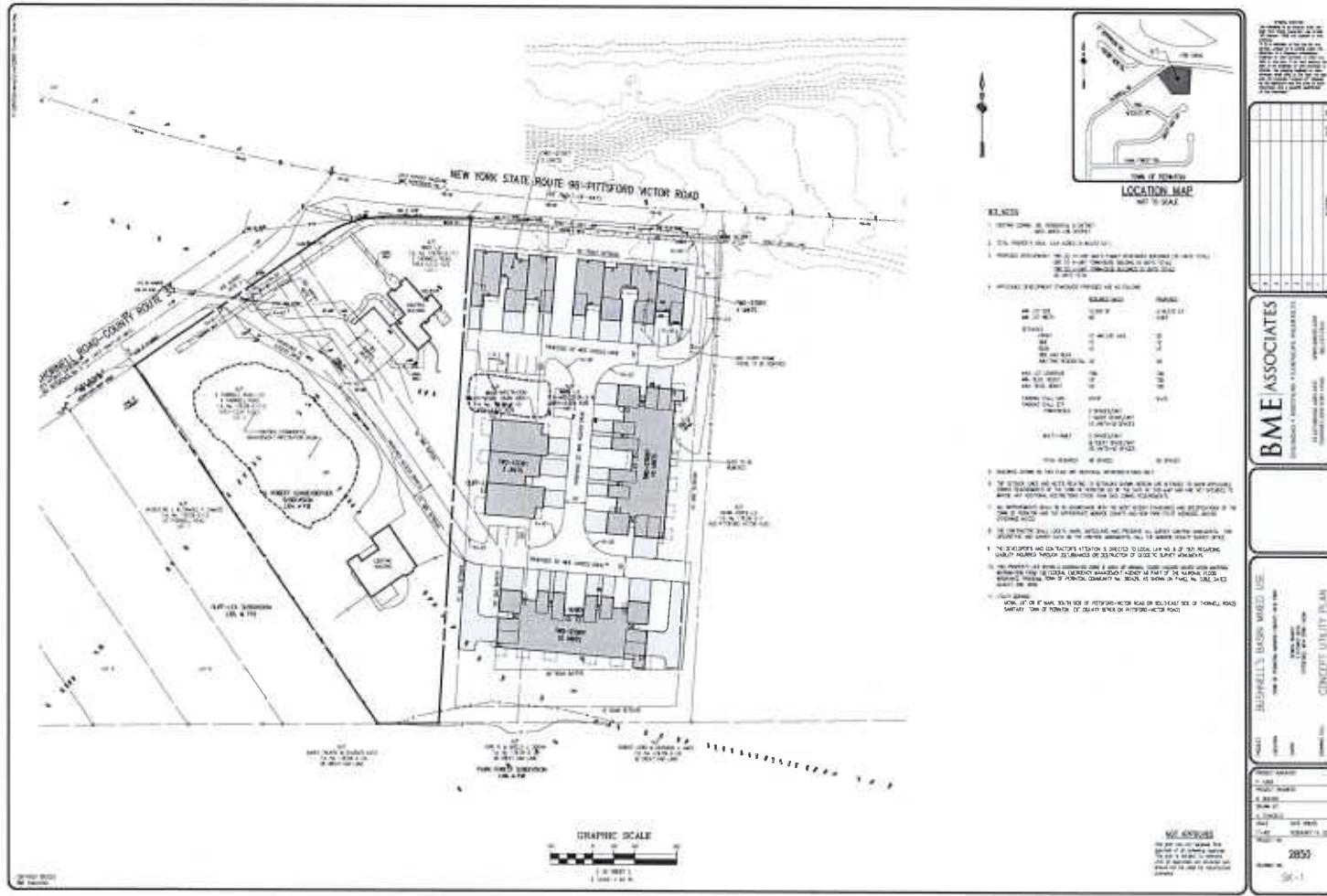
Pursuant to the State Environmental Quality Review Act, this detailed analysis conducted with respect to nationally and locally accepted standards demonstrates that the proposed project does not result in any significant adverse traffic impacts.

## 9.0 REFERENCES

- Synchro 12 Software. Cubic ITS. 2023.
- Highway Capacity Manual (7<sup>th</sup> Edition). Transportation Research Board (TRB). Washington, DC. 2022.
- Trip Generation Manual (11<sup>th</sup> Edition). Institute of Transportation Engineers (ITE). Washington, DC. 2021.
- OnTheMap. United States Census Bureau. 2025.
- Traffic Data Viewer. New York State Department of Transportation (NYSDOT). 2025.
- Manual on Uniform Traffic Control Devices (11<sup>th</sup> Edition). Federal Highway Administration (FHWA). 2023.
- NCHRP Report 279 Intersection Channelization Design Guide. Transportation Research Board (TRB). 1985.
- Highway Functional Classification Concepts, Criteria, and Procedures. Federal Highway Administration (FHWA). 2023.
- Traffic Monitoring Guide. FHWA. 2022.
- Highway Design Manual. New York State Department of Transportation (NYSDOT). Latest Revisions.
- A Policy on Geometric Design of Highways and Streets (7<sup>th</sup> Edition). The American Association of State Highway and Transportation Officials (AASHTO). 2018.
- Monroe County Traffic Volume Trends. Monroe County Department of Transportation. 2024.
- Crash Location and Engineering Analysis Repository (CLEAR). New York State Department of Transportation. 2025.

## 10.0 FIGURES

Figures 1 through 6 are included on the following pages.



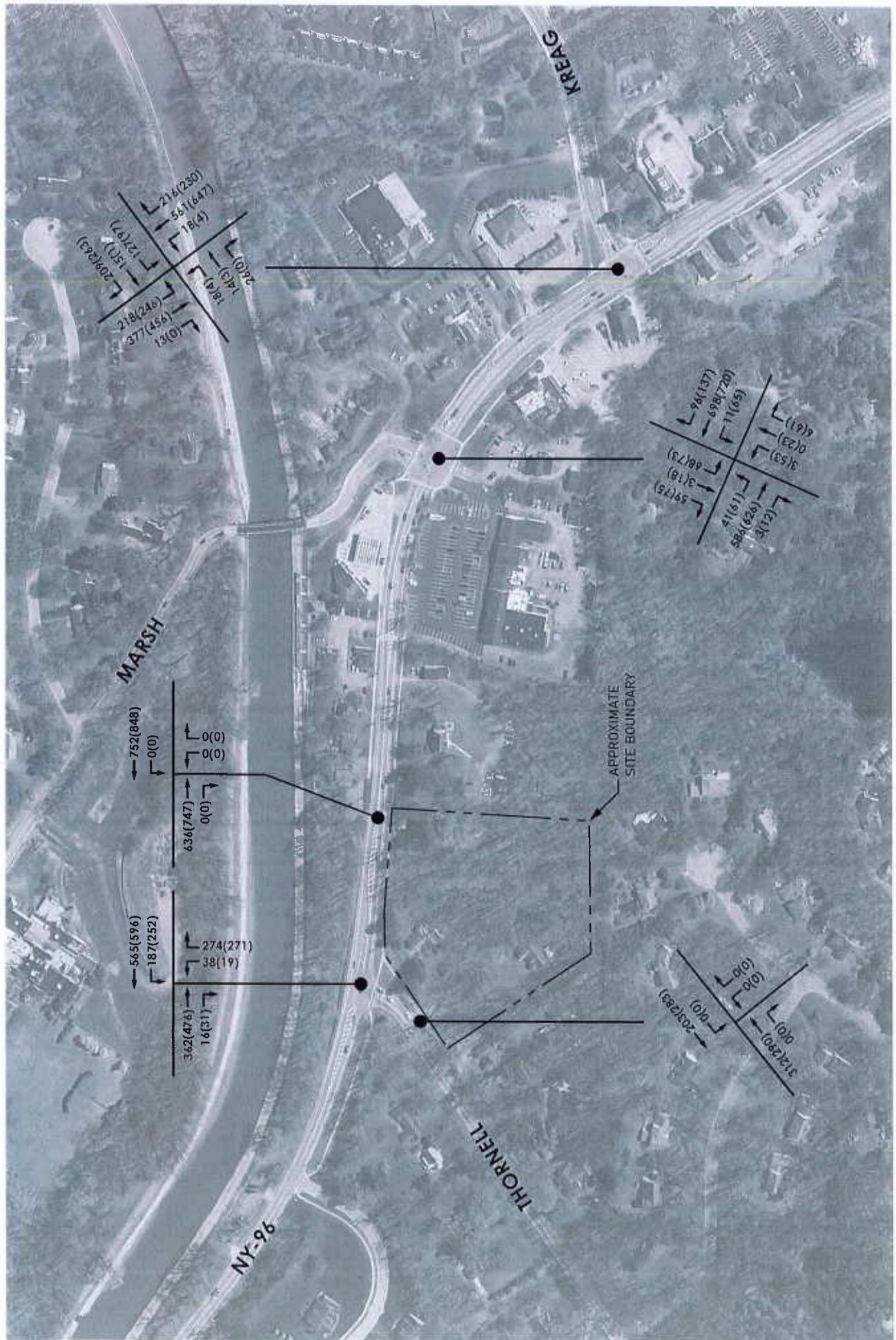


**PASSERO**  
engineering architecture

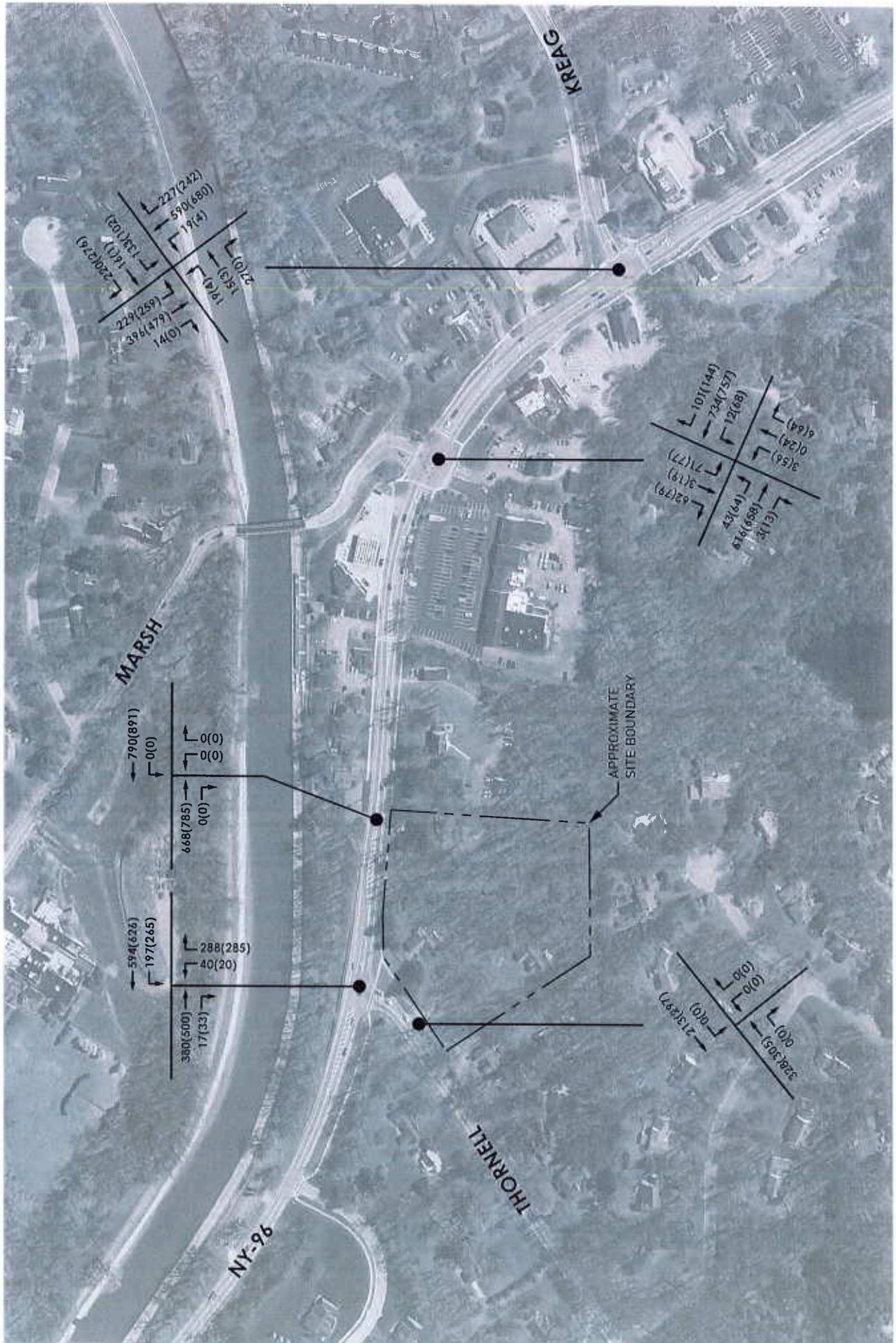
**Study Area and Site Location**

**Hartwell Heights**  
Town of Perinton, NY

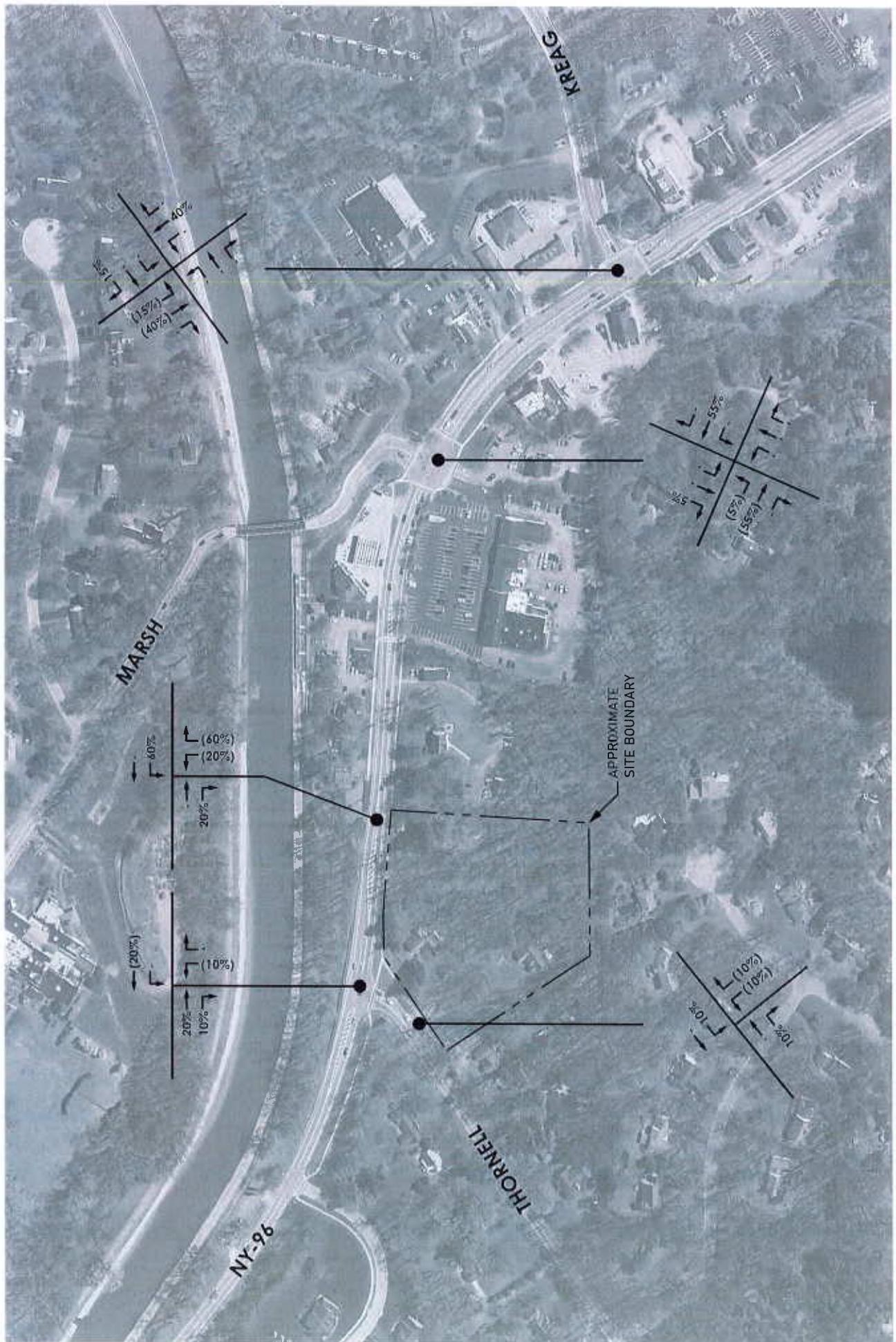
|   |   |
|---|---|
| ④ Existing Intersection                           | N |
| ⑤ Proposed Intersection                           |   |
| Peak hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM |   |
| FIGURE 1  |   |
| PN 20254181.0001                                  |   |



|   |   |                               |
|---|---|-------------------------------|
| <b>PASSEERO</b><br>engineering architecture | #(#) AM(PM)                                       | FIGURE 2<br>PN: 2025-181-0001 |
|   | Peak Hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM |                               |



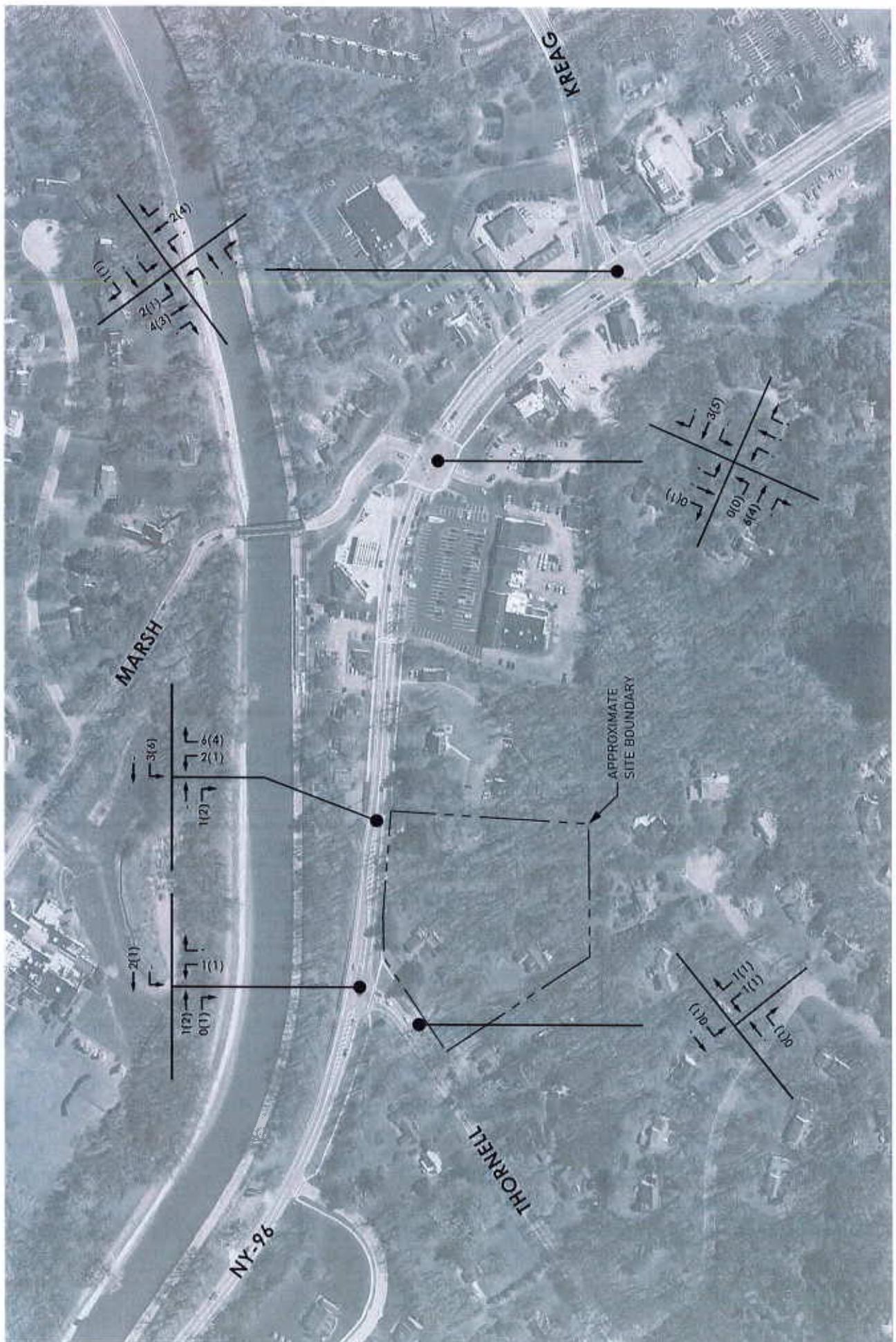
|   |   |                               |
|---|---|-------------------------------|
| <b>PASSERO</b><br>engineering architecture      | Peak Hour Volumes: 2030 Background Conditions     | #(#) AM(PM)                   |
|   | Peak Hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM |                               |
| <b>Hartwell Heights</b><br>Town of Perinton, NY |   |                               |
|   |   | FIGURE 3<br>PH: 20254181/0001 |



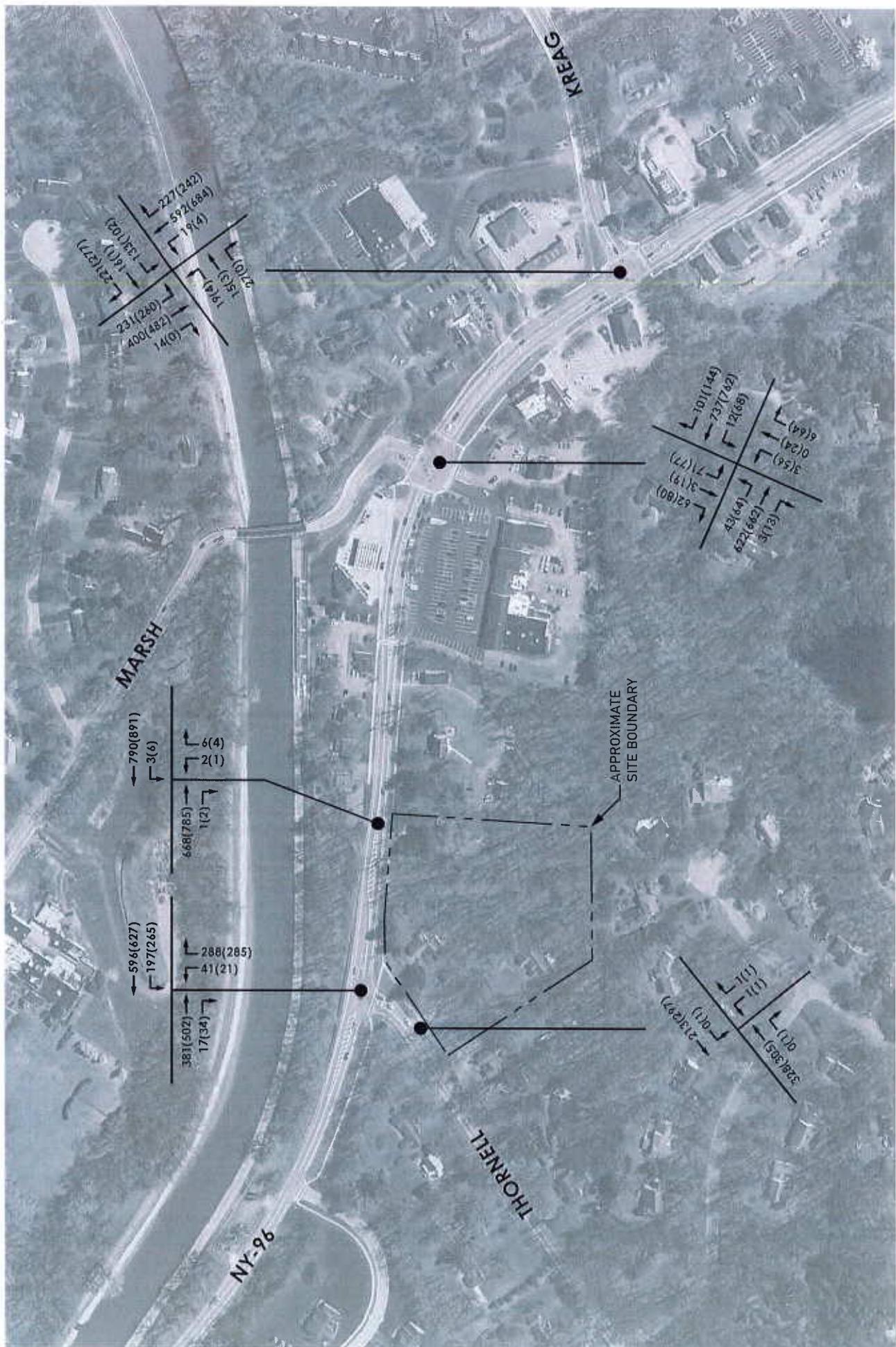
**PASSEERO**  
engineering architecture  
347 West Main Street, Suite 100, Rochester, NY 14614

**Hartwell Heights**  
Town of Perinton, NY

|   |   |
|---|---|
| <b>Trip Distribution</b><br><hr/> <b>Hartwell Heights</b><br>Town of Perinton, NY | <br><b>FIGURE 4</b><br><small>PN: 20254181.0001</small> |
| #(# Inbound (Outbound)<br>Peak Hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM       |   |



|  |   |              |
|--|---|--------------|
| <b>PASSERO</b><br>engineering architecture | Trip Assignment                                   | # (#) AM(PM) |
|  | Peak Hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM |              |
|  | FIGURE 5  | N            |
|  | PN: 20234181.0001                                 |              |



|   |   |                               |
|---|---|-------------------------------|
| <b>PASSERO</b><br>engineering architecture      | Peak Hour Volumes: 2030 Full Build Conditions     | #(#/hr) AM(PM)                |
|   | Peak Hours:<br>8:00 to 9:00 AM<br>4:45 to 5:45 PM |                               |
| <b>Hartwell Heights</b><br>Town of Perinton, NY |   | FIGURE 6<br>PN: 2025418100011 |

# APPENDICES

## **APPENDIX A: EXISTING TRAFFIC COUNT DATA**

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Kreag AM  
Site Code : 00200866  
Start Date : 04/02/2025  
Page No : 1

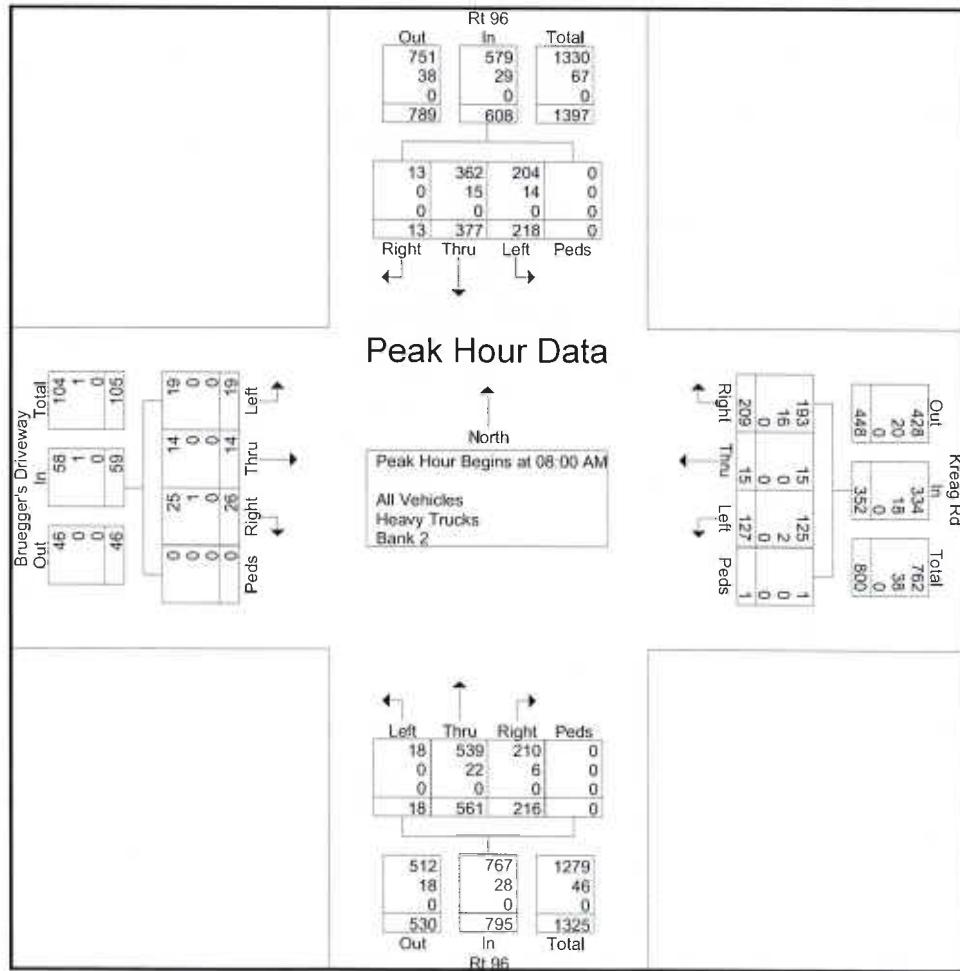
**Groups Printed- All Vehicles - Heavy Trucks - Bank 2**

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Kreag AM  
 Site Code : 00200866  
 Start Date : 04/02/2025  
 Page No : 2

|  | Bruegger's Driveway |      |      |      |           | Kreag Rd   |      |      |      |            | Rt 96     |      |      |      |           | Rt 96      |      |      |      |            | Rt 96     |      |      |      |           |            |
|--|---------------------|------|------|------|-----------|------------|------|------|------|------------|-----------|------|------|------|-----------|------------|------|------|------|------------|-----------|------|------|------|-----------|------------|
|  | Eastbound           |      |      |      | Westbound | Northbound |      |      |      | Southbound | Eastbound |      |      |      | Westbound | Northbound |      |      |      | Southbound | Eastbound |      |      |      | Westbound |            |
| Start Time   | Right               | Thru | Left | Peds | App Total | Right      | Thru | Left | Peds | App Total  | Right     | Thru | Left | Peds | App Total | Right      | Thru | Left | Peds | App Total  | Right     | Thru | Left | Peds | App Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                     |      |      |      |           |            |      |      |      |            |           |      |      |      |           |            |      |      |      |            |           |      |      |      |           |            |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                     |      |      |      |           |            |      |      |      |            |           |      |      |      |           |            |      |      |      |            |           |      |      |      |           |            |
| 08:00 AM   | 6                   | 0    | 5    | 0    | 11        | 49         | 6    | 33   | 1    | 89         | 54        | 112  | 5    | 0    | 171       | 4          | 79   | 57   | 0    | 140        | 0         | 140  | 0    | 411  |           |            |
| 08:15 AM   | 8                   | 7    | 6    | 0    | 21        | 64         | 4    | 33   | 0    | 101        | 73        | 136  | 3    | 0    | 212       | 4          | 96   | 46   | 0    | 146        | 0         | 146  | 0    | 480  |           |            |
| 08:30 AM   | 4                   | 5    | 1    | 0    | 10        | 40         | 3    | 31   | 0    | 74         | 54        | 146  | 5    | 0    | 205       | 1          | 96   | 54   | 0    | 151        | 0         | 151  | 0    | 440  |           |            |
| 08:45 AM   | 8                   | 2    | 7    | 0    | 17        | 56         | 2    | 30   | 0    | 88         | 35        | 167  | 5    | 0    | 207       | 4          | 106  | 61   | 0    | 171        | 0         | 171  | 0    | 483  |           |            |
| Total Volume   | 26                  | 14   | 19   | 0    | 59        | 209        | 15   | 127  | 1    | 352        | 216       | 561  | 18   | 0    | 795       | 13         | 377  | 218  | 0    | 608        | 0         | 608  | 0    | 1814 |           |            |
| % App. Total   | 44.1                | 23.7 | 32.2 | 0    |           | 59.4       | 4.3  | 36.1 | 0.3  |            | 27.2      | 70.6 | 2.3  | 0    |           | 2.1        | 62   | 35.9 | 0    |            |           |      |      |      |           |            |
| PHF  | .813                | .500 | .679 | .000 | .702      | .816       | .625 | .962 | .250 | .871       | .740      | .840 | .900 | .000 | .938      | .813       | .889 | .893 | .000 | .889       | .000      | .889 | .000 | .939 |           |            |
| All Vehicles   | 25                  | 14   | 19   | 0    | 58        | 193        | 15   | 125  | 1    | 334        | 210       | 539  | 18   | 0    | 767       | 13         | 362  | 204  | 0    | 579        | 0         | 579  | 0    | 1738 |           |            |
| % All Vehicles   | 96.2                | 100  | 100  | 0    | 98.3      | 92.3       | 100  | 98.4 | 100  | 94.9       | 97.2      | 96.1 | 100  | 0    | 96.5      | 100        | 96.0 | 93.6 | 0    | 95.2       | 0         | 95.2 | 0    | 95.8 |           |            |
| Heavy Trucks   | 1                   | 0    | 0    | 0    | 1         | 16         | 0    | 2    | 0    | 18         | 6         | 22   | 0    | 0    | 28        | 0          | 15   | 14   | 0    | 29         | 0         | 29   | 0    | 76   |           |            |
| % Heavy Trucks   | 3.8                 | 0    | 0    | 0    | 0         | 1.7        | 7.7  | 0    | 1.6  | 0          | 5.1       | 2.8  | 3.9  | 0    | 0         | 3.5        | 0    | 4.0  | 6.4  | 0          | 4.8       | 0    | 4.8  | 0    | 4.2       |            |
| Bank 2   | 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         |            |
| % Bank 2   | 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         |            |



# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Kreag PM  
Site Code : 00200866  
Start Date : 04/02/2025  
Page No : 1

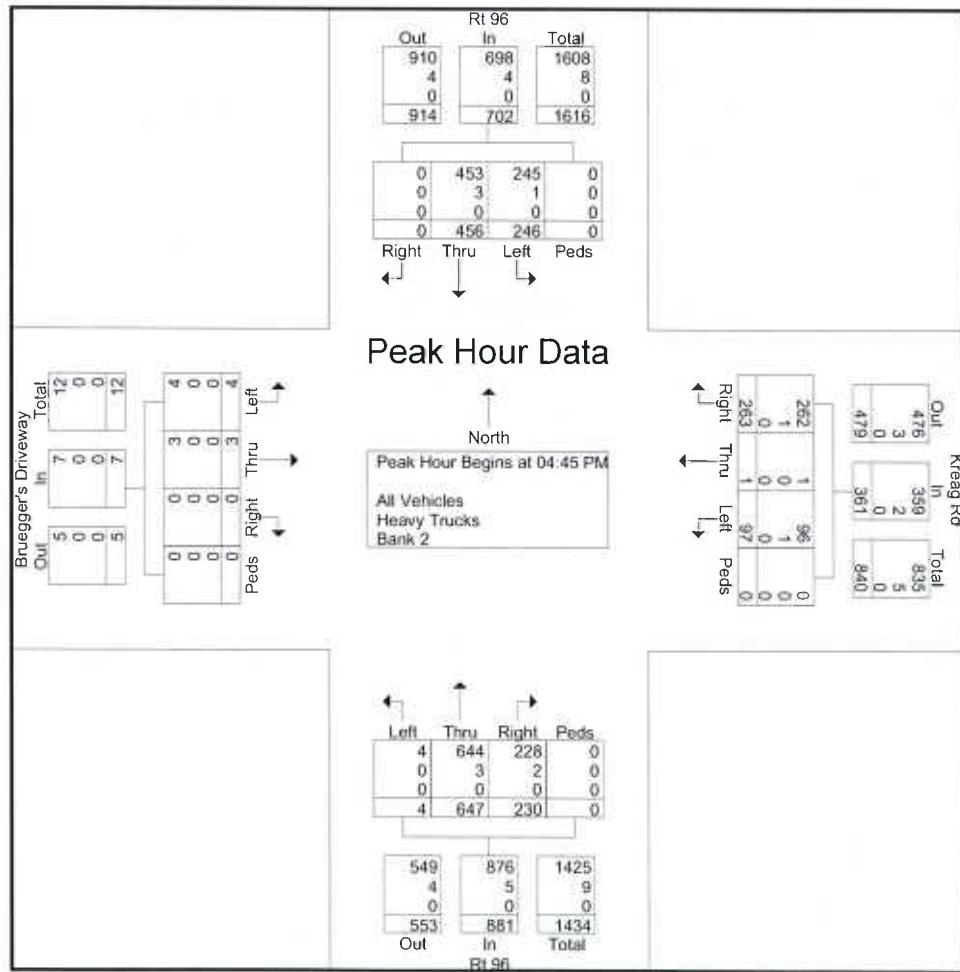
## **Groups Printed- All Vehicles - Heavy Trucks - Bank 2**

