WORCESTER, MASSACHUSETTS

48 Mason Street

Transportation Impact Study

Prepared for **City of Worcester**

Prepared by **Howard Stein Hudson**

March 2023



Engineers + Planners



March 30, 2023

City of Worcester 455 Main Street Worcester, MA 01608

Re: 48 Mason Street Transportation Impact Study (TIS)

Dear Reviewer:

This letter shall certify that this Transportation Impact Study (TIS) has been prepared under my direct supervision and responsible charge. I am a Registered Professional Engineer (P.E.) in the Commonwealth of Massachusetts (Massachusetts P.E. No. 47252) and hold Certification as a Professional Traffic Operations Engineer (PTOE Certificate No. 906) from the Transportation Professional Certification Board, Inc. (TPCB), an independent affiliate of the Institute of Transportation Engineers (ITE).

Sincerely,

Keri Pyke, P.E., PTØE

Principal of Transportation Planning and Land Development



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Introduction

In accordance with the City of Worcester's *Guidelines for Performing Traffic Impact Studies*, proponents of major construction projects are required to submit a transportation study to the City that assesses existing and future traffic conditions. This study, prepared by *Howard Stein Hudson (HSH)* for Kensington Management, LLC (the Proponent), presents the traffic and parking impacts associated with the proposed development located at 48 Mason Street in Worcester, Massachusetts. This report has been prepared in conjunction with the Site Plan Application.

Project Description

The Project will consist of the construction of a seven-story approximately 94-unit affordable multifamily development. Vehicular access will be provided via Mason Street and Winfield Street to a surface parking lot with approximately 66 parking spaces.

Study Area

The extent of the study area generally includes Mason Street to the east, Park Street to west Chandler Street to the north, and May Street to the south. The study area, shown in **Figure 1**, was defined collaboratively with the City and includes the following five unsignalized intersections:

- Mason Street/Chandler Street (Route 122);
- Mason Street/Bluff Street;
- Mason Street/Parker Street;
- Park Avenue (Route 12)/Winfield Street; and
- Mason Street/Winfield Street.

Figure 1. Study Area



Study Methodology

This transportation study and its supporting analyses were conducted in accordance with the Massachusetts Department of Transportation (MassDOT) guidelines and are described below.

The Existing (2023) Condition analysis includes an inventory of the existing transportation conditions such as traffic characteristics, parking and curb usage, transit operations, pedestrian and bicycle facilities, and car and bike share services. Existing counts for vehicles, bicycles, and pedestrians were collected at the study area intersections. A traffic data collection effort forms the basis for the transportation analysis conducted as part of this evaluation.

The future transportation conditions analysis evaluates potential transportation impacts associated with the Project. The long-term transportation impacts are evaluated for the year 2030, based on a seven-year horizon from the year of the filing of this traffic study.

The No-build (2030) Condition analysis includes general background traffic growth, traffic growth associated with specific developments (not including this Project), and transportation improvements that are planned in the vicinity of the Project site.

The Build (2030) Condition analysis includes a net increase in traffic volume due to the addition of Project-generated trip estimates to the traffic volumes developed as part of the No-build (2030) Condition analysis. The transportation study identified expected roadway, parking, transit, pedestrian, and bicycle accommodations, as well as loading capabilities.

The final part of the transportation study identifies measures to mitigate Project-related impacts and to address any traffic, pedestrian, bicycle, transit, safety, or construction related issues that are necessary to accommodate the Project.

Existing Condition

Existing Roadway Conditions

The study area includes the following roadways described below, categorized according to the Massachusetts Office of Transportation Planning classifications. Roadway geometry descriptions are based on field observations.

Mason Street is a two-way local roadway between Pleasant Street to the north and May Street to the south under City of Worcester jurisdiction. Within the study area, sidewalks and on-street parking are provided along both sides of Mason Street.

Chandler Street is a two-way urban principal arterial roadway between Main Street to the east and May Street to the west under City of Worcester jurisdiction. Within the study area, sidewalks are provided along both sides of the roadway, and on-street parking is permitted.

Bluff Street is a two-way local roadway between King Street to the east and Mason Street to the west under City of Worcester jurisdiction. Within the study area, sidewalks are provided along both sides of the roadway, and on-street parking is permitted.

Parker Street is a two-way local roadway between Page Street and Mayfield Street to the west, under City of Worcester jurisdiction. Within the study area, sidewalks are provided along both sides of the roadway, and on-street parking is permitted.

Park Avenue is a two-way urban principal arterial between Grove Street to the north and Main Street to the south, under the City of Worcester jurisdiction. Within the study area, sidewalks are provided along both sides of the road, and on-street parking is generally permitted along the east side of Park Avenue only.

Winfield Street is a one-way eastbound local roadway between Mason Street to the east and Park Avenue to the west, under City of Worcester jurisdiction. Within the study area, sidewalks are provided along both sides of the roadway, and on-street parking is permitted.

Existing Intersection Conditions

Mason Street/Chandler Street (Route 122) is an unsignalized intersection with four approaches. The Chandler Street eastbound and westbound approaches each consist of a 10-foot-wide shared left-turn/through lane and a 10-foot-wide shared through/right-turn lane. The Mason Street northbound and southbound approaches are stop-controlled, and each consist of a 12-foot-wide general travel lane. Sidewalks are provided along every approach of the intersection with crosswalks across every approach except for the westbound approach. On-street parking is permitted along every approach.

Mason Street/Bluff Street is an unsignalized intersection with three approaches. The Bluff Street westbound approach is stop-controlled and consists of a 12-foot-wide shared left-turn/right-turn lane. The Mason Street northbound and southbound approaches each consist of a 12-foot-wide shared through/right-turn lane and a 12-foot-wide shared left-turn/through lane, respectively. Sidewalks are

provided along every approach; however, no crosswalks are provided. On-street parking is permitted along every approach.

Mason Street/Parker Street is an unsignalized intersection with four approaches. The Parker Street eastbound and westbound approaches are stop-controlled, and each consist of a 12-foot-wide general travel lane. The Mason Street northbound and southbound approach each consist of a 12-foot-wide general travel lane. Sidewalks are provided along every approach except for the Mason Street northbound approach. Crosswalks are not provided across any approach. On-street parking is permitted along every approach.

Park Avenue (Route 12)/Winfield Street is an unsignalized intersection with two approaches. The Park Avenue northbound approach consists of a 10-foot-wide exclusive through lane and 10-foot-wide exclusive through/right-turn lane. The Park Avenue southbound approach consists of a 10-foot-wide shared left-turn/through lane and a 10-foot-wide exclusive through lane. Winfield Street eastbound is one-way leaving the intersection. Sidewalks are provided along every approach with a crosswalk across Winfield Street. On-street parking is only permitted along Winfield Street.

Mason Street/Winfield Street is an unsignalized intersection with three approaches. The Winfield Street eastbound approach is stop-controlled and consists of a 12-foot-wide shared left-turn/right-turn lane. The Mason Street northbound and southbound approaches each consist of a 12-foot-wide exclusive through lane. Sidewalks are provided along every approach; however, no crosswalks are provided. Parking is permitted along every approach.

Existing On-Street Parking and Curb Use

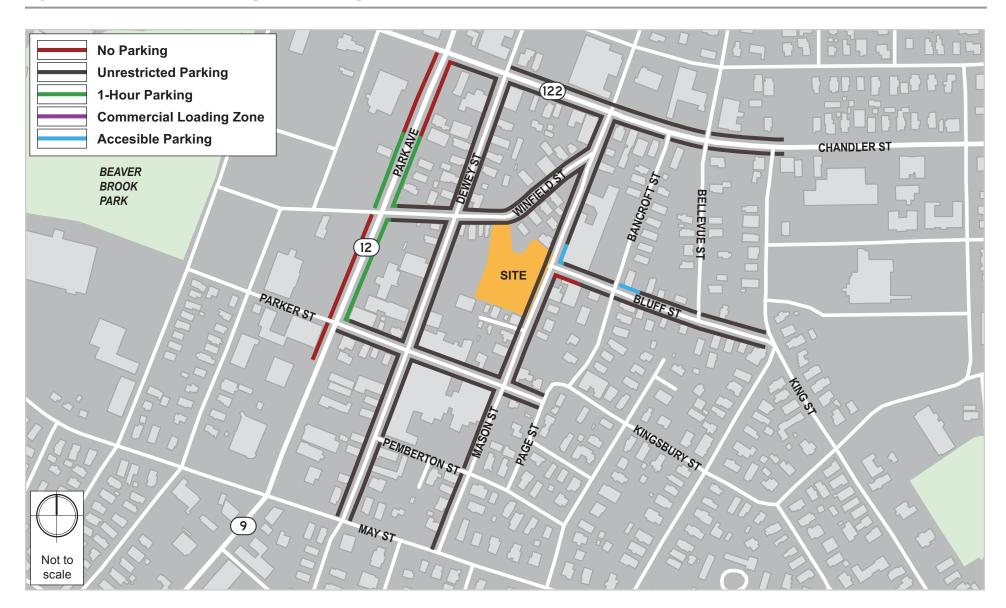
An inventory of the on-street parking regulations and existing curb use in the vicinity of the Site was collected and is shown in **Figure 2**. Within the study area, parking generally consists of no parking, unrestricted parking, commercial loading, and one-hour parking.

Existing Car Sharing Services

Car sharing enables easy access to short-term vehicular transportation. Vehicles are rented on an hourly or daily basis, and all vehicle costs (gas, maintenance, insurance, and parking) are included in the rental fee. Vehicles are checked out for a specific time period and returned to their designated location.

Zipcar is the primary company in the Greater Boston area car sharing market; however, other companies such as Turo and Getaround also operate within the City of Worcester. The two closest Zipcar locations are located within a half-mile from the Project Site, at Clark University.

Figure 2. On-Street Parking and Curb Regulations



Existing Traffic Volumes

TURNING MOVEMENT COUNTS

Turning movement counts (TMCs) and vehicle classification counts were conducted during the weekday a.m. and p.m. peak periods (7:00-9:00 a.m.) and 4:00-6:00 p.m., respectively). The TMCs included automobile, truck, pedestrian, and bicycle movements. The traffic volume data for all five study area intersections were collected on Tuesday, January 31, 2023. When the traffic counts were collected, the weather was sunny with an average temperature of 35 degrees F. Within the data collection periods, the peak hours were generally identified as 7:30-8:30 a.m. and 4:30-5:30 p.m. The detailed TMC data is provided in **Appendix A.**

SEASONAL ADJUSTMENT

It is standard practice to adjust traffic count data by a seasonal factor to calculate average annual volumes. To account for seasonal variation in Worcester traffic, the study team reviewed MassDOT's weekday seasonal adjustment factor for Group U4-7 (Urban Minor Arterials, Major and Minor Collectors, and Local Roads and Streets). The seasonal adjustment factor for January is 1.01, indicating that the annual average vehicular volume is 1% higher than the January data that was collected. Therefore, all traffic volume data have been adjusted upward by 1% to estimate annual average volumes. The 2019 MassDOT weekday seasonal and axle correction factors are provided in **Appendix B**.

AUTOMATIC TRAFFIC RECORDER COUNTS

An Automatic Traffic Recorder (ATR) is a device that continuously records the passage of vehicles, vehicle speed, vehicle classification, and direction of traffic flow. ATRs are used to gather larger amounts of traffic data over an extended time period. ATR counts were recorded for a 48-hour period between Tuesday, January 31, and Wednesday, February 1, 2023. **Table 1** summarizes the ATR data collected, including Average Daily Traffic (ADT in vehicles per day (vpd)), the proportion of daily traffic occurring during the peak hour (K-factor, %), number and percent heavy vehicles (T), and daily 85th percentile speeds. The detailed ATR counts are provided in **Appendix A.**

Table 1. Average Weekday Traffic Data

| Approach | ADT (vpd) | K (%) | T (#/%) | 85 th Percentile Speed (mph) |
|---------------------------------------|--------------|----------|------------|--|
| Mason Street, south of Bluff Street | | | | |
| Northbound | 589 | 8% | 29/5% | 30 |
| Southbound | 824 | 11% | 11/1% | 30 |
| Total | 1,413 | 9% | 40/3% | |
| Winfield Street, east of Dewey Street | | | | |
| Eastbound | 910 | 9% | 6/1% | 22 |
| Total | 910 | 9% | 6/1% | |

EXISTING VEHICULAR TRAFFIC VOLUMES

The Existing (2023) Condition vehicular volumes for the weekday a.m. and p.m. peak hours are shown in **Figure 3** and **Figure 4**, respectively.

Crash History

Crash data is used to understand safety conditions at the study intersections. The MassDOT IMPACT Portal was used to obtain crash data from the most recent three years of available data, which included data between 2018-2020. While the most recent year of complete crash data is 2020, the IMPACT Portal is updated daily with data that MassDOT considers incomplete as the records have not been verified or closed by all municipal police departments across the Commonwealth.

In MassDOT District 3, where the Project site is located, the average number of crashes is 0.61 crashes per million entering vehicles (MEV) at unsignalized intersections. **Table 2** summarizes crash data, including the number per location and the associated crash rates. Crash rate worksheets are provided in **Appendix C**.