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Kreag PM  
 Site Code : 00200866  
 Start Date : 04/02/2025  
 Page No : 2

|  | Bruegger's Driveway<br>Eastbound |      |      |      |            | Kreag Rd<br>Westbound |      |      |      |            | Rt 96<br>Northbound |      |      |      |            | Rt 96<br>Southbound |      |      |      |            |            |
|--|----------------------------------|------|------|------|------------|-----------------------|------|------|------|------------|---------------------|------|------|------|------------|---------------------|------|------|------|------------|------------|
| Start Time   | Right                            | Thru | Left | Peds | App. Total | Right                 | Thru | Left | Peds | App. Total | Right               | Thru | Left | Peds | App. Total | Right               | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1 |                                  |      |      |      |            |                       |      |      |      |            |                     |      |      |      |            |                     |      |      |      |            |            |
| Peak Hour for Entire Intersection Begins at 04:45 PM       |                                  |      |      |      |            |                       |      |      |      |            |                     |      |      |      |            |                     |      |      |      |            |            |
| 04:45 PM   | 0                                | 1    | 1    | 0    | 2          | 59                    | 0    | 32   | 0    | 91         | 61                  | 163  | 1    | 0    | 225        | 0                   | 116  | 60   | 0    | 176        | 494        |
| 05:00 PM   | 0                                | 0    | 2    | 0    | 2          | 73                    | 0    | 26   | 0    | 99         | 56                  | 166  | 0    | 0    | 222        | 0                   | 120  | 51   | 0    | 171        | 494        |
| 05:15 PM   | 0                                | 0    | 0    | 0    | 0          | 65                    | 0    | 21   | 0    | 86         | 64                  | 163  | 1    | 0    | 228        | 0                   | 111  | 69   | 0    | 180        | 494        |
| 05:30 PM   | 0                                | 2    | 1    | 0    | 3          | 66                    | 1    | 18   | 0    | 85         | 49                  | 155  | 2    | 0    | 206        | 0                   | 109  | 66   | 0    | 175        | 469        |
| Total Volume   | 0                                | 3    | 4    | 0    | 7          | 263                   | 1    | 97   | 0    | 361        | 230                 | 647  | 4    | 0    | 881        | 0                   | 456  | 246  | 0    | 702        | 1951       |
| % App. Total   | 0                                | 42.9 | 57.1 | 0    |            | 72.9                  | 0.3  | 26.9 | 0    |            | 26.1                | 73.4 | 0.5  | 0    |            | 0                   | 65   | 35   | 0    |            |            |
| PHF  | .000                             | .375 | .500 | .000 | .583       | .901                  | .250 | .758 | .000 | .912       | .898                | .974 | .500 | .000 | .966       | .000                | .950 | .891 | .000 | .975       | .987       |
| All Vehicles   | 0                                | 3    | 4    | 0    | 7          | 262                   | 1    | 96   | 0    | 359        | 228                 | 644  | 4    | 0    | 876        | 0                   | 453  | 245  | 0    | 698        | 1940       |
| % All Vehicles   | 0                                | 100  | 100  | 0    | 100        | 99.6                  | 100  | 99.0 | 0    | 99.4       | 99.1                | 99.5 | 100  | 0    | 99.4       | 0                   | 99.3 | 99.6 | 0    | 99.4       | 99.4       |
| Heavy Trucks   | 0                                | 0    | 0    | 0    | 0          | 1                     | 0    | 1    | 0    | 2          | 2                   | 3    | 0    | 0    | 5          | 0                   | 3    | 1    | 0    | 4          | 11         |
| % Heavy Trucks   | 0                                | 0    | 0    | 0    | 0          | 0.4                   | 0    | 1.0  | 0    | 0.6        | 0.9                 | 0.5  | 0    | 0    | 0.6        | 0                   | 0.7  | 0.4  | 0    | 0.6        | 0.6        |
| Bank 2   | 0                                | 0    | 0    | 0    | 0          | 0                     | 0    | 0    | 0    | 0          | 0                   | 0    | 0    | 0    | 0          | 0                   | 0    | 0    | 0    | 0          |            |
| % Bank 2   | 0                                | 0    | 0    | 0    | 0          | 0                     | 0    | 0    | 0    | 0          | 0                   | 0    | 0    | 0    | 0          | 0                   | 0    | 0    | 0    | 0          |            |



# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Marsh AM  
Site Code : 00200876  
Start Date : 04/02/2025  
Page No : 1

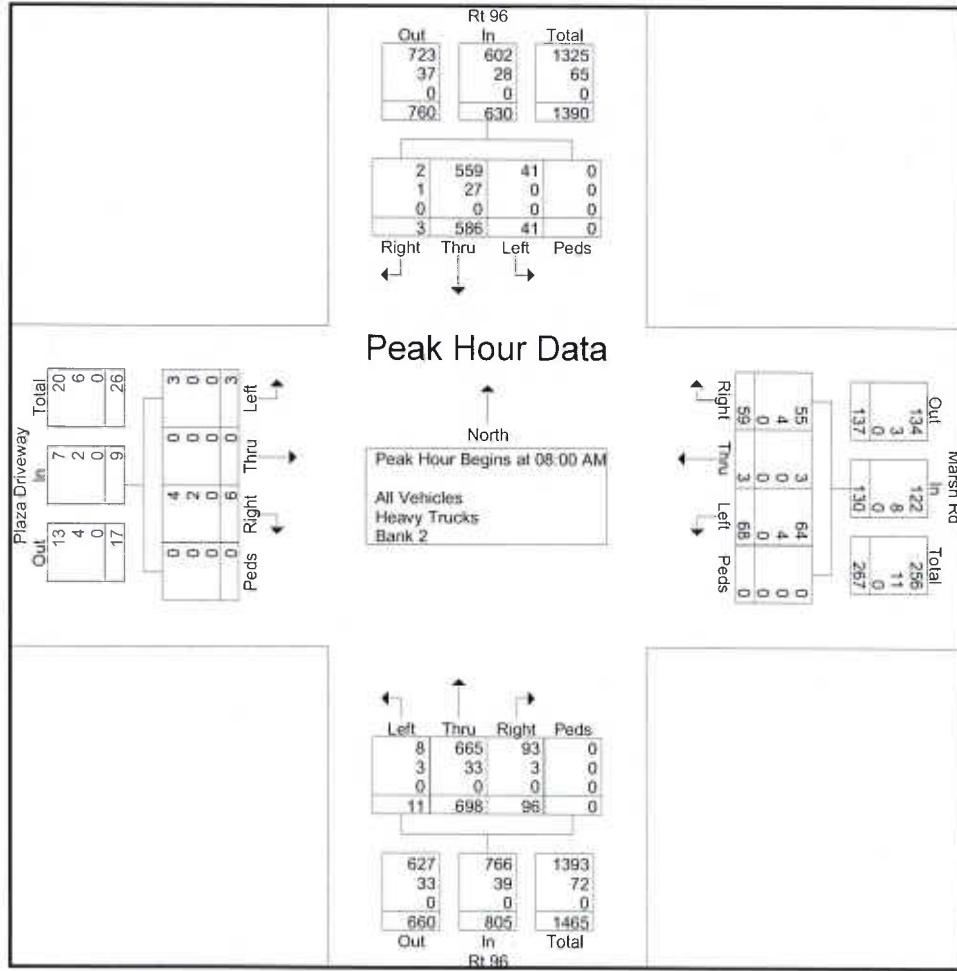
## Groups Printed- All Vehicles - Heavy Trucks - Bank 2

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Marsh AM  
 Site Code : 00200876  
 Start Date : 04/02/2025  
 Page No : 2

| Start Time   | Plaza Driveway<br>Eastbound |      |      |      | Marsh Rd<br>Westbound |       |      |      | Rt 96<br>Northbound |            |       |      | Rt 96<br>Southbound |      |            |       | Int. Total |      |      |            |      |
|--|-----------------------------|------|------|------|-----------------------|-------|------|------|---------------------|------------|-------|------|---------------------|------|------------|-------|------------|------|------|------------|------|
|  | Right                       | Thru | Left | Peds | App. Total            | Right | Thru | Left | Peds                | App. Total | Right | Thru | Left                | Peds | App. Total | Right | Thru       | Left | Peds | App. Total |      |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                             |      |      |      |                       |       |      |      |                     |            |       |      |                     |      |            |       |            |      |      |            |      |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                             |      |      |      |                       |       |      |      |                     |            |       |      |                     |      |            |       |            |      |      |            |      |
| 08:00 AM   | 0                           | 0    | 1    | 0    | 1                     | 17    | 0    | 16   | 0                   | 33         | 27    | 137  | 1                   | 0    | 165        | 0     | 133        | 6    | 0    | 139        | 338  |
| 08:15 AM   | 1                           | 0    | 1    | 0    | 2                     | 17    | 0    | 14   | 0                   | 31         | 20    | 190  | 3                   | 0    | 213        | 1     | 142        | 10   | 0    | 153        | 399  |
| 08:30 AM   | 3                           | 0    | 0    | 0    | 3                     | 16    | 0    | 15   | 0                   | 31         | 25    | 166  | 5                   | 0    | 196        | 2     | 162        | 13   | 0    | 177        | 407  |
| 08:45 AM   | 2                           | 0    | 1    | 0    | 3                     | 9     | 3    | 23   | 0                   | 35         | 24    | 205  | 2                   | 0    | 231        | 0     | 149        | 12   | 0    | 161        | 430  |
| Total Volume   | 6                           | 0    | 3    | 0    | 9                     | 59    | 3    | 68   | 0                   | 130        | 96    | 698  | 11                  | 0    | 805        | 3     | 586        | 41   | 0    | 630        | 1574 |
| % App. Total   | 66.7                        | 0    | 33.3 | 0    |                       | 45.4  | 2.3  | 52.3 | 0                   |            | 11.9  | 86.7 | 1.4                 | 0    | 0.5        | 93    | 6.5        | 0    |      |            |      |
| PHF  | .500                        | .000 | .750 | .000 | .750                  | .868  | .250 | .739 | .000                | .929       | .889  | .851 | .550                | .000 | .871       | .375  | .904       | .788 | .000 | .890       | .915 |
| All Vehicles   | 4                           | 0    | 3    | 0    | 7                     | 55    | 3    | 64   | 0                   | 122        | 93    | 665  | 8                   | 0    | 766        | 2     | 559        | 41   | 0    | 602        | 1497 |
| % All Vehicles   | 66.7                        | 0    | 100  | 0    | 77.8                  | 93.2  | 100  | 94.1 | 0                   | 93.8       | 96.9  | 95.3 | 72.7                | 0    | 95.2       | 66.7  | 95.4       | 100  | 0    | 95.6       | 95.1 |
| Heavy Trucks   | 2                           | 0    | 0    | 0    | 2                     | 4     | 0    | 4    | 0                   | 8          | 3     | 33   | 3                   | 0    | 39         | 1     | 27         | 0    | 0    | 28         | 77   |
| % Heavy Trucks   | 33.3                        | 0    | 0    | 0    | 22.2                  | 6.8   | 0    | 5.9  | 0                   | 6.2        | 3.1   | 4.7  | 27.3                | 0    | 4.8        | 33.3  | 4.6        | 0    | 0    | 4.4        | 4.9  |
| Bank 2   | 0                           | 0    | 0    | 0    | 0                     | 0     | 0    | 0    | 0                   | 0          | 0     | 0    | 0                   | 0    | 0          | 0     | 0          | 0    | 0    | 0          |      |
| % Bank 2   | 0                           | 0    | 0    | 0    | 0                     | 0     | 0    | 0    | 0                   | 0          | 0     | 0    | 0                   | 0    | 0          | 0     | 0          | 0    | 0    | 0          |      |



# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Marsh PM  
Site Code : 00200876  
Start Date : 04/02/2025  
Page No : 1

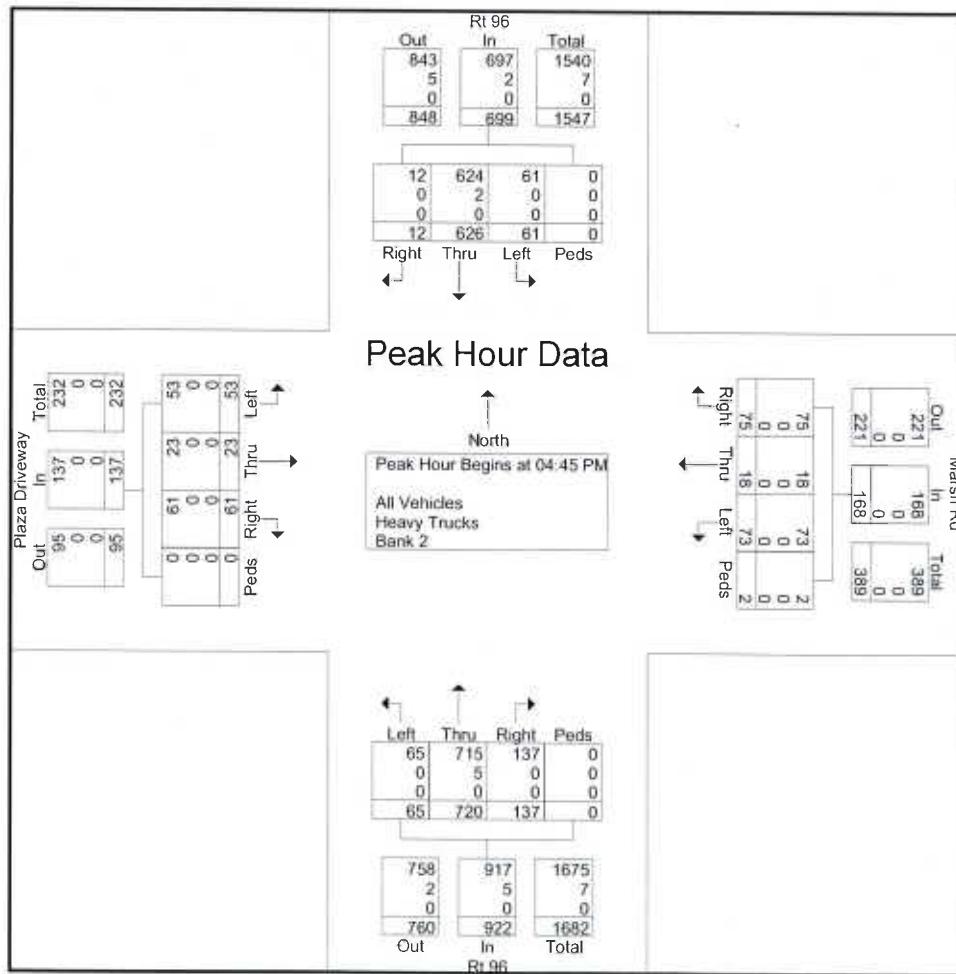
## Groups Printed- All Vehicles - Heavy Trucks - Bank 2

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Marsh PM  
 Site Code : 00200876  
 Start Date : 04/02/2025  
 Page No : 2

|  | Plaza Driveway<br>Eastbound |      |      |      |           | Marsh Rd<br>Westbound |      |      |      |           | Rt 96<br>Northbound |      |      |      |           | Rt 96<br>Southbound |      |      |      |           |            |
|--|-----------------------------|------|------|------|-----------|-----------------------|------|------|------|-----------|---------------------|------|------|------|-----------|---------------------|------|------|------|-----------|------------|
| Start Time   | Right                       | Thru | Left | Peds | App Total | Right                 | Thru | Left | Peds | App Total | Right               | Thru | Left | Peds | App Total | Right               | Thru | Left | Peds | App Total | Int. Total |
| Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1 |                             |      |      |      |           |                       |      |      |      |           |                     |      |      |      |           |                     |      |      |      |           |            |
| Peak Hour for Entire Intersection Begins at 04:45 PM       |                             |      |      |      |           |                       |      |      |      |           |                     |      |      |      |           |                     |      |      |      |           |            |
| 04:45 PM   | 16                          | 6    | 19   | 0    | 41        | 23                    | 7    | 21   | 0    | 51        | 29                  | 179  | 18   | 0    | 226       | 2                   | 156  | 10   | 0    | 168       | 486        |
| 05:00 PM   | 20                          | 6    | 13   | 0    | 39        | 19                    | 1    | 12   | 0    | 32        | 38                  | 191  | 15   | 0    | 244       | 4                   | 153  | 11   | 0    | 168       | 483        |
| 05:15 PM   | 13                          | 6    | 13   | 0    | 32        | 19                    | 4    | 19   | 0    | 42        | 35                  | 185  | 17   | 0    | 237       | 1                   | 167  | 21   | 0    | 189       | 500        |
| 05:30 PM   | 12                          | 5    | 8    | 0    | 25        | 14                    | 6    | 21   | 2    | 43        | 35                  | 165  | 15   | 0    | 215       | 5                   | 150  | 19   | 0    | 174       | 457        |
| Total Volume   | 61                          | 23   | 53   | 0    | 137       | 75                    | 18   | 73   | 2    | 168       | 137                 | 720  | 65   | 0    | 922       | 12                  | 626  | 61   | 0    | 699       | 1926       |
| % App. Total   | 44.5                        | 16.8 | 38.7 | 0    |           | 44.6                  | 10.7 | 43.5 | 1.2  |           | 14.9                | 78.1 | 7    | 0    |           | 1.7                 | 89.6 | 8.7  | 0    |           |            |
| PHF  | .763                        | .958 | .697 | .000 | 835       | 815                   | .643 | 869  | .250 | 824       | .901                | .942 | 903  | .000 | .945      | .600                | .937 | .726 | .000 | .925      | .963       |
| All Vehicles   | 61                          | 23   | 53   | 0    | 137       | 75                    | 18   | 73   | 2    | 168       | 137                 | 715  | 65   | 0    | 917       | 12                  | 624  | 61   | 0    | 697       | 1919       |
| % All Vehicles   | 100                         | 100  | 100  | 0    | 100       | 100                   | 100  | 100  | 0    | 100       | 100                 | 99.3 | 100  | 0    | 99.5      | 100                 | 99.7 | 100  | 0    | 99.7      | 99.6       |
| Heavy Trucks   | 0                           | 0    | 0    | 0    | 0         | 0                     | 0    | 0    | 0    | 0         | 0                   | 5    | 0    | 0    | 5         | 0                   | 2    | 0    | 0    | 2         | 7          |
| % Heavy Trucks   | 0                           | 0    | 0    | 0    | 0         | 0                     | 0    | 0    | 0    | 0         | 0                   | 0.7  | 0    | 0    | 0.5       | 0                   | 0.3  | 0    | 0    | 0.3       | 0.4        |
| Bank 2   | 0                           | 0    | 0    | 0    | 0         | 0                     | 0    | 0    | 0    | 0         | 0                   | 0    | 0    | 0    | 0         | 0                   | 0    | 0    | 0    | 0         |            |
| % Bank 2   | 0                           | 0    | 0    | 0    | 0         | 0                     | 0    | 0    | 0    | 0         | 0                   | 0    | 0    | 0    | 0         | 0                   | 0    | 0    | 0    | 0         |            |



# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Thornell AM  
Site Code : 00200870  
Start Date : 04/02/2025  
Page No : 1

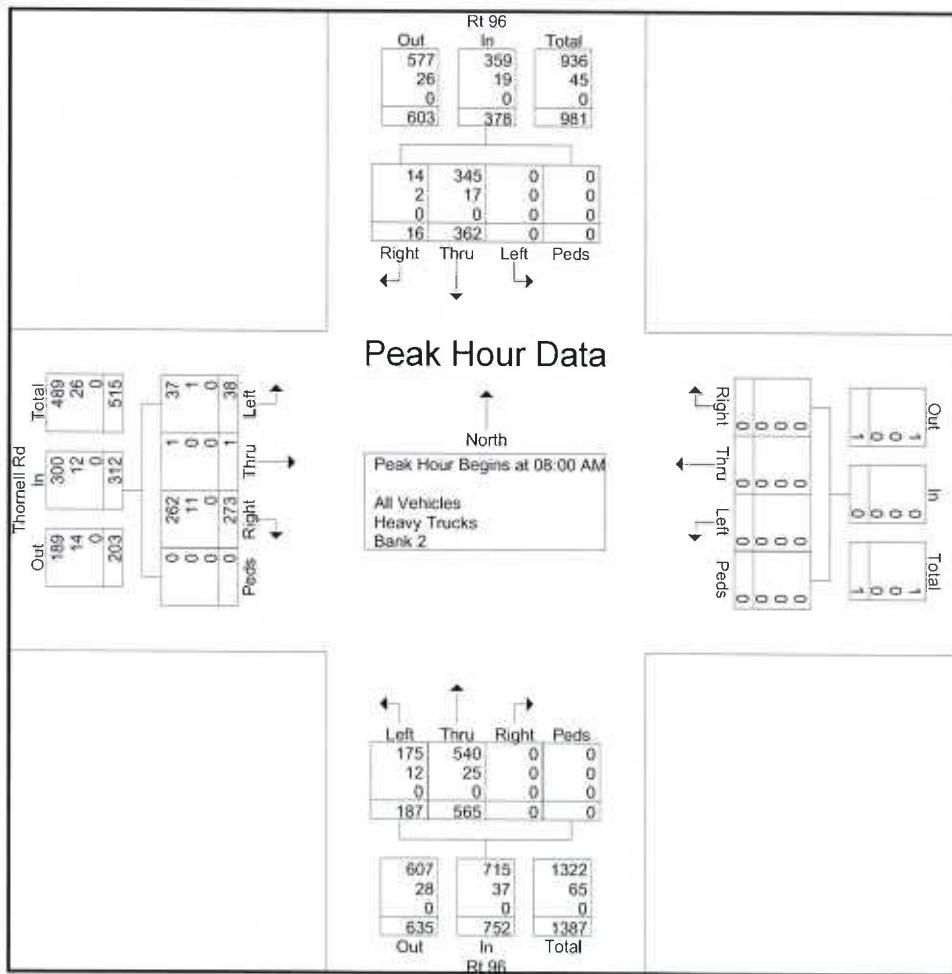
## Groups Printed- All Vehicles - Heavy Trucks - Bank 2

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Thornell AM  
 Site Code : 00200870  
 Start Date : 04/02/2025  
 Page No : 2

| Start Time   | Thornell Rd<br>Eastbound |      |      |      | Westbound  |       |      |      | Rt 96<br>Northbound |            |       |      | Rt 96<br>Southbound |      |            |       | Int. Total |      |      |            |
|--|--------------------------|------|------|------|------------|-------|------|------|---------------------|------------|-------|------|---------------------|------|------------|-------|------------|------|------|------------|
|  | Right                    | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds                | App. Total | Right | Thru | Left                | Peds | App. Total | Right | Thru       | Left | Peds | App. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                          |      |      |      |            |       |      |      |                     |            |       |      |                     |      |            |       |            |      |      |            |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                          |      |      |      |            |       |      |      |                     |            |       |      |                     |      |            |       |            |      |      |            |
| 08:00 AM   | 79                       | 0    | 11   | 0    | 90         | 0     | 0    | 0    | 0                   | 0          | 93    | 49   | 0                   | 142  | 2          | 60    | 0          | 0    | 62   | 294        |
| 08:15 AM   | 66                       | 0    | 12   | 0    | 78         | 0     | 0    | 0    | 0                   | 0          | 151   | 62   | 0                   | 213  | 1          | 86    | 0          | 0    | 87   | 378        |
| 08:30 AM   | 78                       | 0    | 6    | 0    | 84         | 0     | 0    | 0    | 0                   | 0          | 144   | 39   | 0                   | 183  | 4          | 110   | 0          | 0    | 114  | 381        |
| 08:45 AM   | 50                       | 1    | 9    | 0    | 60         | 0     | 0    | 0    | 0                   | 0          | 177   | 37   | 0                   | 214  | 9          | 106   | 0          | 0    | 115  | 389        |
| Total Volume   | 273                      | 1    | 38   | 0    | 312        | 0     | 0    | 0    | 0                   | 0          | 565   | 187  | 0                   | 752  | 16         | 362   | 0          | 0    | 378  | 1442       |
| % App. Total   | 87.5                     | 0.3  | 12.2 | 0    |            | 0     | 0    | 0    | 0                   | 0          | 75.1  | 24.9 | 0                   |      | 4.2        | 95.8  | 0          | 0    |      |            |
| PHF  | .864                     | .250 | .792 | .000 | .867       | .000  | .000 | .000 | .000                | .000       | .798  | .754 | .000                | .879 | .444       | .823  | .000       | .000 | .822 | .927       |
| All Vehicles   | 262                      | 1    | 37   | 0    | 300        | 0     | 0    | 0    | 0                   | 0          | 540   | 175  | 0                   | 715  | 14         | 345   | 0          | 0    | 359  | 1374       |
| % All Vehicles   | 96.0                     | 100  | 97.4 | 0    | 96.2       | 0     | 0    | 0    | 0                   | 0          | 95.6  | 93.6 | 0                   | 95.1 | 87.5       | 95.3  | 0          | 0    | 95.0 | 95.3       |
| Heavy Trucks   | 11                       | 0    | 1    | 0    | 12         | 0     | 0    | 0    | 0                   | 0          | 25    | 12   | 0                   | 37   | 2          | 17    | 0          | 0    | 19   | 68         |
| % Heavy Trucks   | 4.0                      | 0    | 2.6  | 0    | 3.8        | 0     | 0    | 0    | 0                   | 0          | 4.4   | 6.4  | 0                   | 4.9  | 12.5       | 4.7   | 0          | 0    | 5.0  | 4.7        |
| Bank 2   | 0                        | 0    | 0    | 0    | 0          | 0     | 0    | 0    | 0                   | 0          | 0     | 0    | 0                   | 0    | 0          | 0     | 0          | 0    | 0    |            |
| % Bank 2   | 0                        | 0    | 0    | 0    | 0          | 0     | 0    | 0    | 0                   | 0          | 0     | 0    | 0                   | 0    | 0          | 0     | 0          | 0    | 0    |            |



# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Thornell PM  
Site Code : 00200870  
Start Date : 04/02/2025  
Page No : 1

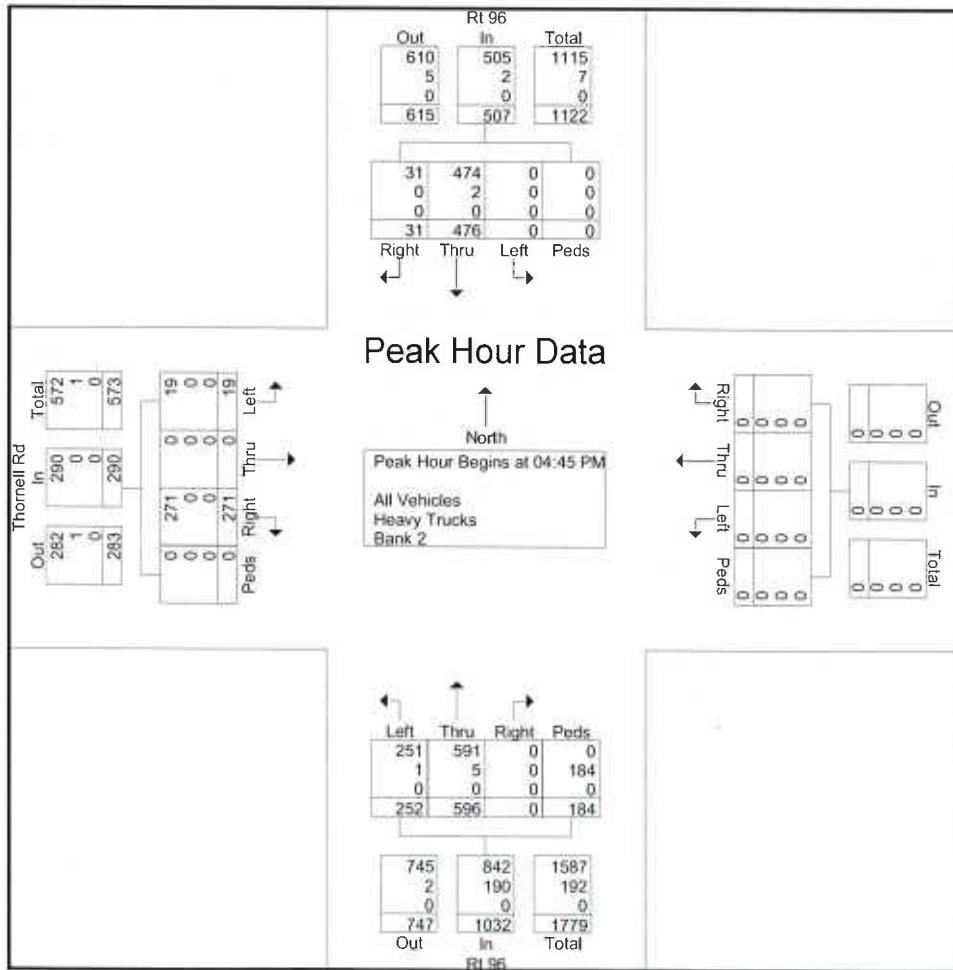
Groups Printed- All Vehicles - Heavy Trucks - Bank 2

# PASSERO ASSOCIATES

242 West Main Street, Suite 100, Rochester, NY 14614

File Name : Rt 96 & Thornell PM  
 Site Code : 00200870  
 Start Date : 04/02/2025  
 Page No : 2

|  | Thornell Rd Eastbound |      |      |      |            | Westbound |      |      |      |            | Rt 96 Northbound |      |      |      |            | Rt 96 Southbound |      |      |      |            |      |
|--|-----------------------|------|------|------|------------|-----------|------|------|------|------------|------------------|------|------|------|------------|------------------|------|------|------|------------|------|
|  | Right                 | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total | Right            | Thru | Left | Peds | App. Total | Right            | Thru | Left | Peds | App. Total |      |
| Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1 |                       |      |      |      |            |           |      |      |      |            |                  |      |      |      |            |                  |      |      |      |            |      |
| Start Time   | Right                 | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total | Right            | Thru | Left | Peds | App. Total | Right            | Thru | Left | Peds | App. Total |      |
| 04:45 PM   | 60                    | 0    | 8    | 0    | 68         | 0         | 0    | 0    | 0    | 0          | 0                | 153  | 72   | 0    | 225        | 5                | 133  | 0    | 0    | 138        | 431  |
| 05:00 PM   | 61                    | 0    | 2    | 0    | 63         | 0         | 0    | 0    | 0    | 0          | 0                | 149  | 76   | 0    | 225        | 9                | 115  | 0    | 0    | 124        | 412  |
| 05:15 PM   | 80                    | 0    | 4    | 0    | 84         | 0         | 0    | 0    | 0    | 0          | 0                | 158  | 56   | 0    | 214        | 8                | 121  | 0    | 0    | 129        | 427  |
| 05:30 PM   | 70                    | 0    | 5    | 0    | 75         | 0         | 0    | 0    | 0    | 0          | 0                | 136  | 48   | 184  | 368        | 9                | 107  | 0    | 0    | 116        | 559  |
| Total Volume   | 271                   | 0    | 19   | 0    | 290        | 0         | 0    | 0    | 0    | 0          | 0                | 596  | 252  | 184  | 1032       | 31               | 476  | 0    | 0    | 507        | 1829 |
| % App. Total   | 93.4                  | 0    | 6.6  | 0    |            | 0         | 0    | 0    | 0    | 0          | 0                | 57.8 | 24.4 | 17.8 |            | 6.1              | 93.9 | 0    | 0    |            |      |
| PHF  | .847                  | .000 | .594 | .000 | .863       | .000      | .000 | .000 | .000 | .000       | .000             | 943  | .829 | .250 | .701       | .861             | .895 | .000 | .000 | .918       | .818 |
| All Vehicles   | 271                   | 0    | 19   | 0    | 290        | 0         | 0    | 0    | 0    | 0          | 0                | 591  | 251  | 0    | 842        | 31               | 474  | 0    | 0    | 505        | 1637 |
| % All Vehicles   | 100                   | 0    | 100  | 0    | 100        | 0         | 0    | 0    | 0    | 0          | 0                | 99.2 | 99.6 | 0    | 81.6       | 100              | 99.6 | 0    | 0    | 99.6       | 89.5 |
| Heavy Trucks   | 0                     | 0    | 0    | 0    | 0          | 0         | 0    | 0    | 0    | 0          | 0                | 0    | 5    | 1    | 184        | 190              | 0    | 2    | 0    | 0          | 192  |
| % Heavy Trucks   | 0                     | 0    | 0    | 0    | 0          | 0         | 0    | 0    | 0    | 0          | 0                | 0    | 0.8  | 0.4  | 100        | 18.4             | 0    | 0.4  | 0    | 0          | 10.5 |
| Bank 2   | 0                     | 0    | 0    | 0    | 0          | 0         | 0    | 0    | 0    | 0          | 0                | 0    | 0    | 0    | 0          | 0                | 0    | 0    | 0    | 0          |      |
| % Bank 2   | 0                     | 0    | 0    | 0    | 0          | 0         | 0    | 0    | 0    | 0          | 0                | 0    | 0    | 0    | 0          | 0                | 0    | 0    | 0    | 0          |      |



## **APPENDIX B: MISCELLANEOUS CALCULATIONS**

## Documentation of Ambient Traffic Volume Growth

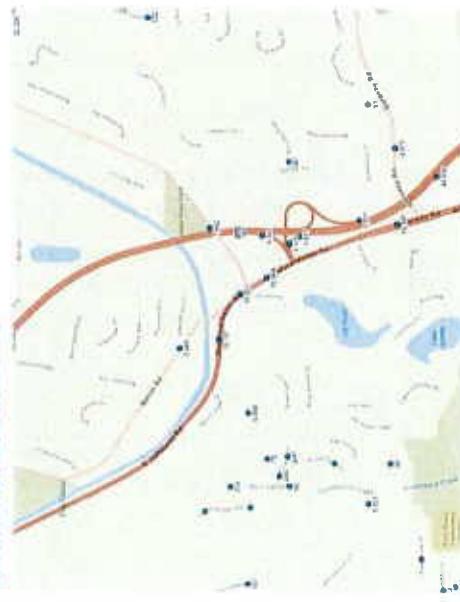
Project: Hartwell Heights  
Location: NY-96 & Thorrell Road, Town of Perinton, NY

| Roadway       | From       | To            | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | 2022   | 2023   | Annual Growth | 2021-2023 Growth |
|---------------|------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|------------------|
| NY-96         | Marsh Road | Thorrell Road | 16,511 | 17,497 | 17,465 | 18,776 | 18,786 | 18,319 | 15,563 | 16,799 | 16,369 | 18,187 | -0.11%        | 4.05%            |
| NY-96         | Kreag Road | I-490         | 17,355 | 17,311 | 17,268 | 17,743 | 17,753 | 16,019 | 13,609 | 14,690 | 14,618 | 15,904 | -3.80%        | 4.05%            |
| Kreag Road    | NY-31      |               | 7,972  | 8,111  | 8,090  | 8,069  | 8,544  | 8,544  | 8,455  | 9,127  | 8,911  | 7,942  | -0.26%        | -6.72%           |
| Thorrell Road | NY-96      | Pittsford TL  | 6,804  | 6,722  | 6,900  | 6,807  | 6,797  | 7,018  | 6,128  | 6,525  | 5,087  | 6,949  | -4.95%        | 3.20%            |
| Average       |            |               |        |        |        |        |        |        |        |        |        |        | -2.28%        | 1.14%            |

Counts shown in orange are estimated. Annual Growth only considers actual counts.

### Sources

[Traffic Counts in New York](#)  
[NYS DOT Traffic Data Viewer](#)



**NY-96 at Proposed Access - AM**  
Eastbound (2 Lanes)

| Start Time                | 2-3       | 4-5       | 6-7       | 8-9          | 10-11        | 12-13        | 14-15        | 16-17        | 18-19       | 20-21       | 22-23       | 24-25       | 26-27       | 28-29       | >29         | Int. Total  | Average    |
|---------------------------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| 8:00:00 AM                | 13        | 10        | 10        | 6            | 3            | 0            | 6            | 1            | 0           | 2           | 2           | 0           | 0           | 0           | 0           | 53          | 6.7        |
| 8:15:00 AM                | 20        | 14        | 9         | 6            | 4            | 1            | 4            | 2            | 2           | 1           | 1           | 0           | 0           | 1           | 2           | 67          | 4.5        |
| 8:30:00 AM                | 17        | 16        | 10        | 3            | 3            | 2            | 2            | 0            | 2           | 2           | 1           | 3           | 0           | 0           | 0           | 61          | 4.5        |
| 8:45:00 AM                | 18        | 13        | 10        | 6            | 7            | 4            | 3            | 1            | 0           | 0           | 0           | 2           | 1           | 0           | 3           | 68          | 6.7        |
| <b>Grand Total</b>        | <b>68</b> | <b>53</b> | <b>39</b> | <b>21</b>    | <b>17</b>    | <b>7</b>     | <b>15</b>    | <b>4</b>     | <b>4</b>    | <b>5</b>    | <b>4</b>    | <b>5</b>    | <b>1</b>    | <b>1</b>    | <b>5</b>    | <b>249</b>  | <b>6.7</b> |
| <b>Right-out Headways</b> |           |           |           | <b>6.2</b>   | <b>9.5</b>   | <b>12.8</b>  |              | <b>16.1</b>  | <b>19.4</b> |             | <b>22.7</b> |             | <b>26</b>   |             |             |             |            |
| <b>% of Gap</b>           |           |           |           | <b>0.9</b>   | <b>0.75</b>  | <b>0.4</b>   |              | <b>0.05</b>  | <b>0.7</b>  |             | <b>0.35</b> |             | <b>0</b>    |             |             |             |            |
| tc = 6.2<br>tf = 3.3      |           |           |           | <b>35.1</b>  | <b>15.75</b> | <b>17</b>    | <b>2.8</b>   |              |             |             |             |             |             |             |             |             |            |
|                           |           |           |           |              | <b>5.25</b>  |              | <b>4.2</b>   | <b>15</b>    | <b>0.2</b>  |             | <b>3.8</b>  | <b>2.8</b>  |             | <b>1.2</b>  | <b>5</b>    | <b>1.4</b>  |            |
|                           |           |           |           |              |              |              |              |              |             |             |             |             |             | <b>2.6</b>  | <b>5</b>    | <b>0</b>    |            |
|                           |           |           |           |              |              |              |              |              |             |             |             |             |             |             | <b>1</b>    | <b>1</b>    | <b>5</b>   |
| <b># of Gaps</b>          |           |           |           | <b>50.85</b> | <b>25.05</b> | <b>19.40</b> |              | <b>6.60</b>  | <b>7.60</b> |             | <b>7.60</b> |             | <b>7.00</b> |             |             |             |            |
| <b>Left-In Headways</b>   |           |           |           | <b>4.1</b>   | <b>6.3</b>   | <b>8.5</b>   | <b>10.7</b>  | <b>12.9</b>  | <b>15.1</b> | <b>17.3</b> | <b>19.5</b> | <b>21.7</b> | <b>23.9</b> |             | <b>26.1</b> | <b>28.3</b> |            |
| <b>% of Gap</b>           |           |           |           | <b>0.95</b>  | <b>0.15</b>  | <b>0.25</b>  | <b>0.35</b>  | <b>0.45</b>  | <b>0.55</b> | <b>0.65</b> | <b>0.75</b> | <b>0.85</b> | <b>0.95</b> |             | <b>0.05</b> | <b>0.15</b> |            |
| tc = 4.1<br>tf = 2.2      |           |           |           | <b>50.35</b> | <b>5.85</b>  |              |              |              |             |             |             |             |             |             |             |             |            |
|                           |           |           |           |              | <b>33.15</b> | <b>5.25</b>  |              |              |             |             |             |             |             |             |             |             |            |
|                           |           |           |           |              |              | <b>15.75</b> | <b>5.95</b>  | <b>11.05</b> | <b>3.15</b> |             | <b>2.6</b>  |             |             |             |             |             |            |
|                           |           |           |           |              |              |              |              | <b>3.85</b>  | <b>8.25</b> |             | <b>1.4</b>  | <b>3</b>    |             |             |             |             |            |
|                           |           |           |           |              |              |              |              |              | <b>6.75</b> |             | <b>1.4</b>  | <b>1</b>    | <b>4.25</b> |             | <b>3.8</b>  |             |            |
|                           |           |           |           |              |              |              |              |              |             |             |             | <b>0.75</b> | <b>0.2</b>  | <b>5</b>    | <b>0.05</b> | <b>0.15</b> |            |
|                           |           |           |           |              |              |              |              |              |             |             |             |             |             |             | <b>0.95</b> | <b>0.85</b> | <b>5</b>   |
| <b># of Gaps</b>          |           |           |           | <b>56.20</b> | <b>38.40</b> | <b>21.70</b> | <b>14.20</b> | <b>12.10</b> | <b>9.35</b> | <b>4.40</b> | <b>5.25</b> | <b>4.55</b> | <b>5.25</b> | <b>5.25</b> | <b>1.10</b> | <b>5.85</b> |            |

**NY-96 at Proposed Access - AM**  
Combined Directions (2 Lanes)

| Start Time           | 2-3        | 4-5       | 6-7       | 8-9       | 10-11    | 12-13    | 14-15    | 16-17    | 18-19    | 20-21    | 22-23    | 24-25    | 26-27    | 28-29    | >29      | Int. Total | Average    |
|----------------------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|
| 8:00:00 AM           | 28         | 10        | 9         | 4         | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 53         | 2.3        |
| 8:15:00 AM           | 38         | 21        | 7         | 3         | 1        | 2        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 73         | 2.3        |
| 8:30:00 AM           | 47         | 18        | 5         | 1         | 2        | 3        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 77         | 2.3        |
| 8:45:00 AM           | 44         | 16        | 6         | 1         | 4        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 77         | 2.3        |
| <b>Grand Total</b>   | <b>157</b> | <b>65</b> | <b>27</b> | <b>14</b> | <b>9</b> | <b>9</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>280</b> | <b>2.3</b> |
| <hr/>                |            |           |           |           |          |          |          |          |          |          |          |          |          |          |          |            |            |
| Left-out<br>Headways |            | 7.1       |           | 10.6      |          | 14.1     |          | 17.6     |          | 21.1     |          | 24.6     |          | 28.1     |          |            |            |
| tc = 7.1             |            | 0.55      |           | 0.3       |          | 0.05     |          | 0.8      |          | 0.55     |          | 0.3      |          | 0.05     |          |            |            |
| tf = 3.5             |            | 14.85     |           | 14        |          | 1        |          |          |          |          |          |          |          |          |          |            |            |
| <hr/>                |            |           |           |           |          |          |          |          |          |          |          |          |          |          |          |            |            |
| # of Gaps            |            |           |           | 30.05     |          | 11.85    |          | 1.75     |          | 1.75     |          | 0.45     |          | 0.00     |          | 0.00       |            |

**NY-96 at Proposed Access - PM**  
**Eastbound (2 Lanes)**

| Start Time         | 2-3             | 4-5       | 6-7       | 8-9       | 10-11     | 12-13    | 14-15    | 16-17    | 18-19    | 20-21    | 22-23    | 24-25    | 26-27    | 28-29    | >29      | Int. Total | Average    |
|--------------------|-----------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|
| 4:45:00 PM         | 28              | 21        | 6         | 8         | 5         | 2        | 1        | 2        | 2        | 1        | 1        | 0        | 0        | 0        | 0        | 78         | 4.5        |
| 5:00:00 PM         | 20              | 22        | 6         | 7         | 12        | 1        | 2        | 2        | 1        | 0        | 1        | 0        | 1        | 0        | 1        | 76         | 4.5        |
| 5:15:00 PM         | 26              | 20        | 8         | 4         | 3         | 2        | 2        | 3        | 2        | 0        | 1        | 0        | 0        | 0        | 0        | 71         | 4.5        |
| 5:30:00 PM         | 28              | 14        | 7         | 5         | 5         | 4        | 3        | 1        | 4        | 0        | 0        | 0        | 0        | 0        | 1        | 73         | 4.5        |
| <b>Grand Total</b> | <b>103</b>      | <b>77</b> | <b>27</b> | <b>24</b> | <b>25</b> | <b>9</b> | <b>8</b> | <b>8</b> | <b>9</b> | <b>1</b> | <b>3</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>2</b> | <b>298</b> | <b>4.5</b> |
| <b>Right-out</b>   | <i>Headways</i> | 6.2       | 9.5       | 12.8      |           | 16.1     | 19.4     |          | 22.7     |          |          |          |          |          |          |            |            |
| tc = 6.2           | <i>% of Gap</i> | 0.9       | 0.75      | 0.4       |           | 0.05     | 0.7      |          | 0.35     |          |          |          |          |          |          |            |            |
| tf = 3.3           |                 | 24.3      | 18        | 6         | 25        | 3.6      | 5.4      | 8        | 0.4      |          |          |          |          |          |          |            |            |
|                    |                 |           |           |           |           |          |          |          |          |          |          |          |          |          |          |            |            |

| # of Gaps        | 42.3            | 34.60        | 13.80        | 13.90        | 4.75        | 2.95        | 2.95        | 2.95        | 3.00        |             |             |          |          |          |             |             |             |
|------------------|-----------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|----------|-------------|-------------|-------------|
| <b>Left-in</b>   | <i>Headways</i> | 4.1          | 6.3          | 8.5          | 10.7        | 12.9        | 15.1        | 17.3        | 21.7        | 23.9        |             |          |          |          |             |             |             |
| tc = 4.1         | <i>% of Gap</i> | 0.95         | 0.15         | 0.25         | 0.35        | 0.45        | 0.55        | 0.65        | 0.75        | 0.85        | 0.95        |          |          |          |             |             |             |
| tf = 2.2         |                 | 73.15        | 4.05         | 22.95        | 6           | 8.75        | 16.25       | 4.05        | 4.4         | 5.2         | 5.2         | 2.8      | 6.75     | 0.15     | 0.15        |             |             |
|                  |                 |              |              |              |             |             |             |             |             |             |             |          |          |          |             |             |             |
|                  |                 |              |              |              |             |             |             |             |             |             |             |          |          |          |             |             |             |
| <b># of Gaps</b> | <b>77.20</b>    | <b>28.95</b> | <b>26.75</b> | <b>20.30</b> | <b>9.35</b> | <b>8.80</b> | <b>9.55</b> | <b>3.10</b> | <b>3.00</b> | <b>1.20</b> | <b>0.95</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>2.00</b> | <b>2.00</b> | <b>2.00</b> |

**NY-96 at Proposed Access - PM**  
 Combined Directions (2 Lanes)

|                   |       | 2-3   | 4-5  | 6-7  | 8-9  | 10-11 | 12-13 | 14-15 | 16-17 | 18-19 | 20-21 | 22-23 | 24-25 | 26-27 | 28-29 | >29  | Int. Total | Average |
|-------------------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|---------|
| Start Time        |       |       |      |      |      |       |       |       |       |       |       |       |       |       |       |      |            |         |
| 4:45:00 PM        | 59    | 13    | 4    | 6    | 1    | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 84         | 2-3     |
| 5:00:00 PM        | 54    | 24    | 6    | 4    | 1    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 89         | 2-3     |
| 5:15:00 PM        | 43    | 14    | 8    | 0    | 3    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 68         | 2-3     |
| 5:30:00 PM        | 53    | 16    | 7    | 2    | 0    | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 80         | 2-3     |
| Grand Total       | 209   | 67    | 25   | 12   | 5    | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 321        | 2-3     |
| Left-out Headways |       | 7.1   | 10.6 | 14.1 | 17.6 | 21.1  | 24.6  |       |       |       |       |       |       |       |       |      |            |         |
| tc = 7.1          | 0.55  | 0.3   | 0.05 | 0.8  | 0.55 |       |       |       |       |       |       |       |       |       |       |      |            |         |
| tf = 3.5          | 13.75 | 12    | 2    | 2    | 0.05 |       |       |       |       |       |       |       |       |       |       |      |            |         |
|                   |       |       |      |      |      |       |       |       |       |       |       |       |       |       |       |      |            |         |
| # of Gaps         |       | 27.25 | 5.55 | 0.95 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |            |         |

#### Step 4: Determine Critical Headways and Follow-Up Headways

The critical headways  $t_{cx}$  and follow-up headways  $t_{fx}$  must be determined for the major-street left turns ( $v_{c,1}$  and  $v_{c,4}$ ), the minor-street right turns ( $v_{c,9}$  and  $v_{c,12}$ ), the major-street U-turns ( $v_{c,1U}$  and  $v_{c,4U}$ ), the minor-street through movements ( $v_{c,8}$  and  $v_{c,11}$ ), and the minor-street left turns ( $v_{c,7}$  and  $v_{c,10}$ ) as they occur at a TWSC intersection.

To compute the critical headways for each movement, the analyst begins with the base critical headway given in Exhibit 20-17 and makes movement-specific adjustments relating to the percentage of heavy vehicles, the grade encountered, and a three-leg versus four-leg intersection as shown in Equation 20-16.

$$t_{c,x} = t_{c,base} + t_{c,HV}P_{HV} + t_{c,G}G - t_{3,LT}$$

where

$t_{c,x}$  = critical headway for movement  $x$  (s);

$t_{c,base}$  = base critical headway from Exhibit 20-17 (s);

$t_{c,HV}$  = adjustment factor for heavy vehicles (1.0 for major streets with one lane in each direction; 2.0 for major streets with two or three lanes in each direction) (s);

$P_{HV}$  = proportion of heavy vehicles for movement (expressed as a decimal; e.g.,  $P_{HV} = 0.02$  for 2% heavy vehicles);

$t_{c,G}$  = adjustment factor for grade for given movement (0.1 for Movements 9 and 12; 0.2 for Movements 7, 8, 10, and 11) (s);

$G$  = percentage grade (expressed as an integer; e.g.,  $G = -2$  for a 2% downhill grade); and

$t_{3,LT}$  = adjustment factor for intersection geometry (0.7 for minor-street left-turn movement at three-leg intersections; 0.0 otherwise) (s).

| Vehicle Movement                | Base Critical Headway, $t_{c,base}$ (s)                         |   |  |
|---------------------------------|---|---|--|
|                                 | Two Lanes   | Four Lanes  | Six Lanes  |
| Left turn from major street     | 4.1   | 4.1   | 5.3  |
| U-turn from major street        | NA  | 6.4 (wide) <sup>a</sup><br>6.9 (narrow) <sup>a</sup>            | 5.6  |
| Right turn from minor street    | 6.2   | 6.9   | 7.1  |
| Through traffic on minor street | 1 stage: 6.5<br>2 stage, Stage I: 5.5<br>2 stage, Stage II: 5.5 | 1 stage: 6.5<br>2 stage, Stage I: 5.5<br>2 stage, Stage II: 5.5 | 1 stage: 6.5 <sup>b</sup><br>2 stage, Stage I: 5.5 <sup>b</sup><br>2 stage, Stage II: 5.5 <sup>b</sup> |
| Left turn from minor street     | 1 stage: 7.1<br>2 stage, Stage I: 6.1<br>2 stage, Stage II: 6.1 | 1 stage: 7.5<br>2 stage, Stage I: 6.5<br>2 stage, Stage II: 6.5 | 1 stage: 6.4<br>2 stage, Stage I: 7.3<br>2 stage, Stage II: 6.7  |

Notes: NA = not available.

<sup>a</sup> Narrow U-turns have a median nose width <21 ft; wide U-turns have a median nose width ≥21 ft.

<sup>b</sup> Use caution; values estimated.

| Vehicle Movement                | Base Follow-Up Headway, $t_{f,base}$ (s) |  |           |
|---------------------------------|--|--|-----------|
|                                 | Two Lanes                                | Four Lanes   | Six Lanes |
| Left turn from major street     | 2.2                                      | 2.2  | 3.1       |
| U-turn from major street        | NA                                       | 2.5 (wide) <sup>a</sup><br>3.1 (narrow) <sup>a</sup> | 2.3       |
| Right turn from minor street    | 3.3                                      | 3.3  | 3.9       |
| Through traffic on minor street | 4.0                                      | 4.0  | 4.0       |
| Left turn from minor street     | 3.5                                      | 3.5  | 3.8       |

Notes: NA = not available.

<sup>a</sup> Narrow U-turns have a median nose width <21 ft; wide U-turns have a median nose width ≥21 ft.

**Hartwell Heights  
Town of Perinton, NY**

Major Roadway: NY-96  
 Minor Roadway: Proposed Access  
 Lanes: 2  
 3 or 4 Legs: 3  
 Movement: Left Turn FROM Major Roadway

**AM Peak Hour # of one-way gaps (in seconds) between:**

| 4.1 | 6.3 | 8.5 | 10.7 | 12.9 | 15.1 | 17.3 | 19.5 | 21.7 | 23.9 | 26.1 | 28.3 | or greater | Left Turn Capacity |
|-----|-----|-----|------|------|------|------|------|------|------|------|------|------------|--------------------|
| 56  |     |     |      |      |      |      |      |      |      |      |      |            | 56                 |
|     | 38  |     |      |      |      |      |      |      |      |      |      |            | 76                 |
|     |     | 21  |      |      |      |      |      |      |      |      |      |            | 63                 |
|     |     |     | 14   |      |      |      |      |      |      |      |      |            | 56                 |
|     |     |     |      | 12   |      |      |      |      |      |      |      |            | 60                 |
|     |     |     |      |      | 9    |      |      |      |      |      |      |            | 54                 |
|     |     |     |      |      |      | 4    |      |      |      |      |      |            | 28                 |
|     |     |     |      |      |      |      | 5    |      |      |      |      |            | 40                 |
|     |     |     |      |      |      |      |      | 4    |      |      |      |            | 36                 |
|     |     |     |      |      |      |      |      |      | 5    |      |      |            | 50                 |
|     |     |     |      |      |      |      |      |      |      | 1    |      |            | 11                 |
|     |     |     |      |      |      |      |      |      |      |      | 5    |            | 60                 |
|     |     |     |      |      |      |      |      |      |      |      |      |            | 590                |

**PM Peak Hour # of one-way gaps (in seconds) between:**

| 4.1 | 6.3 | 8.5 | 10.7 | 12.9 | 15.1 | 17.3 | 19.5 | 21.7 | 23.9 | 26.1 | 28.3 | or greater | Left Turn Capacity |
|-----|-----|-----|------|------|------|------|------|------|------|------|------|------------|--------------------|
| 77  |     |     |      |      |      |      |      |      |      |      |      |            | 77                 |
|     | 28  |     |      |      |      |      |      |      |      |      |      |            | 56                 |
|     |     | 26  |      |      |      |      |      |      |      |      |      |            | 78                 |
|     |     |     | 20   |      |      |      |      |      |      |      |      |            | 80                 |
|     |     |     |      | 9    |      |      |      |      |      |      |      |            | 45                 |
|     |     |     |      |      | 8    |      |      |      |      |      |      |            | 48                 |
|     |     |     |      |      |      | 9    |      |      |      |      |      |            | 63                 |
|     |     |     |      |      |      |      | 3    |      |      |      |      |            | 24                 |
|     |     |     |      |      |      |      |      | 3    |      |      |      |            | 27                 |
|     |     |     |      |      |      |      |      |      | 1    |      |      |            | 10                 |
|     |     |     |      |      |      |      |      |      |      | 0    |      |            | 0                  |
|     |     |     |      |      |      |      |      |      |      |      | 2    |            | 24                 |
|     |     |     |      |      |      |      |      |      |      |      |      |            | 532                |

**Hartwell Heights  
Town of Perinton, NY**

Major Roadway: NY-96  
 Minor Roadway: Proposed Access  
 Lanes: 2  
 3 or 4 Legs: 3  
 Movement: Right Turn FROM Minor Roadway

**AM Peak Hour # of one-way gaps (in seconds) between:**

| 6.2 | 9.5 | 12.8 | 16.1 | 19.4 | 22.7 | 26.0 | or greater | Right Turn Capacity |
|-----|-----|------|------|------|------|------|------------|---------------------|
| 50  |     |      |      |      |      |      |            | 50                  |
|     | 25  |      |      |      |      |      |            | 50                  |
|     |     | 19   |      |      |      |      |            | 57                  |
|     |     |      | 6    |      |      |      |            | 24                  |
|     |     |      |      | 7    |      |      |            | 35                  |
|     |     |      |      |      | 7    |      |            | 42                  |
|     |     |      |      |      |      | 7    |            | 49                  |
|     |     |      |      |      |      |      |            | 307                 |

**PM Peak Hour # of one-way gaps (in seconds) between:**

| 6.2 | 9.5 | 12.8 | 16.1 | 19.4 | 22.7 | 26.0 | or greater | Right Turn Capacity |
|-----|-----|------|------|------|------|------|------------|---------------------|
| 42  |     |      |      |      |      |      |            | 42                  |
|     | 34  |      |      |      |      |      |            | 68                  |
|     |     | 13   |      |      |      |      |            | 39                  |
|     |     |      | 13   |      |      |      |            | 52                  |
|     |     |      |      | 4    |      |      |            | 20                  |
|     |     |      |      |      | 2    |      |            | 12                  |
|     |     |      |      |      |      | 3    |            | 21                  |
|     |     |      |      |      |      |      |            | 254                 |

**Hartwell Heights  
Town of Perinton, NY**

Major Roadway: NY-96  
 Minor Roadway: Proposed Access  
 Lanes: 2  
 3 or 4 Legs: 3  
 Movement: Left Turn FROM Minor Roadway

**AM Peak Hour # of two-way gaps (in seconds) between:**

| 7.1 | 10.6 | 14.1 | 17.6 | 21.1 | 24.6 | 28.1 | or greater | Left Turn Capacity |
|-----|------|------|------|------|------|------|------------|--------------------|
| 30  |      |      |      |      |      |      |            | 30                 |
|     | 11   |      |      |      |      |      |            | 22                 |
|     |      | 1    |      |      |      |      |            | 3                  |
|     |      |      | 1    |      |      |      |            | 4                  |
|     |      |      |      | 0    |      |      |            | 0                  |
|     |      |      |      |      | 0    |      |            | 0                  |
|     |      |      |      |      |      | 0    |            | 0                  |
|     |      |      |      |      |      |      |            | 59                 |

**PM Peak Hour # of two-way gaps (in seconds) between:**

| 7.1 | 10.6 | 14.1 | 17.6 | 21.1 | 24.6 | 28.1 | or greater | Left Turn Capacity |
|-----|------|------|------|------|------|------|------------|--------------------|
| 27  |      |      |      |      |      |      |            | 27                 |
|     | 5    |      |      |      |      |      |            | 10                 |
|     |      | 0    |      |      |      |      |            | 0                  |
|     |      |      | 0    |      |      |      |            | 0                  |
|     |      |      |      | 0    |      |      |            | 0                  |
|     |      |      |      |      | 0    |      |            | 0                  |
|     |      |      |      |      |      | 0    |            | 0                  |
|     |      |      |      |      |      |      |            | 37                 |

# Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 46

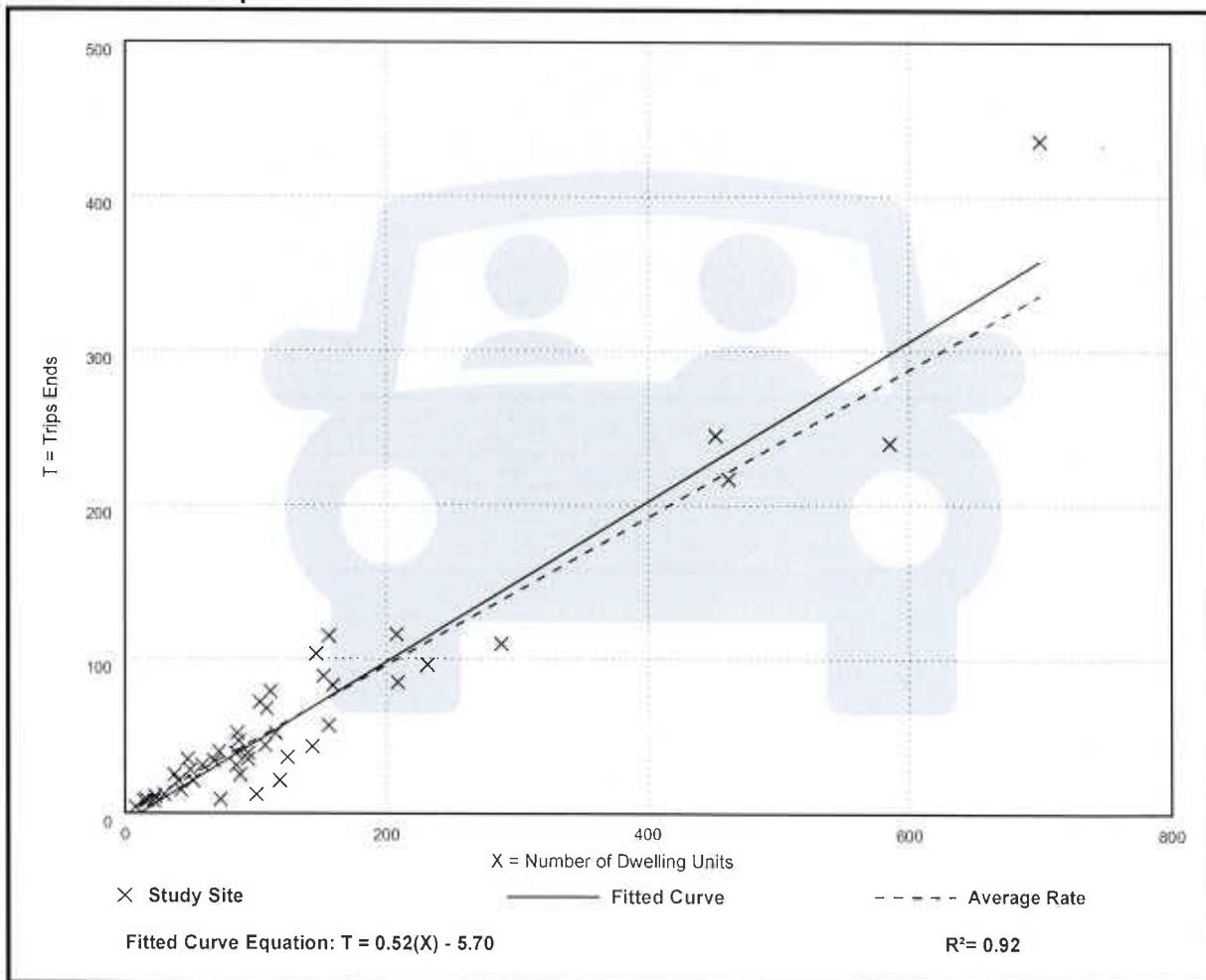
Avg. Num. of Dwelling Units: 135

Directional Distribution: 31% entering, 69% exiting

## Vehicle Trip Generation per Dwelling Unit

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.48         | 0.12 - 0.74    | 0.14               |

## Data Plot and Equation



## Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 51

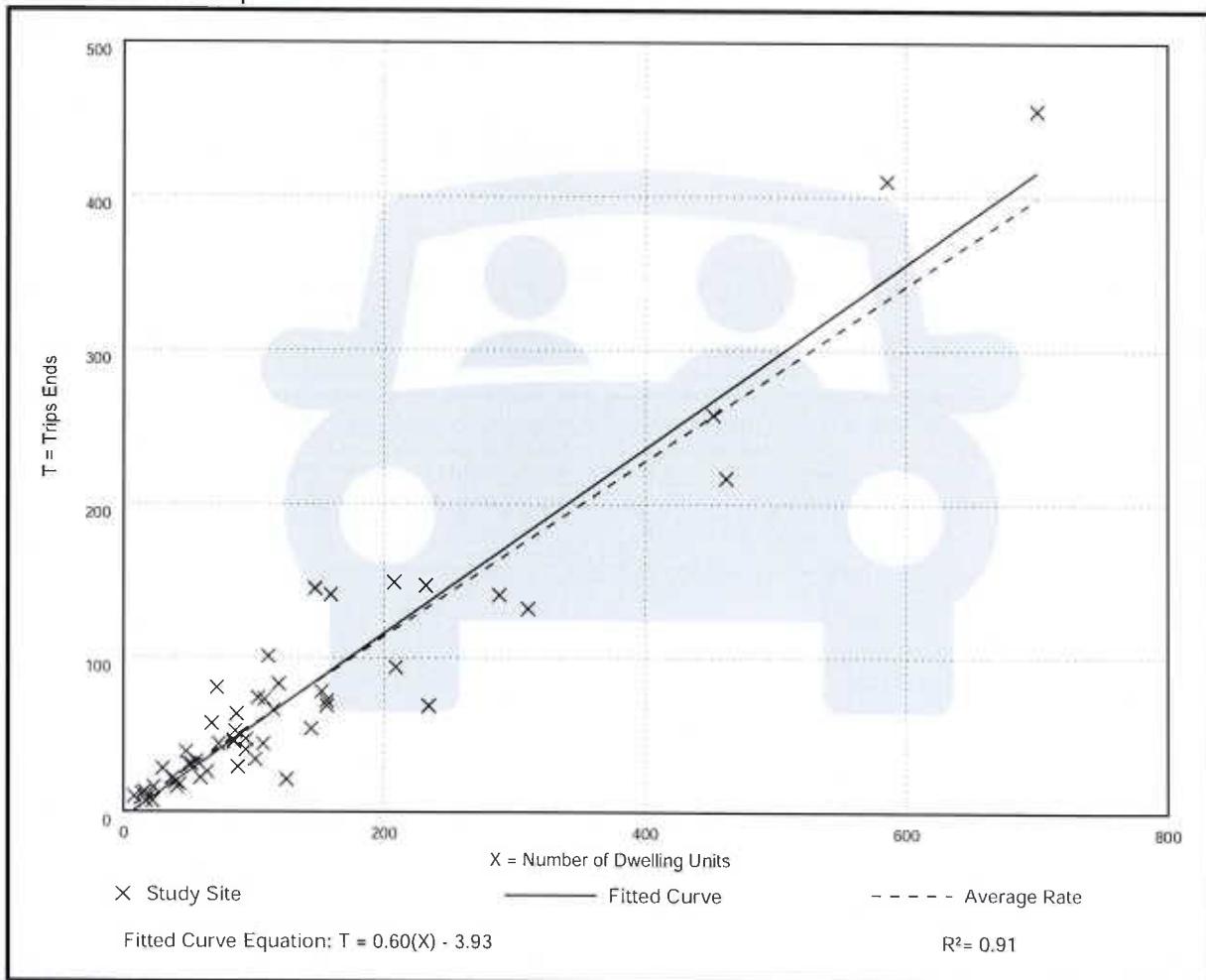
Avg. Num. of Dwelling Units: 136

Directional Distribution: 57% entering, 43% exiting

### Vehicle Trip Generation per Dwelling Unit

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.57         | 0.17 - 1.25    | 0.18               |

### Data Plot and Equation



Project: Hartwell Heights  
 Location: NY-96 / Thornell Road, Perinton, NY  
 Peak Hour: Weekday AM  
 Peak: 08:00 to 09:00  
 Condition: Proposed Action

Figure:

| Int. # | Intersection                  | 2025 Existing Counts | No Build<br>1,00% | # of Years    |              |               |                 | Site Trips | Full Build       |
|--------|-------------------------------|----------------------|-------------------|---------------|--------------|---------------|-----------------|------------|------------------|
|        |                               |                      |                   | Enter Dist. % | Exit Dist. % | Trips IN<br>4 | Trips OUT<br>10 |            |                  |
| 1      | Thornell Road Proposed Access |                      |                   |               |              |               |                 |            |                  |
|        | SR<br>ST-Thornell<br>SL       | 203                  | 213               | 10%           |              | 0             |                 | 0          | 213<br>0         |
|        | WR<br>WT-Access<br>WL         |                      |                   |               | 10%          |               | 1               | 1          | 1                |
|        | NR<br>NT-Thornell<br>NL       | 312                  | 328               | 10%           |              | 0             |                 | 0          | 328<br>0         |
|        | ER<br>ET<br>EL                |                      |                   |               |              |               |                 |            |                  |
|        | NY-96<br>Thornell Road        |                      |                   |               |              |               |                 |            |                  |
| 2      | SR<br>ST<br>SL                |                      |                   |               |              |               |                 |            |                  |
|        | WR<br>WT-NY-96<br>WL          | 565<br>187           | 594<br>197        |               | 20%          |               | 2               | 2          | 596<br>187       |
|        | NR<br>NT-Thornell<br>NL       | 274                  | 288               |               |              |               |                 |            | 288              |
|        | ER<br>ET-NY-96<br>EL          | 38<br>362            | 40<br>380         | 10%<br>20%    |              | 0<br>1        | 1               | 1          | 41<br>381        |
|        | NY-96<br>Proposed Access      |                      |                   |               |              |               |                 |            |                  |
|        | SR<br>ST<br>SL                |                      |                   |               |              |               |                 |            |                  |
| 3      | WR<br>WT-NY-96<br>WL          | 752                  | 790               | 60%           |              | 3             |                 | 3          | 790<br>3         |
|        | NR<br>NT<br>NL                |                      |                   |               | 60%          |               | 6               | 6          | 6                |
|        | ER<br>ET-NY-96<br>EL          | 636                  | 668               | 20%           |              | 1             |                 | 1          | 668<br>1         |
|        | NY-96<br>Marsh Road           |                      |                   |               |              |               |                 |            |                  |
|        | SR<br>ST-Marsh<br>SL          | 59<br>3<br>68        | 62<br>3<br>71     | 5%            |              | 0             |                 | 0          | 62<br>3<br>71    |
|        | WR<br>WT-NY-96<br>WL          | 96<br>698<br>11      | 101<br>734<br>12  | 55%           |              | 3             |                 | 3          | 101<br>737<br>12 |
| 4      | NR<br>NT-Plaza<br>NL          | 6<br>3               | 6<br>3            |               |              |               |                 |            | 6<br>3           |
|        | ER<br>ET-NY-96<br>EL          | 3<br>586<br>41       | 3<br>616<br>43    | 55%<br>5%     |              | 6             |                 | 6          | 3<br>622<br>43   |
|        | NY-96<br>Kreag Road           |                      |                   |               |              |               |                 |            |                  |
|        | SR<br>ST-NY-96<br>SL          | 13<br>377<br>218     | 14<br>396<br>229  |               | 40%<br>15%   |               | 4<br>2          | 4<br>2     | 14<br>400<br>231 |
|        | WR<br>WT-Kreag<br>WL          | 209<br>15<br>127     | 220<br>16<br>133  | 15%           |              | 1             |                 | 1          | 221<br>16<br>133 |
|        | NR<br>NT-NY-96<br>NL          | 216<br>561<br>18     | 227<br>590<br>19  | 40%           |              | 2             |                 | 2          | 227<br>592<br>19 |
| 5      | ER<br>ET-Bruegger's<br>EL     | 26<br>14<br>18       | 27<br>15<br>19    |               |              |               |                 |            | 27<br>15<br>19   |

Project: Hartwell Heights  
 Location: NY-96 / Thornell Road, Perinton, NY  
 Peak Hour: Weekday PM  
 Peak: 16:45 to 17:45  
 Condition: Proposed Action

Figure:

| Int. # | Intersection                  | 2025 Existing Counts | No Build<br>1.00% | Trip Generation and Trip Distribution |              |          |           | Site Trips | Full Build |
|--------|-------------------------------|----------------------|-------------------|---------------------------------------|--------------|----------|-----------|------------|------------|
|        |                               |                      |                   | Enter Dist. %                         | Exit Dist. % | Trips IN | Trips OUT |            |            |
| 1      | Thornell Road Proposed Access |                      |                   |                                       |              |          |           |            |            |
|        | SR ST-Thornell SL             | 283                  | 297               | 10%                                   |              | 1        | 7         | 1          | 297        |
|        | WR WT-Access WL               |                      |                   |                                       | 10%          | 1        | 1         | 1          | 1          |
|        | NR NT-Thornell NL             | 290                  | 305               | 10%                                   |              | 1        |           | 1          | 305        |
|        | ER ET EL                      |                      |                   |                                       |              |          |           |            |            |
|        | NY-96 Thornell Road           |                      |                   |                                       |              |          |           |            |            |
| 2      | SR ST SL                      |                      |                   |                                       |              |          |           |            |            |
|        | WR WT-NY-96 WL                | 596                  | 626               |                                       | 20%          |          | 1         | 1          | 627        |
|        | WL                            | 252                  | 265               |                                       |              |          |           |            | 265        |
|        | NR NT-Thornell NL             | 271                  | 285               |                                       |              |          |           |            | 285        |
|        | ER ET-NY-96 EL                | 19                   | 20                |                                       | 10%          | 1        | 1         | 1          | 21         |
|        | ET-NY-96                      | 31                   | 33                | 10%                                   |              | 1        |           | 1          | 34         |
| 3      | NY-96 Proposed Access         |                      |                   |                                       |              |          |           |            |            |
|        | SR ST SL                      |                      |                   |                                       |              |          |           |            |            |
|        | WR WT-NY-96 WL                | 848                  | 891               | 60%                                   |              | 6        |           | 6          | 891        |
|        | WL                            |                      |                   |                                       | 60%          |          | 4         | 4          | 6          |
|        | NR NT NL                      |                      |                   |                                       | 20%          |          | 1         | 1          | 4          |
|        | ER ET-NY-96 EL                | 747                  | 785               | 20%                                   |              | 2        |           | 2          | 785        |
| 4      | NY-96 Marsh Road              |                      |                   |                                       |              |          |           |            |            |
|        | SR ST-Marsh SL                | 75                   | 79                | 5%                                    |              | 1        |           | 1          | 80         |
|        | SL                            | 18                   | 19                |                                       |              |          |           |            | 19         |
|        | WR WT-NY-96 WL                | 137                  | 144               |                                       |              |          |           |            | 144        |
|        | WL                            | 720                  | 757               | 55%                                   |              | 5        |           | 5          | 762        |
|        | NR NT-Plaza NL                | 65                   | 68                |                                       |              |          |           |            | 68         |
| 5      | NR NT-Plaza NL                | 61                   | 64                |                                       |              |          |           |            | 64         |
|        | ER ET-NY-96 EL                | 23                   | 24                |                                       |              |          |           |            | 24         |
|        | EL                            | 53                   | 56                |                                       |              |          |           |            | 56         |
|        | NY-96 Kreag Road              | 12                   | 13                |                                       |              |          |           |            | 13         |
|        | ER ET-NY-96 EL                | 626                  | 658               | 55%                                   |              | 4        | 0         | 4          | 662        |
|        | EL                            | 61                   | 64                | 5%                                    |              | 0        | 0         | 0          | 64         |