Figure 3. Existing (2023) Condition Vehicular Volumes, Weekday a.m. Peak Hour

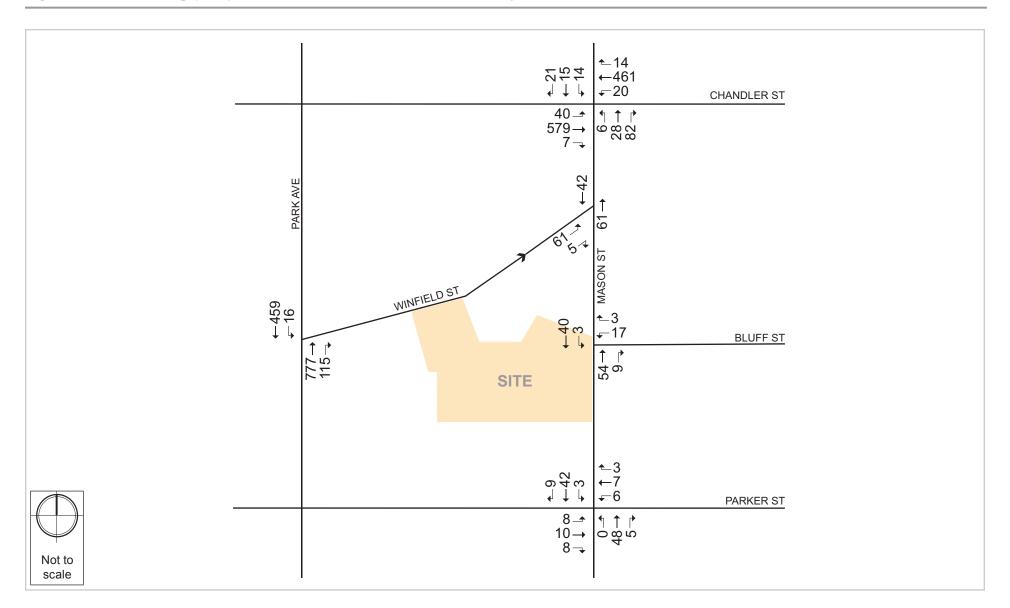


Figure 4. Existing (2023) Condition Vehicular Volumes, Weekday p.m. Peak Hour

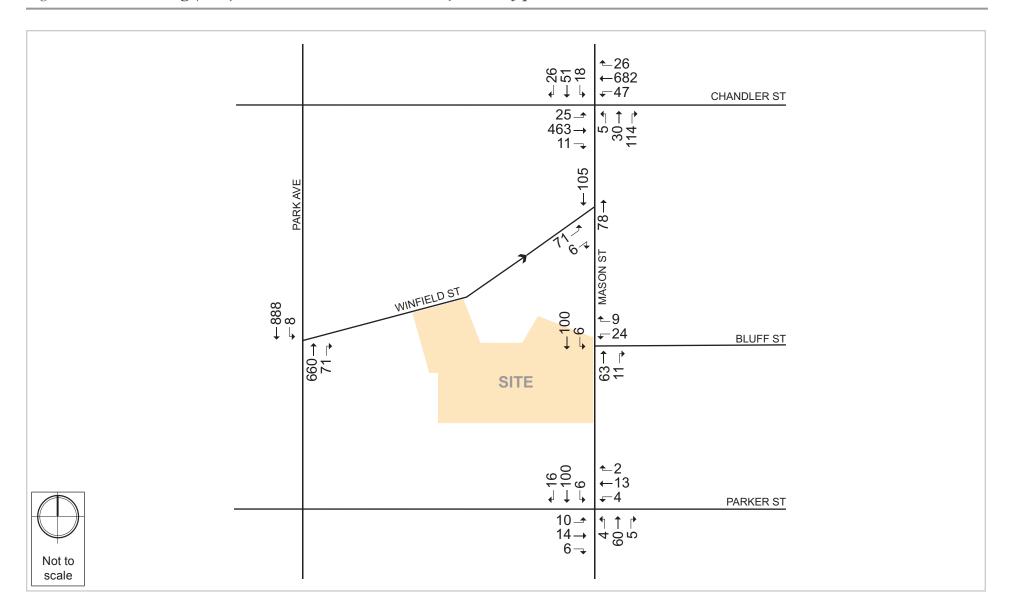


Table 2. Crash History at Study Area Intersections, 2018-2020

| Characteristic | Mason Street/ Chandler Street | Mason Street/ Bluff Street | Mason Street/ Parker Street | Park Avenue/ Winfield Street | Mason Street/ Winfield Street |
|-------------------------------|--|-------------------------------------|--------------------------------------|---------------------------------------|--|
| Year | | | | | |
| 2018 | 16 | 1 | 2 | 6 | 0 |
| 2019 | 22 | 1 | 1 | 2 | 1 |
| 2020 | 10 | 0 | 4 | 0 | 0 |
| Crash Severity | | | | | |
| Property Damage Only | 28 | 2 | 1 | 5 | 1 |
| Injury | 12 | 0 | 5 | 1 | 0 |
| Fatality | 1 | 0 | 0 | 0 | 0 |
| Other/Not Reported | 7 | 0 | 0 | 1 | 0 |
| Crash Type | | | | | |
| Angle | 37 | 2 | 5 | 1 | 1 |
| Rear-end | 2 | 0 | 1 | 5 | 0 |
| Head-on | 1 | 0 | 0 | 0 | 0 |
| Sideswipe, same direction | 2 | 0 | 0 | 1 | 1 |
| Sideswipe, opposite direction | 2 | 0 | 0 | 0 | 0 |
| Pedestrian | 1 | 0 | 0 | 0 | 0 |
| Cyclist | 0 | 0 | 0 | 0 | 0 |
| Single Vehicle | 3 | 0 | 1 | 0 | 0 |
| Other/Not Reported | 0 | 0 | 0 | 0 | 0 |
| Pavement Condition | | | | | |
| Dry | 32 | 1 | 6 | 5 | 0 |
| Wet | 13 | 0 | 1 | 2 | 1 |
| Snow/Ice | 3 | 1 | 0 | 0 | 0 |
| Other/Not Reported | 3 | 0 | 0 | 0 | 0 |
| Total Crashes | 48 | 2 | 7 | 7 | 1 |
| Crash Rate ¹ | 2.66 | 0.78 | 2.42 | 0.36 | 0.32 |
| District 3 Average | 0.61 unsignalized | | | | |

¹ Crash rate = Crashes per million entering vehicles Shading indicates a crash rate higher than district average

Three of the intersections exceed the District 3 average crash rates for unsignalized intersections:

■ The intersection of Chandler Street/Mason Street has a crash rate of 2.66 per MEV and during the study period, one pedestrian-involved crash was observed in 2018. This intersection has been identified by MassDOT as a top 200 intersection crash cluster and eligible for the Highway Safety Improvement Program (HSIP) and has been identified as a top 5% Pedestrian Crash Cluster location between 2010-2019. The Chandler Street corridor, between Main Street and Park Avenue, which includes the Chandler Street/Mason Street

intersection, is undergoing a safety study to make Chandler Street a Complete Street corridor. This study is aiming to reduce the crash rate along Chandler Street and provide a safer corridor for all users.

- The intersection of Mason Street/Bluff Street has a crash rate of 0.78 per MEV. This intersection only has two crashes over the three-year period with no fatalities involved. However, due to the low volume at Mason Street/Bluff Street, the crash rate per MEV is higher than the district average. No safety concerns are present.
- The intersection of Mason Street/Parker Street has a crash rate of 2.42 per MEV. This intersection has been identified by MassDOT as a top 5% intersection crash cluster and is eligible for the HSIP.
- Although no bicycle crashes were identified during the study period, Park Avenue/Winfield Street and Mason Street/Chandler Street were identified as top 5% Bicycle Crash Clusters between 2010-2019.

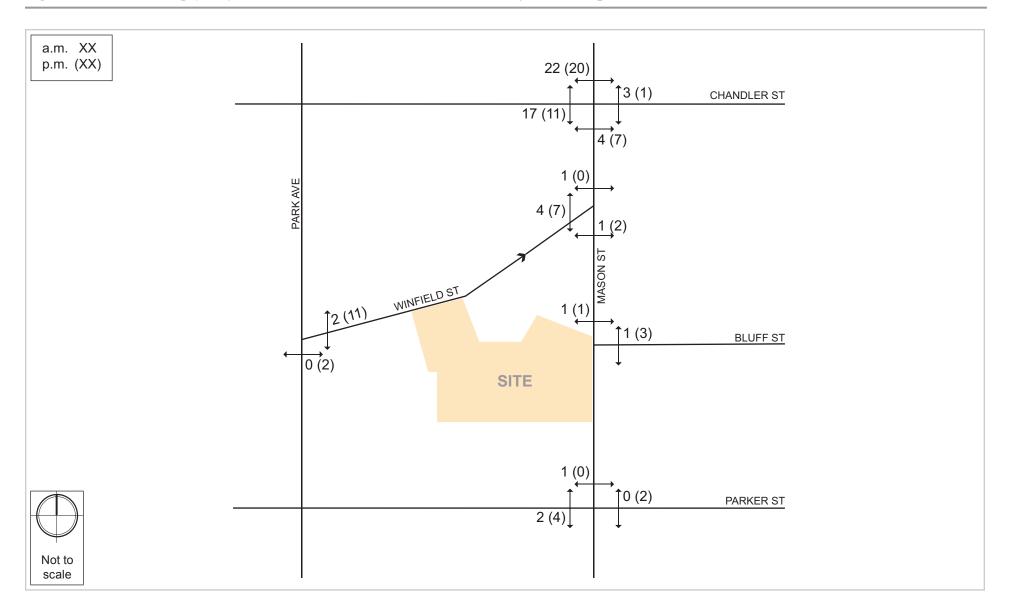
Existing Pedestrian Conditions

Sidewalks are typically provided along all roadways and are generally in good or fair condition near the Project Site. Crosswalks and pedestrian curb ramps are provided at the Chandler Street/Mason Street and Park Avenue/Winfield Street intersections only. To estimate the amount of pedestrian activity within the study area, pedestrian counts were conducted concurrent with the TMCs on Tuesday, January 31, 2023, at the study area intersections and are presented in **Figure 5**. Pedestrian activity is relatively low in the study area. During warmer weather, it is expected that pedestrian activity would be greater.

Existing Bicycle Conditions

In recent years, bicycle use has increased, and communities are incorporating bicycle facilities (bicycle lanes/paths) into the public realm. Within the study area, no bicycle facilities are provided along any of the study area roadways. Bicycle counts were also conducted concurrent with the vehicular TMCs and given the lack of bicycle facilities within the study area, minimal bicycle activity was observed.

Figure 5. Existing (2023) Condition Pedestrian Volumes, Weekday a.m. and p.m. Peak Hours



Existing Public Transportation

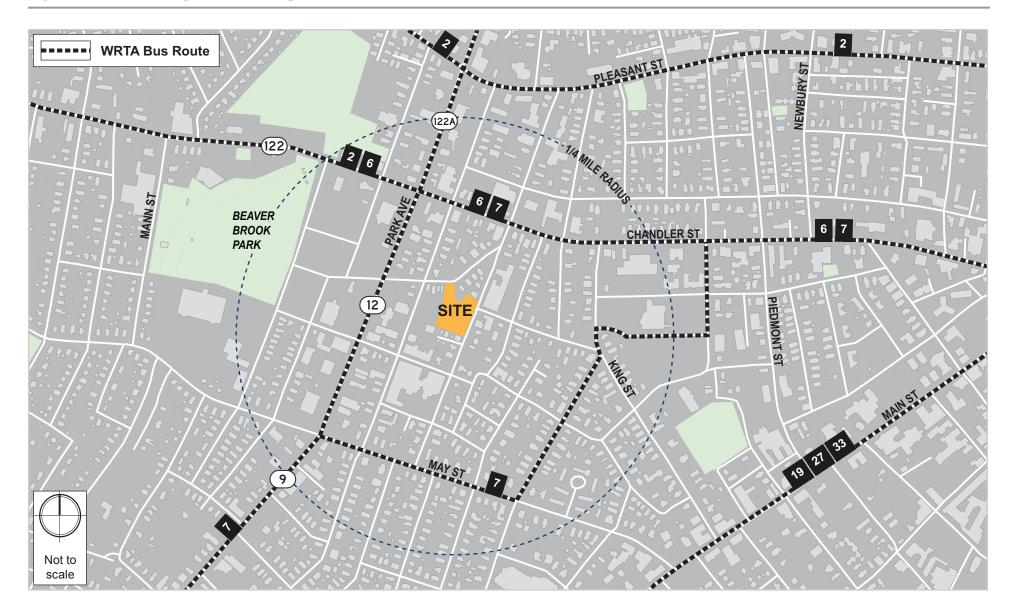
The Project Site is located within walking distance of three Worcester Regional Transit Authority (WRTA) bus routes (Route 2, Route 6, and Route 7) that run along Chandler Street. Additional bus routes operate within a half-mile of the Project. The Project Site is located approximately 1.5 miles from the Massachusetts Bay Transportation Authority (MBTA) Worcester station, which provides access to the Framingham/Worcester Commuter Rail Line. **Table 3** provides a summary of the routes and peak-hour headways, and **Figure 6** maps the public transportation services located near the Project Site.

Table 3. Transit Service in the Study Area

| Service | Description | Peak Hour Headway (minutes) ¹ |
|---------------------------|--|--|
| Worcester/Framingham Line | Worcester – South Station | 60 |
| Route 2 | Union Station Hub – Tatnuck Square via Pleasant Street | 50-65 |
| Route 6 | Union Station Hub – Tatnuck Square | 25-60 |
| Route 7 | Union Station Hub – Washington Heights Apts. | 15-30 |
| Route 19 | Union Station Hub – Webster Square – Clark University via Main Street | |
| Route 27 | Union Station Hub – Auburn Mall via Main Street | 25-35 |
| Route 33 | Union Station Hub – Spencer – Brookfield via Main Street and Route 9 | 60 |

^{1.} Headway is the time between vehicles. Source MBTA and WTRA January 2023.

Figure 6. Existing Public Transportation





No-build (2030) Condition

For transportation impact analyses, it is standard practice to evaluate two future conditions: a Nobuild Condition (without the proposed project) and a Build Condition (if the project is built). Typically, these conditions are projected to a future date seven years from the expected date of filing, which is known as the Existing Condition year. For this study, the year 2030 has been designated as the future year. The traffic volumes under the No-build Condition are independent of the proposed Project and include existing traffic plus new traffic resulting from general background growth and any new projects in the area that have been identified by the City of Worcester.

Background Traffic Growth

A general background growth rate accounts for changes in demographics, auto usage, auto ownership, and non-specific minor changes in land use within the study area. A 1.0% annual growth rate was applied to the existing intersection volumes compounded annually over seven years to account for background growth by 2030.

Specific Area Developments

Traffic volumes associated with larger and/or closer known development projects can affect traffic patterns throughout the study area within the future analysis time horizon. Traffic associated with the following large projects were directly incorporated into the future conditions traffic volumes.

- 109 Franklin Street. This project consists of the development of a residential building with 364 residential units. Parking will be provided in an underground parking garage. This project is under review by the Planning Board.
- **35 Portland Street.** This project consists of the development of a six-story mixed-use building with 1,238 square feet (sf) of office space and 108 residential units. The project will provide 50 parking spaces. This project is under review by the Planning Board.
- **153 Green Street.** This project consists of a mixed-use development of 473 residential units and 43,500 sf of retail space. The project will provide 589 parking spaces. This project is currently under review by the Planning Board.
- **5 Salem Street.** This project consists of a seven-story mixed-use development with 20,000 sf of commercial space, 6,200 sf of restaurant space, and 163 residential units. The project will provide 107 parking spaces. This project is under review by the Planning Board.

- 11 Sever Street (Lot B). This project consists of the development of a four-story residential building with 29 units. A minimum of two parking spaces will be provided per unit. This project has been approved by the Planning Board.
- **35 Lagrange Street.** This project consists of the redevelopment of the existing building into a mixed-use development with 63 residential units and 5,300 sf of commercial space. The project will provide 82 parking spaces. This project has been approved by the Planning Board.
- 807-815 Main Street. This project consists of the development of seven commercial lots with approximately 12,000 sf of retail space each. This project has been approved by the Planning Board.

The following projects are considered small projects and are not expected to generate a significant amount of new traffic in the area:

- **30 Winfield Street Homeless Housing.** This project consists of the development of an 18-unit apartment building dedicated to individuals with severe housing issues. Due to the size and nature of the development, project-generated trips for this development were considered to be part of the background growth rate.
- 1103 Main Street. This project consists of the demolition of the existing buildings and construction of an automatic carwash. Currently, the project site is occupied by a tire store, used car dealership and services, retail textile store, and a retail transportation storefront. Given the reduction in trips due to the existing land uses, this project is not expected to have a significant impact on the study area roadway network. Therefore, it was assumed to be included in the background growth rate.

A map of the background development projects is shown in **Figure 7.** The No-build Condition vehicular volumes for the weekday a.m. and weekday p.m. peak hours, which incorporate the 1.0% background growth rate and the traffic volumes from the specific development projects were added to the study area intersections to develop the No-build (2030) Condition vehicular volumes and are shown in **Figure 8** and **Figure 9** for the weekday a.m. peak hour and p.m. peak hour, respectively.

Figure 7. Specific Area Developments

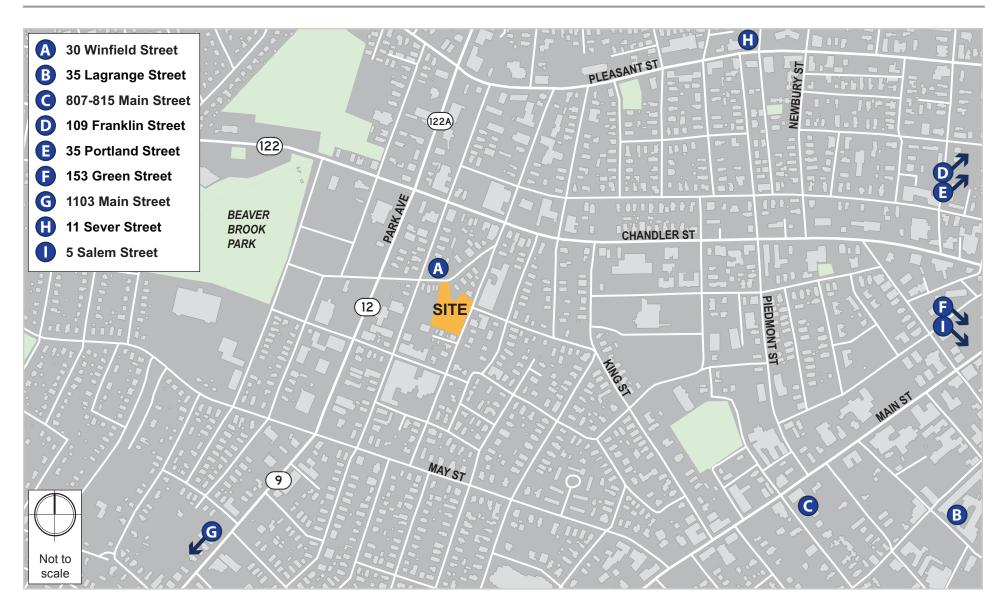


Figure 8. No-build (2030) Condition Vehicular Volumes, Weekday a.m. Peak Hour

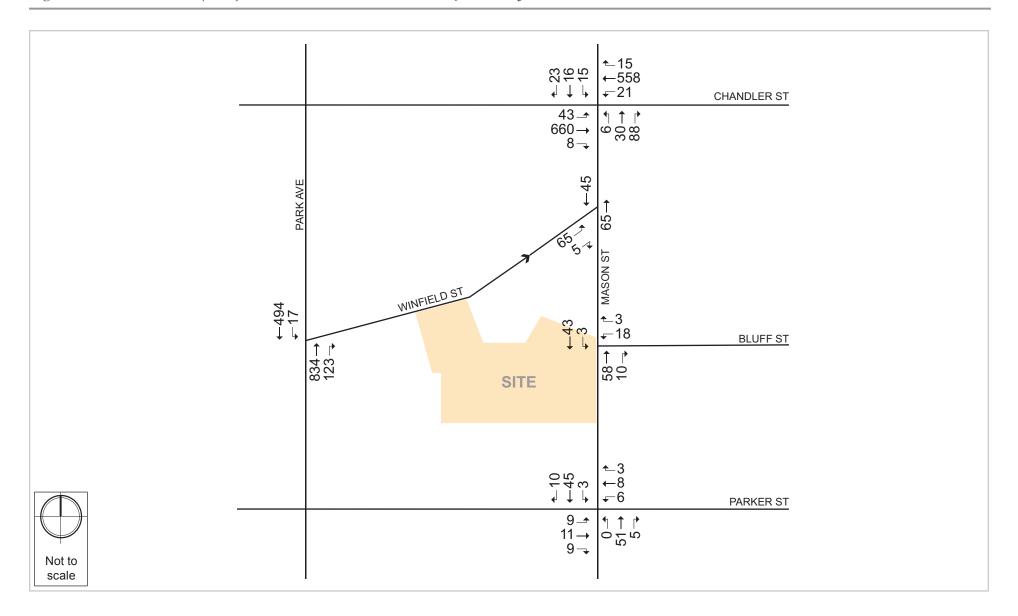
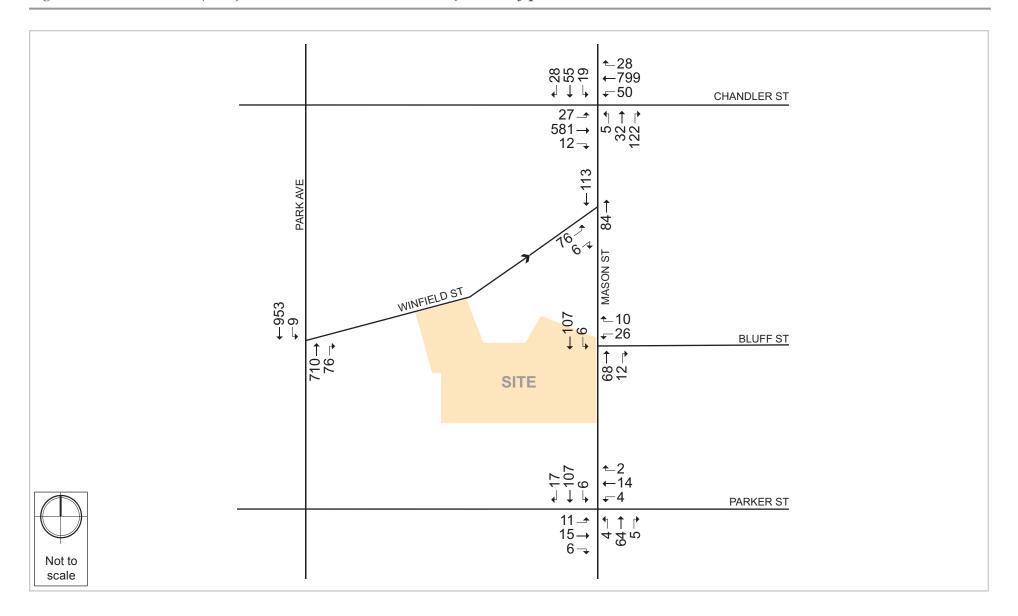


Figure 9. No-build (2030) Condition Vehicular Volumes, Weekday p.m. Peak Hour



Other Infrastructure Improvements

A review of planned infrastructure improvements to roadways, public transportation, and bicycle and pedestrian facilities was conducted to determine if there were any nearby infrastructure improvement projects that would affect travel patterns, behavior, or capacity. The following roadway and infrastructure improvement projects were identified within the study area:

- Chandler Street Redesign. This project will make the Chandler Street corridor a safer and more inviting place to travel by implementing roadway design changes. Chandler Street will become a Complete Street between Main Street and Park Avenue and will also have improved ADA access and accommodations, enhanced bus stops, improved bus stop locations, and improved traffic signal coordination. As the final design for this project won't be released until 2024, the improvements were not included in the future conditions.
- Union Station Improvements. Union Station is undergoing improvements to the platform, tracks, and its accessibility to patrons. These upgrades will improve accessibility and safety, increase station capacity, enable two trains at the station at the same time, improve operations and schedules, and provide flexibility for future expansion. In addition, at the existing commuter rail parking lot, there will be new elevators, stairways, and pedestrian bridges. A new accessible walkway will connect the parking lot and station building. Construction is expected to be finished in mid-2023.

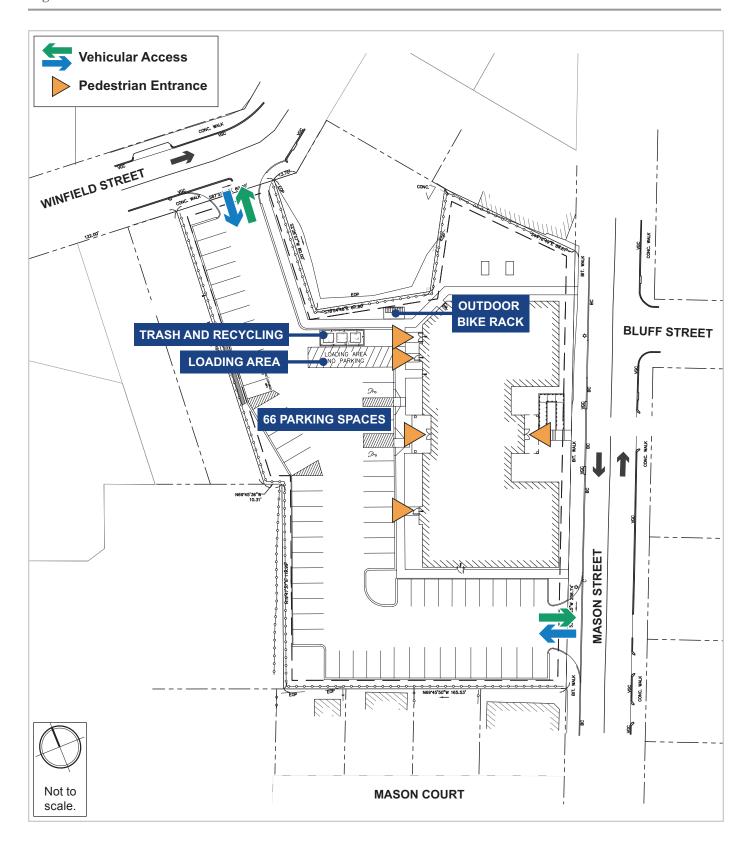
Build (2030) Condition

The Project will consist of the redevelopment of the vacant lot and construction of a 94-unit affordable housing building. The project will have 66 parking spaces in a parking lot with access from Mason Street and Winfield Street.

Site Access and Service Activity

The Project Site Plan is shown in **Figure 10**. The Project will include one curb-cut on Mason Street and one curb-cut on Winfield Street for access to the surface parking lot. Primary pedestrian access will be provided via Mason Street. All project-related deliveries, including move-in/move-out and trash pick-up, will occur in a dedicated off-street loading area near the northwest corner of the building. Project delivery activity will be managed by an on-site transportation coordinator.

Figure 10. Site Plan



Parking Supply and Demand

The Project is proposing 66 parking spaces for 94 affordable residential units, resulting in a parking ratio of 0.70 spaces per unit. The future parking demand was evaluated using two methods: standard parking generation rates published by the Institute of Transportation Engineers (ITE) and vehicle ownership rates provided by the U.S. Census Bureau in the vicinity of the Project Site. The ITE Parking Generation Manual, 5th Edition provides parking demand data for a variety of land uses in different settings/locations. The ITE land use code (LUC) 223 – Affordable Housing was used to assess the parking demand in two different settings, General Urban/Suburban and Dense Multi-Use Urban, as summarized in **Table 4**.

Table 4. ITE Parking Demand – LUC 223

| Setting/Location | Parking Demand (vehicles) |
|------------------------|---------------------------|
| General Urban/Suburban | 93 |
| Dense Multi-Use Urban | 50 |

Although the General Urban/Suburban setting results in a parking demand of 93 vehicles, which is higher than the planned supply of 66 spaces, the Project Site is located in a mix of both of the settings and is expected to behave similarly to developments located in a Dense Multi-Use Urban setting with a lower parking demand. Additionally, according to the U.S. Census Bureau data collected in 2016-2022, the Census tract 7314, where the Project is located, had an average vehicle ownership rate of 0.70 vehicles per household. This data also indicates that 47% of households in the area do not own a vehicle and that approximately 21% of persons use other modes of transportation (not including a private vehicle) to travel and/or commute daily.

Based on ITE parking demand data, the proposed parking supply of 66 spaces falls within the demand range based on ITE parking generation data. More representative of the specific site, however, is the local Census data, which indicates that area vehicle ownership is 0.70 vehicles per household, which aligns precisely with the Project's proposed supply. Based on the above evaluation, the study team concludes that the proposed parking supply will adequately satisfy the parking demand for the Project. The Project is located in a walkable neighborhood, proximate to commercial amenities as well as the Worcester train station. The Project will implement a TDM program, including on-site bicycle parking, to encourage non-auto modes of travel.

Trip Generation Methodology

To estimate the number of trips expected to be generated by the Project, data published by ITE in the *Trip Generation Manual*¹ were used. ITE provides data to estimate the total number of unadjusted vehicular trips associated with the Project. In an urban setting well-served by transit, adjustments are necessary to account for other travel modes such as walking, bicycling, and transit. To estimate the unadjusted number of vehicular trips for the Project, the following ITE LUC was used:

■ LUC 223 – Affordable Housing. As defined by ITE, affordable housing includes all multifamily housing that is rented at below market rate to households that include at least one employed member. Eligibility to live in affordable housing can be a function of limited household income and resident age. The trip generation estimates are based on the average rate per dwelling units.

TRAVEL MODE SHARES

Travel mode shares reflect the distribution of person trips among automobiles, transit services, and walking/bicycling. The American Census Survey (ACS) Table B08301 – Means of Transportation to Work provides work-based travel mode share rates for cities and towns in Massachusetts. The ACS data for the census tract where the Project is located (tract 7314) was used to develop the travel mode shares. The unadjusted vehicular trips were converted to person trips by using vehicle occupancy rates published by the Federal Highway Administration (FHWA); the person trips were then distributed to the mode share rates shown in **Table 5**.

Table 5. Travel Mode Shares and Vehicle Occupancy

| Land Use | Ti | Vehicle | | |
|-------------|--------------|---------|------|------------------------|
| Lanu OSE | Walk/Bicycle | Transit | Auto | Occupancy ² |
| Residential | 24% | 6% | 70% | 1.18 |

- 1. U.S. Census Journey to Work, Tract 7314
- 2. Federal Highway Administration, 2017 National Vehicle Occupancy Rates

¹ Trip Generation Manual, 11th Edition; Institute of Transportation Engineers; Washington, D.C.; 2021.