Station : 3369 - NY96 Pittsford-Victor Rd @ Marsh Rd ( Standard File )

| Phase              | 1<br>(EL) | 2<br>(WT) | 3<br>(ST) | 4   | 5<br>(WL) | 6<br>(ET) | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--------------------|-----------|-----------|-----------|-----|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Walk               | 7         |           | 7         |     | 7         |           | 7   |     |     |     |     |     |     |     |     |     |
| Ped Clearance      |           | 18        |           | 18  |           | 18        |     | 18  |     |     |     |     |     |     |     |     |
| Min Green          | 5         | 15        |           | 10  | 5         | 15        |     | 10  |     |     |     |     |     |     |     |     |
| Passage            | 2         | 2         |           | 3   | 2         | 2         |     | 3   |     |     |     |     |     |     |     |     |
| Max1               | 20        | 35        |           | 35  | 20        | 35        |     | 35  |     |     |     |     |     |     |     |     |
| Max2               |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Yellow             | 3.5       | 3.5       | 3.5       | 3.5 | 3.5       | 3.5       | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red                | 1.5       | 2         | 1.5       | 1.5 | 1.5       | 2         | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert         |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Added Initial      |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Max Initial        |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Time Before Reduce |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Cars Before Reduce |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Time To Reduce     |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Reduce By          |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Min Gap            |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Dynamic Max Limit  |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Dynamic Max Step   |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Enable             | ON        | ON        |           | ON  | ON        | ON        |     | ON  |     |     |     |     |     |     |     |     |
| Auto Entry         |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Auto Exit          |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Non Act1           |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Non Act2           |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Lock Call          |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Min Recall         |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Max Recall         |           | ON        |           |     |           |           | ON  |     |     |     |     |     |     |     |     |     |
| Ped Recall         |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Soft Recall        |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Dual Entry         |           | ON        |           | ON  |           |           |     |     |     |     |     |     |     |     |     |     |
| Sim Gap Enable     | ON        | ON        | ON        | ON  | ON        | ON        | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| Guar Passage       |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Rest In Walk       |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Cond Service       |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |
| Add Init Calc      |           |           |           |     |           |           |     |     |     |     |     |     |     |     |     |     |

**Preemption**

| Channel         | 1  | 2  | 3  | 4  | 5  | 6  |
|-----------------|----|----|----|----|----|----|
| Lock Input      | ON | ON | ON | ON | ON | ON |
| Override Flash  | ON | ON | ON | ON | ON | ON |
| Override Higher | ON | ON | ON | ON | ON | ON |
| Flash Dwell     |    |    |    |    |    |    |
| Link            |    |    |    |    |    |    |
| Delay           |    |    |    |    |    |    |
| Min Duration    |    |    |    |    |    |    |
| Min Green       |    |    |    |    |    |    |
| Min Walk        |    |    |    |    |    |    |
| Ped Clear       |    |    |    |    |    |    |
| Track Green     |    |    |    |    |    |    |
| Min Dwell       | 2  | 2  | 2  | 2  | 2  | 2  |
| Max Presence    |    |    |    |    |    |    |
| Track R1        |    |    |    |    |    |    |
| Track R2        |    |    |    |    |    |    |
| Track R3        |    |    |    |    |    |    |
| Track R4        |    |    |    |    |    |    |
| Dwell Ped1      |    |    |    |    |    |    |
| Exit R1         |    |    |    |    |    |    |
| Exit R2         |    |    |    |    |    |    |
| Exit R3         |    |    |    |    |    |    |
| Exit R4         |    |    |    |    |    |    |

**Preempt LP**

| Channel          | 1   | 2   | 3   | 4   |
|------------------|-----|-----|-----|-----|
| Min              |     |     |     |     |
| Max              |     |     |     |     |
| Type             |     |     |     |     |
| Lockout Mode     | MAX | MAX | MAX | MAX |
| Coord in Preempt |     |     |     |     |
| Priority P1      |     |     |     |     |
| Priority P2      |     |     |     |     |
| Priority P3      |     |     |     |     |
| Priority P4      |     |     |     |     |
| Priority P5      |     |     |     |     |
| Priority P6      |     |     |     |     |
| Priority P7      |     |     |     |     |
| Priority P8      |     |     |     |     |
| Priority P9      |     |     |     |     |
| Priority P10     |     |     |     |     |
| Priority P11     |     |     |     |     |
| Priority P12     |     |     |     |     |
| Max Lockout      |     |     |     |     |

**Station :** 3369 - NY96 Pittsford-Victor Rd @ Marsh Rd ( Standard File )

### Coordination

| Hour              | Minute | Action | Pattern | Cycle | Offset | Split | seqnc | Short | Long | Dwell | Split 1 | Split 2     | Split 3 | Split 4 | Split 5 | Split 6 | Split 7 | Split 8 | Split 9 | Split 10 | Split 11 | Split 12 | Split 13 | Split 14 | Split 15 | Split 16 |
|-------------------|--------|--------|---------|-------|--------|-------|-------|-------|------|-------|---------|-------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| <b>Day Plan 1</b> |        |        |         |       |        |       |       |       |      |       |         | <b>Easy</b> |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| 6                 | 50     | 1      | 1       | 90    | 10     | 1     | 1     | 12    | 22   |       | 15      | 40          |         | 35      | 15      | 40      |         | 35      |         |          |          |          |          |          |          |          |
| 9                 |        | 2      | 2       | 90    | 25     | 2     | 1     | 12    | 22   |       | 15      | 40          |         | 35      | 15      | 40      |         | 35      |         |          |          |          |          |          |          |          |
| 14                |        | 3      | 3       | 90    |        | 3     | 1     | 12    | 22   |       | 15      | 40          |         | 35      | 15      | 40      |         | 35      |         |          |          |          |          |          |          |          |
| 22                |        | 25     |         |       |        |       |       |       |      |       |         |             |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
|                   |        | 25     |         |       |        |       |       |       |      |       |         |             |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| <b>Day Plan 2</b> |        |        |         |       |        |       |       |       |      |       |         | <b>Easy</b> |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| <b>Day Plan 3</b> |        |        |         |       |        |       |       |       |      |       |         | <b>Easy</b> |         |         |         |         |         |         |         |          |          |          |          |          |          |          |

NYSDOT - Region 4

## Timing Sheet

4/17/2025 2:18:12 PM

Station : 3369 - NY96 Pittsford-Victor Rd @ Marsh Rd ( Standard File )

| Hour       | Minute | Action | Pattern | Cycle | Offset | Split | seqnc | Short | Long | Dwell | Split 1 | Split 2 | Split 3 | Split 4 | Split 5 | Split 6 | Split 7 | Split 8 | Split 9 | Split 10 | Split 11 | Split 12 | Split 13 | Split 14 | Split 15 | Split 16 |
|------------|--------|--------|---------|-------|--------|-------|-------|-------|------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Day Plan 4 |        |        |         |       |        |       |       |       |      |       |         |         |         |         |         | Easy    |         |         |         |          |          |          |          |          |          |          |
|            |        |        |         |       |        |       |       |       |      |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |

## Scheduler

| Plan | Month |   |   | Day of Weekk |   |   |   |   |   |   | Day of Month |   |   |   |   |   |   | 1 |   |   |   | 2 |   |   |   | 3 |   |   |   | Day Plan |   |   |   |   |   |   |   |   |   |
|------|-------|---|---|--------------|---|---|---|---|---|---|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---|---|
|      | J     | F | M | A            | M | J | J | A | S | O | N            | D | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 1    | 1     | 1 | 1 | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 3    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 4    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 5    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 6    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 7    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 8    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 9    |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 10   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 11   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 12   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 13   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 14   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 15   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 16   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 17   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 18   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 19   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 20   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 21   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 22   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 23   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 24   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 25   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 26   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 27   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 28   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 29   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 30   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 31   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |
| 32   |       |   |   |              |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   | 1 |   |   |   |

User Comments:

NYSDOT - Region 4

## Timing Sheet

4/17/2025 2:18:59 PM

Station : 32601 - NY96 Pittsford-Victor Rd @ Kreag Rd (CR27) ( Standard File )

| Phase              | 1<br>(SL) | 2<br>(NR) | 3   | 4<br>(ET) | 5   | 6<br>(ST) | 7   | 8<br>(WR) | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--------------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Walk               | 7         |           |     | 7         |     | 7         |     |           |     |     |     |     |     |     |     |     |
| Ped Clearance      | 20        |           |     | 20        |     | 20        |     |           |     |     |     |     |     |     |     |     |
| Min Green          | 5         | 20        |     | 5         |     | 20        |     |           | 5   |     |     |     |     |     |     |     |
| Gap Ext            | 2         | 2         |     | 2         |     | 2         |     |           | 2   |     |     |     |     |     |     |     |
| Max1               | 15        | 35        |     | 35        |     | 35        |     |           | 35  |     |     |     |     |     |     |     |
| Max2               |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Yellow Clr         | 3.5       | 3.5       | 3.5 | 3.5       | 3.5 | 3.5       | 3.5 | 3.5       | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red Clr            | 2         | 2         | 1.5 | 2         | 1.5 | 2         | 1.5 | 2         | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert         |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Added Initial      |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Max Initial        |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Time Before Reduce |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Cars Before Reduce |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Time To Reduce     |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Reduce By          |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Min Gap            |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Dynamic Max Limit  |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Dynamic Max Step   |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Enable             | ON        | ON        |     | ON        |     | ON        |     | ON        |     | ON  |     | ON  |     | ON  |     | ON  |
| Auto Flash Entry   |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Auto Flash Exit    |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Non-Actuated 1     |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Non-Actuated 2     |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Lock Calls         |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Min Recall         |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Max Recall         |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Ped Recall         |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Soft Recall        |           | ON        |     |           |     | ON        |     |           |     |     |     |     |     |     |     |     |
| Dual Entry         |           | ON        |     | ON        |     | ON        |     | ON        |     | ON  |     | ON  |     | ON  |     | ON  |
| Sim Gap Enable     | ON        | ON        | ON  | ON        | ON  | ON        | ON  | ON        | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| Guarantid Passage  |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Rest In Walk       |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Cond Service       |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |
| Added Init Calc    |           |           |     |           |     |           |     |           |     |     |     |     |     |     |     |     |

## Preemption

| Channel                 | 1  | 2  | 3  | 4  | 5  | 6  |
|-------------------------|----|----|----|----|----|----|
| Lock Input              | ON | ON | ON | ON | ON | ON |
| Override Auto Flash     | ON | ON | ON | ON | ON | ON |
| Override Higher Preempt | ON | ON | ON | ON | ON | ON |
| Flash in Dwell          |    |    |    |    |    |    |
| Link to Preempt         |    |    |    |    |    |    |
| Delay                   |    |    |    |    |    |    |
| Min Duration            |    |    |    |    |    |    |
| Min Green               |    |    |    |    |    |    |
| Min Walk                |    |    |    |    |    |    |
| Ped Clear               |    |    |    |    |    |    |
| Track Green             |    |    |    |    |    |    |
| Min Dwell               | 2  | 2  | 2  | 2  | 2  | 2  |
| Max Presence            |    |    |    |    |    |    |
| Track Veh1              |    |    |    |    |    |    |
| Track Veh2              |    |    |    |    |    |    |
| Track Veh3              |    |    |    |    |    |    |
| Track Veh4              |    |    |    |    |    |    |
| Dwell Cyc Veh1          |    |    |    |    |    |    |
| Dwell Cyc Veh2          |    |    |    |    |    |    |
| Dwell Cyc Veh3          |    |    |    |    |    |    |
| Dwell Cyc Veh4          |    |    |    |    |    |    |
| Dwell Cyc Veh5          |    |    |    |    |    |    |
| Dwell Cyc Veh6          |    |    |    |    |    |    |
| Dwell Cyc Veh7          |    |    |    |    |    |    |
| Dwell Cyc Veh8          |    |    |    |    |    |    |
| Dwell Cyc Veh9          |    |    |    |    |    |    |
| Dwell Cyc Veh10         |    |    |    |    |    |    |
| Dwell Cyc Veh11         |    |    |    |    |    |    |
| Dwell Cyc Veh12         |    |    |    |    |    |    |
| Dwell Cyc Ped1          |    |    |    |    |    |    |
| Dwell Cyc Ped2          |    |    |    |    |    |    |
| Dwell Cyc Ped3          |    |    |    |    |    |    |

## Preempt LP

| Channel          | 1   | 2   | 3   | 4   |
|------------------|-----|-----|-----|-----|
| Mfn              |     |     |     |     |
| Max              |     |     |     |     |
| Enable           |     |     |     |     |
| Lock Mode        | MAX | MAX | MAX | MAX |
| Coord in Preempt |     |     |     |     |
| No Skip          |     |     |     |     |
| Priority P1      |     |     |     |     |
| Priority P2      |     |     |     |     |
| Priority P3      |     |     |     |     |
| Priority P4      |     |     |     |     |
| Lock             |     |     |     |     |
| Headway          |     |     |     |     |
| Group Lock       |     |     |     |     |
| Queue Jump       |     |     |     |     |
| Free Mode        |     |     |     |     |
| Alt Table        |     |     |     |     |

|                |  |  |  |
|----------------|--|--|--|
| Dwell Cyc Ped4 |  |  |  |
| Dwell Cyc Ped5 |  |  |  |
| Dwell Cyc Ped6 |  |  |  |
| Dwell Cyc Ped7 |  |  |  |
| Dwell Cyc Ped8 |  |  |  |
| Exit 1         |  |  |  |
| Exit 2         |  |  |  |
| Exit 3         |  |  |  |
| Exit 4         |  |  |  |

**Station :** 32601 - NY96 Pittsford-Victor Rd @ Kreag Rd (CR27) ( Standard File )

## Coordination

Station : 32601 - NY96 Pittsford-Victor Rd @ Kreag Rd (CR27) ( Standard File )

| Hour              | Minute | Action | Pattern | Cycle | Offset | Split | seqnc | Short | Long | Dwell | Split 1 | Split 2 | Split 3 | Split 4 | Split 5 | Split 6 | Split 7 | Split 8     | Split 9 | Split 10 | Split 11 | Split 12 | Split 13 | Split 14 | Split 15 | Split 16 |
|-------------------|--------|--------|---------|-------|--------|-------|-------|-------|------|-------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|----------|----------|----------|----------|----------|----------|----------|
| <b>Day Plan 4</b> |        |        |         |       |        |       |       |       |      |       |         |         |         |         |         |         |         | <b>Easy</b> |         |          |          |          |          |          |          |          |

### Scheduler

| Plan | Month |   |   | Day of Weekk |   | Day of Month |   | 1 |   |   | 2 |   |   | 3 |   |   | Day Plan |   |   |   |
|------|-------|---|---|--------------|---|--------------|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|
|      | J     | F | M | A            | M | J            | J | A | S | O | N | D | S | M | T | W | T        | F | S |   |
| 1    | 1     | 1 | 1 | 1            | 1 | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1 | 1 |
| 2    | 1     | 1 | 1 | 1            | 1 | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1 | 1 |
| 3    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 4    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 5    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 6    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 7    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 8    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 9    |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 10   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 11   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 12   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 13   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 14   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 15   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 16   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 17   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 18   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 19   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 20   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 21   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 22   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 23   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 24   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 25   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 26   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 27   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 28   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 29   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 30   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 31   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |
| 32   |       |   |   |              |   |              |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 |

### User Comments:

## **APPENDIX C: LOS CALCULATIONS – EXISTING CONDITIONS**



| Lane Group              | EBT   | EBR  | WBL   | WBT  | NBL   | NBR  |
|-------------------------|-------|------|-------|------|-------|------|
| Lane Configurations     | 1     | 1    | 1     | 1    | 1     | 1    |
| Traffic Volume (vph)    | 362   | 16   | 187   | 565  | 38    | 274  |
| Future Volume (vph)     | 362   | 16   | 187   | 565  | 38    | 274  |
| Ideal Flow (vphpl)      | 1900  | 1900 | 1900  | 1900 | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12   | 12    | 12   | 12    | 12   |
| Grade (%)               | 0%    |      |       | 0%   | 0%    |      |
| Storage Length (ft)     |       | 0    | 90    |      | 30    | 0    |
| Storage Lanes           |       | 0    | 1     |      | 1     | 1    |
| Taper Length (ft)       |       |      | 110   |      | 90    |      |
| Lane Util. Factor       | 1.00  | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 |
| Ped Bike Factor         |       |      |       |      |       |      |
| Fr <sub>t</sub>         | 0.994 |      |       |      | 0.850 |      |
| Flt Protected           |       |      | 0.950 |      | 0.950 |      |
| Satd. Flow (prot)       | 1793  | 0    | 1703  | 1827 | 1752  | 1553 |
| Flt Permitted           |       |      | 0.950 |      | 0.950 |      |
| Satd. Flow (perm)       | 1793  | 0    | 1703  | 1827 | 1752  | 1553 |
| Link Speed (mph)        | 30    |      |       | 30   | 35    |      |
| Link Distance (ft)      | 1210  |      |       | 1153 | 883   |      |
| Travel Time (s)         | 27.5  |      |       | 26.2 | 17.2  |      |
| Confl. Peds. (#/hr)     |       |      |       |      |       |      |
| Confl. Bikes (#/hr)     |       |      |       |      |       |      |
| Peak Hour Factor        | 0.93  | 0.93 | 0.93  | 0.93 | 0.93  | 0.93 |
| Growth Factor           | 100%  | 100% | 100%  | 100% | 100%  | 100% |
| Heavy Vehicles (%)      | 5%    | 13%  | 6%    | 4%   | 3%    | 4%   |
| Bus Blockages (#/hr)    | 0     | 0    | 0     | 0    | 0     | 0    |
| Parking (#/hr)          |       |      |       |      |       |      |
| Mid-Block Traffic (%)   | 0%    |      |       | 0%   | 0%    |      |
| Adj. Flow (vph)         | 389   | 17   | 201   | 608  | 41    | 295  |
| Shared Lane Traffic (%) |       |      |       |      |       |      |
| Lane Group Flow (vph)   | 406   | 0    | 201   | 608  | 41    | 295  |
| Sign Control            | Free  |      |       | Free | Stop  |      |

#### Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 43.7%

ICU Level of Service A

Analysis Period (min) 15

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 5.3    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | 1      | 1      | 1      | 1    | 1     | 1     |
| Traffic Vol, veh/h       | 362    | 16     | 187    | 565  | 38    | 274   |
| Future Vol, veh/h        | 362    | 16     | 187    | 565  | 38    | 274   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | 90     | -    | 30    | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 93     | 93     | 93     | 93   | 93    | 93    |
| Heavy Vehicles, %        | 5      | 13     | 6      | 4    | 3     | 4     |
| Mvmt Flow                | 389    | 17     | 201    | 608  | 41    | 295   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 406    | 0    | 1408  | 398   |
| Stage 1                  | -      | -      | -      | -    | 398   | -     |
| Stage 2                  | -      | -      | -      | -    | 1010  | -     |
| Critical Hdwy            | -      | -      | 4.16   | -    | 6.43  | 6.24  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.43  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.43  | -     |
| Follow-up Hdwy           | -      | -      | 2.254  | -    | 3.527 | 3.336 |
| Pot Cap-1 Maneuver       | -      | -      | 1131   | -    | 152   | 647   |
| Stage 1                  | -      | -      | -      | -    | 676   | -     |
| Stage 2                  | -      | -      | -      | -    | 351   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1131   | -    | 125   | 647   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 125   | -     |
| Stage 1                  | -      | -      | -      | -    | 676   | -     |
| Stage 2                  | -      | -      | -      | -    | 288   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Ctrl Dly, s/v        | 0      | 2.21   | 19.01  |      |       |       |
| HCM LOS                  |        |        | C      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 125    | 647    | -      | -    | 1131  | -     |
| HCM Lane V/C Ratio       | 0.326  | 0.455  | -      | -    | 0.178 | -     |
| HCM Ctrl Dly (s/v)       | 47.1   | 15.1   | -      | -    | 8.9   | -     |
| HCM Lane LOS             | E      | C      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 1.3    | 2.4    | -      | -    | 0.6   | -     |

## Lanes, Volumes, Timings

2025 Existing AM

## 4: Hitching Post Plaza/Marsh Road &amp; NY-96

04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     | 1     | 1     | 1    | 1     | 1     | 1    | 1     | 1     | 1     | 1     | 1     | 1     |
| Traffic Volume (vph)    | 41    | 586   | 3    | 11    | 698   | 96   | 3     | 0     | 6     | 68    | 3     | 59    |
| Future Volume (vph)     | 41    | 586   | 3    | 11    | 698   | 96   | 3     | 0     | 6     | 68    | 3     | 59    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               | 0%    |       |      | 0%    |       |      | 0%    |       | 0%    |       | 0%    |       |
| Storage Length (ft)     | 230   |       | 0    | 160   |       | 0    | 0     |       | 0     | 0     |       | 70    |
| Storage Lanes           | 1     |       | 0    | 1     |       | 0    | 0     |       | 1     | 0     |       | 1     |
| Taper Length (ft)       | 80    |       |      | 25    |       |      | 25    |       |       | 25    |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |      |       |       |       |       |       |       |
| Frt                     |       | 0.999 |      |       | 0.982 |      |       |       | 0.850 |       |       | 0.850 |
| Flt Protected           | 0.950 |       |      | 0.950 |       |      |       | 0.950 |       |       | 0.954 |       |
| Satd. Flow (prot)       | 1805  | 1805  | 0    | 1421  | 1781  | 0    | 0     | 1805  | 1214  | 0     | 1714  | 1509  |
| Flt Permitted           | 0.221 |       |      | 0.375 |       |      |       | 0.707 |       |       | 0.733 |       |
| Satd. Flow (perm)       | 420   | 1805  | 0    | 561   | 1781  | 0    | 0     | 1343  | 1214  | 0     | 1317  | 1509  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       |      |       | 9     |      |       |       | 85    |       |       | 85    |
| Link Speed (mph)        |       | 30    |      |       | 30    |      |       | 10    |       |       | 30    |       |
| Link Distance (ft)      |       | 1153  |      |       | 592   |      |       | 497   |       |       | 595   |       |
| Travel Time (s)         |       | 26.2  |      |       | 13.5  |      |       | 33.9  |       |       | 13.5  |       |
| Confl. Peds. (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Peak Hour Factor        | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 5%    | 33%  | 27%   | 5%    | 3%   | 0%    | 0%    | 33%   | 6%    | 0%    | 7%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |      |       |       |       |       |       |       |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)         | 45    | 637   | 3    | 12    | 759   | 104  | 3     | 0     | 7     | 74    | 3     | 64    |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 45    | 640   | 0    | 12    | 863   | 0    | 0     | 3     | 7     | 0     | 77    | 64    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |      | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |      |       | 4     |       |       |       | 8     |
| Permitted Phases        | 6     |       |      | 2     |       |      | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |      | 4     | 4     | 4     | 8     | 8     | 8     |
| Switch Phase            |       |       |      |       |       |      |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |      | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |      | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |      | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |      | 5.0   | 5.0   |       | 5.0   | 5.0   |       |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |      |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |      |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |       |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2025 Existing AM  
04/29/2025

| Lane Group              | EBL  | EBT   | EBR | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|-------|-----|------|-------|------|------|------|------|------|------|------|
| Minimum Gap (s)         | 2.0  | 2.0   |     | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |     | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       |     | 7.0  |       | 7.0  |      | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       |     | 18.0 |       | 18.0 |      | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) | 0    |       |     | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 70.6 | 70.4  |     | 68.2 | 66.2  |      |      | 11.6 | 11.6 |      | 11.6 | 11.6 |
| Actuated g/C Ratio      | 0.78 | 0.78  |     | 0.76 | 0.74  |      | 0.13 | 0.13 |      | 0.13 | 0.13 |      |
| v/c Ratio               | 0.11 | 0.45  |     | 0.03 | 0.66  |      | 0.02 | 0.03 |      | 0.46 | 0.24 |      |
| Control Delay (s/veh)   | 3.7  | 6.8   |     | 2.5  | 9.0   |      | 32.7 | 0.2  |      | 44.8 | 7.1  |      |
| Queue Delay             | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  |      | 0.0  | 0.0  |      |
| Total Delay (s/veh)     | 3.7  | 6.8   |     | 2.5  | 9.0   |      | 32.7 | 0.2  |      | 44.8 | 7.1  |      |
| LOS                     | A    | A     |     | A    | A     |      |      | C    | A    |      | D    | A    |
| Approach Delay (s/veh)  |      | 6.6   |     |      | 8.9   |      |      | 9.9  |      |      | 27.7 |      |
| Approach LOS            |      | A     |     |      | A     |      |      | A    |      |      | C    |      |
| Queue Length 50th (ft)  | 5    | 99    |     | 1    | 112   |      | 2    | 0    |      | 42   | 0    |      |
| Queue Length 95th (ft)  | 15   | 301   |     | m3   | 238   |      | 9    | 0    |      | 82   | 23   |      |
| Internal Link Dist (ft) |      | 1073  |     |      | 512   |      |      | 417  |      |      | 515  |      |
| Turn Bay Length (ft)    | 230  |       |     | 160  |       |      |      |      |      |      |      | 70   |
| Base Capacity (vph)     | 486  | 1411  |     | 539  | 1312  |      | 447  | 461  |      | 439  | 559  |      |
| Starvation Cap Reductn  | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Spillback Cap Reductn   | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Storage Cap Reductn     | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Reduced v/c Ratio       | 0.09 | 0.45  |     | 0.02 | 0.66  |      | 0.01 | 0.02 |      | 0.18 | 0.11 |      |

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 10 (11%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.66

Intersection Signal Delay (s/veh): 9.5

Intersection LOS: A

Intersection Capacity Utilization 71.7%

ICU Level of Service C

Analysis Period (min) 15

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road & NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2025 Existing AM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 18    | 14    | 26   | 127   | 15    | 209   | 18    | 561   | 216   | 218   | 377   | 13   |
| Future Volume (vph)     | 18    | 14    | 26   | 127   | 15    | 209   | 18    | 561   | 216   | 218   | 377   | 13   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Fr <sub>t</sub>         |       | 0.939 |      |       |       | 0.850 |       |       | 0.850 |       | 0.995 |      |
| Flt Protected           |       | 0.985 |      |       | 0.957 |       | 0.950 |       |       |       | 0.950 |      |
| Satd. Flow (prot)       | 0     | 1726  | 0    | 0     | 1786  | 1495  | 1805  | 1827  | 1568  | 1703  | 1820  | 0    |
| Flt Permitted           |       | 0.875 |      |       | 0.760 |       | 0.519 |       |       | 0.257 |       |      |
| Satd. Flow (perm)       | 0     | 1533  | 0    | 0     | 1419  | 1495  | 986   | 1827  | 1568  | 461   | 1820  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes   |       |       | Yes   |       | Yes   |      |
| Satd. Flow (RTOR)       |       | 28    |      |       |       | 97    |       |       | 138   |       | 2     |      |
| Link Speed (mph)        |       | 30    |      |       | 35    |       |       | 30    |       |       | 30    |      |
| Link Distance (ft)      |       | 765   |      |       | 1110  |       |       | 973   |       |       | 592   |      |
| Travel Time (s)         |       | 17.4  |      |       | 21.6  |       |       | 22.1  |       |       | 13.5  |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.94  | 0.94  | 0.94 | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 4%   | 2%    | 0%    | 8%    | 0%    | 4%    | 3%    | 6%    | 4%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 19    | 15    | 28   | 135   | 16    | 222   | 19    | 597   | 230   | 232   | 401   | 14   |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 62    | 0    | 0     | 151   | 222   | 19    | 597   | 230   | 232   | 415   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 32.5  | 32.5  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2025 Existing AM  
04/29/2025

| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL   | NBT   | NBR  | SBL   | SBT | SBR |
|-------------------------|------|------|-----|------|------|------|-------|-------|------|-------|-----|-----|
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   | 2.0  | 2.0   | 2.0 | 2.0 |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 |
| Recall Mode             | None | None |     | None | None | None | C-Max | C-Max | None | C-Max |     |     |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      | 7.0   | 7.0   |      | 7.0   |     |     |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      | 20.0  | 20.0  |      | 20.0  |     |     |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      | 0     | 0     |      | 0     |     |     |
| Act Effct Green (s)     | 14.8 |      |     | 14.8 | 32.5 | 51.6 | 46.5  | 46.5  | 64.2 | 59.9  |     |     |
| Actuated g/C Ratio      | 0.16 |      |     | 0.16 | 0.36 | 0.57 | 0.52  | 0.52  | 0.71 | 0.67  |     |     |
| v/c Ratio               | 0.23 |      |     | 0.65 | 0.37 | 0.03 | 0.63  | 0.26  | 0.47 | 0.34  |     |     |
| Control Delay (s/veh)   | 20.8 |      |     | 47.0 | 11.3 | 6.8  | 22.8  | 7.7   | 11.4 | 7.8   |     |     |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |     |
| Total Delay (s/veh)     | 20.8 |      |     | 47.0 | 11.3 | 6.8  | 22.8  | 7.7   | 11.4 | 7.8   |     |     |
| LOS                     | C    |      |     | D    | B    | A    | C     | A     | B    | A     |     |     |
| Approach Delay (s/veh)  | 20.8 |      |     | 25.8 |      |      | 18.3  |       |      | 9.1   |     |     |
| Approach LOS            | C    |      |     | C    |      |      | B     |       |      | A     |     |     |
| Queue Length 50th (ft)  | 17   |      |     | 81   | 49   | 3    | 232   | 26    | 33   | 64    |     |     |
| Queue Length 95th (ft)  | 47   |      |     | 132  | 79   | 11   | #509  | 88    | 117  | 141   |     |     |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893   |       |      | 512   |     |     |
| Turn Bay Length (ft)    |      |      |     |      |      |      | 100   |       | 125  | 100   |     |     |
| Base Capacity (vph)     | 521  |      |     | 465  | 650  | 792  | 943   | 876   | 540  | 1211  |     |     |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0   |     |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0   |     |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0   |     |
| Reduced v/c Ratio       | 0.12 |      |     | 0.32 | 0.34 | 0.02 | 0.63  | 0.26  | 0.43 | 0.34  |     |     |

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 87 (97%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.65

Intersection Signal Delay (s/veh): 16.7

Intersection LOS: B

Intersection Capacity Utilization 69.8%

ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road



Lanes, Volumes, Timings  
2: Thornell Road & NY-96

2025 Existing PM  
04/29/2025



| Lane Group                        | EBT          | EBR  | WBL   | WBT                    | NBL   | NBR  |
|-----------------------------------|--------------|------|-------|------------------------|-------|------|
| Lane Configurations               | ↑            | ↓    | ↑     | ↑                      | ↑     | ↑    |
| Traffic Volume (vph)              | 476          | 31   | 252   | 596                    | 19    | 271  |
| Future Volume (vph)               | 476          | 31   | 252   | 596                    | 19    | 271  |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900  | 1900                   | 1900  | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12    | 12                     | 12    | 12   |
| Grade (%)                         | 0%           |      |       | 0%                     | 0%    |      |
| Storage Length (ft)               |              | 0    | 90    |                        | 30    | 0    |
| Storage Lanes                     |              | 0    | 1     |                        | 1     | 1    |
| Taper Length (ft)                 |              |      | 110   |                        | 90    |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00  | 1.00                   | 1.00  | 1.00 |
| Ped Bike Factor                   |              |      |       |                        |       |      |
| Frt                               | 0.992        |      |       |                        | 0.850 |      |
| Flt Protected                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (prot)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Flt Permitted                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (perm)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Link Speed (mph)                  | 30           |      |       | 30                     | 35    |      |
| Link Distance (ft)                | 1210         |      |       | 1153                   | 883   |      |
| Travel Time (s)                   | 27.5         |      |       | 26.2                   | 17.2  |      |
| Confl. Peds. (#/hr)               |              |      |       |                        |       |      |
| Confl. Bikes (#/hr)               |              |      |       |                        |       |      |
| Peak Hour Factor                  | 0.82         | 0.82 | 0.82  | 0.82                   | 0.82  | 0.82 |
| Growth Factor                     | 100%         | 100% | 100%  | 100%                   | 100%  | 100% |
| Heavy Vehicles (%)                | 1%           | 0%   | 1%    | 1%                     | 0%    | 0%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0     | 0                      | 0     | 0    |
| Parking (#/hr)                    |              |      |       |                        |       |      |
| Mid-Block Traffic (%)             | 0%           |      |       | 0%                     | 0%    |      |
| Adj. Flow (vph)                   | 580          | 38   | 307   | 727                    | 23    | 330  |
| Shared Lane Traffic (%)           |              |      |       |                        |       |      |
| Lane Group Flow (vph)             | 618          | 0    | 307   | 727                    | 23    | 330  |
| Sign Control                      | Free         |      |       | Free                   | Stop  |      |
| <b>Intersection Summary</b>       |              |      |       |                        |       |      |
| Area Type:                        | Other        |      |       |                        |       |      |
| Control Type:                     | Unsignalized |      |       |                        |       |      |
| Intersection Capacity Utilization | 54.2%        |      |       | ICU Level of Service A |       |      |
| Analysis Period (min)             | 15           |      |       |                        |       |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 7.2    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 476    | 31     | 252    | 596  | 19    | 271  |
| Future Vol, veh/h        | 476    | 31     | 252    | 596  | 19    | 271  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | None |
| Storage Length           | -      | -      | 90     | -    | 30    | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 82     | 82     | 82     | 82   | 82    | 82   |
| Heavy Vehicles, %        | 1      | 0      | 1      | 1    | 0     | 0    |
| Mvmt Flow                | 580    | 38     | 307    | 727  | 23    | 330  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 618    | 0    | 1941  | 599  |
| Stage 1                  | -      | -      | -      | -    | 599   | -    |
| Stage 2                  | -      | -      | -      | -    | 1341  | -    |
| Critical Hdwy            | -      | -      | 4.11   | -    | 6.4   | 6.2  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.4   | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.4   | -    |
| Follow-up Hdwy           | -      | -      | 2.209  | -    | 3.5   | 3.3  |
| Pot Cap-1 Maneuver       | -      | -      | 967    | -    | 73    | 505  |
| Stage 1                  | -      | -      | -      | -    | 552   | -    |
| Stage 2                  | -      | -      | -      | -    | 246   | -    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 967    | -    | 50    | 505  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 50    | -    |
| Stage 1                  | -      | -      | -      | -    | 552   | -    |
| Stage 2                  | -      | -      | -      | -    | 168   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Ctrl Dly, s/v        | 0      | 3.11   | 31.53  |      |       |      |
| HCM LOS                  |        |        | D      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | 50     | 505    | -      | -    | 967   | -    |
| HCM Lane V/C Ratio       | 0.468  | 0.654  | -      | -    | 0.318 | -    |
| HCM Ctrl Dly (s/v)       | 130.2  | 24.6   | -      | -    | 10.4  | -    |
| HCM Lane LOS             | F      | C      | -      | -    | B     | -    |
| HCM 95th %tile Q(veh)    | 1.7    | 4.7    | -      | -    | 1.4   | -    |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2025 Existing PM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     | ↑     | ↑     | ↑    | ↑     | ↑     | ↑    | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     |
| Traffic Volume (vph)    | 61    | 626   | 12   | 65    | 720   | 137  | 53    | 23    | 61    | 73    | 18    | 75    |
| Future Volume (vph)     | 61    | 626   | 12   | 65    | 720   | 137  | 53    | 23    | 61    | 73    | 18    | 75    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Storage Length (ft)     | 230   |       | 0    | 160   |       | 0    | 0     |       | 0     | 0     |       | 70    |
| Storage Lanes           | 1     |       | 0    | 1     |       | 0    | 0     |       | 1     | 0     |       | 1     |
| Taper Length (ft)       | 80    |       |      | 25    |       |      | 25    |       |       | 25    |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |      |       |       |       |       |       |       |
| Frt                     |       | 0.997 |      |       | 0.976 |      |       |       | 0.850 |       |       | 0.850 |
| Flt Protected           | 0.950 |       |      | 0.950 |       |      |       | 0.966 |       |       | 0.962 |       |
| Satd. Flow (prot)       | 1624  | 1688  | 0    | 1624  | 1655  | 0    | 0     | 1652  | 1454  | 0     | 1645  | 1454  |
| Flt Permitted           | 0.193 |       |      | 0.323 |       |      |       | 0.734 |       |       | 0.716 |       |
| Satd. Flow (perm)       | 330   | 1688  | 0    | 552   | 1655  | 0    | 0     | 1255  | 1454  | 0     | 1224  | 1454  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       |       | 1     |      |       | 12    |      |       |       | 85    |       |       | 85    |
| Link Speed (mph)        |       | 30    |      |       | 30    |      |       | 10    |       |       | 30    |       |
| Link Distance (ft)      |       | 1153  |      |       | 592   |      |       | 497   |       |       | 595   |       |
| Travel Time (s)         |       | 26.2  |      |       | 13.5  |      |       | 33.9  |       |       | 13.5  |       |
| Confl. Peds. (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Peak Hour Factor        | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 1%    | 0%   | 0%    | 1%    | 0%   | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |      |       |       |       |       |       |       |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)         | 64    | 652   | 13   | 68    | 750   | 143  | 55    | 24    | 64    | 76    | 19    | 78    |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 64    | 665   | 0    | 68    | 893   | 0    | 0     | 79    | 64    | 0     | 95    | 78    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |      | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |      |       | 4     |       |       |       | 8     |
| Permitted Phases        | 6     |       |      | 2     |       |      | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |      | 4     | 4     | 4     | 8     | 8     | 8     |
| Switch Phase            |       |       |      |       |       |      |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |      | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |      | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |      | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |      | 5.0   | 5.0   |       | 5.0   | 5.0   |       |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |      |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |      |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |

## Lanes, Volumes, Timings

2025 Existing PM

## 4: Hitching Post Plaza/Marsh Road &amp; NY-96

04/29/2025

| Lane Group              | EBL  | EBT   | EBR | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|-------|-----|------|-------|------|------|------|------|------|------|------|
| Minimum Gap (s)         | 2.0  | 2.0   |     | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |     | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       |     | 7.0  |       | 7.0  |      | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       |     | 18.0 |       | 18.0 |      | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) | 0    |       |     | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 66.3 | 62.5  |     | 66.2 | 62.5  |      |      | 12.8 | 12.8 |      | 12.8 | 12.8 |
| Actuated g/C Ratio      | 0.74 | 0.69  |     | 0.74 | 0.69  |      |      | 0.14 | 0.14 |      | 0.14 | 0.14 |
| v/c Ratio               | 0.20 | 0.57  |     | 0.14 | 0.77  |      |      | 0.44 | 0.23 |      | 0.55 | 0.28 |
| Control Delay (s/veh)   | 5.2  | 12.8  |     | 6.6  | 20.7  |      |      | 42.6 | 6.6  |      | 47.3 | 9.4  |
| Queue Delay             | 0.0  | 0.0   |     | 0.0  | 0.0   |      |      | 0.0  | 0.0  |      | 0.0  | 0.0  |
| Total Delay (s/veh)     | 5.2  | 12.8  |     | 6.6  | 20.7  |      |      | 42.6 | 6.6  |      | 47.3 | 9.4  |
| LOS                     | A    | B     |     | A    | C     |      |      | D    | A    |      | D    | A    |
| Approach Delay (s/veh)  |      | 12.1  |     |      | 19.7  |      |      | 26.5 |      |      | 30.2 |      |
| Approach LOS            |      | B     |     |      | B     |      |      | C    |      |      | C    |      |
| Queue Length 50th (ft)  | 7    | 201   |     | 9    | 275   |      |      | 42   | 0    |      | 52   | 0    |
| Queue Length 95th (ft)  | 22   | 390   |     | m34  | #719  |      |      | 81   | 22   |      | 95   | 33   |
| Internal Link Dist (ft) |      | 1073  |     |      | 512   |      |      | 417  |      |      | 515  |      |
| Turn Bay Length (ft)    |      | 230   |     |      | 160   |      |      |      |      |      |      | 70   |
| Base Capacity (vph)     | 398  | 1173  |     | 545  | 1153  |      |      | 418  | 541  |      | 408  | 541  |
| Starvation Cap Reductn  | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Storage Cap Reductn     | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Reduced v/c Ratio       | 0.16 | 0.57  |     | 0.12 | 0.77  |      |      | 0.19 | 0.12 |      | 0.23 | 0.14 |

## Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.77

Intersection Signal Delay (s/veh): 18.3

Intersection LOS: B

Intersection Capacity Utilization 80.5%

ICU Level of Service D

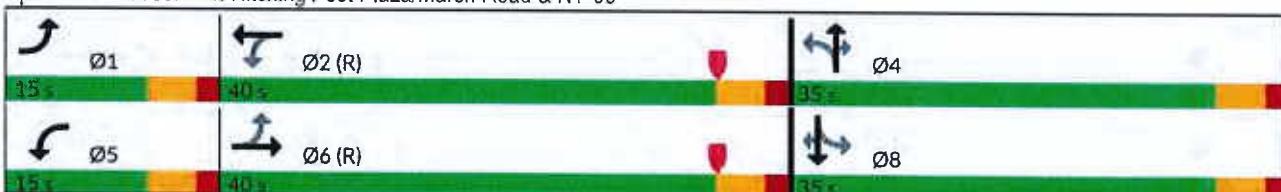
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road &amp; NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2025 Existing PM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 4     | 3     | 0    | 97    | 1     | 263   | 4     | 647   | 230   | 246   | 456   | 0    |
| Future Volume (vph)     | 4     | 3     | 0    | 97    | 1     | 263   | 4     | 647   | 230   | 246   | 456   | 0    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Fr <sub>t</sub>         |       |       |      |       |       | 0.850 |       |       | 0.850 |       |       |      |
| Flt Protected           |       | 0.972 |      |       | 0.953 |       | 0.950 |       |       | 0.950 |       |      |
| Satd. Flow (prot)       | 0     | 1662  | 0    | 0     | 1614  | 1439  | 1624  | 1693  | 1439  | 1608  | 1693  | 0    |
| Flt Permitted           |       | 0.836 |      |       | 0.724 |       | 0.498 |       |       | 0.235 |       |      |
| Satd. Flow (perm)       | 0     | 1430  | 0    | 0     | 1226  | 1439  | 852   | 1693  | 1439  | 398   | 1693  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes   |       |       | Yes   |       |       | Yes  |
| Satd. Flow (RTOR)       |       |       |      |       |       | 76    |       |       | 127   |       |       |      |
| Link Speed (mph)        |       | 30    |      |       | 35    |       | 30    |       |       | 30    |       |      |
| Link Distance (ft)      |       | 765   |      |       | 1110  |       | 973   |       |       | 592   |       |      |
| Travel Time (s)         |       | 17.4  |      |       | 21.6  |       | 22.1  |       |       | 13.5  |       |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.99  | 0.99  | 0.99 | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 0%   | 1%    | 0%    | 1%    | 0%    | 1%    | 1%    | 1%    | 1%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 4     | 3     | 0    | 98    | 1     | 266   | 4     | 654   | 232   | 248   | 461   | 0    |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 7     | 0    | 0     | 99    | 266   | 4     | 654   | 232   | 248   | 461   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 30.0  | 30.0  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    | 0.0   |       |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2025 Existing PM  
04/29/2025

| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL   | NBT   | NBR  | SBL   | SBT | SBR |
|-------------------------|------|------|-----|------|------|------|-------|-------|------|-------|-----|-----|
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   | 2.0  | 2.0   | 2.0 | 2.0 |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 |
| Recall Mode             | None | None |     | None | None | None | C-Max | C-Max | None | C-Max |     |     |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      | 7.0   | 7.0   |      | 7.0   |     |     |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      | 20.0  | 20.0  |      | 20.0  |     |     |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      | 0     | 0     |      | 0     |     |     |
| Act Effct Green (s)     | 11.5 |      |     | 11.6 | 29.2 | 54.8 | 49.8  | 49.8  | 69.6 | 68.6  |     |     |
| Actuated g/C Ratio      | 0.13 |      |     | 0.13 | 0.32 | 0.61 | 0.55  | 0.55  | 0.77 | 0.76  |     |     |
| v/c Ratio               | 0.04 |      |     | 0.63 | 0.51 | 0.01 | 0.70  | 0.27  | 0.50 | 0.36  |     |     |
| Control Delay (s/veh)   | 31.6 |      |     | 53.4 | 18.4 | 6.0  | 24.1  | 8.0   | 10.7 | 3.3   |     |     |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |     |
| Total Delay (s/veh)     | 31.6 |      |     | 53.4 | 18.4 | 6.0  | 24.1  | 8.0   | 10.7 | 3.3   |     |     |
| LOS                     | C    |      |     | D    | B    | A    | C     | A     | B    | A     |     |     |
| Approach Delay (s/veh)  | 31.6 |      |     | 27.9 |      |      | 19.8  |       |      | 5.9   |     |     |
| Approach LOS            | C    |      |     | C    |      |      | B     |       |      | A     |     |     |
| Queue Length 50th (ft)  | 4    |      |     | 54   | 81   | 1    | 270   | 29    | 20   | 37    |     |     |
| Queue Length 95th (ft)  | 15   |      |     | 99   | 118  | 4    | #588  | 92    | 84   | 62    |     |     |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893   |       |      | 512   |     |     |
| Turn Bay Length (ft)    |      |      |     |      |      |      | 100   |       | 125  | 100   |     |     |
| Base Capacity (vph)     | 468  |      |     | 401  | 546  | 731  | 937   | 853   | 525  | 1290  |     |     |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     |     |     |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     |     |     |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     |     |     |
| Reduced v/c Ratio       | 0.01 |      |     | 0.25 | 0.49 | 0.01 | 0.70  | 0.27  | 0.47 | 0.36  |     |     |

Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 12 (13%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.70

Intersection Signal Delay (s/veh): 16.3

Intersection LOS: B

Intersection Capacity Utilization 76.1%

ICU Level of Service D

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road



# SimTraffic Performance Report

2025 Existing AM

04/29/2025

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NB   | NB  | All |
|--------------------|-----|-----|-----|------|-----|-----|
| Movements Served   | TR  | L   | T   | L    | R   |     |
| Denied Delay (hr)  |     |     |     |      | 0.1 |     |
| Denied Del/Veh (s) |     |     |     |      | 0.3 |     |
| Total Delay (hr)   | 0.2 | 0.2 | 0.6 | 0.3  | 0.7 | 1.9 |
| Total Del/Veh (s)  | 1.4 | 4.2 | 3.6 | 25.3 | 8.7 | 4.6 |
| Stop Delay (hr)    | 0.0 | 0.1 | 0.0 | 0.3  | 0.5 | 0.9 |
| Stop Del/Veh (s)   | 0.0 | 2.3 | 0.1 | 24.4 | 6.7 | 2.2 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB  | WB  | WB  | NB   | NB  | SB   | SB   | All |
|--------------------|------|-----|-----|-----|------|-----|------|------|-----|
| Movements Served   | L    | TR  | L   | TR  | LT   | R   | LT   | R    |     |
| Denied Delay (hr)  |      |     |     |     |      |     |      | 0.1  |     |
| Denied Del/Veh (s) |      |     |     |     |      |     |      | 0.2  |     |
| Total Delay (hr)   | 0.2  | 0.9 | 0.0 | 1.4 | 0.0  | 0.0 | 0.8  | 0.2  | 3.5 |
| Total Del/Veh (s)  | 13.2 | 5.2 | 7.0 | 6.5 | 43.0 | 7.0 | 38.8 | 9.6  | 7.8 |
| Stop Delay (hr)    | 0.1  | 0.4 | 0.0 | 0.5 | 0.0  | 0.0 | 0.7  | 0.2  | 2.0 |
| Stop Del/Veh (s)   | 11.4 | 2.5 | 5.1 | 2.3 | 43.7 | 7.8 | 33.9 | 10.0 | 4.4 |

## 5: NY-96 & Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      | 0.6 |      |
| Denied Del/Veh (s) |      |      |      |     |      |     |      | 1.1 |      |
| Total Delay (hr)   | 0.4  | 1.4  | 0.8  | 0.0 | 2.4  | 0.2 | 0.9  | 0.8 | 6.9  |
| Total Del/Veh (s)  | 23.7 | 35.6 | 13.1 | 6.4 | 15.2 | 2.7 | 13.8 | 6.5 | 12.9 |
| Stop Delay (hr)    | 0.3  | 1.3  | 0.6  | 0.0 | 1.4  | 0.1 | 0.8  | 0.3 | 5.0  |
| Stop Del/Veh (s)   | 21.8 | 33.4 | 10.4 | 4.9 | 8.9  | 2.2 | 12.4 | 2.6 | 9.4  |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 0.7  |
| Denied Del/Veh (s) | 1.3  |
| Total Delay (hr)   | 13.0 |
| Total Del/Veh (s)  | 22.0 |
| Stop Delay (hr)    | 7.9  |
| Stop Del/Veh (s)   | 13.4 |

## Queuing and Blocking Report

2025 Existing AM

04/29/2025

### Intersection: 2: Thornell Road & NY-96

| Movement              | EB   | WB | WB   | NB | NB  |
|-----------------------|------|----|------|----|-----|
| Directions Served     | TR   | L  | T    | L  | R   |
| Maximum Queue (ft)    | 4    | 97 | 30   | 89 | 148 |
| Average Queue (ft)    | 0    | 44 | 1    | 28 | 66  |
| 95th Queue (ft)       | 5    | 82 | 22   | 63 | 120 |
| Link Distance (ft)    | 1172 |    | 1081 |    | 845 |
| Upstream Blk Time (%) |      |    |      |    |     |
| Queuing Penalty (veh) |      |    |      |    |     |
| Storage Bay Dist (ft) |      | 90 |      | 30 |     |
| Storage Blk Time (%)  |      | 0  |      | 21 | 35  |
| Queuing Penalty (veh) |      | 2  |      | 57 | 13  |

### Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB | EB   | WB | WB  | NB  | NB  | SB  | SB |
|-----------------------|----|------|----|-----|-----|-----|-----|----|
| Directions Served     | L  | TR   | L  | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 60 | 197  | 56 | 277 | 30  | 46  | 143 | 95 |
| Average Queue (ft)    | 23 | 82   | 8  | 83  | 2   | 7   | 57  | 39 |
| 95th Queue (ft)       | 51 | 174  | 33 | 199 | 15  | 31  | 114 | 86 |
| Link Distance (ft)    |    | 1081 |    | 510 | 462 | 462 | 559 |    |
| Upstream Blk Time (%) |    |      |    |     |     |     |     |    |
| Queuing Penalty (veh) |    |      |    |     |     |     |     |    |
| Storage Bay Dist (ft) |    | 230  |    | 160 |     |     | 70  |    |
| Storage Blk Time (%)  |    | 0    |    | 2   |     |     | 7   | 1  |
| Queuing Penalty (veh) |    | 0    |    | 0   |     |     | 4   | 1  |

### Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB  | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L   | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 92  | 150 | 174  | 67  | 426 | 200 | 149 | 221 |
| Average Queue (ft)    | 34  | 79  | 75   | 11  | 166 | 65  | 77  | 63  |
| 95th Queue (ft)       | 71  | 133 | 139  | 46  | 327 | 165 | 135 | 154 |
| Link Distance (ft)    | 729 |     | 1062 |     | 944 |     | 510 |     |
| Upstream Blk Time (%) |     |     |      |     |     |     |     |     |
| Queuing Penalty (veh) |     |     |      |     |     |     |     |     |
| Storage Bay Dist (ft) |     | 125 |      | 100 |     | 125 | 100 |     |
| Storage Blk Time (%)  |     | 1   | 2    |     | 16  | 0   | 4   | 2   |
| Queuing Penalty (veh) |     | 3   | 2    |     | 38  | 0   | 17  | 4   |

### Network Summary

Network wide Queuing Penalty: 142

# SimTraffic Performance Report

2025 Existing PM

04/29/2025

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NB   | NB   | All |
|--------------------|-----|-----|-----|------|------|-----|
| Movements Served   | TR  | L   | T   | L    | R    |     |
| Denied Delay (hr)  |     |     |     |      | 0.1  |     |
| Denied Del/Veh (s) |     |     |     |      | 0.3  |     |
| Total Delay (hr)   | 0.3 | 0.5 | 0.7 | 0.2  | 0.9  | 2.7 |
| Total Del/Veh (s)  | 1.8 | 6.9 | 4.1 | 43.6 | 12.0 | 5.5 |
| Stop Delay (hr)    | 0.0 | 0.4 | 0.0 | 0.2  | 0.8  | 1.4 |
| Stop Del/Veh (s)   | 0.0 | 4.9 | 0.2 | 42.6 | 10.3 | 2.9 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB   | WB   | WB   | NB   | NB   | SB   | SB   | All  |
|--------------------|------|------|------|------|------|------|------|------|------|
| Movements Served   | L    | TR   | L    | TR   | LT   | R    | LT   | R    |      |
| Denied Delay (hr)  |      |      |      |      |      |      |      | 0.2  |      |
| Denied Del/Veh (s) |      |      |      |      |      |      |      | 0.3  |      |
| Total Delay (hr)   | 0.3  | 2.0  | 0.2  | 4.8  | 0.7  | 0.2  | 1.0  | 0.2  | 9.4  |
| Total Del/Veh (s)  | 19.4 | 10.0 | 12.0 | 19.6 | 32.2 | 9.3  | 38.8 | 11.9 | 16.7 |
| Stop Delay (hr)    | 0.3  | 1.1  | 0.2  | 2.6  | 0.7  | 0.2  | 0.8  | 0.3  | 6.2  |
| Stop Del/Veh (s)   | 17.3 | 5.4  | 9.7  | 10.8 | 33.3 | 10.1 | 33.4 | 12.3 | 11.0 |

## 5: NY-96 & Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      | 0.6 |      |
| Denied Del/Veh (s) |      |      |      |     |      |     |      | 1.1 |      |
| Total Delay (hr)   | 0.1  | 1.1  | 1.4  | 0.0 | 4.3  | 0.2 | 1.3  | 0.9 | 9.2  |
| Total Del/Veh (s)  | 43.5 | 39.4 | 18.2 | 8.1 | 23.2 | 3.3 | 18.6 | 5.9 | 16.1 |
| Stop Delay (hr)    | 0.1  | 1.0  | 1.2  | 0.0 | 2.5  | 0.2 | 1.2  | 0.2 | 6.4  |
| Stop Del/Veh (s)   | 41.1 | 37.3 | 15.3 | 6.5 | 13.7 | 2.7 | 17.4 | 1.6 | 11.2 |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 0.9  |
| Denied Del/Veh (s) | 1.4  |
| Total Delay (hr)   | 22.1 |
| Total Del/Veh (s)  | 32.0 |
| Stop Delay (hr)    | 14.1 |
| Stop Del/Veh (s)   | 20.4 |

## Queuing and Blocking Report

2025 Existing PM

04/29/2025

### Intersection: 2: Thornell Road & NY-96

| Movement              | EB   | WB  | WB   | NB | NB  |
|-----------------------|------|-----|------|----|-----|
| Directions Served     | TR   | L   | T    | L  | R   |
| Maximum Queue (ft)    | 32   | 132 | 82   | 90 | 179 |
| Average Queue (ft)    | 2    | 59  | 4    | 18 | 69  |
| 95th Queue (ft)       | 15   | 106 | 41   | 54 | 133 |
| Link Distance (ft)    | 1172 |     | 1081 |    | 845 |
| Upstream Blk Time (%) |      |     |      |    |     |
| Queuing Penalty (veh) |      |     |      |    |     |
| Storage Bay Dist (ft) |      | 90  |      | 30 |     |
| Storage Blk Time (%)  |      | 2   | 0    | 16 | 42  |
| Queuing Penalty (veh) |      | 16  | 0    | 46 | 8   |

### Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB  | EB   | WB  | WB  | NB  | NB  | SB  | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|----|
| Directions Served     | L   | TR   | L   | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 125 | 283  | 184 | 520 | 149 | 76  | 157 | 95 |
| Average Queue (ft)    | 33  | 136  | 50  | 260 | 54  | 34  | 64  | 41 |
| 95th Queue (ft)       | 82  | 243  | 146 | 472 | 110 | 62  | 124 | 87 |
| Link Distance (ft)    |     | 1081 |     | 510 | 462 | 462 | 559 |    |
| Upstream Blk Time (%) |     |      |     | 1   |     |     |     |    |
| Queuing Penalty (veh) |     |      |     | 6   |     |     |     |    |
| Storage Bay Dist (ft) | 230 |      | 160 |     |     |     | 70  |    |
| Storage Blk Time (%)  | 1   |      | 18  |     |     | 10  | 1   |    |
| Queuing Penalty (veh) | 1   |      | 12  |     |     | 8   | 1   |    |

### Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L  | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 42  | 162 | 191  | 48 | 686 | 200 | 148 | 222 |
| Average Queue (ft)    | 6   | 66  | 90   | 2  | 237 | 86  | 84  | 56  |
| 95th Queue (ft)       | 26  | 124 | 162  | 13 | 568 | 214 | 138 | 153 |
| Link Distance (ft)    | 729 |     | 1062 |    | 944 |     | 510 |     |
| Upstream Blk Time (%) |     |     |      | 1  |     |     |     |     |
| Queuing Penalty (veh) |     |     |      | 0  |     |     |     |     |
| Storage Bay Dist (ft) | 125 |     | 100  |    | 125 | 100 |     |     |
| Storage Blk Time (%)  | 1   | 4   |      | 21 | 0   | 7   | 1   |     |
| Queuing Penalty (veh) | 3   | 4   |      | 50 | 0   | 33  | 1   |     |

### Network Summary

Network wide Queuing Penalty: 188

## **APPENDIX D: LOS CALCULATIONS – BACKGROUND CONDITIONS**



| Lane Group              | EBT   | EBR  | WBL   | WBT  | NBL   | NBR  |
|-------------------------|-------|------|-------|------|-------|------|
| Lane Configurations     | 1     | 1    | 1     | 1    | 1     | 1    |
| Traffic Volume (vph)    | 380   | 17   | 197   | 594  | 40    | 288  |
| Future Volume (vph)     | 380   | 17   | 197   | 594  | 40    | 288  |
| Ideal Flow (vphpl)      | 1900  | 1900 | 1900  | 1900 | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12   | 12    | 12   | 12    | 12   |
| Grade (%)               | 0%    |      |       | 0%   | 0%    |      |
| Storage Length (ft)     |       | 0    | 90    |      | 30    | 0    |
| Storage Lanes           |       | 0    | 1     |      | 1     | 1    |
| Taper Length (ft)       |       |      | 110   |      | 90    |      |
| Lane Util. Factor       | 1.00  | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 |
| Ped Bike Factor         |       |      |       |      |       |      |
| Frt                     | 0.994 |      |       |      | 0.850 |      |
| Flt Protected           |       |      | 0.950 |      | 0.950 |      |
| Satd. Flow (prot)       | 1793  | 0    | 1703  | 1827 | 1752  | 1553 |
| Flt Permitted           |       |      | 0.950 |      | 0.950 |      |
| Satd. Flow (perm)       | 1793  | 0    | 1703  | 1827 | 1752  | 1553 |
| Link Speed (mph)        | 30    |      |       | 30   | 35    |      |
| Link Distance (ft)      | 1210  |      |       | 1153 | 883   |      |
| Travel Time (s)         | 27.5  |      |       | 26.2 | 17.2  |      |
| Confl. Peds. (#/hr)     |       |      |       |      |       |      |
| Confl. Bikes (#/hr)     |       |      |       |      |       |      |
| Peak Hour Factor        | 0.93  | 0.93 | 0.93  | 0.93 | 0.93  | 0.93 |
| Growth Factor           | 100%  | 100% | 100%  | 100% | 100%  | 100% |
| Heavy Vehicles (%)      | 5%    | 13%  | 6%    | 4%   | 3%    | 4%   |
| Bus Blockages (#/hr)    | 0     | 0    | 0     | 0    | 0     | 0    |
| Parking (#/hr)          |       |      |       |      |       |      |
| Mid-Block Traffic (%)   | 0%    |      |       | 0%   | 0%    |      |
| Adj. Flow (vph)         | 409   | 18   | 212   | 639  | 43    | 310  |
| Shared Lane Traffic (%) |       |      |       |      |       |      |
| Lane Group Flow (vph)   | 427   | 0    | 212   | 639  | 43    | 310  |
| Sign Control            | Free  |      |       | Free | Stop  |      |

#### Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 45.5%

ICU Level of Service A

Analysis Period (min) 15

| Intersection             |        |        |        |      |       |       |  |  |  |  |
|--------------------------|--------|--------|--------|------|-------|-------|--|--|--|--|
| Int Delay, s/veh         | 5.7    |        |        |      |       |       |  |  |  |  |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |  |  |  |  |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑    | ↑     | ↑     |  |  |  |  |
| Traffic Vol, veh/h       | 380    | 17     | 197    | 594  | 40    | 288   |  |  |  |  |
| Future Vol, veh/h        | 380    | 17     | 197    | 594  | 40    | 288   |  |  |  |  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |  |  |  |  |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |  |  |  |  |
| RT Channelized           | -      | None   | -      | None | -     | None  |  |  |  |  |
| Storage Length           | -      | -      | 90     | -    | 30    | 0     |  |  |  |  |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |  |  |  |  |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |  |  |  |  |
| Peak Hour Factor         | 93     | 93     | 93     | 93   | 93    | 93    |  |  |  |  |
| Heavy Vehicles, %        | 5      | 13     | 6      | 4    | 3     | 4     |  |  |  |  |
| Mvmt Flow                | 409    | 18     | 212    | 639  | 43    | 310   |  |  |  |  |
| Major/Minor              |        |        |        |      |       |       |  |  |  |  |
| Conflicting Flow All     | Major1 | Major2 | Minor1 |      |       |       |  |  |  |  |
|                          | 0      | 0      | 427    | 0    | 1480  | 418   |  |  |  |  |
| Stage 1                  | -      | -      | -      | -    | 418   | -     |  |  |  |  |
| Stage 2                  | -      | -      | -      | -    | 1062  | -     |  |  |  |  |
| Critical Hdwy            | -      | -      | 4.16   | -    | 6.43  | 6.24  |  |  |  |  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.43  | -     |  |  |  |  |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.43  | -     |  |  |  |  |
| Follow-up Hdwy           | -      | -      | 2.254  | -    | 3.527 | 3.336 |  |  |  |  |
| Pot Cap-1 Maneuver       | -      | -      | 1111   | -    | 137   | 631   |  |  |  |  |
| Stage 1                  | -      | -      | -      | -    | 662   | -     |  |  |  |  |
| Stage 2                  | -      | -      | -      | -    | 331   | -     |  |  |  |  |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |  |  |  |  |
| Mov Cap-1 Maneuver       | -      | -      | 1111   | -    | 111   | 631   |  |  |  |  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 111   | -     |  |  |  |  |
| Stage 1                  | -      | -      | -      | -    | 662   | -     |  |  |  |  |
| Stage 2                  | -      | -      | -      | -    | 268   | -     |  |  |  |  |
| Approach                 |        |        |        |      |       |       |  |  |  |  |
| HCM Ctrl Dly, s/v        | EB     | WB     | NB     |      |       |       |  |  |  |  |
|                          | 0      | 2.24   | 21     |      |       |       |  |  |  |  |
| HCM LOS                  |        |        |        |      |       |       |  |  |  |  |
|                          |        |        |        |      |       |       |  |  |  |  |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |  |  |  |  |
| Capacity (veh/h)         | 111    | 631    | -      | -    | 1111  | -     |  |  |  |  |
| HCM Lane V/C Ratio       | 0.387  | 0.491  | -      | -    | 0.191 | -     |  |  |  |  |
| HCM Ctrl Dly (s/v)       | 56.4   | 16.1   | -      | -    | 9     | -     |  |  |  |  |
| HCM Lane LOS             | F      | C      | -      | -    | A     | -     |  |  |  |  |
| HCM 95th %tile Q(veh)    | 1.6    | 2.7    | -      | -    | 0.7   | -     |  |  |  |  |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Background AM  
04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     | ↑     | ↑     |      | ↑     | ↑     |      | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     |
| Traffic Volume (vph)    | 43    | 616   | 3    | 12    | 734   | 101  | 3     | 0     | 6     | 71    | 3     | 62    |
| Future Volume (vph)     | 43    | 616   | 3    | 12    | 734   | 101  | 3     | 0     | 6     | 71    | 3     | 62    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Storage Length (ft)     | 230   |       | 0    | 160   |       | 0    | 0     |       | 0     | 0     |       | 70    |
| Storage Lanes           | 1     |       | 0    | 1     |       | 0    | 0     |       | 1     | 0     |       | 1     |
| Taper Length (ft)       | 80    |       |      | 25    |       |      | 25    |       |       | 25    |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |      |       |       |       |       |       |       |
| Frt                     |       | 0.999 |      |       | 0.982 |      |       |       | 0.850 |       |       | 0.850 |
| Flt Protected           | 0.950 |       |      | 0.950 |       |      |       | 0.950 |       |       |       | 0.954 |
| Satd. Flow (prot)       | 1805  | 1806  | 0    | 1421  | 1781  | 0    | 0     | 1805  | 1214  | 0     | 1714  | 1509  |
| Flt Permitted           | 0.197 |       |      | 0.356 |       |      |       | 0.705 |       |       |       | 0.732 |
| Satd. Flow (perm)       | 374   | 1806  | 0    | 533   | 1781  | 0    | 0     | 1340  | 1214  | 0     | 1315  | 1509  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       |      |       | 9     |      |       |       | 85    |       |       | 85    |
| Link Speed (mph)        |       | 30    |      |       | 30    |      |       | 10    |       |       | 30    |       |
| Link Distance (ft)      |       | 1153  |      |       | 592   |      |       | 497   |       |       | 595   |       |
| Travel Time (s)         |       | 26.2  |      |       | 13.5  |      |       | 33.9  |       |       | 13.5  |       |
| Confl. Peds. (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Peak Hour Factor        | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 5%    | 33%  | 27%   | 5%    | 3%   | 0%    | 0%    | 33%   | 6%    | 0%    | 7%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |      |       |       |       |       |       |       |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)         | 47    | 670   | 3    | 13    | 798   | 110  | 3     | 0     | 7     | 77    | 3     | 67    |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 47    | 673   | 0    | 13    | 908   | 0    | 0     | 3     | 7     | 0     | 80    | 67    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |      | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |      |       | 4     |       | 4     | 8     |       |
| Permitted Phases        | 6     |       |      | 2     |       |      | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |      | 4     | 4     | 4     | 8     | 8     | 8     |
| Switch Phase            |       |       |      |       |       |      |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |      | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |      | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |      | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |      | 5.0   | 5.0   |       | 5.0   | 5.0   | 5.0   |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |      |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |      |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Background AM  
04/29/2025

| Lane Group              | EBL  | EBT   | EBR | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|-------|-----|------|-------|------|------|------|------|------|------|------|
| Minimum Gap (s)         | 2.0  | 2.0   |     | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |     | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       |     | 7.0  |       | 7.0  |      | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       |     | 18.0 |       | 18.0 |      | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) |      |       |     | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 70.4 | 70.2  |     | 68.0 | 66.0  |      |      | 11.7 | 11.7 |      | 11.7 | 11.7 |
| Actuated g/C Ratio      | 0.78 | 0.78  |     | 0.76 | 0.73  |      |      | 0.13 | 0.13 |      | 0.13 | 0.13 |
| v/c Ratio               | 0.13 | 0.48  |     | 0.03 | 0.69  |      |      | 0.02 | 0.03 |      | 0.47 | 0.25 |
| Control Delay (s/veh)   | 3.9  | 7.2   |     | 2.6  | 10.4  |      |      | 32.7 | 0.2  |      | 45.0 | 7.7  |
| Queue Delay             | 0.0  | 0.0   |     | 0.0  |       |      |      | 0.0  | 0.0  |      | 0.0  | 0.0  |
| Total Delay (s/veh)     | 3.9  | 7.2   |     | 2.6  | 10.4  |      |      | 32.7 | 0.2  |      | 45.0 | 7.7  |
| LOS                     | A    | A     |     | A    | B     |      |      | C    | A    |      | D    | A    |
| Approach Delay (s/veh)  |      | 7.0   |     |      | 10.2  |      |      | 9.9  |      |      | 28.0 |      |
| Approach LOS            |      | A     |     |      | B     |      |      | A    |      |      | C    |      |
| Queue Length 50th (ft)  | 5    | 109   |     | 1    | 125   |      |      | 2    | 0    |      | 43   | 0    |
| Queue Length 95th (ft)  | 15   | 329   |     | m3   | #317  |      |      | 9    | 0    |      | 84   | 26   |
| Internal Link Dist (ft) |      | 1073  |     |      | 512   |      |      | 417  |      |      | 515  |      |
| Turn Bay Length (ft)    | 230  |       |     | 160  |       |      |      |      |      |      |      | 70   |
| Base Capacity (vph)     | 455  | 1409  |     | 519  | 1308  |      |      | 446  | 461  |      | 438  | 559  |
| Starvation Cap Reductn  | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Storage Cap Reductn     | 0    | 0     |     | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Reduced v/c Ratio       | 0.10 | 0.48  |     | 0.03 | 0.69  |      |      | 0.01 | 0.02 |      | 0.18 | 0.12 |

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 10 (11%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay (s/veh): 10.4      Intersection LOS: B

Intersection Capacity Utilization 73.9%      ICU Level of Service D

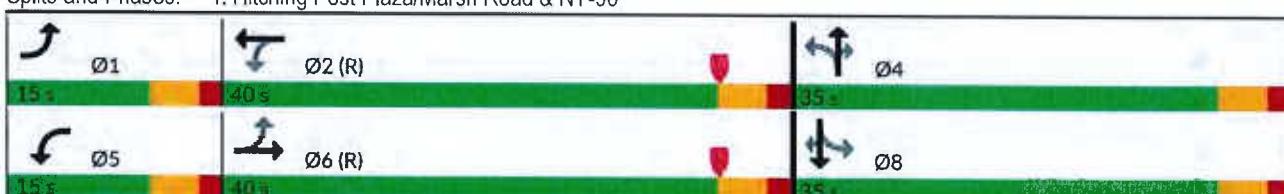
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road & NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Background AM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 19    | 15    | 27   | 133   | 16    | 220   | 19    | 590   | 227   | 229   | 396   | 14   |
| Future Volume (vph)     | 19    | 15    | 27   | 133   | 16    | 220   | 19    | 590   | 227   | 229   | 396   | 14   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Frt                     |       | 0.940 |      |       |       | 0.850 |       | 0.850 |       | 0.995 |       |      |
| Flt Protected           |       | 0.985 |      |       | 0.957 |       | 0.950 |       |       | 0.950 |       |      |
| Satd. Flow (prot)       | 0     | 1728  | 0    | 0     | 1786  | 1495  | 1805  | 1827  | 1568  | 1703  | 1820  | 0    |
| Flt Permitted           |       | 0.873 |      |       | 0.767 |       | 0.509 |       |       | 0.225 |       |      |
| Satd. Flow (perm)       | 0     | 1532  | 0    | 0     | 1432  | 1495  | 967   | 1827  | 1568  | 403   | 1820  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes   |       | Yes   |       |       | Yes   |      |
| Satd. Flow (RTOR)       | 29    |       |      |       | 85    |       |       | 137   |       | 2     |       |      |
| Link Speed (mph)        | 30    |       |      | 35    |       |       | 30    |       |       | 30    |       |      |
| Link Distance (ft)      | 765   |       |      | 1110  |       |       | 973   |       |       | 592   |       |      |
| Travel Time (s)         | 17.4  |       |      | 21.6  |       |       | 22.1  |       |       | 13.5  |       |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.94  | 0.94  | 0.94 | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 4%   | 2%    | 0%    | 8%    | 0%    | 4%    | 3%    | 6%    | 4%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 20    | 16    | 29   | 141   | 17    | 234   | 20    | 628   | 241   | 244   | 421   | 15   |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 65    | 0    | 0     | 158   | 234   | 20    | 628   | 241   | 244   | 436   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 32.5  | 32.5  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Background AM  
04/29/2025

| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT   | NBR   | SBL  | SBT   | SBR  |
|-------------------------|------|------|-----|------|------|------|------|-------|-------|------|-------|------|
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  |      | 2.0  | 2.0   |       | 2.0  |       | 2.0  |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  |      | 0.0  | 0.0   |       | 0.0  |       | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  |      | 0.0  | 0.0   |       | 0.0  |       | 0.0  |
| Recall Mode             | None | None |     | None | None |      | None | C-Max | C-Max | None | C-Max |      |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      |      | 7.0   | 7.0   |      |       | 7.0  |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      |      | 20.0  | 20.0  |      |       | 20.0 |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      |      | 0     | 0     |      |       | 0    |
| Act Effct Green (s)     | 15.3 |      |     | 15.3 | 33.7 | 50.4 | 45.3 | 45.3  | 63.7  | 59.4 |       |      |
| Actuated g/C Ratio      | 0.17 |      |     | 0.17 | 0.37 | 0.56 | 0.50 | 0.50  | 0.71  | 0.66 |       |      |
| v/c Ratio               | 0.23 |      |     | 0.65 | 0.38 | 0.03 | 0.68 | 0.28  | 0.52  | 0.36 |       |      |
| Control Delay (s/veh)   | 20.6 |      |     | 46.4 | 12.6 | 7.2  | 25.3 | 8.5   | 14.2  | 8.5  |       |      |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |       |      |
| Total Delay (s/veh)     | 20.6 |      |     | 46.4 | 12.6 | 7.2  | 25.3 | 8.5   | 14.2  | 8.5  |       |      |
| LOS                     | C    |      |     | D    | B    | A    | C    | A     | B     | A    |       |      |
| Approach Delay (s/veh)  | 20.6 |      |     | 26.2 |      |      | 20.3 |       |       |      |       | 10.5 |
| Approach LOS            | C    |      |     | C    |      |      | C    |       |       |      |       | B    |
| Queue Length 50th (ft)  | 18   |      |     | 85   | 58   | 3    | 259  | 30    | 36    | 70   |       |      |
| Queue Length 95th (ft)  | 48   |      |     | 136  | 86   | 12   | #567 | 99    | 144   | 158  |       |      |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893  |       |       | 512  |       |      |
| Turn Bay Length (ft)    |      |      |     |      |      | 100  |      | 125   | 100   |      |       |      |
| Base Capacity (vph)     | 521  |      |     | 469  | 655  | 771  | 918  | 856   | 511   | 1202 |       |      |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     | 0    |       |      |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     | 0    |       |      |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     | 0    |       |      |
| Reduced v/c Ratio       | 0.12 |      |     | 0.34 | 0.36 | 0.03 | 0.68 | 0.28  | 0.48  | 0.36 |       |      |

#### Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 87 (97%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.68

Intersection Signal Delay (s/veh): 18.2

Intersection LOS: B

Intersection Capacity Utilization 72.4%

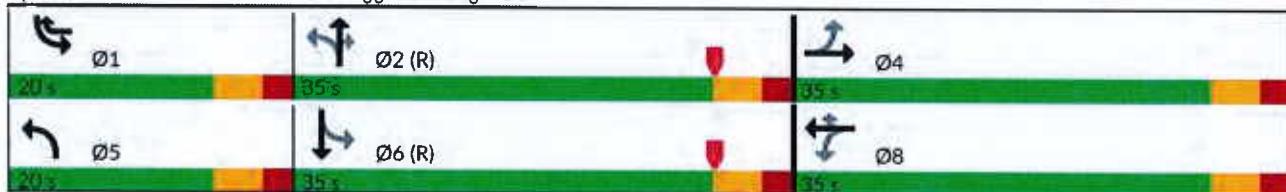
ICU Level of Service C

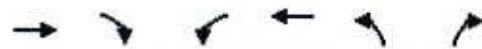
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road





| Lane Group                        | EBT          | EBR  | WBL   | WBT                    | NBL   | NBR  |
|-----------------------------------|--------------|------|-------|------------------------|-------|------|
| Lane Configurations               | ↑            |      | ↑     | ↑                      | ↑     | ↑    |
| Traffic Volume (vph)              | 500          | 33   | 265   | 626                    | 20    | 285  |
| Future Volume (vph)               | 500          | 33   | 265   | 626                    | 20    | 285  |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900  | 1900                   | 1900  | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12    | 12                     | 12    | 12   |
| Grade (%)                         | 0%           |      |       | 0%                     | 0%    |      |
| Storage Length (ft)               |              | 0    | 90    |                        | 30    | 0    |
| Storage Lanes                     |              | 0    | 1     |                        | 1     | 1    |
| Taper Length (ft)                 |              |      | 110   |                        | 90    |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00  | 1.00                   | 1.00  | 1.00 |
| Ped Bike Factor                   |              |      |       |                        |       |      |
| Frt                               | 0.992        |      |       |                        | 0.850 |      |
| Flt Protected                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (prot)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Flt Permitted                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (perm)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Link Speed (mph)                  | 30           |      |       | 30                     | 35    |      |
| Link Distance (ft)                | 1210         |      |       | 1153                   | 883   |      |
| Travel Time (s)                   | 27.5         |      |       | 26.2                   | 17.2  |      |
| Confl. Peds. (#/hr)               |              |      |       |                        |       |      |
| Confl. Bikes (#/hr)               |              |      |       |                        |       |      |
| Peak Hour Factor                  | 0.82         | 0.82 | 0.82  | 0.82                   | 0.82  | 0.82 |
| Growth Factor                     | 100%         | 100% | 100%  | 100%                   | 100%  | 100% |
| Heavy Vehicles (%)                | 1%           | 0%   | 1%    | 1%                     | 0%    | 0%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0     | 0                      | 0     | 0    |
| Parking (#/hr)                    |              |      |       |                        |       |      |
| Mid-Block Traffic (%)             | 0%           |      |       | 0%                     | 0%    |      |
| Adj. Flow (vph)                   | 610          | 40   | 323   | 763                    | 24    | 348  |
| Shared Lane Traffic (%)           |              |      |       |                        |       |      |
| Lane Group Flow (vph)             | 650          | 0    | 323   | 763                    | 24    | 348  |
| Sign Control                      | Free         |      |       | Free                   | Stop  |      |
| <b>Intersection Summary</b>       |              |      |       |                        |       |      |
| Area Type:                        | Other        |      |       |                        |       |      |
| Control Type:                     | Unsignalized |      |       |                        |       |      |
| Intersection Capacity Utilization | 56.3%        |      |       | ICU Level of Service B |       |      |
| Analysis Period (min)             | 15           |      |       |                        |       |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 8.5    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 500    | 33     | 265    | 626  | 20    | 285  |
| Future Vol, veh/h        | 500    | 33     | 265    | 626  | 20    | 285  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | None |
| Storage Length           | -      | -      | 90     | -    | 30    | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 82     | 82     | 82     | 82   | 82    | 82   |
| Heavy Vehicles, %        | 1      | 0      | 1      | 1    | 0     | 0    |
| Mvmt Flow                | 610    | 40     | 323    | 763  | 24    | 348  |
| Major/Minor              |        |        |        |      |       |      |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 650    | 0    | 2040  | 630  |
| Stage 1                  | -      | -      | -      | -    | 630   | -    |
| Stage 2                  | -      | -      | -      | -    | 1410  | -    |
| Critical Hdwy            | -      | -      | 4.11   | -    | 6.4   | 6.2  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.4   | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.4   | -    |
| Follow-up Hdwy           | -      | -      | 2.209  | -    | 3.5   | 3.3  |
| Pot Cap-1 Maneuver       | -      | -      | 941    | -    | 63    | 485  |
| Stage 1                  | -      | -      | -      | -    | 535   | -    |
| Stage 2                  | -      | -      | -      | -    | 228   | -    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 941    | -    | 41    | 485  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 41    | -    |
| Stage 1                  | -      | -      | -      | -    | 535   | -    |
| Stage 2                  | -      | -      | -      | -    | 150   | -    |
| Approach                 |        |        |        |      |       |      |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Ctrl Dly, s/v        | 0      | 3.22   | 38.73  |      |       |      |
| HCM LOS                  |        |        | E      |      |       |      |
| Minor Lane/Major Mvmt    |        |        |        |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | 41     | 485    | -      | -    | 941   | -    |
| HCM Lane V/C Ratio       | 0.59   | 0.716  | -      | -    | 0.343 | -    |
| HCM Ctrl Dly (s/v)       | 177.7  | 29     | -      | -    | 10.8  | -    |
| HCM Lane LOS             | F      | D      | -      | -    | B     | -    |
| HCM 95th %tile Q(veh)    | 2.1    | 5.7    | -      | -    | 1.5   | -    |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Background PM  
04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     |       |       |      |       |       |      |       |       |       |       |       |       |
| Traffic Volume (vph)    | 64    | 658   | 13   | 68    | 757   | 144  | 56    | 24    | 64    | 77    | 19    | 79    |
| Future Volume (vph)     | 64    | 658   | 13   | 68    | 757   | 144  | 56    | 24    | 64    | 77    | 19    | 79    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               | 0%    |       |      | 0%    |       |      | 0%    |       | 0%    |       | 0%    |       |
| Storage Length (ft)     | 230   |       | 0    | 160   |       | 0    | 0     |       | 0     | 0     |       | 70    |
| Storage Lanes           | 1     |       | 0    | 1     |       | 0    | 0     |       | 1     | 0     |       | 1     |
| Taper Length (ft)       | 80    |       |      | 25    |       |      | 25    |       |       | 25    |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |      |       |       |       |       |       |       |
| Frt                     |       | 0.997 |      |       | 0.976 |      |       |       | 0.850 |       |       | 0.850 |
| Flt Protected           | 0.950 |       |      | 0.950 |       |      |       | 0.966 |       |       | 0.962 |       |
| Satd. Flow (prot)       | 1624  | 1688  | 0    | 1624  | 1655  | 0    | 0     | 1652  | 1454  | 0     | 1645  | 1454  |
| Flt Permitted           | 0.164 |       |      | 0.302 |       |      |       | 0.730 |       |       | 0.713 |       |
| Satd. Flow (perm)       | 280   | 1688  | 0    | 516   | 1655  | 0    | 0     | 1248  | 1454  | 0     | 1219  | 1454  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       | 1     |       |      | 12    |       |      |       | 85    |       |       | 85    |       |
| Link Speed (mph)        | 30    |       |      | 30    |       |      | 10    |       |       | 30    |       |       |
| Link Distance (ft)      | 1153  |       |      | 592   |       |      | 497   |       |       | 595   |       |       |
| Travel Time (s)         | 26.2  |       |      | 13.5  |       |      | 33.9  |       |       | 13.5  |       |       |
| Confl. Peds. (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Peak Hour Factor        | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 1%    | 0%   | 0%    | 1%    | 0%   | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |      |       |       |       |       |       |       |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)         | 67    | 685   | 14   | 71    | 789   | 150  | 58    | 25    | 67    | 80    | 20    | 82    |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 67    | 699   | 0    | 71    | 939   | 0    | 0     | 83    | 67    | 0     | 100   | 82    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |      | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |      |       | 4     |       |       |       | 8     |
| Permitted Phases        | 6     |       |      | 2     |       |      | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |      | 4     | 4     | 4     | 8     |       | 8     |
| Switch Phase            |       |       |      |       |       |      |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |      | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |      | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |      | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |      | 5.0   | 5.0   |       | 5.0   | 5.0   |       |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |      |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |      |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Background PM  
04/29/2025

| Lane Group              | EBL  | EBT   | EBR | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|-------|-----|------|-------|------|------|------|------|------|------|------|
| Minimum Gap (s)         | 2.0  | 2.0   |     | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |     | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       |     | 7.0  |       | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       |     | 18.0 |       | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) | 0    |       |     | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 65.9 | 62.1  |     | 65.8 | 62.1  |      | 13.1 | 13.1 |      | 13.1 | 13.1 |      |
| Actuated g/C Ratio      | 0.73 | 0.69  |     | 0.73 | 0.69  |      | 0.15 | 0.15 |      | 0.15 | 0.15 |      |
| v/c Ratio               | 0.23 | 0.60  |     | 0.16 | 0.82  |      | 0.46 | 0.24 |      | 0.56 | 0.29 |      |
| Control Delay (s/veh)   | 5.8  | 13.9  |     | 7.2  | 23.7  |      | 42.5 | 7.0  |      | 47.6 | 9.8  |      |
| Queue Delay             | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  |      | 0.0  | 0.0  |      |
| Total Delay (s/veh)     | 5.8  | 13.9  |     | 7.2  | 23.7  |      | 42.5 | 7.0  |      | 47.6 | 9.8  |      |
| LOS                     | A    | B     |     | A    | C     |      | D    | A    |      | D    | A    |      |
| Approach Delay (s/veh)  |      | 13.2  |     |      | 22.6  |      | 26.7 |      |      | 30.6 |      |      |
| Approach LOS            |      | B     |     |      | C     |      | C    |      |      | C    |      |      |
| Queue Length 50th (ft)  | 8    | 223   |     | 11   | 326   |      | 44   | 0    |      | 54   | 0    |      |
| Queue Length 95th (ft)  | 23   | 435   |     | m36  | #785  |      | 84   | 25   |      | 99   | 35   |      |
| Internal Link Dist (ft) |      | 1073  |     |      | 512   |      | 417  |      |      | 515  |      |      |
| Turn Bay Length (ft)    | 230  |       |     | 160  |       |      |      |      |      |      |      | 70   |
| Base Capacity (vph)     | 364  | 1165  |     | 519  | 1145  |      | 416  | 541  |      | 406  | 541  |      |
| Starvation Cap Reductn  | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Spillback Cap Reductn   | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Storage Cap Reductn     | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Reduced v/c Ratio       | 0.18 | 0.60  |     | 0.14 | 0.82  |      | 0.20 | 0.12 |      | 0.25 | 0.15 |      |

Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.82

Intersection Signal Delay (s/veh): 20.1

Intersection LOS: C

Intersection Capacity Utilization 83.2%

ICU Level of Service E

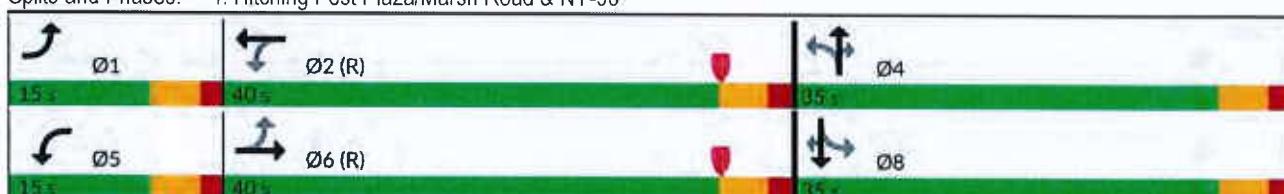
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road & NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Background PM  
04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 4     | 3     | 0    | 102   | 1     | 276   | 4     | 680   | 242   | 259   | 479   | 0    |
| Future Volume (vph)     | 4     | 3     | 0    | 102   | 1     | 276   | 4     | 680   | 242   | 259   | 479   | 0    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       |       | 0%   |       |       | 0%    |       |       | 0%    |       |       | 0%   |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Frt                     |       |       |      |       |       | 0.850 |       |       | 0.850 |       |       |      |
| Flt Protected           |       | 0.972 |      |       |       | 0.953 |       | 0.950 |       |       | 0.950 |      |
| Satd. Flow (prot)       | 0     | 1662  | 0    | 0     | 1614  | 1439  | 1624  | 1693  | 1439  | 1608  | 1693  | 0    |
| Flt Permitted           |       | 0.838 |      |       |       | 0.724 |       | 0.487 |       |       | 0.203 |      |
| Satd. Flow (perm)       | 0     | 1433  | 0    | 0     | 1226  | 1439  | 833   | 1693  | 1439  | 344   | 1693  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       |       | Yes   |       |       | Yes   |       | Yes  |
| Satd. Flow (RTOR)       |       |       |      |       |       | 66    |       |       | 127   |       |       |      |
| Link Speed (mph)        |       | 30    |      |       | 35    |       |       | 30    |       |       | 30    |      |
| Link Distance (ft)      |       | 765   |      |       | 1110  |       |       | 973   |       |       | 592   |      |
| Travel Time (s)         |       | 17.4  |      |       | 21.6  |       |       | 22.1  |       |       | 13.5  |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.99  | 0.99  | 0.99 | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 0%   | 1%    | 0%    | 1%    | 0%    | 1%    | 1%    | 1%    | 1%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 4     | 3     | 0    | 103   | 1     | 279   | 4     | 687   | 244   | 262   | 484   | 0    |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 7     | 0    | 0     | 104   | 279   | 4     | 687   | 244   | 262   | 484   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 30.0  | 30.0  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Background PM  
04/29/2025

| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL   | NBT   | NBR  | SBL   | SBT  | SBR |
|-------------------------|------|------|-----|------|------|------|-------|-------|------|-------|------|-----|
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   | 2.0  | 2.0   | 2.0  | 2.0 |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 |
| Recall Mode             | None | None |     | None | None | None | C-Max | C-Max | None | C-Max |      |     |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      |       | 7.0   | 7.0  |       | 7.0  |     |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      |       | 20.0  | 20.0 |       | 20.0 |     |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      |       | 0     | 0    |       | 0    |     |
| Act Effct Green (s)     | 11.8 |      |     | 12.0 | 30.5 | 53.5 | 48.5  | 48.5  | 69.3 | 68.3  |      |     |
| Actuated g/C Ratio      | 0.13 |      |     | 0.13 | 0.34 | 0.59 | 0.54  | 0.54  | 0.77 | 0.76  |      |     |
| v/c Ratio               | 0.04 |      |     | 0.64 | 0.53 | 0.01 | 0.75  | 0.29  | 0.55 | 0.38  |      |     |
| Control Delay (s/veh)   | 31.1 |      |     | 53.3 | 19.3 | 6.5  | 27.2  | 8.8   | 15.1 | 3.4   |      |     |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  |     |
| Total Delay (s/veh)     | 31.1 |      |     | 53.3 | 19.3 | 6.5  | 27.2  | 8.8   | 15.1 | 3.4   |      |     |
| LOS                     | C    |      |     | D    | B    | A    | C     | A     | B    | A     |      |     |
| Approach Delay (s/veh)  | 31.1 |      |     | 28.5 |      |      | 22.3  |       |      | 7.5   |      |     |
| Approach LOS            | C    |      |     | C    |      |      | C     |       |      | A     |      |     |
| Queue Length 50th (ft)  | 4    |      |     | 57   | 90   | 1    | 305   | 34    | 24   | 39    |      |     |
| Queue Length 95th (ft)  | 15   |      |     | 102  | 127  | 4    | #646  | 103   | 110  | 65    |      |     |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893   |       |      | 512   |      |     |
| Turn Bay Length (ft)    |      |      |     |      |      | 100  |       | 125   | 100  |       |      |     |
| Base Capacity (vph)     | 469  |      |     | 401  | 553  | 710  | 912   | 833   | 499  | 1284  |      |     |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Reduced v/c Ratio       | 0.01 |      |     | 0.26 | 0.50 | 0.01 | 0.75  | 0.29  | 0.53 | 0.38  |      |     |

Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 12 (13%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.75

Intersection Signal Delay (s/veh): 18.2

Intersection LOS: B

Intersection Capacity Utilization 79.3%

ICU Level of Service D

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road



# SimTraffic Performance Report

2030 Background AM

04/29/2025

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NB   | NB  | All |
|--------------------|-----|-----|-----|------|-----|-----|
| Movements Served   | TR  | L   | T   | L    | R   |     |
| Denied Delay (hr)  |     |     |     |      | 0.1 |     |
| Denied Del/Veh (s) |     |     |     |      | 0.2 |     |
| Total Delay (hr)   | 0.2 | 0.2 | 0.7 | 0.3  | 0.8 | 2.1 |
| Total Del/Veh (s)  | 1.4 | 4.7 | 3.8 | 27.6 | 9.5 | 4.9 |
| Stop Delay (hr)    | 0.0 | 0.1 | 0.0 | 0.3  | 0.6 | 1.0 |
| Stop Del/Veh (s)   | 0.0 | 2.7 | 0.1 | 26.8 | 7.5 | 2.4 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB  | WB  | WB  | NB   | NB  | SB   | SB   | All |
|--------------------|------|-----|-----|-----|------|-----|------|------|-----|
| Movements Served   | L    | TR  | L   | TR  | LT   | R   | LT   | R    |     |
| Denied Delay (hr)  |      |     |     |     |      |     |      | 0.1  |     |
| Denied Del/Veh (s) |      |     |     |     |      |     |      | 0.2  |     |
| Total Delay (hr)   | 0.2  | 0.9 | 0.0 | 2.0 | 0.0  | 0.0 | 0.8  | 0.2  | 4.2 |
| Total Del/Veh (s)  | 15.6 | 5.3 | 6.9 | 8.4 | 25.1 | 6.4 | 41.2 | 11.2 | 8.8 |
| Stop Delay (hr)    | 0.2  | 0.4 | 0.0 | 0.8 | 0.0  | 0.0 | 0.7  | 0.2  | 2.3 |
| Stop Del/Veh (s)   | 13.7 | 2.5 | 5.0 | 3.2 | 25.8 | 7.2 | 36.0 | 11.7 | 4.9 |

## 5: NY-96 & Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      | 0.6 |      |
| Denied Del/Veh (s) |      |      |      |     |      |     |      | 1.1 |      |
| Total Delay (hr)   | 0.4  | 1.5  | 0.9  | 0.0 | 3.7  | 0.2 | 1.1  | 1.0 | 8.8  |
| Total Del/Veh (s)  | 25.0 | 35.6 | 14.7 | 6.7 | 21.3 | 3.4 | 17.2 | 7.6 | 15.9 |
| Stop Delay (hr)    | 0.4  | 1.4  | 0.7  | 0.0 | 2.2  | 0.2 | 1.0  | 0.4 | 6.3  |
| Stop Del/Veh (s)   | 22.8 | 33.4 | 11.5 | 5.2 | 13.0 | 2.7 | 15.7 | 3.3 | 11.5 |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 0.8  |
| Denied Del/Veh (s) | 1.3  |
| Total Delay (hr)   | 15.9 |
| Total Del/Veh (s)  | 25.7 |
| Stop Delay (hr)    | 9.8  |
| Stop Del/Veh (s)   | 15.8 |

Queuing and Blocking Report  
2030 Background AM

04/29/2025

Intersection: 2: Thornell Road & NY-96

| Movement              | EB   | WB  | WB   | NB | NB  |
|-----------------------|------|-----|------|----|-----|
| Directions Served     | TR   | L   | T    | L  | R   |
| Maximum Queue (ft)    | 32   | 118 | 17   | 87 | 167 |
| Average Queue (ft)    | 1    | 43  | 1    | 26 | 71  |
| 95th Queue (ft)       | 8    | 84  | 13   | 61 | 137 |
| Link Distance (ft)    | 1172 |     | 1081 |    | 845 |
| Upstream Blk Time (%) |      |     |      |    |     |
| Queuing Penalty (veh) |      |     |      |    |     |
| Storage Bay Dist (ft) |      | 90  |      | 30 |     |
| Storage Blk Time (%)  |      | 1   | 0    | 20 | 36  |
| Queuing Penalty (veh) |      | 3   | 0    | 58 | 15  |

Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB  | EB   | WB  | WB  | NB  | NB  | SB  | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|----|
| Directions Served     | L   | TR   | L   | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 66  | 211  | 39  | 337 | 30  | 42  | 159 | 95 |
| Average Queue (ft)    | 22  | 83   | 7   | 114 | 2   | 6   | 55  | 39 |
| 95th Queue (ft)       | 49  | 173  | 30  | 261 | 14  | 28  | 117 | 82 |
| Link Distance (ft)    |     | 1081 |     | 510 | 462 | 462 | 559 |    |
| Upstream Blk Time (%) |     |      |     |     |     |     |     |    |
| Queuing Penalty (veh) |     |      |     |     |     |     |     |    |
| Storage Bay Dist (ft) | 230 |      | 160 |     |     |     | 70  |    |
| Storage Blk Time (%)  |     | 0    |     | 5   |     |     | 7   | 2  |
| Queuing Penalty (veh) |     | 0    |     | 1   |     |     | 5   | 1  |

Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB  | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L   | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 98  | 190 | 208  | 105 | 524 | 200 | 148 | 254 |
| Average Queue (ft)    | 36  | 86  | 79   | 12  | 228 | 90  | 86  | 80  |
| 95th Queue (ft)       | 77  | 148 | 158  | 50  | 442 | 211 | 145 | 192 |
| Link Distance (ft)    | 729 |     | 1062 |     | 944 |     | 510 |     |
| Upstream Blk Time (%) |     |     |      |     |     |     |     |     |
| Queuing Penalty (veh) |     |     |      |     |     |     |     |     |
| Storage Bay Dist (ft) |     | 125 |      | 100 |     | 125 | 100 |     |
| Storage Blk Time (%)  |     | 2   | 2    | 0   | 23  |     | 7   | 2   |
| Queuing Penalty (veh) |     | 5   | 3    | 0   | 56  |     | 28  | 6   |

Network Summary

Network wide Queuing Penalty: 181

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NB   | NB   | All |
|--------------------|-----|-----|-----|------|------|-----|
| Movements Served   | TR  | L   | T   | L    | R    |     |
| Denied Delay (hr)  |     |     |     |      | 0.1  |     |
| Denied Del/Veh (s) |     |     |     |      | 0.3  |     |
| Total Delay (hr)   | 0.3 | 0.5 | 0.7 | 0.2  | 0.9  | 2.7 |
| Total Del/Veh (s)  | 1.8 | 6.9 | 4.1 | 43.6 | 12.0 | 5.5 |
| Stop Delay (hr)    | 0.0 | 0.4 | 0.0 | 0.2  | 0.8  | 1.4 |
| Stop Del/Veh (s)   | 0.0 | 4.9 | 0.2 | 42.6 | 10.3 | 2.9 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB   | WB   | WB   | NB   | NB   | SB   | SB   | All  |
|--------------------|------|------|------|------|------|------|------|------|------|
| Movements Served   | L    | TR   | L    | TR   | LT   | R    | LT   | R    |      |
| Denied Delay (hr)  |      |      |      |      |      |      |      | 0.2  |      |
| Denied Del/Veh (s) |      |      |      |      |      |      |      | 0.3  |      |
| Total Delay (hr)   | 0.3  | 2.0  | 0.2  | 4.8  | 0.7  | 0.2  | 1.0  | 0.2  | 9.4  |
| Total Del/Veh (s)  | 19.4 | 10.0 | 12.0 | 19.6 | 32.2 | 9.3  | 38.8 | 11.9 | 16.7 |
| Stop Delay (hr)    | 0.3  | 1.1  | 0.2  | 2.6  | 0.7  | 0.2  | 0.8  | 0.3  | 6.2  |
| Stop Del/Veh (s)   | 17.3 | 5.4  | 9.7  | 10.8 | 33.3 | 10.1 | 33.4 | 12.3 | 11.0 |

## 5: NY-96 & Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      | 0.6 |      |
| Denied Del/Veh (s) |      |      |      |     |      |     |      | 1.1 |      |
| Total Delay (hr)   | 0.1  | 1.1  | 1.4  | 0.0 | 4.3  | 0.2 | 1.3  | 0.9 | 9.2  |
| Total Del/Veh (s)  | 43.5 | 39.4 | 18.2 | 8.1 | 23.2 | 3.3 | 18.6 | 5.9 | 16.1 |
| Stop Delay (hr)    | 0.1  | 1.0  | 1.2  | 0.0 | 2.5  | 0.2 | 1.2  | 0.2 | 6.4  |
| Stop Del/Veh (s)   | 41.1 | 37.3 | 15.3 | 6.5 | 13.7 | 2.7 | 17.4 | 1.6 | 11.2 |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 0.9  |
| Denied Del/Veh (s) | 1.4  |
| Total Delay (hr)   | 22.1 |
| Total Del/Veh (s)  | 32.0 |
| Stop Delay (hr)    | 14.1 |
| Stop Del/Veh (s)   | 20.4 |

Queuing and Blocking Report  
2030 Background PM

04/29/2025

Intersection: 2: Thornell Road & NY-96

| Movement              | EB   | WB  | WB   | NB | NB  |
|-----------------------|------|-----|------|----|-----|
| Directions Served     | TR   | L   | T    | L  | R   |
| Maximum Queue (ft)    | 32   | 132 | 82   | 90 | 179 |
| Average Queue (ft)    | 2    | 59  | 4    | 18 | 69  |
| 95th Queue (ft)       | 15   | 106 | 41   | 54 | 133 |
| Link Distance (ft)    | 1172 |     | 1081 |    | 845 |
| Upstream Blk Time (%) |      |     |      |    |     |
| Queuing Penalty (veh) |      |     |      |    |     |
| Storage Bay Dist (ft) |      | 90  |      | 30 |     |
| Storage Blk Time (%)  |      | 2   | 0    | 16 | 42  |
| Queuing Penalty (veh) |      | 16  | 0    | 46 | 8   |

Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB  | EB   | WB  | WB  | NB  | NB  | SB  | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|----|
| Directions Served     | L   | TR   | L   | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 125 | 283  | 184 | 520 | 149 | 76  | 157 | 95 |
| Average Queue (ft)    | 33  | 136  | 50  | 260 | 54  | 34  | 64  | 41 |
| 95th Queue (ft)       | 82  | 243  | 146 | 472 | 110 | 62  | 124 | 87 |
| Link Distance (ft)    |     | 1081 |     | 510 | 462 | 462 | 559 |    |
| Upstream Blk Time (%) |     |      |     | 1   |     |     |     |    |
| Queuing Penalty (veh) |     |      |     | 6   |     |     |     |    |
| Storage Bay Dist (ft) |     | 230  |     | 160 |     |     | 70  |    |
| Storage Blk Time (%)  |     | 1    |     | 18  |     |     | 10  | 1  |
| Queuing Penalty (veh) |     | 1    |     | 12  |     |     | 8   | 1  |

Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB  | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L   | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 42  | 162 | 191  | 48  | 686 | 200 | 148 | 222 |
| Average Queue (ft)    | 6   | 66  | 90   | 2   | 237 | 86  | 84  | 56  |
| 95th Queue (ft)       | 26  | 124 | 162  | 13  | 568 | 214 | 138 | 153 |
| Link Distance (ft)    | 729 |     | 1062 |     | 944 |     |     | 510 |
| Upstream Blk Time (%) |     |     |      | 1   |     |     |     |     |
| Queuing Penalty (veh) |     |     |      | 0   |     |     |     |     |
| Storage Bay Dist (ft) |     | 125 |      | 100 |     | 125 | 100 |     |
| Storage Blk Time (%)  |     | 1   | 4    |     | 21  | 0   | 7   | 1   |
| Queuing Penalty (veh) |     | 3   | 4    |     | 50  | 0   | 33  | 1   |

Network Summary

Network wide Queuing Penalty: 188

## **APPENDIX E: LOS CALCULATIONS – FULL BUILD CONDITIONS**

Lanes, Volumes, Timings  
1: Thornell Road & Proposed Access

2030 Full AM  
04/29/2025

| Lane Group                        | WBL          | WBR  | NBT  | NBR  | SBL  | SBT  |
|-----------------------------------|--------------|------|------|------|------|------|
| Lane Configurations               |              |      |      |      |      |      |
| Traffic Volume (vph)              | 1            | 1    | 328  | 0    | 0    | 213  |
| Future Volume (vph)               | 1            | 1    | 328  | 0    | 0    | 213  |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12   | 12   | 12   | 12   |
| Grade (%)                         | 0%           |      | 0%   |      |      | 0%   |
| Storage Length (ft)               | 0            | 0    |      | 0    | 0    |      |
| Storage Lanes                     | 1            | 0    |      | 0    | 0    |      |
| Taper Length (ft)                 | 25           |      |      | 25   |      |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped Bike Factor                   |              |      |      |      |      |      |
| Frt                               | 0.932        |      |      |      |      |      |
| Flt Protected                     | 0.976        |      |      |      |      |      |
| Satd. Flow (prot)                 | 1694         | 0    | 1827 | 0    | 0    | 1827 |
| Flt Permitted                     | 0.976        |      |      |      |      |      |
| Satd. Flow (perm)                 | 1694         | 0    | 1827 | 0    | 0    | 1827 |
| Link Speed (mph)                  | 30           |      | 35   |      |      | 35   |
| Link Distance (ft)                | 312          |      | 708  |      |      | 151  |
| Travel Time (s)                   | 7.1          |      | 13.8 |      |      | 2.9  |
| Confl. Peds. (#/hr)               |              |      |      |      |      |      |
| Confl. Bikes (#/hr)               |              |      |      |      |      |      |
| Peak Hour Factor                  | 0.92         | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Growth Factor                     | 100%         | 100% | 100% | 100% | 100% | 100% |
| Heavy Vehicles (%)                | 2%           | 2%   | 4%   | 2%   | 2%   | 4%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0    | 0    | 0    | 0    |
| Parking (#/hr)                    |              |      |      |      |      |      |
| Mid-Block Traffic (%)             | 0%           |      | 0%   |      |      | 0%   |
| Adj. Flow (vph)                   | 1            | 1    | 357  | 0    | 0    | 232  |
| Shared Lane Traffic (%)           |              |      |      |      |      |      |
| Lane Group Flow (vph)             | 2            | 0    | 357  | 0    | 0    | 232  |
| Sign Control                      | Stop         |      | Free |      |      | Free |
| <b>Intersection Summary</b>       |              |      |      |      |      |      |
| Area Type:                        | Other        |      |      |      |      |      |
| Control Type:                     | Unsignalized |      |      |      |      |      |
| Intersection Capacity Utilization | 27.3%        |      |      |      |      |      |
| Analysis Period (min)             | 15           |      |      |      |      |      |
| ICU Level of Service              | A            |      |      |      |      |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 0      |        |        |      |       |      |
| Movement                 | WBL    | WBR    | NBT    | NBR  | SBL   | SBT  |
| Lane Configurations      | Y      |        | B      |      | A     |      |
| Traffic Vol, veh/h       | 1      | 1      | 328    | 0    | 0     | 213  |
| Future Vol, veh/h        | 1      | 1      | 328    | 0    | 0     | 213  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Stop   | Stop   | Free   | Free | Free  | Free |
| RT Channelized           | -      | None   | -      | None | -     | None |
| Storage Length           | 0      | -      | -      | -    | -     | -    |
| Veh in Median Storage, # | 0      | -      | 0      | -    | -     | 0    |
| Grade, %                 | 0      | -      | 0      | -    | -     | 0    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92   |
| Heavy Vehicles, %        | 2      | 2      | 4      | 2    | 2     | 4    |
| Mvmt Flow                | 1      | 1      | 357    | 0    | 0     | 232  |
| Major/Minor              | Minor1 | Major1 | Major2 |      |       |      |
| Conflicting Flow All     | 588    | 357    | 0      | 0    | 357   | 0    |
| Stage 1                  | 357    | -      | -      | -    | -     | -    |
| Stage 2                  | 232    | -      | -      | -    | -     | -    |
| Critical Hdwy            | 6.42   | 6.22   | -      | -    | 4.12  | -    |
| Critical Hdwy Stg 1      | 5.42   | -      | -      | -    | -     | -    |
| Critical Hdwy Stg 2      | 5.42   | -      | -      | -    | -     | -    |
| Follow-up Hdwy           | 3.518  | 3.318  | -      | -    | 2.218 | -    |
| Pot Cap-1 Maneuver       | 471    | 688    | -      | -    | 1202  | -    |
| Stage 1                  | 709    | -      | -      | -    | -     | -    |
| Stage 2                  | 807    | -      | -      | -    | -     | -    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | 471    | 688    | -      | -    | 1202  | -    |
| Mov Cap-2 Maneuver       | 471    | -      | -      | -    | -     | -    |
| Stage 1                  | 709    | -      | -      | -    | -     | -    |
| Stage 2                  | 807    | -      | -      | -    | -     | -    |
| Approach                 | WB     | NB     | SB     |      |       |      |
| HCM Ctrl Dly, s/v        | 11.46  | 0      | 0      |      |       |      |
| HCM LOS                  | B      |        |        |      |       |      |
| Minor Lane/Major Mvmt    | NBT    | NBR    | WBLn1  | SBL  | SBT   |      |
| Capacity (veh/h)         | -      | -      | 559    | 1202 | -     |      |
| HCM Lane V/C Ratio       | -      | -      | 0.004  | -    | -     |      |
| HCM Ctrl Dly (s/v)       | -      | -      | 11.5   | 0    | -     |      |
| HCM Lane LOS             | -      | -      | B      | A    | -     |      |
| HCM 95th %tile Q(veh)    | -      | -      | 0      | 0    | -     |      |