Project Trip Generation

The travel mode share percentages shown in **Table 5** were applied to the number of person trips to develop walk/bicycle, transit, and vehicle trip generation estimates for the Project. The trip generation for the Project by travel mode is shown in **Table 6**. The detailed trip generation information is provided in the **Appendix D**.

Table 6. Project Trip Generation

| Land Use/Direction | | Walk/Bicycle Trips | Transit Trips | Vehicle Trips | | |
|-----------------------------------|------------------------|-----------------------|------------------|------------------|--|--|
| | | Daily | | | | |
| | In | 64 | 16 | 169 | | |
| Residential LUC 223 - 94 units | <u>Out</u> | <u>64</u> | <u>16</u> | <u>169</u> | | |
| LUC 223 - 94 umis | Total | 128 | 32 | 338 | | |
| | Weekday a.m. Peak Hour | | | | | |
| Residential LUC 223 - 94 units | In | 3 | 0 | 9 | | |
| | <u>Out</u> | <u>7</u> | <u>2</u> | <u>17</u> | | |
| | Total | 10 | 2 | 26 | | |
| Weekday p.m. Peak Hour | | | | | | |
| Residential LUC 223 - 94 units | In | 7 | 2 | 20 | | |
| | <u>Out</u> | <u>5</u> | <u>1</u> | <u>15</u> | | |
| | Total | 12 | 3 | 35 | | |

As shown in **Table 6**, the Project is expected to generate approximately 26 new vehicle trips (nine entering and 17 exiting) during the weekday a.m. peak hour and approximately 35 new vehicle trips (20 entering and 15 exiting) during the weekday p.m. peak hour. The Project is expected to generate approximately two transit person trips (two exiting) during the weekday a.m. peak hour and approximately three transit person trips (two entering and one exiting) during the p.m. peak hour. These new transit person trips are expected to primarily use the local bus routes along Chandler Street and the Framingham/Worcester Commuter Rail Line.

Vehicle Trip Distribution

A vehicle trip distribution pattern identifies the various travel paths for vehicles arriving at a destination and the corresponding departure travel paths. New vehicle trips generated by the Project Site will be made primarily by its residents. The trip distribution for new Project trips was based on 2019 Census Journey to Work data and knowledge of the roadway system in the area. **Figure 11** shows the trip distribution pattern for Project trips entering and exiting the Project Site.

Build Traffic Volumes

The distribution pattern was applied to the Project trips to develop the Project-generated vehicle trips shown in **Figure 12** and **Figure 13**, for the a.m. peak hour and p.m. hour, respectively. Then the Project-generated vehicle trips were added to the No-build traffic volumes to develop the Build (2030) Condition traffic volumes, shown in **Figure 14** and **Figure 15** for the a.m. and p.m. peak hours, respectively.

Figure 11. Vehicle Trip Distribution



Figure 12. Project-generated Vehicle Trips, Weekday a.m. Peak Hour

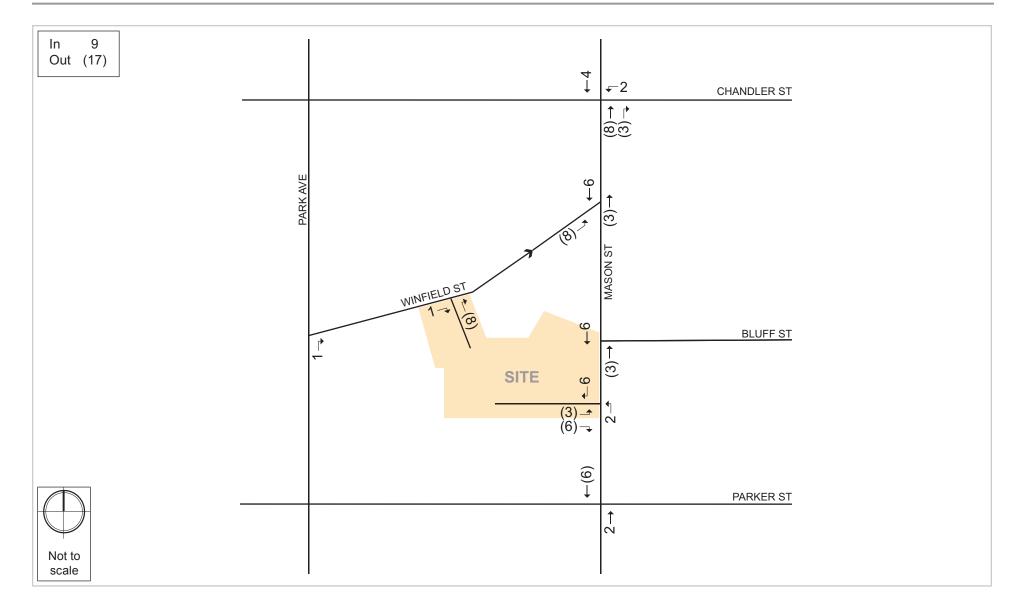


Figure 13. Project-generated Vehicle Trips, Weekday p.m. Peak Hour

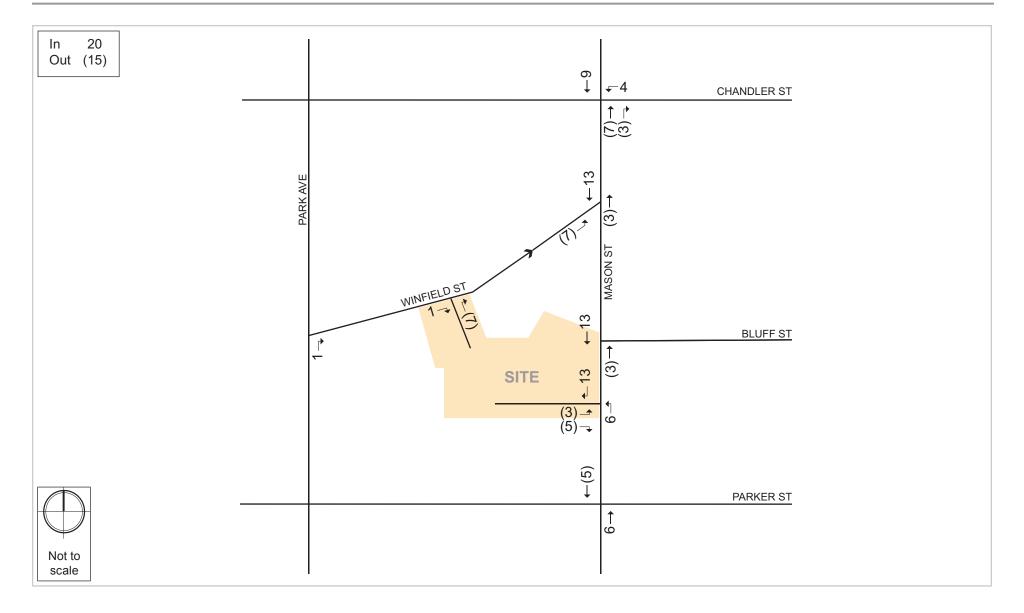


Figure 14. Build (2030) Condition Vehicular Volumes, Weekday a.m. Peak Hour

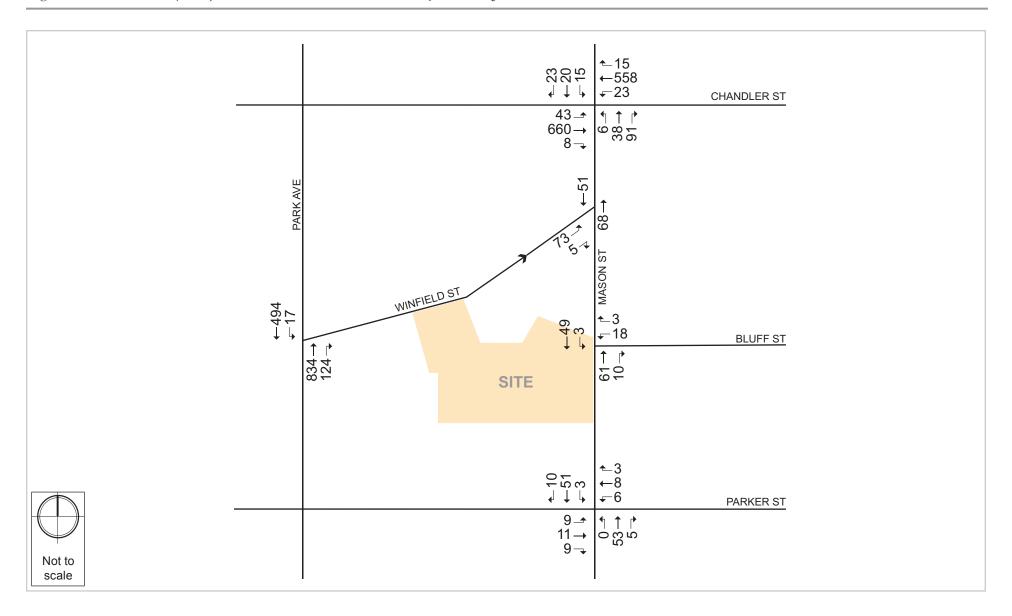
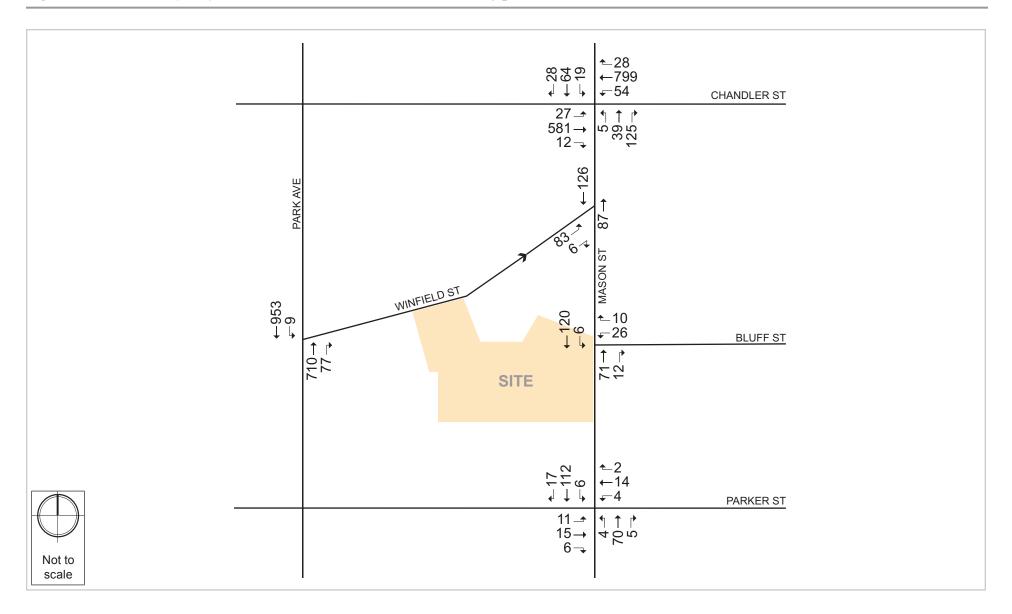


Figure 15. Build (2030) Condition Vehicular Volumes, Weekday p.m. Peak Hour



Traffic Operations Analysis

Traffic operations are determined through an analysis of intersection Level of Service (LOS) calculations. LOS at the intersection was calculated using Synchro 11.0, which is based on the traffic operational analysis methodology of the Transportation Research Board's (TRB's) 2000 *Highway Capacity Manual* (HCM). The LOS and delay (in seconds) are based on intersection geometry and traffic volumes. **Table 7** is an excerpt from the HCM and provides LOS criteria for signalized and unsignalized intersections. LOS A defines the most favorable condition, with minimum traffic delay. LOS F represents the worst condition, with significant traffic delay. LOS D is generally considered acceptable. LOS E or F, however, is often typical for a stop-controlled minor street that intersects a major roadway.

Table 7. Level of Service Criteria

| Loyal of Camina | Average Stopped | Delay (sec./veh.) |
|------------------|-------------------------|---------------------------|
| Level of Service | Signalized Intersection | Unsignalized Intersection |
| Α | 0.0–10.0 | 0.0–10.0 |
| В | 10.1–20.0 | 10.1–15.0 |
| С | 20.1–35.0 | 15.1–25.0 |
| D | 35.1–55.0 | 25.1–35.0 |
| E | 55.1–80.0 | 35.1–50.0 |
| F | >80.0 | >50.0 |

Source: Highway Capacity Manual, 2022. Transportation Research Board.

In accordance with MassDOT guidelines, the peak 15 minutes of data collected during the peak hour were isolated to calculate the peak-hour factors (PHFs) for each approach. The percentage of heavy vehicles was noted for each approach as well.

In addition to delay and LOS, the operational capacity and vehicular queues, as described below, are calculated and used to further quantify traffic operations at intersections.

■ The volume-to-capacity ratio (v/c ratio) is a measure of congestion at an intersection approach. A v/c ratio below one indicates that the intersection approach has adequate capacity to process the arriving traffic volumes over the course of an hour. A v/c ratio of one or greater indicates that the traffic volume on the intersection approach exceeds capacity.

■ The 95th percentile queue length, measured in feet, represents the farthest extent of the vehicle queue (to the last stopped vehicle) upstream from the stop line during 5% of all signal cycles. The 95th percentile queue will not be seen during each cycle. The queue would be this long only 5% of the time and would typically occur during peak hours.

Table 8 and **Table 9** present the a.m. and p.m. peak hour capacity analysis, respectively, for the study area intersections under each analysis condition: Existing (2023) Condition, No-build (2030) Condition, and the Build (2030) Condition. The detailed analysis sheets are provided in **Appendix E**. The sections that follow present the results for each condition.

Table 8. Vehicle Capacity Analysis, Weekday a.m. Peak Hour

| | | Existing | g Condition | | | No-build (2 | 030) Conditio | n | | Build (203 | 0) Condition | |
|--|-----|-----------|-------------|-----------------------|-----|-------------|---------------|-----------------------|-----|------------|--------------|-----------------------|
| Intersection/Movement | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) |
| Mason Street/Chandler Street (Route 122) | - | - | - | - | - | - | - | - | - | - | - | - |
| Chandler St EB left/thru I thru/right | А | 1.4 | 0.04 | 3 | Α | 1.6 | 0.05 | 4 | Α | 1.6 | 0.05 | 4 |
| Chandler St WB left/thru I thru/right | А | 0.9 | 0.02 | 2 | Α | 0.9 | 0.03 | 2 | Α | 1.0 | 0.03 | 2 |
| Mason St NB left/thru/right | С | 22.7 | 0.40 | 46 | D | 31.9 | 0.52 | 70 | Е | 41.8 | 0.63 | 96 |
| Mason St SB left/thru/right | D | 29.8 | 0.32 | 33 | Е | 38.0 | 0.35 | 37 | F | >50.0 | 0.55 | 69 |
| Mason Street/Bluff Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Bluff St WB left/right | А | 9.3 | 0.05 | 4 | Α | 9.4 | 0.05 | 4 | Α | 9.4 | 0.05 | 4 |
| Mason St NB thru/right | А | 0.0 | 0.05 | 0 | Α | 0.0 | 0.05 | 0 | Α | 0.0 | 0.05 | 0 |
| Mason St SB left/thru | А | 0.5 | 0.00 | 0 | Α | 0.5 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 |
| Mason Street/Parker Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Parker St EB left/thru/right | А | 9.6 | 0.05 | 4 | Α | 9.7 | 0.06 | 4 | Α | 9.8 | 0.06 | 4 |
| Parker St WB left/thru/right | Α | 9.7 | 0.03 | 2 | А | 9.8 | 0.03 | 3 | Α | 9.9 | 0.03 | 3 |
| Mason St NB left/thru/right | Α | 0.0 | 0.00 | 0 | Α | 0.0 | 0.00 | 0 | Α | 0.0 | 0.00 | 0 |
| Mason St SB left/thru/right | А | 0.4 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 |
| Park Avenue (Route 12)/Winfield Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Park Ave NB thru I thru/right | Α | 0.0 | 0.33 | 0 | Α | 0.0 | 0.35 | 0 | Α | 0.0 | 0.35 | 0 |
| Park Ave SB left/thru I thru | А | 1.2 | 0.03 | 2 | Α | 1.3 | 0.03 | 2 | Α | 1.3 | 0.03 | 2 |
| Mason Street/Winfield Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Mason St NB thru | A | 0.0 | 0.04 | 0 | Α | 0.0 | 0.05 | 0 | Α | 0.0 | 0.05 | 0 |
| Mason St SB thru | A | 0.0 | 0.03 | 0 | Α | 0.0 | 0.04 | 0 | Α | 0.0 | 0.04 | 0 |
| Winfield St NEB left/right | Α | 9.5 | 0.08 | 7 | Α | 9.6 | 0.09 | 7 | Α | 9.7 | 0.10 | 8 |

Grey shading indicates LOS E or F under the Existing Condition or a change from LOS D or better in a previous condition to LOS E or F.

Table 9. Vehicle Capacity Analysis, Weekday p.m. Peak Hour

| | | Existinç | Condition | | | No-build (2 | 030) Conditio | n | | Build (20 | 30) Condition | |
|--|-----|-----------|-----------|-----------------------|-----|-------------|---------------|-----------------------|-----|-----------|---------------|-----------------------|
| Intersection/Movement | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) | LOS | Delay (s) | V/C Ratio | 95th % Queue (ft.) |
| Mason Street/Chandler Street (Route 122) | - | - | - | - | - | - | - | - | - | - | - | - |
| Chandler St EB left/thru I thru/right | Α | 1.2 | 0.03 | 2 | Α | 1.2 | 0.04 | 3 | Α | 1.2 | 0.04 | 3 |
| Chandler St WB left/thru I thru/right | Α | 1.5 | 0.05 | 4 | Α | 1.6 | 0.05 | 4 | Α | 1.7 | 0.06 | 5 |
| Mason St NB left/thru/right | D | 26.2 | 0.52 | 72 | F | >50.0 | 0.77 | 142 | F | >50.0 | 0.94 | 200 |
| Mason St SB left/thru/right | F | >50.0 | 0.77 | 117 | F | >50.0 | >1.00 | 208 | F | >50.0 | >1.00 | 252 |
| Mason Street/Bluff Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Bluff St WB left/right | Α | 9.6 | 0.05 | 4 | Α | 9.7 | 0.06 | 5 | Α | 9.8 | 0.06 | 5 |
| Mason St NB thru/right | Α | 0.0 | 0.05 | 0 | Α | 0.0 | 0.05 | 0 | Α | 0.0 | 0.06 | 0 |
| Mason St SB left/thru | Α | 0.5 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 |
| Mason Street/Parker Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Parker St EB left/thru/right | В | 10.2 | 0.05 | 4 | В | 10.3 | 0.05 | 4 | В | 10.4 | 0.05 | 4 |
| Parker St WB left/thru/right | В | 10.4 | 0.05 | 4 | В | 10.5 | 0.05 | 4 | В | 10.6 | 0.05 | 4 |
| Mason St NB left/thru/right | Α | 0.5 | 0.00 | 0 | Α | 0.5 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 |
| Mason St SB left/thru/right | Α | 0.4 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 | Α | 0.4 | 0.00 | 0 |
| Park Avenue (Route 12)/Winfield Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Park Ave NB thru I thru/right | Α | 0.0 | 0.27 | 0 | Α | 0.0 | 0.29 | 0 | Α | 0.0 | 0.29 | 0 |
| Park Ave SB left/thru I thru | Α | 0.3 | 0.01 | 1 | Α | 0.4 | 0.01 | 1 | Α | 0.4 | 0.01 | 1 |
| Mason Street/Winfield Street | - | - | - | - | - | - | - | - | - | - | - | - |
| Mason St NB thru | А | 0.0 | 0.05 | 0 | Α | 0.5 | 0.05 | 0 | Α | 0.0 | 0.06 | 0 |
| Mason St SB thru | А | 0.0 | 0.07 | 0 | Α | 0.0 | 0.07 | 0 | Α | 0.0 | 0.08 | 0 |
| Winfield St NEB left/right | В | 10.0 | 0.11 | 9 | В | 10.2 | 0.12 | 10 | В | 10.4 | 0.13 | 11 |

Grey Shading indicates LOS E or F under the Existing Condition or a change from LOS D or better in a previous condition to LOS E or F.



Traffic Operations – Unsignalized Intersections

MASON STREET/CHANDLER STREET (ROUTE 122)

The Mason Street southbound approach, at the intersection of Mason Street/Chandler Street (Route 122), currently operates at LOS F during the p.m. peak hour only. Under the No-Build (2030) Condition, the Mason Street northbound approach decreases from LOS D to LOS F during the p.m. peak hour and the Mason Street southbound approach decreases from LOS D to LOS E during the a.m. peak hour. Under the Build (2030) Condition, the northbound approach decreases from LOS D to LOS E and the southbound approach decreases from LOS E to LOS F during the a.m. peak hour. Although the operation on the northbound and southbound approaches will change LOS, the average associated queue will only increase by approximately one vehicle, indicating that the Project impact will not be significant.

All other intersections and approaches operate at an acceptable LOS D or better under the Existing, No-Build (2030), and Build (2030) Conditions during both the peak hours.

Transportation Demand Management

While the Project will not significantly impact traffic operations in the study area, the Proponent is committed to implementing a TDM program for Project residents to minimize the Project's vehicular impacts on the adjacent transportation network. TDM measures will promote the use of public transportation (including the MBTA bus and commuter rail), walking, and bicycling, and other options to reduce single occupant vehicle trips. TDM measures may include, but are not limited to, the following:

- *Transportation Coordinator* The Project will designate a transportation coordinator to manage all transportation issues associated with the Project. The transportation coordinator will oversee transportation issues, including parking, service, and loading activity.
- *Transit Information* The Proponent will keep a supply of transit information (schedules, maps, and fare information) to be made available to the residents and patrons of the Project site.
- Orientation Packets The Proponent will provide orientation packets to new tenants containing information on available transportation choices, including transit routes/schedules. On-site management will work with residents and tenants as they move in to help facilitate transportation for new arrivals.

■ **Bicycle Accommodations** – A bicycle room will be provided at the ground floor level with approximately 17 secure, covered bicycle spaces. Additionally, the Proponent will provide outdoor bike racks for approximately 10 bicycles.

Conclusion

According to the analysis, the proposed Project is not expected to generate a substantial number of new vehicle trips during both the morning and evening peak hours. The Project has proposed to provide 66 parking spaces for 94 affordable residential units, resulting in a parking ratio of 0.70 spaces per unit, aligning with the area vehicle ownership of 0.70 vehicles per household. Additionally, the proposed parking supply falls within the ITE parking demand for the two settings evaluated, General Urban/Suburban with a parking demand of 93 vehicles and Dense Multi-Use Urban with a parking demand of 50 vehicles. The Project is located in a walkable area that includes nearby commercial amenities. Due to the Project's proximity (about 1.5 miles) and access to the Worcester Train Station, combined with the moderate number of new vehicle trips, the proposed Project is expected to have minimal impact on the surrounding transportation infrastructure. The Proponent is also committed to implementing a TDM program, including secure bicycle storage and outdoor bicycle racks to further help reduce single-occupant vehicle trips.



Engineers + Planners

Appendix A

Count Data

Project #: 1169_2_HSH BTD#: Location 1 Location: Worcester, MA Chandler Street Street 1: Mason Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PASSENGER CARS & HEAVY VEHICLES COMBINED

| | | | | | | | | | · · · · - · · · | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|------------------------|---------|-----------|-------|--------|---------|-----------|-------|
| | | Mason | Street | | | Masor | Street | | | Chandle | er Street | | | Chandle | er Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 1 | 4 | 7 | 0 | 6 | 3 | 3 | 0 | 5 | 123 | 0 | 0 | 6 | 60 | 3 |
| 7:15 AM | 0 | 1 | 7 | 14 | 0 | 3 | 5 | 6 | 0 | 8 | 170 | 0 | 0 | 7 | 65 | 7 |
| 7:30 AM | 0 | 0 | 7 | 21 | 0 | 7 | 4 | 6 | 0 | 10 | 138 | 4 | 0 | 0 | 89 | 3 |
| 7:45 AM | 0 | 2 | 4 | 27 | 0 | 2 | 3 | 4 | 0 | 12 | 158 | 3 | 0 | 5 | 111 | 6 |
| 8:00 AM | 0 | 2 | 10 | 19 | 0 | 6 | 3 | 8 | 0 | 8 | 118 | 2 | 0 | 4 | 125 | 2 |
| 8:15 AM | 0 | 2 | 11 | 18 | 0 | 1 | 7 | 4 | 0 | 12 | 143 | 2 | 0 | 6 | 121 | 2 |
| 8:30 AM | 0 | 0 | 3 | 17 | 0 | 5 | 2 | 5 | 0 | 8 | 154 | 0 | 0 | 5 | 99 | 4 |
| 8:45 AM | 0 | 2 | 8 | 21 | 0 | 1 | 4 | 8 | 0 | 3 | 110 | 0 | 0 | 4 | 103 | 3 |

| | | Masor | Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | er Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|-----------|-------|--------|---------|-----------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 1 | 5 | 11 | 25 | 0 | 2 | 9 | 4 | 0 | 11 | 134 | 3 | 0 | 15 | 166 | 5 |
| 4:15 PM | 0 | 3 | 8 | 18 | 0 | 2 | 6 | 10 | 0 | 6 | 113 | 4 | 0 | 14 | 160 | 4 |
| 4:30 PM | 0 | 3 | 10 | 21 | 0 | 5 | 4 | 11 | 0 | 6 | 121 | 5 | 0 | 16 | 152 | 9 |
| 4:45 PM | 0 | 2 | 11 | 20 | 0 | 4 | 9 | 5 | 0 | 9 | 114 | 2 | 0 | 17 | 164 | 8 |
| 5:00 PM | 0 | 1 | 10 | 23 | 0 | 4 | 14 | 4 | 0 | 7 | 122 | 2 | 0 | 9 | 170 | 7 |
| 5:15 PM | 0 | 2 | 7 | 36 | 0 | 2 | 9 | 7 | 0 | 8 | 102 | 3 | 0 | 15 | 169 | 10 |
| 5:30 PM | 0 | 1 | 7 | 20 | 0 | 8 | 11 | 8 | 0 | 5 | 108 | 4 | 0 | 15 | 173 | 6 |
| 5:45 PM | 0 | 1 | 6 | 34 | 0 | 4 | 16 | 7 | 0 | 4 | 126 | 2 | 0 | 8 | 163 | 3 |

| AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | er Street | |
|--------------|--------|-----------------------------------|--------------------|------|------|-------|--------|--------|------|---------|-----------|--------|------|---------|-----------|------|
| 7:45 AM | | North | bound | | | South | bound | | | Easth | oound | | | Westl | oound | |
| to | U-Turn | | | | | | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | |
| 8:45 AM | 0 | 6 | 6 28 81 0 14 15 21 | | | | | 21 | 0 | 40 | 573 | 7 | 0 | 20 | 456 | 14 |
| PHF | | 0 6 28 81 0 14 15 2 | | | | | | | | 0. | 90 | | | 0. | 94 | |
| HV~% | 0.0% | 0.0% | 3.6% | 1.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 5.0% | 1.7% | 0.0% | 0.0% | 5.0% | 4.8% | 7.1% |

| PM PEAK HO | UR | Masoi | n Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | er Street | |
|------------|--------|----------------------|----------|------|--------|-------|--------|-------|--------|---------|-----------|-------|--------|---------|-----------|-------|
| 5:00 PM | | North | bound | | | South | bound | | | Easth | ound | | | Westl | bound | |
| to | U-Turn | Turn Left Thru Right | | | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 6:00 PM | 0 | 5 | 30 | 113 | 0 | 18 | 50 | 26 | 0 | 24 | 458 | 11 | 0 | 47 | 675 | 26 |
| PHF | | 0 | .82 | | | 0. | 87 | | | 0. | 93 | | | 0. | 96 | |
| HV~% | 0.0% | 0.0% | 0.0% | 1.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.0% | 0.0% | 0.0% | 0.4% | 0.0% |

Project #: 1169_2_HSH BTD#: Location 1 Location: Worcester, MA Chandler Street Street 1: Mason Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

HEAVY VEHICLES

| | | | | | | | | ,., . | | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|-----------|-------|--------|---------|-----------|-------|
| | | Mason | Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | er Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 6 | 0 |
| 7:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| 8:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 8 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 5 | 1 |
| 8:45 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 1 |

| | | | Street bound | | | | Street bound | | | | er Street oound | | | | er Street bound | |
|------------|---------------|------|-----------------|-------|--------|------|-----------------|-------|--------|------|--------------------|-------|--------|------|--------------------|-------|
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| 4:30 PM | 30 PM 0 0 1 0 | | | | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

| AM PEAK | HOUR | | Mason | Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | r Street | |
|---------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|-----------|-------|--------|---------|----------|-------|
| 8:00 A | M | | North | bound | | | South | bound | | | Easth | oound | | | Westh | oound | |
| to | | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 9:00 A | M | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 10 | 0 | 0 | 1 | 27 | 2 |
| PHF | | | 0. | 50 | | | 0. | 25 | | | 0. | 60 | | | 0.8 | 83 | |

| Ī | PM PEAK HOUR | | Mason | Street | | | Masor | Street | | | Chandle | er Street | | | Chandle | er Street | |
|---|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|-----------|-------|--------|---------|-----------|-------|
| | 4:00 PM | | North | bound | | | South | bound | | | Easth | ound | | | Westl | oound | |
| | to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| | 5:00 PM | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 9 | 1 | 0 | 0 | 6 | 0 |
| | PHF | | 0. | 75 | | | 0. | 25 | | | 0. | 34 | | | 0. | 38 | |

Project #: 1169_2_HSH BTD#: Location 1 Worcester, MA Location: Street 1: Chandler Street Street 2: Mason Street 1/31/2023 Count Date: Day of Week: Tuesday Weather: Clouds & Sun, 35°F



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PEDESTRIANS & BICYCLES

| | | Masor | Street | | | Masor | Street | | | Chandle | er Street | | | Chandle | er Street | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|---------|-----------|-----|------|---------|-----------|-----|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |

| | | Mason | Street | | | Masor | Street | | | Chandle | er Street | | | Chandle | er Street | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|---------|-----------|-----|------|---------|-----------|-----|
| | | North | bound | | | South | bound | | | Eastl | oound | | | West | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 4:00 PM | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 10 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 3 |
| 4:30 PM | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR ¹ 7:45 AM | | | Street | | | | Street bound | | | | er Street bound | | | | er Street bound | |
|--------------------------------------|------|------|--------|-----|------|------|-----------------|-----|------|------|--------------------|-----|------|------|--------------------|-----|
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 8:45 AM | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 3 |

| PM PEAK HOUR ¹ | | Mason | Street | | | Mason | Street | | | Chandle | er Street | | | Chandle | er Street | |
|---------------------------|------|-------|--------|-----|------|-------|--------|-----|------|---------|-----------|-----|------|---------|-----------|-----|
| 5:00 PM | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 6:00 PM | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 1 |

¹ NOTE: Peak hour summaries here correspond to peak hours identified for passenger cars and heavy vehicles combined.