| Lane Group                              | EBT                    | EBR  | WBL   | WBT  | NEL   | NER  |
|---|------------------------|------|-------|------|-------|------|
| Lane Configurations                     | ↑                      |      | ↑     | ↑    | ↑     | ↑    |
| Traffic Volume (vph)                    | 381                    | 17   | 197   | 596  | 41    | 288  |
| Future Volume (vph)                     | 381                    | 17   | 197   | 596  | 41    | 288  |
| Ideal Flow (vphpl)                      | 1900                   | 1900 | 1900  | 1900 | 1900  | 1900 |
| Lane Width (ft)                         | 12                     | 12   | 12    | 12   | 12    | 12   |
| Grade (%)                               | 0%                     |      |       | 0%   | 0%    |      |
| Storage Length (ft)                     |                        | 0    | 90    |      | 0     | 0    |
| Storage Lanes                           |                        | 0    | 1     |      | 1     | 1    |
| Taper Length (ft)                       |                        |      | 110   |      | 90    |      |
| Lane Util. Factor                       | 1.00                   | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 |
| Ped Bike Factor                         |                        |      |       |      |       |      |
| Frt                                     | 0.994                  |      |       |      | 0.850 |      |
| Flt Protected                           |                        |      | 0.950 |      | 0.950 |      |
| Satd. Flow (prot)                       | 1793                   | 0    | 1703  | 1827 | 1752  | 1553 |
| Flt Permitted                           |                        |      | 0.950 |      | 0.950 |      |
| Satd. Flow (perm)                       | 1793                   | 0    | 1703  | 1827 | 1752  | 1553 |
| Link Speed (mph)                        | 30                     |      |       | 30   | 35    |      |
| Link Distance (ft)                      | 1210                   |      |       | 475  | 151   |      |
| Travel Time (s)                         | 27.5                   |      |       | 10.8 | 2.9   |      |
| Confl. Peds. (#/hr)                     |                        |      |       |      |       |      |
| Confl. Bikes (#/hr)                     |                        |      |       |      |       |      |
| Peak Hour Factor                        | 0.93                   | 0.93 | 0.93  | 0.93 | 0.93  | 0.93 |
| Growth Factor                           | 100%                   | 100% | 100%  | 100% | 100%  | 100% |
| Heavy Vehicles (%)                      | 5%                     | 13%  | 6%    | 4%   | 3%    | 4%   |
| Bus Blockages (#/hr)                    | 0                      | 0    | 0     | 0    | 0     | 0    |
| Parking (#/hr)                          |                        |      |       |      |       |      |
| Mid-Block Traffic (%)                   | 0%                     |      |       | 0%   | 0%    |      |
| Adj. Flow (vph)                         | 410                    | 18   | 212   | 641  | 44    | 310  |
| Shared Lane Traffic (%)                 |                        |      |       |      |       |      |
| Lane Group Flow (vph)                   | 428                    | 0    | 212   | 641  | 44    | 310  |
| Sign Control                            | Free                   |      |       | Free | Stop  |      |
| Intersection Summary                    |                        |      |       |      |       |      |
| Area Type:                              | Other                  |      |       |      |       |      |
| Control Type:                           | Unsignalized           |      |       |      |       |      |
| Intersection Capacity Utilization 45.6% | ICU Level of Service A |      |       |      |       |      |
| Analysis Period (min) 15                |                        |      |       |      |       |      |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 5.8  |      |      |      |      |      |
| Movement                 | EBT  | EBR  | WBL  | WBT  | NEL  | NER  |
| Lane Configurations      | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 381  | 17   | 197  | 596  | 41   | 288  |
| Future Vol, veh/h        | 381  | 17   | 197  | 596  | 41   | 288  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 90   | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 93   | 93   | 93   | 93   | 93   | 93   |
| Heavy Vehicles, %        | 5    | 13   | 6    | 4    | 3    | 4    |
| Mvmt Flow                | 410  | 18   | 212  | 641  | 44   | 310  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |       |       |
|----------------------|--------|--------|--------|---|-------|-------|
| Conflicting Flow All | 0      | 0      | 428    | 0 | 1483  | 419   |
| Stage 1              | -      | -      | -      | - | 419   | -     |
| Stage 2              | -      | -      | -      | - | 1065  | -     |
| Critical Hdwy        | -      | -      | 4.16   | - | 6.43  | 6.24  |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 5.43  | -     |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 5.43  | -     |
| Follow-up Hdwy       | -      | -      | 2.254  | - | 3.527 | 3.336 |
| Pot Cap-1 Maneuver   | -      | -      | 1110   | - | 137   | 630   |
| Stage 1              | -      | -      | -      | - | 662   | -     |
| Stage 2              | -      | -      | -      | - | 330   | -     |
| Platoon blocked, %   | -      | -      | -      | - | -     | -     |
| Mov Cap-1 Maneuver   | -      | -      | 1110   | - | 111   | 630   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 111   | -     |
| Stage 1              | -      | -      | -      | - | 662   | -     |
| Stage 2              | -      | -      | -      | - | 267   | -     |

| Approach          | EB | WB   | NE    |  |  |  |
|-------------------|----|------|-------|--|--|--|
| HCM Ctrl Dly, s/v | 0  | 2.24 | 21.27 |  |  |  |
| HCM LOS           |    | C    |       |  |  |  |

| Minor Lane/Major Mvmt | NELn1 | NELn2 | EBT | EBR | WBL   | WBT |  |  |
|-----------------------|-------|-------|-----|-----|-------|-----|--|--|
| Capacity (veh/h)      | 111   | 630   | -   | -   | 1110  | -   |  |  |
| HCM Lane V/C Ratio    | 0.398 | 0.492 | -   | -   | 0.191 | -   |  |  |
| HCM Ctrl Dly (s/v)    | 57.5  | 16.1  | -   | -   | 9     | -   |  |  |
| HCM Lane LOS          | F     | C     | -   | -   | A     | -   |  |  |
| HCM 95th %tile Q(veh) | 1.7   | 2.7   | -   | -   | 0.7   | -   |  |  |



| Lane Group                        | EBT          | EBR  | WBL  | WBT                    | NBL  | NBR  |
|-----------------------------------|--------------|------|------|------------------------|------|------|
| Lane Configurations               | ↑            |      |      | ↖                      | ↘    |      |
| Traffic Volume (vph)              | 668          | 1    | 3    | 790                    | 2    | 6    |
| Future Volume (vph)               | 668          | 1    | 3    | 790                    | 2    | 6    |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900 | 1900                   | 1900 | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12   | 12                     | 12   | 12   |
| Grade (%)                         | 0%           |      |      | 0%                     | 0%   |      |
| Storage Length (ft)               |              | 0    | 0    |                        | 0    | 0    |
| Storage Lanes                     |              | 0    | 0    |                        | 1    | 0    |
| Taper Length (ft)                 |              |      | 25   |                        | 25   |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00 | 1.00                   | 1.00 | 1.00 |
| Ped Bike Factor                   |              |      |      |                        |      |      |
| Fr <sub>t</sub>                   |              |      |      | 0.895                  |      |      |
| Flt Protected                     |              |      |      | 0.989                  |      |      |
| Satd. Flow (prot)                 | 1827         | 0    | 0    | 1827                   | 1649 | 0    |
| Flt Permitted                     |              |      |      | 0.989                  |      |      |
| Satd. Flow (perm)                 | 1827         | 0    | 0    | 1827                   | 1649 | 0    |
| Link Speed (mph)                  | 30           |      |      | 30                     | 30   |      |
| Link Distance (ft)                | 475          |      |      | 682                    | 311  |      |
| Travel Time (s)                   | 10.8         |      |      | 15.5                   | 7.1  |      |
| Confl. Peds. (#/hr)               |              |      |      |                        |      |      |
| Confl. Bikes (#/hr)               |              |      |      |                        |      |      |
| Peak Hour Factor                  | 0.92         | 0.92 | 0.92 | 0.92                   | 0.92 | 0.92 |
| Growth Factor                     | 100%         | 100% | 100% | 100%                   | 100% | 100% |
| Heavy Vehicles (%)                | 4%           | 2%   | 2%   | 4%                     | 2%   | 2%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0    | 0                      | 0    | 0    |
| Parking (#/hr)                    |              |      |      |                        |      |      |
| Mid-Block Traffic (%)             | 0%           |      |      | 0%                     | 0%   |      |
| Adj. Flow (vph)                   | 726          | 1    | 3    | 859                    | 2    | 7    |
| Shared Lane Traffic (%)           |              |      |      |                        |      |      |
| Lane Group Flow (vph)             | 727          | 0    | 0    | 862                    | 9    | 0    |
| Sign Control                      | Free         |      |      | Free                   | Stop |      |
| <b>Intersection Summary</b>       |              |      |      |                        |      |      |
| Area Type:                        | Other        |      |      |                        |      |      |
| Control Type:                     | Unsignalized |      |      |                        |      |      |
| Intersection Capacity Utilization | 54.0%        |      |      | ICU Level of Service A |      |      |
| Analysis Period (min)             | 15           |      |      |                        |      |      |

**Intersection**

|                          |      |      |      |      |      |
|--------------------------|------|------|------|------|------|
| Int Delay, s/veh         | 0.1  |      |      |      |      |
| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  |
| Lane Configurations      | ↑    |      | ↖    | ↘    |      |
| Traffic Vol, veh/h       | 668  | 1    | 3    | 790  | 2    |
| Future Vol, veh/h        | 668  | 1    | 3    | 790  | 2    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop |
| RT Channelized           | -    | None | -    | None | -    |
| Storage Length           | -    | -    | -    | -    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    |
| Grade, %                 | 0    | -    | -    | 0    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 4    | 2    | 2    | 4    | 2    |
| Mvmt Flow                | 726  | 1    | 3    | 859  | 2    |
|                          |      |      |      |      | 7    |

| Major/Minor          | Major1 | Major2 | Minor1 |      |       |
|----------------------|--------|--------|--------|------|-------|
| Conflicting Flow All | 0      | 0      | 727    | 0    | 1592  |
| Stage 1              | -      | -      | -      | 727  | -     |
| Stage 2              | -      | -      | -      | 865  | -     |
| Critical Hdwy        | -      | -      | 4.12   | -    | 6.42  |
| Critical Hdwy Stg 1  | -      | -      | -      | 5.42 | -     |
| Critical Hdwy Stg 2  | -      | -      | -      | 5.42 | -     |
| Follow-up Hdwy       | -      | -      | 2.218  | -    | 3.518 |
| Pot Cap-1 Maneuver   | -      | -      | 876    | -    | 424   |
| Stage 1              | -      | -      | -      | 479  | -     |
| Stage 2              | -      | -      | -      | 412  | -     |
| Platoon blocked, %   | -      | -      | -      | -    | -     |
| Mov Cap-1 Maneuver   | -      | -      | 876    | -    | 424   |
| Mov Cap-2 Maneuver   | -      | -      | -      | 117  | -     |
| Stage 1              | -      | -      | -      | 479  | -     |
| Stage 2              | -      | -      | -      | 409  | -     |

| Approach          | EB | WB   | NB    |
|-------------------|----|------|-------|
| HCM Ctrl Dly, s/v | 0  | 0.03 | 19.54 |
| HCM LOS           |    |      | C     |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 256   | -   | -   | 7     | -   |
| HCM Lane V/C Ratio    | 0.034 | -   | -   | 0.004 | -   |
| HCM Ctrl Dly (s/v)    | 19.5  | -   | -   | 9.1   | 0   |
| HCM Lane LOS          | C     | -   | -   | A     | A   |
| HCM 95th %tile Q(veh) | 0.1   | -   | -   | 0     | -   |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Full AM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     | 1     | 1     | 1    | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Traffic Volume (vph)    | 43    | 622   | 3    | 12    | 737   | 101   | 3     | 0     | 6     | 71    | 3     | 62    |
| Future Volume (vph)     | 43    | 622   | 3    | 12    | 737   | 101   | 3     | 0     | 6     | 71    | 3     | 62    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               | 0%    |       |      |       | 0%    |       |       | 0%    |       |       | 0%    |       |
| Storage Length (ft)     | 230   |       |      | 0     | 160   |       | 0     | 0     |       | 0     | 0     | 70    |
| Storage Lanes           | 1     |       |      | 0     | 1     |       | 0     | 0     |       | 1     | 0     | 1     |
| Taper Length (ft)       | 80    |       |      |       | 25    |       |       | 25    |       |       | 25    |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |       |
| Fr <sub>t</sub>         |       | 0.999 |      |       |       | 0.982 |       |       |       | 0.850 |       | 0.850 |
| Flt Protected           | 0.950 |       |      |       | 0.950 |       |       |       | 0.950 |       |       | 0.954 |
| Satd. Flow (prot)       | 1805  | 1806  | 0    | 1421  | 1781  | 0     | 0     | 1805  | 1214  | 0     | 1714  | 1509  |
| Flt Permitted           | 0.195 |       |      | 0.353 |       |       |       | 0.705 |       |       |       | 0.732 |
| Satd. Flow (perm)       | 370   | 1806  | 0    | 528   | 1781  | 0     | 0     | 1340  | 1214  | 0     | 1315  | 1509  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       |      |       | 9     |       |       |       | 85    |       |       | 85    |
| Link Speed (mph)        |       | 30    |      |       | 30    |       |       | 10    |       |       | 30    |       |
| Link Distance (ft)      |       | 682   |      |       | 592   |       |       | 497   |       |       | 595   |       |
| Travel Time (s)         |       | 15.5  |      |       | 13.5  |       |       | 33.9  |       |       | 13.5  |       |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |       |
| Peak Hour Factor        | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 5%    | 33%  | 27%   | 5%    | 3%    | 0%    | 0%    | 33%   | 6%    | 0%    | 7%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)         | 47    | 676   | 3    | 13    | 801   | 110   | 3     | 0     | 7     | 77    | 3     | 67    |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 47    | 679   | 0    | 13    | 911   | 0     | 0     | 3     | 7     | 0     | 80    | 67    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |       | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |       |       | 4     |       | 4     |       | 8     |
| Permitted Phases        | 6     |       |      | 2     |       |       | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |       | 4     | 4     | 4     | 8     |       | 8     |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |       | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |       | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |       | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |       | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |       | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |       | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |       | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |       |       | 0.0   | 0.0   |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |       |       | 5.0   | 5.0   |       | 5.0   | 5.0   |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |       |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |       |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |       |       | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Full AM  
04/29/2025

| Lane Group              | EBL  | EBT   | EBR | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|-------|-----|------|-------|------|------|------|------|------|------|------|
| Minimum Gap (s)         | 2.0  | 2.0   |     | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |     | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       |     | 7.0  |       | 7.0  |      | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       |     | 18.0 |       | 18.0 |      | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) | 0    |       |     | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 70.4 | 70.2  |     | 68.0 | 66.0  |      |      | 11.7 | 11.7 |      | 11.7 | 11.7 |
| Actuated g/C Ratio      | 0.78 | 0.78  |     | 0.76 | 0.73  |      | 0.13 | 0.13 |      | 0.13 | 0.13 |      |
| v/c Ratio               | 0.13 | 0.48  |     | 0.03 | 0.70  |      | 0.02 | 0.03 |      | 0.47 | 0.25 |      |
| Control Delay (s/veh)   | 3.9  | 7.3   |     | 2.6  | 10.5  |      | 32.7 | 0.2  |      | 45.0 | 7.7  |      |
| Queue Delay             | 0.0  | 0.0   |     | 0.0  | 0.0   |      | 0.0  | 0.0  |      | 0.0  | 0.0  |      |
| Total Delay (s/veh)     | 3.9  | 7.3   |     | 2.6  | 10.5  |      | 32.7 | 0.2  |      | 45.0 | 7.7  |      |
| LOS                     | A    | A     |     | A    | B     |      | C    | A    |      | D    | A    |      |
| Approach Delay (s/veh)  |      | 7.0   |     |      | 10.3  |      | 9.9  |      |      | 28.0 |      |      |
| Approach LOS            |      | A     |     |      | B     |      | A    |      |      | C    |      |      |
| Queue Length 50th (ft)  | 5    | 111   |     | 1    | 127   |      | 2    | 0    |      | 43   | 0    |      |
| Queue Length 95th (ft)  | 15   | 335   |     | m3   | #320  |      | 9    | 0    |      | 84   | 26   |      |
| Internal Link Dist (ft) |      | 602   |     |      | 512   |      |      | 417  |      |      | 515  |      |
| Turn Bay Length (ft)    | 230  |       |     | 160  |       |      |      |      |      |      | 70   |      |
| Base Capacity (vph)     | 452  | 1409  |     | 515  | 1308  |      | 446  | 461  |      | 438  | 559  |      |
| Starvation Cap Reductn  | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Spillback Cap Reductn   | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Storage Cap Reductn     | 0    | 0     |     | 0    | 0     |      | 0    | 0    |      | 0    | 0    |      |
| Reduced v/c Ratio       | 0.10 | 0.48  |     | 0.03 | 0.70  |      | 0.01 | 0.02 |      | 0.18 | 0.12 |      |

#### Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 10 (11%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.70

Intersection Signal Delay (s/veh): 10.4      Intersection LOS: B

Intersection Capacity Utilization 74.1%      ICU Level of Service D

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road & NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Full AM  
04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 19    | 15    | 27   | 133   | 16    | 221   | 19    | 592   | 227   | 231   | 400   | 14   |
| Future Volume (vph)     | 19    | 15    | 27   | 133   | 16    | 221   | 19    | 592   | 227   | 231   | 400   | 14   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Frt                     |       | 0.940 |      |       |       | 0.850 |       |       | 0.850 |       | 0.995 |      |
| Flt Protected           |       | 0.985 |      |       | 0.957 |       | 0.950 |       |       |       | 0.950 |      |
| Satd. Flow (prot)       | 0     | 1728  | 0    | 0     | 1786  | 1495  | 1805  | 1827  | 1568  | 1703  | 1820  | 0    |
| Flt Permitted           |       | 0.873 |      |       | 0.767 |       | 0.507 |       |       |       | 0.222 |      |
| Satd. Flow (perm)       | 0     | 1532  | 0    | 0     | 1432  | 1495  | 963   | 1827  | 1568  | 398   | 1820  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes   |       |       | Yes   |       |       | Yes  |
| Satd. Flow (RTOR)       |       | 29    |      |       |       | 84    |       |       | 137   |       | 2     |      |
| Link Speed (mph)        |       | 30    |      |       | 35    |       |       | 30    |       |       | 30    |      |
| Link Distance (ft)      |       | 765   |      |       | 1110  |       |       | 973   |       |       | 592   |      |
| Travel Time (s)         |       | 17.4  |      |       | 21.6  |       |       | 22.1  |       |       | 13.5  |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.94  | 0.94  | 0.94 | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94  | 0.94 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 4%   | 2%    | 0%    | 8%    | 0%    | 4%    | 3%    | 6%    | 4%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 20    | 16    | 29   | 141   | 17    | 235   | 20    | 630   | 241   | 246   | 426   | 15   |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 65    | 0    | 0     | 158   | 235   | 20    | 630   | 241   | 246   | 441   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 32.5  | 32.5  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Full AM  
04/29/2025

|                         | ↑    | →    | ↓   | ↑    | ←    | ↓    | ↑    | →     | ↓     | ↑    | →     | ↓    | ↑ |
|-------------------------|------|------|-----|------|------|------|------|-------|-------|------|-------|------|---|
| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT   | NBR   | SBL  | SBT   | SBR  |   |
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   | 2.0  | 2.0   | 2.0  |   |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  |   |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  |   |
| Recall Mode             | None | None |     | None | None | None | None | C-Max | C-Max | None | C-Max |      |   |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      |      | 7.0   | 7.0   |      |       | 7.0  |   |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      |      | 20.0  | 20.0  |      |       | 20.0 |   |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      |      | 0     | 0     |      |       | 0    |   |
| Act Effct Green (s)     | 15.3 |      |     | 15.3 | 33.9 | 50.2 | 45.1 | 45.1  | 63.7  |      |       | 59.4 |   |
| Actuated g/C Ratio      | 0.17 |      |     | 0.17 | 0.38 | 0.56 | 0.50 | 0.50  | 0.71  |      |       | 0.66 |   |
| v/c Ratio               | 0.23 |      |     | 0.65 | 0.38 | 0.03 | 0.69 | 0.28  | 0.52  |      |       | 0.37 |   |
| Control Delay (s/veh)   | 20.6 |      |     | 46.4 | 12.7 | 7.2  | 25.5 | 8.6   | 14.5  |      |       | 8.6  |   |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |      |       | 0.0  |   |
| Total Delay (s/veh)     | 20.6 |      |     | 46.4 | 12.7 | 7.2  | 25.5 | 8.6   | 14.5  |      |       | 8.6  |   |
| LOS                     | C    |      |     | D    | B    | A    | C    | A     | B     |      |       | A    |   |
| Approach Delay (s/veh)  | 20.6 |      |     | 26.2 |      |      | 20.5 |       |       |      |       | 10.7 |   |
| Approach LOS            | C    |      |     | C    |      |      | C    |       |       |      |       | B    |   |
| Queue Length 50th (ft)  | 18   |      |     | 85   | 58   | 3    | 261  | 30    | 36    |      |       | 71   |   |
| Queue Length 95th (ft)  | 48   |      |     | 136  | 87   | 12   | #570 | 99    | 147   |      |       | 161  |   |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893  |       |       |      |       | 512  |   |
| Turn Bay Length (ft)    |      |      |     |      |      |      | 100  |       |       | 125  |       | 100  |   |
| Base Capacity (vph)     | 521  |      |     | 469  | 655  | 768  | 915  | 854   | 508   |      |       | 1202 |   |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     |      |       | 0    |   |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     |      |       | 0    |   |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0    | 0     | 0     |      |       | 0    |   |
| Reduced v/c Ratio       | 0.12 |      |     | 0.34 | 0.36 | 0.03 | 0.69 | 0.28  | 0.48  |      |       | 0.37 |   |

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 87 (97%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay (s/veh): 18.3

Intersection LOS: B

Intersection Capacity Utilization 72.6%

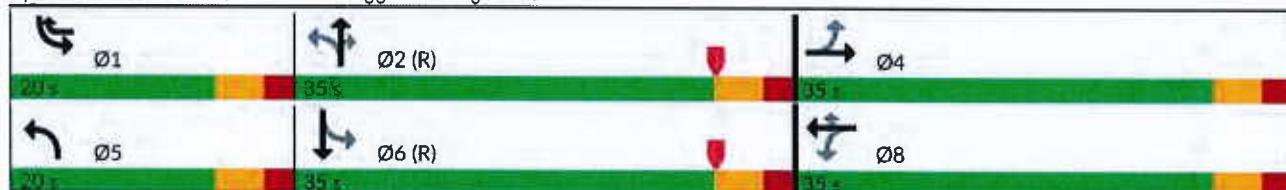
ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road



Lanes, Volumes, Timings  
1: Thornell Road & Proposed Access

2030 Full PM  
04/29/2025

| Lane Group                              | WBL                    | WBR  | NBT  | NBR  | SBL  | SBT  |
|---|------------------------|------|------|------|------|------|
| Lane Configurations                     |                        |      |      |      |      |      |
| Traffic Volume (vph)                    | 1                      | 1    | 305  | 1    | 1    | 297  |
| Future Volume (vph)                     | 1                      | 1    | 305  | 1    | 1    | 297  |
| Ideal Flow (vphpl)                      | 1900                   | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft)                         | 12                     | 12   | 12   | 12   | 12   | 12   |
| Grade (%)                               | 0%                     |      | 0%   |      |      | 0%   |
| Storage Length (ft)                     | 0                      | 0    |      | 0    | 0    |      |
| Storage Lanes                           | 1                      | 0    |      | 0    | 0    |      |
| Taper Length (ft)                       | 25                     |      |      | 25   |      |      |
| Lane Util. Factor                       | 1.00                   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped Bike Factor                         |                        |      |      |      |      |      |
| Frt                                     | 0.932                  |      |      |      |      |      |
| Flt Protected                           | 0.976                  |      |      |      |      |      |
| Satd. Flow (prot)                       | 1694                   | 0    | 1863 | 0    | 0    | 1863 |
| Flt Permitted                           | 0.976                  |      |      |      |      |      |
| Satd. Flow (perm)                       | 1694                   | 0    | 1863 | 0    | 0    | 1863 |
| Link Speed (mph)                        | 30                     |      | 35   |      |      | 35   |
| Link Distance (ft)                      | 467                    |      | 708  |      |      | 153  |
| Travel Time (s)                         | 10.6                   |      | 13.8 |      |      | 3.0  |
| Confl. Peds. (#/hr)                     |                        |      |      |      |      |      |
| Confl. Bikes (#/hr)                     |                        |      |      |      |      |      |
| Peak Hour Factor                        | 0.95                   | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Growth Factor                           | 100%                   | 100% | 100% | 100% | 100% | 100% |
| Heavy Vehicles (%)                      | 2%                     | 2%   | 2%   | 2%   | 2%   | 2%   |
| Bus Blockages (#/hr)                    | 0                      | 0    | 0    | 0    | 0    | 0    |
| Parking (#/hr)                          |                        |      |      |      |      |      |
| Mid-Block Traffic (%)                   | 0%                     |      | 0%   |      |      | 0%   |
| Adj. Flow (vph)                         | 1                      | 1    | 321  | 1    | 1    | 313  |
| Shared Lane Traffic (%)                 |                        |      |      |      |      |      |
| Lane Group Flow (vph)                   | 2                      | 0    | 322  | 0    | 0    | 314  |
| Sign Control                            | Stop                   |      | Free |      |      | Free |
| <b>Intersection Summary</b>             |                        |      |      |      |      |      |
| Area Type:                              | Other                  |      |      |      |      |      |
| Control Type:                           | Unsignalized           |      |      |      |      |      |
| Intersection Capacity Utilization 26.4% | ICU Level of Service A |      |      |      |      |      |
| Analysis Period (min) 15                |                        |      |      |      |      |      |

**Intersection**

Int Delay, s/veh 0.1

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | Y    | Y    | Y    | Y    | Y    | Y    |
| Traffic Vol, veh/h       | 1    | 1    | 305  | 1    | 1    | 297  |
| Future Vol, veh/h        | 1    | 1    | 305  | 1    | 1    | 297  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 95   | 95   | 95   | 95   | 95   | 95   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 1    | 1    | 321  | 1    | 1    | 313  |

**Major/Minor**      **Minor1**      **Major1**      **Major2**

|                      |       |       |   |   |       |   |
|----------------------|-------|-------|---|---|-------|---|
| Conflicting Flow All | 636   | 322   | 0 | 0 | 322   | 0 |
| Stage 1              | 322   | -     | - | - | -     | - |
| Stage 2              | 315   | -     | - | - | -     | - |
| Critical Hdwy        | 6.42  | 6.22  | - | - | 4.12  | - |
| Critical Hdwy Stg 1  | 5.42  | -     | - | - | -     | - |
| Critical Hdwy Stg 2  | 5.42  | -     | - | - | -     | - |
| Follow-up Hdwy       | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver   | 442   | 719   | - | - | 1238  | - |
| Stage 1              | 735   | -     | - | - | -     | - |
| Stage 2              | 740   | -     | - | - | -     | - |
| Platoon blocked, %   | -     | -     | - | - | -     | - |
| Mov Cap-1 Maneuver   | 441   | 719   | - | - | 1238  | - |
| Mov Cap-2 Maneuver   | 441   | -     | - | - | -     | - |
| Stage 1              | 735   | -     | - | - | -     | - |
| Stage 2              | 739   | -     | - | - | -     | - |

**Approach**      **WB**      **NB**      **SB**

|                   |       |   |      |
|-------------------|-------|---|------|
| HCM Ctrl Dly, s/v | 11.61 | 0 | 0.03 |
| HCM LOS           | B     |   |      |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL   | SBT |
|-----------------------|-----|-----|-------|-------|-----|
| Capacity (veh/h)      | -   | -   | 547   | 6     | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.004 | 0.001 | -   |
| HCM Ctrl Dly (s/v)    | -   | -   | 11.6  | 7.9   | 0   |
| HCM Lane LOS          | -   | -   | B     | A     | A   |
| HCM 95th %tile Q(veh) | -   | -   | 0     | 0     | -   |



| Lane Group                        | EBT          | EBR  | WBL   | WBT                    | NEL   | NER  |
|-----------------------------------|--------------|------|-------|------------------------|-------|------|
| Lane Configurations               | ↑            | ↑    | ↑     | ↑                      | ↑     | ↑    |
| Traffic Volume (vph)              | 502          | 34   | 265   | 627                    | 21    | 285  |
| Future Volume (vph)               | 502          | 34   | 265   | 627                    | 21    | 285  |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900  | 1900                   | 1900  | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12    | 12                     | 12    | 12   |
| Grade (%)                         | 0%           |      |       | 0%                     | 0%    |      |
| Storage Length (ft)               |              | 0    | 90    |                        | 0     | 0    |
| Storage Lanes                     |              | 0    | 1     |                        | 1     | 1    |
| Taper Length (ft)                 |              |      | 110   |                        | 90    |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00  | 1.00                   | 1.00  | 1.00 |
| Ped Bike Factor                   |              |      |       |                        |       |      |
| Fr <sub>t</sub>                   | 0.992        |      |       |                        | 0.850 |      |
| Flt Protected                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (prot)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Flt Permitted                     |              |      | 0.950 |                        | 0.950 |      |
| Satd. Flow (perm)                 | 1867         | 0    | 1787  | 1881                   | 1805  | 1615 |
| Link Speed (mph)                  | 30           |      |       | 30                     | 35    |      |
| Link Distance (ft)                | 1210         |      |       | 475                    | 153   |      |
| Travel Time (s)                   | 27.5         |      |       | 10.8                   | 3.0   |      |
| Confl. Peds. (#/hr)               |              |      |       |                        |       |      |
| Confl. Bikes (#/hr)               |              |      |       |                        |       |      |
| Peak Hour Factor                  | 0.82         | 0.82 | 0.82  | 0.82                   | 0.82  | 0.82 |
| Growth Factor                     | 100%         | 100% | 100%  | 100%                   | 100%  | 100% |
| Heavy Vehicles (%)                | 1%           | 0%   | 1%    | 1%                     | 0%    | 0%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0     | 0                      | 0     | 0    |
| Parking (#/hr)                    |              |      |       |                        |       |      |
| Mid-Block Traffic (%)             | 0%           |      |       | 0%                     | 0%    |      |
| Adj. Flow (vph)                   | 612          | 41   | 323   | 765                    | 26    | 348  |
| Shared Lane Traffic (%)           |              |      |       |                        |       |      |
| Lane Group Flow (vph)             | 653          | 0    | 323   | 765                    | 26    | 348  |
| Sign Control                      | Free         |      |       | Free                   | Stop  |      |
| <b>Intersection Summary</b>       |              |      |       |                        |       |      |
| Area Type:                        | Other        |      |       |                        |       |      |
| Control Type:                     | Unsignalized |      |       |                        |       |      |
| Intersection Capacity Utilization | 56.5%        |      |       | ICU Level of Service B |       |      |
| Analysis Period (min)             | 15           |      |       |                        |       |      |

**Intersection**

Int Delay, s/veh 8.7

| Movement                 | EBT  | EBR  | WBL  | WBT  | NEL  | NER  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    |      | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 502  | 34   | 265  | 627  | 21   | 285  |
| Future Vol, veh/h        | 502  | 34   | 265  | 627  | 21   | 285  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 90   | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 82   | 82   | 82   | 82   | 82   | 82   |
| Heavy Vehicles, %        | 1    | 0    | 1    | 1    | 0    | 0    |
| Mvmt Flow                | 612  | 41   | 323  | 765  | 26   | 348  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |          |
|----------------------|--------|--------|--------|---|----------|
| Conflicting Flow All | 0      | 0      | 654    | 0 | 2044 633 |
| Stage 1              | -      | -      | -      | - | 633 -    |
| Stage 2              | -      | -      | -      | - | 1411 -   |
| Critical Hdwy        | -      | -      | 4.11   | - | 6.4 6.2  |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 5.4 -    |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 5.4 -    |
| Follow-up Hdwy       | -      | -      | 2.209  | - | 3.5 3.3  |
| Pot Cap-1 Maneuver   | -      | -      | 938    | - | 63 483   |
| Stage 1              | -      | -      | -      | - | 533 -    |
| Stage 2              | -      | -      | -      | - | 228 -    |
| Platoon blocked, %   | -      | -      | -      | - | -        |
| Mov Cap-1 Maneuver   | -      | -      | 938    | - | 41 483   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 41 -     |
| Stage 1              | -      | -      | -      | - | 533 -    |
| Stage 2              | -      | -      | -      | - | 149 -    |

| Approach          | EB | WB   | NE    |
|-------------------|----|------|-------|
| HCM Ctrl Dly, s/v | 0  | 3.22 | 40.06 |
| HCM LOS           |    | E    |       |

| Minor Lane/Major Mvmt | NELn1 | NELn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 41    | 483   | -   | -   | 938   | -   |
| HCM Lane V/C Ratio    | 0.624 | 0.719 | -   | -   | 0.345 | -   |
| HCM Ctrl Dly (s/v)    | 186.6 | 29.3  | -   | -   | 10.8  | -   |
| HCM Lane LOS          | F     | D     | -   | -   | B     | -   |
| HCM 95th %tile Q(veh) | 2.3   | 5.7   | -   | -   | 1.5   | -   |



| Lane Group                        | EBT          | EBR  | WBL  | WBT                    | NBL  | NBR  |
|-----------------------------------|--------------|------|------|------------------------|------|------|
| Lane Configurations               | 2            | 2    | 6    | 2                      | 1    | 4    |
| Traffic Volume (vph)              | 785          | 2    | 6    | 891                    | 1    | 4    |
| Future Volume (vph)               | 785          | 2    | 6    | 891                    | 1    | 4    |
| Ideal Flow (vphpl)                | 1900         | 1900 | 1900 | 1900                   | 1900 | 1900 |
| Lane Width (ft)                   | 12           | 12   | 12   | 12                     | 12   | 12   |
| Grade (%)                         | 0%           |      |      | 0%                     | 0%   |      |
| Storage Length (ft)               |              | 0    | 0    |                        | 0    | 0    |
| Storage Lanes                     |              | 0    | 0    |                        | 1    | 0    |
| Taper Length (ft)                 |              |      | 25   |                        | 25   |      |
| Lane Util. Factor                 | 1.00         | 1.00 | 1.00 | 1.00                   | 1.00 | 1.00 |
| Ped Bike Factor                   |              |      |      |                        |      |      |
| Frt                               |              |      |      | 0.892                  |      |      |
| Flt Protected                     |              |      |      | 0.990                  |      |      |
| Satd. Flow (prot)                 | 1863         | 0    | 0    | 1863                   | 1645 | 0    |
| Flt Permitted                     |              |      |      | 0.990                  |      |      |
| Satd. Flow (perm)                 | 1863         | 0    | 0    | 1863                   | 1645 | 0    |
| Link Speed (mph)                  | 30           |      |      | 30                     | 30   |      |
| Link Distance (ft)                | 475          |      |      | 682                    | 435  |      |
| Travel Time (s)                   | 10.8         |      |      | 15.5                   | 9.9  |      |
| Confl. Peds. (#/hr)               |              |      |      |                        |      |      |
| Confl. Bikes (#/hr)               |              |      |      |                        |      |      |
| Peak Hour Factor                  | 0.95         | 0.95 | 0.95 | 0.95                   | 0.95 | 0.95 |
| Growth Factor                     | 100%         | 100% | 100% | 100%                   | 100% | 100% |
| Heavy Vehicles (%)                | 2%           | 2%   | 2%   | 2%                     | 2%   | 2%   |
| Bus Blockages (#/hr)              | 0            | 0    | 0    | 0                      | 0    | 0    |
| Parking (#/hr)                    |              |      |      |                        |      |      |
| Mid-Block Traffic (%)             | 0%           |      |      | 0%                     | 0%   |      |
| Adj. Flow (vph)                   | 826          | 2    | 6    | 938                    | 1    | 4    |
| Shared Lane Traffic (%)           |              |      |      |                        |      |      |
| Lane Group Flow (vph)             | 828          | 0    | 0    | 944                    | 5    | 0    |
| Sign Control                      | Free         |      |      | Free                   | Stop |      |
| <b>Intersection Summary</b>       |              |      |      |                        |      |      |
| Area Type:                        | Other        |      |      |                        |      |      |
| Control Type:                     | Unsignalized |      |      |                        |      |      |
| Intersection Capacity Utilization | 61.7%        |      |      | ICU Level of Service B |      |      |
| Analysis Period (min)             | 15           |      |      |                        |      |      |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 0.1    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      |        |        | ↓     | Y     |       |
| Traffic Vol, veh/h       | 785    | 2      | 6      | 891   | 1     | 4     |
| Future Vol, veh/h        | 785    | 2      | 6      | 891   | 1     | 4     |
| 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, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 95     | 95     | 95     | 95    | 95    | 95    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 826    | 2      | 6      | 938   | 1     | 4     |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 828    | 0     | 1778  | 827   |
| Stage 1                  | -      | -      | -      | -     | 827   | -     |
| Stage 2                  | -      | -      | -      | -     | 951   | -     |
| 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       | -      | -      | 803    | -     | 91    | 371   |
| Stage 1                  | -      | -      | -      | -     | 429   | -     |
| Stage 2                  | -      | -      | -      | -     | 376   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 803    | -     | 89    | 371   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 89    | -     |
| Stage 1                  | -      | -      | -      | -     | 429   | -     |
| Stage 2                  | -      | -      | -      | -     | 369   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Ctrl Dly, s/v        | 0      | 0.06   | 21.21  |       |       |       |
| HCM LOS                  |        |        | C      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 227    | -      | -      | 12    | -     |       |
| HCM Lane V/C Ratio       | 0.023  | -      | -      | 0.008 | -     |       |
| HCM Ctrl Dly (s/v)       | 21.2   | -      | -      | 9.5   | 0     |       |
| HCM Lane LOS             | C      | -      | -      | A     | A     |       |
| HCM 95th %tile Q(veh)    | 0.1    | -      | -      | 0     | -     |       |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Full PM  
04/29/2025