Project #: 1169_2_HSH BTD#: Location 2 Location: Worcester, MA Mason Street Street 1: Bluff Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PASSENGER CARS & HEAVY VEHICLES COMBINED

| | | | | | | | O-11 O/11 | 10 G //L/ | | 00 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
|------------|--------|-------|--------|-------|--------|-------|-----------|-----------|--------|-------|---|-------|--------|-------|--------|-------|
| | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 11 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 7:15 AM | 0 | 0 | 13 | 1 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 7:30 AM | 0 | 0 | 15 | 1 | 0 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| 7:45 AM | 0 | 0 | 9 | 2 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 1 |
| 8:00 AM | 0 | 0 | 13 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 8:15 AM | 0 | 0 | 16 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 |
| 8:30 AM | 0 | 0 | 10 | 0 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 8:45 AM | 1 | 0 | 13 | 3 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

| | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 17 | 2 | 1 | 2 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 1 |
| 4:15 PM | 0 | 0 | 14 | 3 | 0 | 3 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 |
| 4:30 PM | 0 | 0 | 11 | 3 | 0 | 2 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 4 |
| 4:45 PM | 0 | 0 | 14 | 4 | 1 | 3 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 2 |
| 5:00 PM | 0 | 0 | 18 | 3 | 0 | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 2 |
| 5:15 PM | 0 | 0 | 19 | 1 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 |
| 5:30 PM | 0 | 0 | 13 | 2 | 0 | 2 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 |
| 5:45 PM | 0 | 0 | 16 | 0 | 0 | 4 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 2 |

| AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| 7:30 AM | | North | bound | | | South | bound | | | Easth | oound | | | West | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:30 AM | 0 | 0 | 53 | 9 | 0 | 3 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 3 |
| PHF | | 0. | 82 | | | 0. | 72 | | | 0. | 00 | | | 0. | 45 | |
| HV~% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| PM PEAK HOUR | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------|-------|--------|-------|--------|-------|
| 4:30 PM | | North | bound | | | South | bound | | | Eastb | ound | | | Westl | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:30 PM | 0 | 0 | 62 | 11 | 1 | 6 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 9 |
| PHF | | 0. | 87 | | | 0. | 91 | | | 0. | 00 | | | 0. | 75 | |
| HV~% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 4.2% | 0.0% | 0.0% |

Project #: 1169_2_HSH BTD#: Location 2 Location: Worcester, MA Mason Street Street 1: Bluff Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

HEAVY VEHICLES

| | | | | | | | | , | | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
| | | North | bound | | | South | bound | | | Eastl | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | | Masor | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|---|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| | 7:00 AM | | North | bound | | | South | bound | | | Easth | oound | | | Westh | oound | |
| | to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| | 8:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| , | PHF | 0.25 | | | | | 0. | 25 | | | 0. | 00 | | | 0.0 | 00 | |

| PM PEAK HOUR | 1 | Mason | Street | | | Masor | Street | | | | | | | Bluff | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------|-------|--------|-------|--------|-------|
| 4:00 PM | | North | bound | | | South | bound | | | Eastb | ound | | | Westl | bound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0.00 | | | | 0. | 25 | | | 0. | 00 | | | 0. | 00 | |

Project #: 1169_2_HSH BTD#: Location 2 Worcester, MA Location: Street 1: Mason Street Street 2: Bluff Street 1/31/2023 Count Date: Day of Week: Tuesday Weather: Clouds & Sun, 35°F



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PEDESTRIANS & BICYCLES

| | | Mason | Street | | | Masor | Street | | | | | | | Bluff | Street | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|-------|-------|-----|------|-------|--------|-----|
| | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|-------|-------|-----|------|-------|--------|-----|
| | | North | bound | | | South | bound | | | Eastl | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR ¹ | | | Street | | | Mason | Street | | | | | | | | Street | |
|---------------------------|------|--------|--------|-----|------|-------|--------|-----|------|-------|-------|-----|------|-------|--------|-----|
| 7:30 AM | | Northl | oound | | | South | bound | | | Eastb | ound | | | Westl | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| PM PEAK HOUR ¹ | | Mason | Street | | | Mason | Street | | | | | | | Bluff | Street | |
|---------------------------|------|--------|--------|-----|------|-------|--------|-----|------|-------|-------|-----|------|-------|--------|-----|
| 4:30 PM | | Northl | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

¹ NOTE: Peak hour summaries here correspond to peak hours identified for passenger cars and heavy vehicles combined.

Project #: 1169_2_HSH BTD#: Location 3 Location: Worcester, MA Parker Street Street 1: Mason Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PASSENGER CARS & HEAVY VEHICLES COMBINED

| | | Mason | Street | | | Mason | Street | | | | Street | | | Parke | r Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|
| | | North | bound | | | South | bound | | | Eastl | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 10 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 |
| 7:15 AM | 0 | 0 | 10 | 0 | 0 | 0 | 13 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 3 | 2 |
| 7:30 AM | 1 | 0 | 13 | 0 | 0 | 0 | 7 | 2 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 1 |
| 7:45 AM | 0 | 0 | 8 | 0 | 0 | 1 | 15 | 2 | 0 | 2 | 4 | 2 | 0 | 1 | 4 | 1 |
| 8:00 AM | 0 | 0 | 11 | 0 | 0 | 1 | 6 | 1 | 0 | 5 | 2 | 3 | 0 | 1 | 0 | 1 |
| 8:15 AM | 0 | 0 | 16 | 5 | 0 | 1 | 14 | 4 | 0 | 0 | 2 | 3 | 0 | 2 | 2 | 0 |
| 8:30 AM | 0 | 0 | 6 | 1 | 0 | 2 | 7 | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 1 |
| 8:45 AM | 0 | 1 | 14 | 1 | 0 | 1 | 7 | 4 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 3 |

| | | Masor | Street | | | Mason | Street | | | Parker | Street | | | Parkei | r Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|----------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 2 | 18 | 2 | 0 | 1 | 26 | 4 | 0 | 2 | 3 | 2 | 0 | 3 | 2 | 0 |
| 4:15 PM | 0 | 1 | 12 | 2 | 0 | 2 | 14 | 4 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 1 |
| 4:30 PM | 0 | 0 | 9 | 1 | 0 | 5 | 28 | 3 | 0 | 3 | 2 | 3 | 0 | 0 | 3 | 2 |
| 4:45 PM | 0 | 1 | 12 | 1 | 0 | 3 | 24 | 3 | 0 | 4 | 3 | 2 | 0 | 2 | 5 | 1 |
| 5:00 PM | 0 | 0 | 16 | 1 | 0 | 2 | 23 | 4 | 0 | 5 | 2 | 1 | 0 | 1 | 2 | 0 |
| 5:15 PM | 0 | 2 | 17 | 1 | 0 | 0 | 25 | 4 | 0 | 1 | 4 | 2 | 0 | 0 | 3 | 1 |
| 5:30 PM | 0 | 1 | 14 | 2 | 0 | 1 | 27 | 5 | 0 | 0 | 5 | 1 | 0 | 1 | 3 | 0 |
| 5:45 PM | 0 | 0 | 16 | 1 | 0 | 1 | 25 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |

| AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | Parker | Street | | | Parker | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|
| 7:30 AM | | North | bound | | | South | bound | | | Easth | oound | | | West | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:30 AM | 1 | 0 | 48 | 5 | 0 | 3 | 42 | 9 | 0 | 8 | 10 | 8 | 0 | 6 | 7 | 3 |
| PHF | | 0. | 64 | | | 0. | 71 | | | 0. | 65 | | | 0. | 67 | |
| HV% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 33.3% | 2.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| PM PEAK HOUR | | Masor | Street | | | Mason | Street | | | Parker | Street | | | Parker | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|
| 4:45 PM | | North | bound | | | South | bound | | | Easth | ound | | | West | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:45 PM | 0 | 4 | 59 | 5 | 0 | 6 | 99 | 16 | 0 | 10 | 14 | 6 | 0 | 4 | 13 | 2 |
| PHF | | 0. | 85 | | | 0. | 92 | | | 0. | 83 | | | 0. | 59 | |
| HV % | 0.0% | 0.0% | 0.0% | 20.0% | 0.0% | 0.0% | 0.0% | 6.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Project #: 1169_2_HSH BTD#: Location 3 Location: Worcester, MA Parker Street Street 1: Mason Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

HEAVY VEHICLES

| | | | | | | | | , | | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|
| | | Mason | Street | | | Mason | Street | | | Parker | Street | | | Parker | Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | Street | | | | Street | | | | Street | | | | r Street | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|----------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | Parker | Street | | | Parker | Street | |
|--------------|--------|--------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|
| 7:00 AM | | Northl | oound | | | South | bound | | | Easth | oound | | | Westh | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 25 | | | 0. | 25 | | | 0. | 00 | | | 0.0 | 00 | |

| PM PEAK HOUR | | Mason | Street | | | Masor | Street | | | Parker | Street | | | Parker | Street | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|
| 4:45 PM | | North | bound | | | South | bound | | | Eastb | ound | | | Westl | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:45 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 25 | | | 0. | 25 | | | 0. | 00 | | | 0. | 00 | |

Project #: 1169_2_HSH BTD#: Location 3 Worcester, MA Location: Street 1: Parker Street Street 2: Mason Street 1/31/2023 Count Date: Day of Week: Tuesday Weather: Clouds & Sun, 35°F



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PEDESTRIANS & BICYCLES

| Mason Street Northbound Nor | | | | | | | | | | 0 a <i>Di0 i</i> | | | | | | | |
|--|------------|------|-------|-------|-----|------|-------|-------|-----|------------------|--------|--------|-----|------|------|-------|-----|
| Start Time Left Thru Right PED Left Thru Right PED Left Thru Right PED Left Thru Right PED Left Thru Right 7:00 AM 0 | | | | | | | | | | | Parkei | Street | | | | | |
| 7:00 AM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| 7:15 AM 0 </th <th>Start Time</th> <th>Left</th> <th>Thru</th> <th>Right</th> <th>PED</th> <th>Left</th> <th>Thru</th> <th>Right</th> <th>PED</th> <th>Left</th> <th>Thru</th> <th>Right</th> <th>PED</th> <th>Left</th> <th>Thru</th> <th>Right</th> <th>PED</th> | Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 7:30 AM 0 </td <td>7:00 AM</td> <td>0</td> | 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM 0 </td <td>7:15 AM</td> <td>0</td> <td>1</td> | 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM 0 </td <td>7:30 AM</td> <td>0</td> | 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:30 AM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM 0 0 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 | 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8:45 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

| | | Mason | Street | | | Mason | Street | | | Parkei | Street | | | Parkei | Street | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|--------|--------|-----|------|--------|--------|-----|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 4:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:30 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR ¹ 7:30 AM | | | Street | | | Mason South | Street bound | | | | Street | | | | Street bound | |
|--------------------------------------|------|------|--------|-----|------|----------------|-----------------|-----|------|------|--------|-----|------|------|-----------------|-----|
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |

| PM PEAK HOUR | 1 | Mason | Street | | | Masor | Street | | | Parkei | Street | | | Parker | Street | |
|--------------|------|-------|--------|-----|------|-------|--------|-----|------|--------|--------|-----|------|--------|--------|-----|
| 4:45 PM | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 2 |

¹ NOTE: Peak hour summaries here correspond to peak hours identified for passenger cars and heavy vehicles combined.

Project #: 1169_2_HSH BTD#: Location 4 Location: Worcester, MA Park Avenue Street 1: Winfield Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PASSENGER CARS & HEAVY VEHICLES COMBINED

| | | | | | | | | | · · · · — · · · | | | | | | | |
|------------|--------|--------|-------|-------|--------|--------|-------|-------|-----------------|-------|-------|-------|--------|---------|----------|-------|
| | | Park A | venue | | | Park A | venue | | | | | | | Winfiel | d Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 150 | 13 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 160 | 18 | 0 | 2 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 196 | 19 | 0 | 4 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 192 | 46 | 0 | 5 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 194 | 29 | 0 | 2 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 187 | 20 | 0 | 5 | 129 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 173 | 20 | 0 | 2 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 185 | 25 | 0 | 1 | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | Park A | Avenue | | | Park A | Avenue | | | | | | | Winfiel | d Street | |
|------------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|---------|----------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 163 | 21 | 0 | 2 | 251 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 174 | 11 | 0 | 2 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 152 | 19 | 0 | 3 | 204 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 156 | 15 | 0 | 4 | 226 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 156 | 27 | 0 | 0 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 172 | 14 | 0 | 3 | 221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 169 | 14 | 0 | 1 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 144 | 18 | 0 | 2 | 231 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR | | Park A | venue | | | Park A | venue | | | | | | | Winfield | d Street | |
|--------------|--------|-----------------------------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|--------|----------|----------|-------|
| 7:30 AM | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:30 AM | 0 | 0 | 769 | 114 | 0 | 16 | 454 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 93 | | | 0. | 88 | | | 0. | 00 | | | 0. | 00 | |
| HV~% | 0.0% | 0.93 0.0% 0.0% 3.1% 2.6% | | | | 0.0% | 5.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| PM PEAK HOUR | 1 | Park A | Avenue | | | Park A | venue | | | | | | | Winfield | d Street | |
|--------------|--------|------------|--------|-------|--------|--------|-------|-------|--------|-------|------|-------|--------|----------|----------|-------|
| 4:45 PM | | North | bound | | | South | bound | | | Eastb | ound | | | West | bound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:45 PM | 0 | 0 0 653 70 | | | | 8 | 879 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 97 | | | 0. | 96 | | | 0. | 00 | | | 0. | 00 | |
| HV~% | 0.0% | 0.0% | 1.2% | 0.0% | 0.0% | 0.0% | 0.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Project #: 1169_2_HSH BTD#: Location 4 Location: Worcester, MA Street 1: Park Avenue Street 2: Winfield Street Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

HEAVY VEHICLES

| | | | | | | | | ,,,, | | • | | | | | | |
|------------|--------|--------|-------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|----------|----------|-------|
| | | Park A | venue | | | Park A | Avenue | | | | | | | Winfield | d Street | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 10 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 7 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 3 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 4 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 10 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | Park A | Avenue | | | Park A | Avenue | | | | | | | Winfiel | d Street | |
|------------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|---------|----------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 8 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR | | Park A | venue | | | Park A | venue | | | | | | | Winfield | d Street | |
|--------------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|--------|----------|----------|-------|
| 7:30 AM | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:30 AM | 0 | 0 | 24 | 3 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 68 | | | 0. | 60 | | | 0. | 00 | | | 0. | 00 | |

| PM PEAK HOUR | | Park A | venue | | | Park A | venue | | | | | | | Winfield | d Street | |
|--------------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|------|-------|--------|----------|----------|-------|
| 4:00 PM | | North | bound | | | South | bound | | | Eastb | ound | | | West | oound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:00 PM | 0 | 0 | 17 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 53 | | | 0. | 56 | | | 0. | 00 | | | 0. | 00 | |

Project #: 1169_2_HSH BTD#: Location 4 Worcester, MA Location: Street 1: Park Avenue Street 2: Winfield Street 1/31/2023 Count Date: Day of Week: Tuesday Weather: Clouds & Sun, 35°F



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PEDESTRIANS & BICYCLES

| | | Park A | Avenue | | | Park A | Avenue | | | | | | | Winfield | d Street | |
|------------|------|--------|--------|-----|------|--------|--------|-----|------|-------|-------|-----|------|----------|----------|-----|
| | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

| | | Park A | venue | | | Park A | Avenue | | | | | | | Winfield | d Street | |
|------------|------|--------|-------|-----|------|--------|--------|-----|------|-------|-------|-----|------|----------|----------|-----|
| | | North | bound | | | South | bound | | | Eastl | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:45 PM | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR ¹ | | | venue | | | | venue | | | | | | | | d Street | |
|---------------------------|------|--------|-------|-----|------|-------|-------|-----|------|-------|-------|-----|------|-------|----------|-----|
| 7:30 AM | | Northl | oound | | | South | bound | | | Eastb | ound | | | Westl | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

| PM PEAK HOUR ¹ | | Park A | venue | | | Park A | venue | | | | | | | Winfield | d Street | |
|---------------------------|------|--------|-------|-----|------|--------|-------|-----|------|-------|-------|-----|------|----------|----------|-----|
| 4:45 PM | | Northl | bound | | | South | bound | | | Easth | ound | | | Westl | oound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 5:45 PM | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |

¹ NOTE: Peak hour summaries here correspond to peak hours identified for passenger cars and heavy vehicles combined.

Project #: 1169_2_HSH BTD#: Location 5 Location: Worcester, MA Mason Street Street 1: Winfield Street Street 2: Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PASSENGER CARS & HEAVY VEHICLES COMBINED

| | | | | | | | U | | · · · · — · · · | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|----------|-------|-----------------|----------|----------|-------|--------|------|-------|-------|
| | | Mason | Street | | | Mason | Street | | | Winfield | d Street | | | | | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 14 | 0 | 0 | 0 | 12 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 18 | 0 | 1 | 0 | 7 | 0 | 0 | 9 | 0 | 3 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 10 | 0 | 0 | 0 | 11 | 0 | 0 | 22 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 14 | 0 | 0 | 0 | 9 | 0 | 0 | 16 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 18 | 0 | 0 | 0 | 15 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 10 | 0 | 0 | 0 | 7 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 13 | 0 | 0 | 0 | 7 | 0 | 0 | 20 | 0 | 2 | 0 | 0 | 0 | 0 |

| | | Mason | Street | | | Masor | Street | | | Winfiel | d Street | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|----------|-------|--------|------|-------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 19 | 0 | 2 | 0 | 26 | 0 | 0 | 20 | 0 | 1 | 0 | 0 | 0 | 0 |
| 4:15 PM | 1 | 0 | 16 | 0 | 1 | 0 | 24 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 1 | 0 | 15 | 0 | 0 | 0 | 25 | 0 | 0 | 19 | 0 | 1 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 18 | 0 | 0 | 0 | 25 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 19 | 0 | 0 | 0 | 25 | 0 | 0 | 17 | 0 | 2 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 21 | 0 | 2 | 0 | 24 | 0 | 0 | 21 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 17 | 0 | 0 | 0 | 30 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 20 | 0 | 2 | 0 | 25 | 0 | 0 | 20 | 0 | 2 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | Winfiel | d Street | | | | | |
|--------------|--------|-------|--------|---|---|-------|--------|-------|--------|---------|----------|-------|--------|-------|-------|-------|
| 7:30 AM | | North | bound | | | South | bound | | | Eastl | oound | | | Westl | oound | |
| to | U-Turn | | | | | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 8:30 AM | 0 | 0 | 60 | 0 | 1 | 0 | 42 | 0 | 0 | 60 | 0 | 5 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 83 | | | 0. | 72 | | | 0. | 71 | | | 0. | 00 | |
| HV~% | 0.0% | | | | | 0.0% | 4.8% | 0.0% | 0.0% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| PM PEAK HOUR | | Masor | Street | | | Mason | Street | | | Winfield | d Street | | | | | |
|--------------|--------|--|--------|---|---|-------|--------|-------|--------|----------|----------|-------|--------|------|-------|-------|
| 5:00 PM | | North | bound | | | South | bound | | | Easth | ound | | | West | bound | |
| to | U-Turn | -Turn Left Thru Right | | | | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 6:00 PM | 0 | 0 | 77 | 0 | 4 | 0 | 104 | 0 | 0 | 70 | 0 | 6 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 92 | | | 0. | 90 | | | 0. | 86 | | | 0. | 00 | |
| HV~% | 0.0% | 0 0 77 0 0.92 0.0% 1.3% 0.0% | | | | 0.0% | 0.0% | 0.0% | 0.0% | 1.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Project #: 1169_2_HSH BTD#: Location 5 Location: Worcester, MA Mason Street Street 1: Street 2: Winfield Street Count Date: 1/31/2023 Day of Week: Tuesday Clouds & Sun, 35°F Weather:



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

HEAVY VEHICLES

| | | | | | | | | ,., . | | | | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|----------|----------|-------|--------|------|-------|-------|
| | | Mason | Street | | | Mason | Street | | | Winfield | d Street | | | | | |
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | Mason | Street | | | Masor | Street | | | Winfiel | d Street | | | | | |
|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|----------|-------|--------|------|-------|-------|
| | | North | bound | | | South | bound | | | Easth | oound | | | West | bound | |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | AM PEAK HOUR | | Mason | Street | | | Mason | Street | | | Winfield | d Street | | | | | |
|---|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|----------|----------|-------|--------|-------|-------|-------|
| | 7:15 AM | | North | bound | | | South | bound | | | Easth | oound | | | Westh | oound | |
| | to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| | 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| , | PHF | | 0. | 00 | | | 0. | 50 | | | 0. | 75 | | | 0.0 | 00 | |

| PM PEAK HOUR | 1 | Mason | Street | | | Masor | Street | | | Winfield | d Street | | | | | |
|--------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|----------|----------|-------|--------|-------|-------|-------|
| 4:00 PM | | North | bound | | | South | bound | | | Eastb | oound | | | Westl | bound | |
| to | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |
| 5:00 PM | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | | 0. | 38 | | | 0. | 25 | | | 0. | 00 | | | 0. | 00 | |

Project #: 1169_2_HSH BTD#: Location 5 Worcester, MA Location: Street 1: Mason Street Street 2: Winfield Street 1/31/2023 Count Date: Day of Week: Tuesday Weather: Clouds & Sun, 35°F



PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

PEDESTRIANS & BICYCLES

| | | Mason | Street | | | Masor | Street | | | Winfield | d Street | | | | | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|----------|----------|-----|------|-------|-------|-----|
| | | North | bound | | | South | bound | | | Eastb | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 7:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | Mason | Street | | | Mason | Street | | | Winfiel | d Street | | | | | |
|------------|------|-------|--------|-----|------|-------|--------|-----|------|---------|----------|-----|------|-------|-------|-----|
| | | North | bound | | | South | bound | | | Easth | oound | | | Westl | bound | |
| Start Time | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

| AM PEAK HOUR ¹ | | Mason | Street | | | Masor | Street | | | Winfield | d Street | | | | | |
|---------------------------|------|--------|--------|-----|------|-------|--------|-----|------|----------|----------|-----|------|------|-------|-----|
| 7:30 AM | | Northl | oound | | | South | bound | | | Easth | oound | | | West | bound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 8:30 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |

| PM PEAK HOUR ¹ | | Mason | Street | | | Mason | Street | | | Winfield | d Street | | | | | |
|---------------------------|------|--------|--------|-----|------|-------|--------|-----|------|----------|----------|-----|------|-------|-------|-----|
| 5:00 PM | | Northl | bound | | | South | bound | | | Easth | oound | | | Westl | oound | |
| to | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED | Left | Thru | Right | PED |
| 6:00 PM | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |

¹ NOTE: Peak hour summaries here correspond to peak hours identified for passenger cars and heavy vehicles combined.

Job 1169_2_HSH_ATR A
Area Worcester, MA
Location Mason Street, south of Bluff Street

BOSTON TRAFFIC DATA

Tuesday, January 31, 2023

| PO BOX 1723, Framingham, MA 01701 |
|-----------------------------------|
| Office: 978-746-1259 |
| DataRequest@BostonTrafficData.com |
| www.BostonTrafficData.com |

| | | | | | | | | | | | www.Bost | tonTrafficData. | com |
|------|--------|-----|----|-----|--------|----|-------|------|------|-----|----------|-----------------|-----|
| Time | | tal | N | В | | В | Time | | otal | N | В | | В |
| 0000 | 9 | | 1 | | 8 | | 1200 | 26 | | 11 | | 15 | |
| 0015 | 7 | | 3 | | 4 | | 1215 | 21 | | 9 | | 12 | |
| 0030 | 4 | | 2 | | 2 | | 1230 | 31 | | 12 | | 19 | |
| 0045 | 2 | 22 | 1 | 7 | 1 | 15 | 1245 | 28 | 106 | 14 | 46 | 14 | 60 |
| 0100 | 3 | | 2 | | 1 | | 1300 | 30 | | 11 | | 19 | |
| 0115 | 2 | | 1 | | 1 | | 1315 | 28 | | 9 | | 19 | |
| 0130 | 2 | | 0 | | 2 | | 1330 | 32 | | 16 | | 16 | |
| 0145 | 3 | 10 | 3 | 6 | 0 | 4 | 1345 | 31 | 121 | 14 | 50 | 17 | 71 |
| 0200 | 7 | 10 | 3 | · · | 4 | 7 | 1400 | 38 | 121 | 14 | 00 | 24 | |
| 0215 | 1 | | 0 | | 1 | | 1415 | 39 | | 14 | | 25 | |
| 0213 | 2 | | 1 | | 1 | | 1430 | 38 | | 15 | | 23 | |
| 0230 | 2 | 12 | 0 | 4 | 2 | 8 | 1445 | 45 | 160 | 19 | 62 | 26 | 98 |
| 0300 | 2 | 12 | | 4 | | 0 | | | 100 | 12 | 02 | | 90 |
| 0300 | 2 2 | | 2 | | 0 1 | | 1500 | 36 | | 14 | | 24 21 | |
| | | | 1 | | | | 1515 | 35 | | | | | |
| 0330 | 1 | • | 0 | _ | 1 | 0 | 1530 | 43 | 470 | 15 | 00 | 28 | 440 |
| 0345 | 3 | 8 | 2 | 5 | 1 | 3 | 1545 | 56 | 170 | 19 | 60 | 37 | 110 |
| 0400 | 2 | | 1 | | 1 | | 1600 | 49 | | 19 | | 30 | |
| 0415 | 2 | | 0 | | 2 | | 1615 | 43 | | 18 | | 25 | |
| 0430 | 5 | | 4 | | 1 | | 1630 | 46 | | 14 | | 32 | |
| 0445 | 4 | 13 | 1 | 6 | 3 | 7 | 1645 | 50 | 188 | 18 | 69 | 32 | 119 |
| 0500 | 12 | | 4 | | 8 | | 1700 | 51 | | 21 | | 30 | |
| 0515 | 5 | | 4 | | 1 | | 1715 | 49 | | 19 | | 30 | |
| 0530 | 10 | | 7 | | 3 | | 1730 | 50 | | 16 | | 34 | |
| 0545 | 13 | 40 | 8 | 23 | 5 | 17 | 1745 | 46 | 196 | 17 | 73 | 29 | 123 |
| 0600 | 8 | | 4 | | 4 | | 1800 | 37 | | 20 | | 17 | |
| 0615 | 14 | | 9 | | 5 | | 1815 | 34 | | 10 | | 24 | |
| 0630 | 19 | | 13 | | 6 | | 1830 | 33 | | 9 | | 24 | |
| 0645 | 20 | 61 | 9 | 35 | 11 | 26 | 1845 | 31 | 135 | 12 | 51 | 19 | 84 |
| 0700 | 23 | | 12 | | 11 | | 1900 | 28 | | 10 | | 18 | |
| 0715 | 29 | | 14 | | 15 | | 1915 | 31 | | 12 | | 19 | |
| 0730 | 26 | | 16 | | 10 | | 1930 | 13 | | 6 | | 7 | |
| 0745 | 30 | 108 | 11 | 53 | 19 | 55 | 1945 | 22 | 94 | 6 | 34 | 16 | 60 |
| 0800 | 30 | 100 | 19 | 55 | 11 | 55 | 2000 | 20 | 54 | 9 | 04 | 11 | 00 |
| 0800 | 34 | | 16 | | 18 | | 2015 | 10 | | 3 | | 7 | |
| 0830 | 19 | | 9 | | | | 2013 | 25 | | 14 | | , 11 | |
| | 30 | 113 | | 60 | 10 | 53 | | 20 | 75 | | 37 | | 38 |
| 0845 | | 113 | 16 | 60 | 14 | 55 | 2045 | 20 | 75 | 11 | 31 | 9 | 30 |
| 0900 | 29 | | 16 | | 13 | | 2100 | 14 | | 9 | | 5 | |
| 0915 | 26 | | 11 | | 15 | | 2115 | 11 | | 4 | | 7 | |
| 0930 | 22 | | 12 | | 10 | | 2130 | 6 | | 2 | | 4 | |
| 0945 | 29 | 106 | 12 | 51 | 17 | 55 | 2145 | 9 | 40 | 5 | 20 | 4 | 20 |
| 1000 | 31 | | 11 | | 20 | | 2200 | 10 | | 3 | | 7 | |
| 1015 | 26 | | 10 | | 16 | | 2215 | 16 | | 7 | | 9 | |
| 1030 | 24 | | 6 | | 18 | | 2230 | 13 | | 9 | | 4 | |
| 1045 | 18 | 99 | 8 | 35 | 10 | 64 | 2245 | 13 | 52 | 7 | 26 | 6 | 26 |
| 1100 | 26 | | 12 | | 14 | | 2300 | 8 | | 4 | | 4 | |
| 1115 | 29 | | 13 | | 16 | | 2315 | 8 | | 1 | | 7 | |
| 1130 | 26 | | 14 | | 12 | | 2330 | 9 | | 3 | | 6 | |
| 1145 | 21 | 102 | 6 | 45 | 15 | 57 | 2345 | 5 | 30 | 1 | 9 | 4 | 21 |
| | | | | | | | Total | 2061 | | 867 | | 1194 | |
| | | | | | | | | | | | | | |