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     | 1     | 1     | 1    | 1     | 1     | 1    | 1     | 1     | 1     | 1     | 1     | 1     |
| Traffic Volume (vph)    | 64    | 662   | 13   | 68    | 762   | 144  | 56    | 24    | 64    | 77    | 19    | 80    |
| Future Volume (vph)     | 64    | 662   | 13   | 68    | 762   | 144  | 56    | 24    | 64    | 77    | 19    | 80    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)               | 0%    |       |      | 0%    |       |      | 0%    |       | 0%    |       | 0%    |       |
| Storage Length (ft)     | 230   |       | 0    | 160   |       | 0    | 0     |       | 0     | 0     |       | 70    |
| Storage Lanes           | 1     |       | 0    | 1     |       | 0    | 0     |       | 1     | 0     |       | 1     |
| Taper Length (ft)       | 80    |       |      | 25    |       | 25   |       |       | 25    |       |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor         |       |       |      |       |       |      |       |       |       |       |       |       |
| Frt                     |       | 0.997 |      |       | 0.976 |      |       |       | 0.850 |       |       | 0.850 |
| Flt Protected           | 0.950 |       |      | 0.950 |       |      |       | 0.966 |       |       |       | 0.962 |
| Satd. Flow (prot)       | 1624  | 1688  | 0    | 1624  | 1655  | 0    | 0     | 1652  | 1454  | 0     | 1645  | 1454  |
| Flt Permitted           | 0.161 |       |      | 0.299 |       |      |       | 0.730 |       |       |       | 0.713 |
| Satd. Flow (perm)       | 275   | 1688  | 0    | 511   | 1655  | 0    | 0     | 1248  | 1454  | 0     | 1219  | 1454  |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       | 1     |       |      | 12    |       |      |       | 85    |       |       |       | 85    |
| Link Speed (mph)        | 30    |       |      | 30    |       |      |       | 10    |       |       |       | 30    |
| Link Distance (ft)      | 682   |       |      | 592   |       |      |       | 497   |       |       |       | 595   |
| Travel Time (s)         | 15.5  |       |      | 13.5  |       |      |       | 33.9  |       |       |       | 13.5  |
| Confl. Peds. (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Confl. Bikes (#/hr)     |       |       |      |       |       |      |       |       |       |       |       |       |
| Peak Hour Factor        | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96 | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  | 0.96  |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)      | 0%    | 1%    | 0%   | 0%    | 1%    | 0%   | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)          |       |       |      |       |       |      |       |       |       |       |       |       |
| Mid-Block Traffic (%)   | 0%    |       |      | 0%    |       |      |       | 0%    |       |       |       | 0%    |
| Adj. Flow (vph)         | 67    | 690   | 14   | 71    | 794   | 150  | 58    | 25    | 67    | 80    | 20    | 83    |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 67    | 704   | 0    | 71    | 944   | 0    | 0     | 83    | 67    | 0     | 100   | 83    |
| Turn Type               | pm+pt | NA    |      | pm+pt | NA    |      | Perm  | NA    | Perm  | Perm  | NA    | Perm  |
| Protected Phases        | 1     | 6     |      | 5     | 2     |      |       | 4     |       | 4     | 8     | 8     |
| Permitted Phases        | 6     |       |      | 2     |       |      | 4     |       | 4     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |      | 5     | 2     |      | 4     | 4     | 4     | 8     | 8     | 8     |
| Switch Phase            |       |       |      |       |       |      |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 15.0  |      | 5.0   | 15.0  |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Minimum Split (s)       | 10.0  | 30.0  |      | 10.0  | 30.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Total Split (s)         | 15.0  | 40.0  |      | 15.0  | 40.0  |      | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Total Split (%)         | 16.7% | 44.4% |      | 16.7% | 44.4% |      | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 10.0  | 35.0  |      | 10.0  | 35.0  |      | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.5   | 1.5   |      | 1.5   | 1.5   |      | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Lost Time (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   |      |       | 5.0   | 5.0   |       | 5.0   | 5.0   |
| Lead/Lag                | Lead  | Lag   |      | Lead  | Lag   |      |       |       |       |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |      | Yes   | Yes   |      |       |       |       |       |       |       |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |

Lanes, Volumes, Timings  
4: Hitching Post Plaza/Marsh Road & NY-96

2030 Full PM  
04/29/2025

|                         | ↑    | →     | ↓    | ←    | ↖     | ↗    | ↑    | ↗    | ↖    | ↓    | ←    |      |
|-------------------------|------|-------|------|------|-------|------|------|------|------|------|------|------|
| Lane Group              | EBL  | EBT   | EBR  | WBL  | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Minimum Gap (s)         | 2.0  | 2.0   |      | 2.0  | 2.0   |      | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| Time Before Reduce (s)  | 0.0  | 0.0   |      | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Time To Reduce (s)      | 0.0  | 0.0   |      | 0.0  | 0.0   |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Recall Mode             | None | C-Max |      | None | C-Max |      | None | None | None | None | None | None |
| Walk Time (s)           |      |       | 7.0  |      |       | 7.0  |      | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
| Flash Don't Walk (s)    |      |       | 18.0 |      |       | 18.0 |      | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Pedestrian Calls (#/hr) | 0    |       |      | 0    |       | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Act Effct Green (s)     | 65.9 | 62.1  |      | 65.8 | 62.1  |      |      | 13.1 | 13.1 |      | 13.1 | 13.1 |
| Actuated g/C Ratio      | 0.73 | 0.69  |      | 0.73 | 0.69  |      |      | 0.15 | 0.15 |      | 0.15 | 0.15 |
| v/c Ratio               | 0.23 | 0.60  |      | 0.16 | 0.82  |      |      | 0.46 | 0.24 |      | 0.56 | 0.29 |
| Control Delay (s/veh)   | 5.9  | 14.0  |      | 7.2  | 23.9  |      |      | 42.5 | 7.0  |      | 47.6 | 10.0 |
| Queue Delay             | 0.0  | 0.0   |      | 0.0  | 0.0   |      |      | 0.0  | 0.0  |      | 0.0  | 0.0  |
| Total Delay (s/veh)     | 5.9  | 14.0  |      | 7.2  | 23.9  |      |      | 42.5 | 7.0  |      | 47.6 | 10.0 |
| LOS                     | A    | B     |      | A    | C     |      |      | D    | A    |      | D    | A    |
| Approach Delay (s/veh)  |      | 13.3  |      |      | 22.8  |      |      | 26.7 |      |      | 30.5 |      |
| Approach LOS            |      | B     |      |      | C     |      |      | C    |      |      | C    |      |
| Queue Length 50th (ft)  | 8    | 226   |      | 12   | 330   |      |      | 44   | 0    |      | 54   | 0    |
| Queue Length 95th (ft)  | 23   | 440   |      | m36  | #792  |      |      | 84   | 25   |      | 99   | 36   |
| Internal Link Dist (ft) |      | 602   |      |      | 512   |      |      | 417  |      |      | 515  |      |
| Turn Bay Length (ft)    | 230  |       |      | 160  |       |      |      |      |      |      |      | 70   |
| Base Capacity (vph)     | 361  | 1165  |      | 516  | 1145  |      |      | 416  | 541  |      | 406  | 541  |
| Starvation Cap Reductn  | 0    | 0     |      | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0     |      | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Storage Cap Reductn     | 0    | 0     |      | 0    | 0     |      |      | 0    | 0    |      | 0    | 0    |
| Reduced v/c Ratio       | 0.19 | 0.60  |      | 0.14 | 0.82  |      |      | 0.20 | 0.12 |      | 0.25 | 0.15 |

Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.82

Intersection Signal Delay (s/veh): 20.3

Intersection LOS: C

Intersection Capacity Utilization 83.5%

ICU Level of Service E

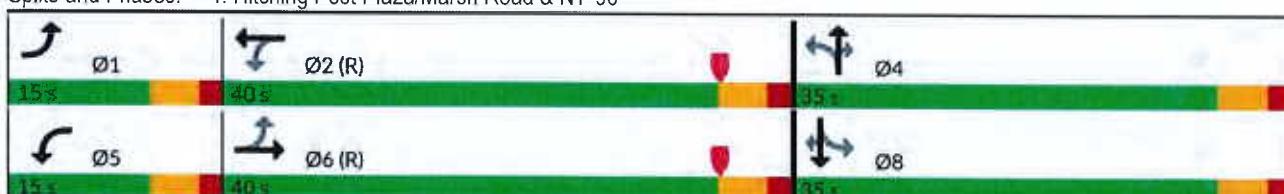
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Hitching Post Plaza/Marsh Road & NY-96



Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Full PM  
04/29/2025

|                         | EBL   | EBT   | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |       |       |       |       |       |       |      |
| Traffic Volume (vph)    | 4     | 3     | 0    | 102   | 1     | 277   | 4     | 684   | 242   | 260   | 482   | 0    |
| Future Volume (vph)     | 4     | 3     | 0    | 102   | 1     | 277   | 4     | 684   | 242   | 260   | 482   | 0    |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   |
| Grade (%)               |       | 0%    |      |       |       | 0%    |       |       | 0%    |       | 0%    |      |
| Storage Length (ft)     | 0     |       | 0    | 125   |       | 0     | 100   |       | 125   | 100   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 75    |       |       | 25    |       |       | 50    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| Ped Bike Factor         |       |       |      |       |       |       |       |       |       |       |       |      |
| Frt                     |       |       |      |       |       | 0.850 |       |       | 0.850 |       |       |      |
| Flt Protected           |       | 0.972 |      |       |       | 0.953 |       | 0.950 |       |       | 0.950 |      |
| Satd. Flow (prot)       | 0     | 1662  | 0    | 0     | 1614  | 1439  | 1624  | 1693  | 1439  | 1608  | 1693  | 0    |
| Flt Permitted           |       | 0.838 |      |       |       | 0.724 |       | 0.486 |       |       | 0.200 |      |
| Satd. Flow (perm)       | 0     | 1433  | 0    | 0     | 1226  | 1439  | 831   | 1693  | 1439  | 339   | 1693  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       |       | Yes   |       |       | Yes   |       | Yes  |
| Satd. Flow (RTOR)       |       |       |      |       |       | 65    |       |       |       | 126   |       |      |
| Link Speed (mph)        |       | 30    |      |       |       | 35    |       |       | 30    |       | 30    |      |
| Link Distance (ft)      |       | 765   |      |       |       | 1110  |       |       | 973   |       | 592   |      |
| Travel Time (s)         |       | 17.4  |      |       |       | 21.6  |       |       | 22.1  |       | 13.5  |      |
| Confl. Peds. (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Confl. Bikes (#/hr)     |       |       |      |       |       |       |       |       |       |       |       |      |
| Peak Hour Factor        | 0.99  | 0.99  | 0.99 | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99 |
| Growth Factor           | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% |
| Heavy Vehicles (%)      | 0%    | 0%    | 0%   | 1%    | 0%    | 1%    | 0%    | 1%    | 1%    | 1%    | 1%    | 0%   |
| Bus Blockages (#/hr)    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
| Parking (#/hr)          |       |       |      |       |       |       |       |       |       |       |       |      |
| Mid-Block Traffic (%)   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       | 0%    |      |
| Adj. Flow (vph)         | 4     | 3     | 0    | 103   | 1     | 280   | 4     | 691   | 244   | 263   | 487   | 0    |
| Shared Lane Traffic (%) |       |       |      |       |       |       |       |       |       |       |       |      |
| Lane Group Flow (vph)   | 0     | 7     | 0    | 0     | 104   | 280   | 4     | 691   | 244   | 263   | 487   | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    | pm+ov | pm+pt | NA    | Perm  | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     | 1     | 5     | 2     |       | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       | 8     | 2     |       | 2     | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     | 1     | 5     | 2     | 2     | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |       |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   | 5.0   | 20.0  | 20.0  | 5.0   | 20.0  |      |
| Minimum Split (s)       | 32.5  | 32.5  |      | 30.0  | 30.0  | 10.5  | 10.5  | 32.5  | 32.5  | 10.5  | 32.5  |      |
| Total Split (s)         | 35.0  | 35.0  |      | 35.0  | 35.0  | 20.0  | 20.0  | 35.0  | 35.0  | 20.0  | 35.0  |      |
| Total Split (%)         | 38.9% | 38.9% |      | 38.9% | 38.9% | 22.2% | 22.2% | 38.9% | 38.9% | 22.2% | 38.9% |      |
| Maximum Green (s)       | 29.5  | 29.5  |      | 29.5  | 29.5  | 14.5  | 14.5  | 29.5  | 29.5  | 14.5  | 29.5  |      |
| Yellow Time (s)         | 3.5   | 3.5   |      | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |      |
| All-Red Time (s)        | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 5.5   |      |       | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |      |
| Lead/Lag                |       |       |      |       |       | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 2.0   | 2.0   |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |

Lanes, Volumes, Timings  
5: NY-96 & Bruegger's/Kreag Road

2030 Full PM  
04/29/2025

|                         | ↖    | →    | ↘   | ↙    | ←    | ↗    | ↖     | ↗     | ↙    | ↓     | ↖    |     |
|-------------------------|------|------|-----|------|------|------|-------|-------|------|-------|------|-----|
| Lane Group              | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL   | NBT   | NBR  | SBL   | SBT  | SBR |
| Minimum Gap (s)         | 2.0  | 2.0  |     | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   | 2.0  | 2.0   | 2.0  | 2.0 |
| Time Before Reduce (s)  | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 |
| Time To Reduce (s)      | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 |
| Recall Mode             | None | None |     | None | None | None | C-Max | C-Max | None | C-Max |      |     |
| Walk Time (s)           | 7.0  | 7.0  |     |      |      |      | 7.0   | 7.0   |      |       | 7.0  |     |
| Flash Don't Walk (s)    | 20.0 | 20.0 |     |      |      |      | 20.0  | 20.0  |      |       | 20.0 |     |
| Pedestrian Calls (#/hr) | 0    | 0    |     |      |      |      | 0     | 0     |      |       | 0    |     |
| Act Effct Green (s)     | 11.8 |      |     | 12.0 | 30.6 | 53.4 | 48.4  | 48.4  | 69.3 | 68.3  |      |     |
| Actuated g/C Ratio      | 0.13 |      |     | 0.13 | 0.34 | 0.59 | 0.54  | 0.54  | 0.77 | 0.76  |      |     |
| v/c Ratio               | 0.04 |      |     | 0.64 | 0.53 | 0.01 | 0.76  | 0.29  | 0.55 | 0.38  |      |     |
| Control Delay (s/veh)   | 31.1 |      |     | 53.3 | 19.4 | 6.5  | 27.5  | 8.9   | 15.6 | 3.4   |      |     |
| Queue Delay             | 0.0  |      |     | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  |     |
| Total Delay (s/veh)     | 31.1 |      |     | 53.3 | 19.4 | 6.5  | 27.5  | 8.9   | 15.6 | 3.4   |      |     |
| LOS                     | C    |      |     | D    | B    | A    | C     | A     | B    | A     |      |     |
| Approach Delay (s/veh)  | 31.1 |      |     | 28.6 |      |      | 22.6  |       |      |       | 7.7  |     |
| Approach LOS            | C    |      |     | C    |      |      | C     |       |      |       | A    |     |
| Queue Length 50th (ft)  | 4    |      |     | 57   | 91   | 1    | 307   | 34    | 26   | 39    |      |     |
| Queue Length 95th (ft)  | 15   |      |     | 102  | 128  | 4    | #651  | 104   | 113  | 65    |      |     |
| Internal Link Dist (ft) | 685  |      |     | 1030 |      |      | 893   |       |      | 512   |      |     |
| Turn Bay Length (ft)    |      |      |     |      |      | 100  |       | 125   | 100  |       |      |     |
| Base Capacity (vph)     | 469  |      |     | 401  | 552  | 708  | 910   | 832   | 496  | 1284  |      |     |
| Starvation Cap Reductn  | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Spillback Cap Reductn   | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Storage Cap Reductn     | 0    |      |     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |     |
| Reduced v/c Ratio       | 0.01 |      |     | 0.26 | 0.51 | 0.01 | 0.76  | 0.29  | 0.53 | 0.38  |      |     |

Intersection Summary

Area Type: CBD

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 12 (13%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.76

Intersection Signal Delay (s/veh): 18.3

Intersection LOS: B

Intersection Capacity Utilization 79.6%

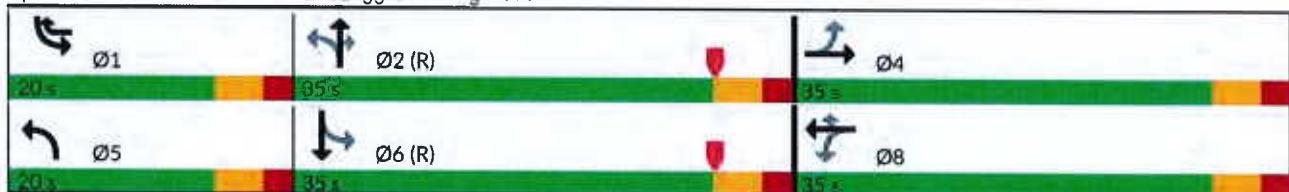
ICU Level of Service D

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 5: NY-96 & Bruegger's/Kreag Road



# SimTraffic Performance Report

2030 Full AM

04/29/2025

## 1: Thornell Road & Proposed Access Performance by lane

| Lane               | WB   | NB  | SB  | All |
|--------------------|------|-----|-----|-----|
| Movements Served   | LR   | TR  | LT  |     |
| Denied Delay (hr)  |      |     |     | 0.0 |
| Denied Del/Veh (s) |      |     |     | 0.2 |
| Total Delay (hr)   | 0.0  | 0.2 | 0.0 | 0.2 |
| Total Del/Veh (s)  | 12.4 | 1.9 | 0.5 | 1.4 |
| Stop Delay (hr)    | 0.0  | 0.0 | 0.0 | 0.0 |
| Stop Del/Veh (s)   | 12.4 | 0.0 | 0.3 | 0.2 |

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NE   | NE  | All |
|--------------------|-----|-----|-----|------|-----|-----|
| Movements Served   | TR  | L   | T   | L    | R   |     |
| Denied Delay (hr)  |     |     |     |      |     | 0.0 |
| Denied Del/Veh (s) |     |     |     |      |     | 0.1 |
| Total Delay (hr)   | 0.2 | 0.3 | 0.2 | 0.3  | 0.6 | 1.6 |
| Total Del/Veh (s)  | 1.5 | 5.7 | 1.2 | 26.7 | 7.3 | 3.7 |
| Stop Delay (hr)    | 0.0 | 0.2 | 0.0 | 0.3  | 0.7 | 1.2 |
| Stop Del/Veh (s)   | 0.0 | 3.7 | 0.0 | 25.7 | 8.2 | 2.7 |

## 3: Proposed Access & NY-96 Performance by lane

| Lane               | EB  | WB  | NB  | All |
|--------------------|-----|-----|-----|-----|
| Movements Served   | TR  | LT  | LR  |     |
| Denied Delay (hr)  |     |     |     | 0.0 |
| Denied Del/Veh (s) |     |     |     | 0.0 |
| Total Delay (hr)   | 0.1 | 0.5 | 0.0 | 0.6 |
| Total Del/Veh (s)  | 0.8 | 2.0 | 8.3 | 1.5 |
| Stop Delay (hr)    | 0.1 | 0.0 | 0.0 | 0.1 |
| Stop Del/Veh (s)   | 0.3 | 0.1 | 8.1 | 0.2 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB  | WB  | WB  | NB   | NB  | SB   | SB   | All |
|--------------------|------|-----|-----|-----|------|-----|------|------|-----|
| Movements Served   | L    | TR  | L   | TR  | LT   | R   | LT   | R    |     |
| Denied Delay (hr)  |      |     |     |     |      |     |      |      | 0.1 |
| Denied Del/Veh (s) |      |     |     |     |      |     |      |      | 0.2 |
| Total Delay (hr)   | 0.2  | 0.9 | 0.0 | 1.9 | 0.0  | 0.0 | 0.9  | 0.2  | 4.1 |
| Total Del/Veh (s)  | 15.4 | 5.1 | 8.0 | 7.9 | 20.5 | 6.1 | 41.0 | 10.4 | 8.6 |
| Stop Delay (hr)    | 0.2  | 0.4 | 0.0 | 0.7 | 0.0  | 0.0 | 0.8  | 0.2  | 2.3 |
| Stop Del/Veh (s)   | 13.5 | 2.5 | 6.3 | 3.1 | 21.1 | 7.1 | 36.1 | 10.8 | 4.9 |

# SimTraffic Performance Report

2030 Full AM

04/29/2025

## 5: NY-96 & Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      |     | 0.6  |
| Denied Del/Veh (s) |      |      |      |     |      |     |      |     | 1.1  |
| Total Delay (hr)   | 0.5  | 1.5  | 1.0  | 0.0 | 3.6  | 0.2 | 1.1  | 1.0 | 8.9  |
| Total Del/Veh (s)  | 28.6 | 36.0 | 14.6 | 6.3 | 21.4 | 3.4 | 16.8 | 7.6 | 15.9 |
| Stop Delay (hr)    | 0.5  | 1.4  | 0.7  | 0.0 | 2.2  | 0.2 | 1.0  | 0.4 | 6.6  |
| Stop Del/Veh (s)   | 26.6 | 33.7 | 11.4 | 4.8 | 13.5 | 2.8 | 15.4 | 3.1 | 11.7 |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 0.8  |
| Denied Del/Veh (s) | 1.2  |
| Total Delay (hr)   | 16.2 |
| Total Del/Veh (s)  | 25.6 |
| Stop Delay (hr)    | 10.3 |
| Stop Del/Veh (s)   | 16.2 |

Queuing and Blocking Report  
2030 Full AM

04/29/2025

Intersection: 1: Thornell Road & Proposed Access

| Movement              | WB  | NB  |
|-----------------------|-----|-----|
| Directions Served     | LR  | TR  |
| Maximum Queue (ft)    | 27  | 23  |
| Average Queue (ft)    | 2   | 1   |
| 95th Queue (ft)       | 16  | 10  |
| Link Distance (ft)    | 270 | 675 |
| Upstream Blk Time (%) |     |     |
| Queuing Penalty (veh) |     |     |
| Storage Bay Dist (ft) |     |     |
| Storage Blk Time (%)  |     |     |
| Queuing Penalty (veh) |     |     |

Intersection: 2: Thornell Road & NY-96

| Movement              | EB   | WB  | WB  | NE | NE  |
|-----------------------|------|-----|-----|----|-----|
| Directions Served     | TR   | L   | T   | L  | R   |
| Maximum Queue (ft)    | 43   | 109 | 62  | 65 | 136 |
| Average Queue (ft)    | 2    | 50  | 3   | 20 | 49  |
| 95th Queue (ft)       | 20   | 89  | 39  | 48 | 100 |
| Link Distance (ft)    | 1156 |     | 414 | 76 | 76  |
| Upstream Blk Time (%) |      |     |     | 0  | 4   |
| Queuing Penalty (veh) |      |     |     | 0  | 6   |
| Storage Bay Dist (ft) |      | 90  |     |    |     |
| Storage Blk Time (%)  |      | 1   | 0   |    |     |
| Queuing Penalty (veh) |      | 4   | 0   |    |     |

Intersection: 3: Proposed Access & NY-96

| Movement              | WB  | NB  |
|-----------------------|-----|-----|
| Directions Served     | LT  | LR  |
| Maximum Queue (ft)    | 40  | 30  |
| Average Queue (ft)    | 2   | 6   |
| 95th Queue (ft)       | 17  | 26  |
| Link Distance (ft)    | 621 | 276 |
| Upstream Blk Time (%) |     |     |
| Queuing Penalty (veh) |     |     |
| Storage Bay Dist (ft) |     |     |
| Storage Blk Time (%)  |     |     |
| Queuing Penalty (veh) |     |     |

Queuing and Blocking Report  
2030 Full AM

04/29/2025

Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB  | EB  | WB  | WB  | NB  | NB  | SB  | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|----|
| Directions Served     | L   | TR  | L   | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 60  | 247 | 86  | 299 | 31  | 59  | 150 | 94 |
| Average Queue (ft)    | 22  | 90  | 12  | 119 | 2   | 11  | 56  | 40 |
| 95th Queue (ft)       | 52  | 189 | 50  | 256 | 16  | 42  | 117 | 87 |
| Link Distance (ft)    |     | 621 |     | 510 | 463 | 463 | 559 |    |
| Upstream Blk Time (%) |     |     |     |     |     |     |     |    |
| Queuing Penalty (veh) |     |     |     |     |     |     |     |    |
| Storage Bay Dist (ft) | 230 |     | 160 |     |     |     | 70  |    |
| Storage Blk Time (%)  | 0   |     | 4   |     |     | 8   | 1   |    |
| Queuing Penalty (veh) | 0   |     | 1   |     |     | 5   | 1   |    |

Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB  | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L   | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 98  | 179 | 207  | 105 | 527 | 200 | 149 | 267 |
| Average Queue (ft)    | 43  | 90  | 82   | 14  | 217 | 92  | 84  | 76  |
| 95th Queue (ft)       | 89  | 151 | 163  | 60  | 453 | 215 | 142 | 195 |
| Link Distance (ft)    | 729 |     | 1062 |     | 944 |     | 510 |     |
| Upstream Blk Time (%) |     |     |      | 0   |     |     |     |     |
| Queuing Penalty (veh) |     |     |      | 0   |     |     |     |     |
| Storage Bay Dist (ft) | 125 |     | 100  |     | 125 | 100 |     |     |
| Storage Blk Time (%)  | 3   | 3   |      | 23  |     | 7   | 2   |     |
| Queuing Penalty (veh) | 6   | 4   |      | 56  |     | 28  | 4   |     |

Network Summary

Network wide Queuing Penalty: 115

# SimTraffic Performance Report

2030 Full PM

04/29/2025

## 1: Thornell Road & Proposed Access Performance by lane

| Lane               | WB   | NB  | SB  | All |
|--------------------|------|-----|-----|-----|
| Movements Served   | LR   | TR  | LT  |     |
| Denied Delay (hr)  |      |     | 0.0 |     |
| Denied Del/Veh (s) |      |     | 0.1 |     |
| Total Delay (hr)   | 0.0  | 0.4 | 0.1 | 0.4 |
| Total Del/Veh (s)  | 12.2 | 4.3 | 0.6 | 2.5 |
| Stop Delay (hr)    | 0.0  | 0.2 | 0.0 | 0.2 |
| Stop Del/Veh (s)   | 12.0 | 2.3 | 0.3 | 1.3 |

## 2: Thornell Road & NY-96 Performance by lane

| Lane               | EB  | WB  | WB  | NE   | NE   | All |
|--------------------|-----|-----|-----|------|------|-----|
| Movements Served   | TR  | L   | T   | L    | R    |     |
| Denied Delay (hr)  |     |     |     | 0.1  |      |     |
| Denied Del/Veh (s) |     |     |     | 0.3  |      |     |
| Total Delay (hr)   | 0.3 | 0.7 | 0.3 | 0.5  | 0.8  | 2.6 |
| Total Del/Veh (s)  | 1.9 | 9.4 | 1.7 | 48.0 | 9.8  | 5.1 |
| Stop Delay (hr)    | 0.0 | 0.6 | 0.0 | 0.5  | 0.9  | 1.9 |
| Stop Del/Veh (s)   | 0.0 | 7.4 | 0.1 | 47.5 | 10.8 | 3.8 |

## 3: Proposed Access & NY-96 Performance by lane

| Lane               | EB  | WB  | NB   | All |
|--------------------|-----|-----|------|-----|
| Movements Served   | TR  | LT  | LR   |     |
| Denied Delay (hr)  |     |     | 0.0  |     |
| Denied Del/Veh (s) |     |     | 0.0  |     |
| Total Delay (hr)   | 0.2 | 0.7 | 0.0  | 0.9 |
| Total Del/Veh (s)  | 0.9 | 2.6 | 10.6 | 1.8 |
| Stop Delay (hr)    | 0.1 | 0.1 | 0.0  | 0.1 |
| Stop Del/Veh (s)   | 0.3 | 0.3 | 10.4 | 0.3 |

## 4: Hitching Post Plaza/Marsh Road & NY-96 Performance by lane

| Lane               | EB   | EB   | WB   | WB   | NB   | NB   | SB   | SB   | All  |
|--------------------|------|------|------|------|------|------|------|------|------|
| Movements Served   | L    | TR   | L    | TR   | LT   | R    | LT   | R    |      |
| Denied Delay (hr)  |      |      |      |      |      | 0.3  |      |      |      |
| Denied Del/Veh (s) |      |      |      |      |      | 0.6  |      |      |      |
| Total Delay (hr)   | 0.5  | 2.2  | 0.2  | 7.2  | 0.6  | 0.2  | 1.0  | 0.4  | 12.3 |
| Total Del/Veh (s)  | 24.5 | 10.8 | 13.3 | 27.5 | 30.8 | 10.1 | 36.3 | 15.9 | 20.9 |
| Stop Delay (hr)    | 0.4  | 1.2  | 0.2  | 4.1  | 0.6  | 0.2  | 0.9  | 0.4  | 8.1  |
| Stop Del/Veh (s)   | 22.3 | 6.2  | 10.8 | 15.8 | 31.7 | 10.9 | 31.0 | 16.3 | 13.8 |

## SimTraffic Performance Report

2030 Full PM

04/29/2025

## 5: NY-96 &amp; Bruegger's/Kreag Road Performance by lane

| Lane               | EB   | WB   | WB   | NB  | NB   | NB  | SB   | SB  | All  |
|--------------------|------|------|------|-----|------|-----|------|-----|------|
| Movements Served   | LTR  | LT   | R    | L   | T    | R   | L    | TR  |      |
| Denied Delay (hr)  |      |      |      |     |      |     |      |     | 1.3  |
| Denied Del/Veh (s) |      |      |      |     |      |     |      |     | 2.2  |
| Total Delay (hr)   | 0.1  | 1.2  | 1.7  | 0.0 | 9.3  | 0.3 | 1.6  | 1.1 | 15.2 |
| Total Del/Veh (s)  | 34.8 | 38.8 | 21.5 | 4.5 | 46.2 | 4.4 | 23.0 | 7.2 | 25.3 |
| Stop Delay (hr)    | 0.1  | 1.1  | 1.4  | 0.0 | 6.2  | 0.2 | 1.5  | 0.3 | 10.9 |
| Stop Del/Veh (s)   | 32.3 | 36.6 | 18.1 | 2.8 | 30.9 | 3.7 | 21.9 | 2.2 | 18.2 |

## Total Network Performance

|                    |      |
|--------------------|------|
| Denied Delay (hr)  | 1.8  |
| Denied Del/Veh (s) | 2.5  |
| Total Delay (hr)   | 32.2 |
| Total Del/Veh (s)  | 43.0 |
| Stop Delay (hr)    | 21.4 |
| Stop Del/Veh (s)   | 28.5 |

**Intersection: 1: Thornell Road & Proposed Access**

| Movement              | WB  | NB  | SB |
|-----------------------|-----|-----|----|
| Directions Served     | LR  | TR  | LT |
| Maximum Queue (ft)    | 21  | 152 | 42 |
| Average Queue (ft)    | 1   | 14  | 2  |
| 95th Queue (ft)       | 11  | 84  | 15 |
| Link Distance (ft)    | 426 | 675 | 78 |
| Upstream Blk Time (%) |     |     |    |
| Queuing Penalty (veh) |     |     |    |
| Storage Bay Dist (ft) |     |     |    |
| Storage Blk Time (%)  |     |     |    |
| Queuing Penalty (veh) |     |     |    |

**Intersection: 2: Thornell Road & NY-96**

| Movement              | EB   | WB  | WB  | NE | NE  |
|-----------------------|------|-----|-----|----|-----|
| Directions Served     | TR   | L   | T   | L  | R   |
| Maximum Queue (ft)    | 31   | 172 | 166 | 65 | 100 |
| Average Queue (ft)    | 2    | 73  | 11  | 15 | 51  |
| 95th Queue (ft)       | 14   | 134 | 78  | 46 | 95  |
| Link Distance (ft)    | 1156 |     | 416 | 78 | 78  |
| Upstream Blk Time (%) |      |     |     | 2  | 5   |
| Queuing Penalty (veh) |      |     |     | 3  | 8   |
| Storage Bay Dist (ft) |      | 90  |     |    |     |
| Storage Blk Time (%)  |      | 5   | 0   |    |     |
| Queuing Penalty (veh) |      | 33  | 1   |    |     |

**Intersection: 3: Proposed Access & NY-96**

| Movement              | WB  | NB  |
|-----------------------|-----|-----|
| Directions Served     | LT  | LR  |
| Maximum Queue (ft)    | 166 | 31  |
| Average Queue (ft)    | 11  | 4   |
| 95th Queue (ft)       | 92  | 21  |
| Link Distance (ft)    | 618 | 401 |
| Upstream Blk Time (%) |     |     |
| Queuing Penalty (veh) |     |     |
| Storage Bay Dist (ft) |     |     |
| Storage Blk Time (%)  |     |     |
| Queuing Penalty (veh) |     |     |

Queuing and Blocking Report  
2030 Full PM

04/29/2025

Intersection: 4: Hitching Post Plaza/Marsh Road & NY-96

| Movement              | EB  | EB  | WB  | WB  | NB  | NB  | SB  | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|----|
| Directions Served     | L   | TR  | L   | TR  | LT  | R   | LT  | R  |
| Maximum Queue (ft)    | 133 | 327 | 185 | 522 | 134 | 75  | 159 | 95 |
| Average Queue (ft)    | 39  | 146 | 64  | 354 | 49  | 34  | 65  | 51 |
| 95th Queue (ft)       | 91  | 281 | 175 | 574 | 103 | 65  | 125 | 91 |
| Link Distance (ft)    |     | 618 |     | 510 | 464 | 464 | 559 |    |
| Upstream Blk Time (%) |     |     |     | 2   |     |     |     |    |
| Queuing Penalty (veh) |     |     |     | 15  |     |     |     |    |
| Storage Bay Dist (ft) | 230 |     | 160 |     |     |     | 70  |    |
| Storage Blk Time (%)  | 2   | 0   | 27  |     |     | 10  | 2   |    |
| Queuing Penalty (veh) | 1   | 0   | 18  |     |     | 8   | 2   |    |

Intersection: 5: NY-96 & Bruegger's/Kreag Road

| Movement              | EB  | WB  | WB   | NB | NB  | NB  | SB  | SB  |
|-----------------------|-----|-----|------|----|-----|-----|-----|-----|
| Directions Served     | LTR | LT  | R    | L  | T   | R   | L   | TR  |
| Maximum Queue (ft)    | 29  | 141 | 203  | 86 | 892 | 200 | 149 | 289 |
| Average Queue (ft)    | 5   | 67  | 104  | 4  | 421 | 120 | 95  | 78  |
| 95th Queue (ft)       | 22  | 120 | 174  | 35 | 907 | 252 | 151 | 222 |
| Link Distance (ft)    | 729 |     | 1062 |    | 944 |     | 510 |     |
| Upstream Blk Time (%) |     |     |      | 7  |     |     |     |     |
| Queuing Penalty (veh) |     |     |      | 0  |     |     |     |     |
| Storage Bay Dist (ft) | 125 |     | 100  |    | 125 | 100 |     |     |
| Storage Blk Time (%)  | 1   | 5   |      | 33 | 0   | 12  | 1   |     |
| Queuing Penalty (veh) | 2   | 5   |      | 80 | 0   | 56  | 1   |     |

Network Summary

Network wide Queuing Penalty: 232