Job 1169_2_HSH_ATR A
Area Worcester, MA
Location Mason Street, south of Bluff Street

BOSTON TRAFFIC DATA

Wednesday, February 1, 2023

PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

| | | | | | | | | | | | | tom rame Data. | |
|------|----------|------|---------|----|--------|----|-------|------|------|----------|-----|----------------|-----|
| Time | | otal | | В | | B | Time | To | otal | N | IB | | В |
| 0000 | 6 | | 1 | | 5 | | 1200 | 32 | | 13 | | 19 | |
| 0015 | 7 | | 4 | | 3 | | 1215 | 26 | | 10 | | 16 | |
| 0030 | 1 | | 0 | | 1 | | 1230 | 37 | | 17 | | 20 | |
| 0045 | 1 | 15 | 0 | 5 | 1 | 10 | 1245 | 40 | 135 | 17 | 57 | 23 | 78 |
| 0100 | 7 | | 3 | | 4 | | 1300 | 39 | | 17 | | 22 | |
| 0115 | 3 | | 1 | | 2 | | 1315 | 37 | | 14 | | 23 | |
| 0130 | 4 | | 0 | | 4 | | 1330 | 34 | | 17 | | 17 | |
| 0145 | 1 | 15 | 1 | 5 | 0 | 10 | 1345 | 37 | 147 | 16 | 64 | 21 | 83 |
| 0200 | 4 | 13 | 1 | J | 3 | 10 | 1400 | 54 | 147 | 22 | 04 | 32 | 03 |
| 0200 | 1 | | | | 1 | | 1415 | | | 25 25 | | 24 | |
| 0215 | | | 0 | | | | | 49 | | 20 | | 24 | |
| 0230 | 3 | 40 | 0 | | 3 | • | 1430 | 44 | 400 | 24 | 00 | 20 | 404 |
| 0245 | 4 | 12 | 3 | 4 | 1 | 8 | 1445 | 43 | 190 | 18 | 89 | 25 | 101 |
| 0300 | 4 | | 2 | | 2 | | 1500 | 41 | | 15 | | 26 | |
| 0315 | 4 | | 1 | | 3 | | 1515 | 55 | | 22 | | 33 | |
| 0330 | 0 | | 0 | | 0 | | 1530 | 44 | | 18 | | 26 | |
| 0345 | 3 | 11 | 1 | 4 | 2 | 7 | 1545 | 44 | 184 | 12 | 67 | 32 | 117 |
| 0400 | 4 | | 3 | | 1 | | 1600 | 45 | | 19 | | 26 | |
| 0415 | 5 | | 1 | | 4 | | 1615 | 70 | | 20 | | 50 | |
| 0430 | 1 | | 0 | | 1 | | 1630 | 53 | | 15 | | 38 | |
| 0445 | 3 | 13 | 3 | 7 | 0 | 6 | 1645 | 41 | 209 | 14 | 68 | 27 | 141 |
| 0500 | 7 | | 3 | | 4 | | 1700 | 45 | | 21 | | 24 | |
| 0515 | 7 | | 4 | | 3 | | 1715 | 47 | | 19 | | 28 | |
| 0530 | 11 | | 8 | | 3 | | 1730 | 39 | | 18 | | 21 | |
| 0545 | 6 | 31 | 3 | 18 | 3 | 13 | 1745 | 36 | 167 | 17 | 75 | 19 | 92 |
| 0600 | 13 | 01 | 8 | 10 | 5 | 10 | 1800 | 42 | 101 | 15 | 7.0 | 27 | 32 |
| 0615 | 12 | | 5 | | 7 | | 1815 | 40 | | 17 | | 23 | |
| 0630 | 17 | | 12 | | | | 1830 | 31 | | | | 26 | |
| | | | | 00 | 5 | 00 | | | 444 | 5 | | 20 | 04 |
| 0645 | 16 | 58 | 11 | 36 | 5 | 22 | 1845 | 31 | 144 | 16 | 53 | 15 | 91 |
| 0700 | 21 | | 12 | | 9 | | 1900 | 23 | | 8 | | 15 | |
| 0715 | 29 | | 10 | | 19 | | 1915 | 18 | | 4 | | 14 | |
| 0730 | 28 | | 14 | | 14 | | 1930 | 19 | | 4 | | 15 | |
| 0745 | 34 | 112 | 19 | 55 | 15 | 57 | 1945 | 22 | 82 | 9 | 25 | 13 | 57 |
| 0800 | 29 | | 9 | | 20 | | 2000 | 22 | | 10 | | 12 | |
| 0815 | 30 | | 14 | | 16 | | 2015 | 23 | | 9 | | 14 | |
| 0830 | 30 | | 15 | | 15 | | 2030 | 17 | | 9 | | 8 | |
| 0845 | 35 | 124 | 16 | 54 | 19 | 70 | 2045 | 15 | 77 | 4 | 32 | 11 | 45 |
| 0900 | 32 | | 20 | | 12 | | 2100 | 14 | | 3 | | 11 | |
| 0915 | 28 | | 13 | | 15 | | 2115 | 17 | | 6 | | 11 | |
| 0930 | 24 | | 9 | | 15 | | 2130 | 20 | | 7 | | 13 | |
| 0945 | 30 | 114 | 13 | 55 | 17 | 59 | 2145 | 18 | 69 | 4 | 20 | 14 | 49 |
| 1000 | 28 | | 9 | 00 | 19 | | 2200 | 15 | 00 | 4 | | 11 | |
| 1015 | 22 | | 10 | | 12 | | 2215 | 12 | | 7 | | 5 | |
| 1030 | 26 | | 10 | | 16 | | 2230 | 8 | | 2 | | | |
| 1030 | 33 | 109 | 7 | 36 | 26 | 73 | 2245 | 6 | 41 | 4 | 17 | 6 2 | 24 |
| 1100 | 33 18 | 109 | , 10 | 50 | | 13 | | 7 | 41 | | 17 | 6 | 24 |
| 1115 | | | | | 8 8 | | 2300 | | | 1 | | 10 | |
| | 19 | | 11 | | | | 2315 | 12 | | 2 | | | |
| 1130 | 23 | 00 | 10 | 40 | 13 | -4 | 2330 | 5 | 00 | 2 | • | 3 | 0.5 |
| 1145 | 39 | 99 | 17 | 48 | 22 | 51 | 2345 | 9 | 33 | 3 | 8 | 6 | 25 |
| | | | | | | | Total | 2191 | | 902 | | 1289 | |

Job 1169_2_HSH_ATR B
Area Worcester, MA
Location Winfield Street EB, east of Dewey Street

BOSTON TRAFFIC DATA

Tuesday, January 31, 2023

| PO BOX 1723, Framingham, MA 01701 |
|-----------------------------------|
| Office: 978-746-1259 |
| DataRequest@BostonTrafficData.com |
| ununy RostonTrafficData com |

| | | | | | | | | | | | | ommanic Data. | |
|------|----|-----|----|----|--------|---|-------|-----|------|-----|-----|---------------|---|
| Time | | tal | | В | | | Time | | otal | | В | | |
| 0000 | 4 | | 4 | | 0 | | 1200 | 15 | | 15 | | 0 | |
| 0015 | 7 | | 7 | | 0 | | 1215 | 6 | | 6 | | 0 | |
| 0030 | 1 | | 1 | | 0 | | 1230 | 16 | | 16 | | 0 | |
| 0045 | 0 | 12 | 0 | 12 | 0 | 0 | 1245 | 19 | 56 | 19 | 56 | 0 | 0 |
| 0100 | 2 | | 2 | | 0 | | 1300 | 12 | | 12 | | 0 | |
| 0115 | 0 | | 0 | | 0 | | 1315 | 16 | | 16 | | 0 | |
| 0130 | 0 | | 0 | | 0 | | 1330 | 13 | | 13 | | 0 | |
| 0145 | 1 | 3 | 1 | 3 | 0 | 0 | 1345 | 15 | 56 | 15 | 56 | 0 | 0 |
| 0200 | Ö | · | 0 | Ŭ | Ő | · | 1400 | 14 | 00 | 14 | 00 | Ö | Ŭ |
| 0215 | 2 | | 2 | | Ö | | 1415 | 23 | | 23 | | Ö | |
| 0230 | 0 | | 0 | | 0 | | 1430 | 19 | | 19 | | 0 | |
| 0230 | 1 | 3 | 1 | 3 | 0 | 0 | 1445 | 19 | 75 | 19 | 75 | 0 | 0 |
| 0300 | 1 | 3 | 1 | 3 | | U | | 15 | 73 | 15 | 73 | 0 | U |
| | | | | | 0 0 | | 1500 | | | 15 | | | |
| 0315 | 1 | | 1 | | | | 1515 | 15 | | | | 0 | |
| 0330 | 0 | 0 | 0 | _ | 0 | • | 1530 | 17 | 70 | 17 | 70 | 0 | ^ |
| 0345 | 0 | 2 | 0 | 2 | 0 | 0 | 1545 | 23 | 70 | 23 | 70 | 0 | 0 |
| 0400 | 0 | | 0 | | 0 | | 1600 | 19 | | 19 | | 0 | |
| 0415 | 1 | | 1 | | 0 | | 1615 | 12 | | 12 | | 0 | |
| 0430 | 0 | | 0 | | 0 | | 1630 | 21 | | 21 | | 0 | |
| 0445 | 2 | 3 | 2 | 3 | 0 | 0 | 1645 | 14 | 66 | 14 | 66 | 0 | 0 |
| 0500 | 0 | | 0 | | 0 | | 1700 | 20 | | 20 | | 0 | |
| 0515 | 3 | | 3 | | 0 | | 1715 | 18 | | 18 | | 0 | |
| 0530 | 1 | | 1 | | 0 | | 1730 | 13 | | 13 | | 0 | |
| 0545 | 0 | 4 | 0 | 4 | 0 | 0 | 1745 | 19 | 70 | 19 | 70 | 0 | 0 |
| 0600 | 4 | | 4 | | 0 | | 1800 | 16 | | 16 | | 0 | |
| 0615 | 6 | | 6 | | 0 | | 1815 | 13 | | 13 | | 0 | |
| 0630 | 3 | | 3 | | 0 | | 1830 | 14 | | 14 | | 0 | |
| 0645 | 10 | 23 | 10 | 23 | Ö | 0 | 1845 | 9 | 52 | 9 | 52 | Ö | 0 |
| 0700 | 5 | | 5 | | ő | · | 1900 | 9 | 02 | 9 | 02 | Ö | Ŭ |
| 0715 | 7 | | 7 | | Ö | | 1915 | 14 | | 14 | | 0 | |
| 0730 | 13 | | 13 | | 0 | | 1930 | 6 | | 6 | | 0 | |
| 0735 | 23 | 48 | 23 | 48 | 0 | 0 | 1945 | 9 | 38 | 9 | 38 | 0 | 0 |
| 0800 | | 40 | | 40 | 0 | U | 2000 | | 30 | | 30 | 0 | U |
| | 17 | | 17 | | 0 | | | 8 | | 8 | | | |
| 0815 | 12 | | 12 | | | | 2015 | 4 | | 4 | | 0 | |
| 0830 | 10 | 04 | 10 | 04 | 0 | 0 | 2030 | 7 | 0.5 | 7 | 0.5 | 0 | • |
| 0845 | 22 | 61 | 22 | 61 | 0 | 0 | 2045 | 6 | 25 | 6 | 25 | 0 | 0 |
| 0900 | 12 | | 12 | | 0 | | 2100 | 7 | | 7 | | 0 | |
| 0915 | 14 | | 14 | | 0 | | 2115 | 5 | | 5 | | 0 | |
| 0930 | 7 | | 7 | | 0 | | 2130 | 3 | | 3 | | 0 | |
| 0945 | 10 | 43 | 10 | 43 | 0 | 0 | 2145 | 9 | 24 | 9 | 24 | 0 | 0 |
| 1000 | 12 | | 12 | | 0 | | 2200 | 3 | | 3 | | 0 | |
| 1015 | 18 | | 18 | | 0 | | 2215 | 1 | | 1 | | 0 | |
| 1030 | 14 | | 14 | | 0 | | 2230 | 2 | | 2 | | 0 | |
| 1045 | 12 | 56 | 12 | 56 | 0 | 0 | 2245 | 3 | 9 | 3 | 9 | 0 | 0 |
| 1100 | 9 | | 9 | | Ō | - | 2300 | 2 | - | 2 | - | 0 | - |
| 1115 | 15 | | 15 | | Õ | | 2315 | 4 | | 4 | | Ö | |
| 1130 | 15 | | 15 | | Ö | | 2330 | 2 | | 2 | | 0 | |
| 1145 | 12 | 51 | 12 | 51 | 0 | 0 | 2345 | 1 | 9 | 1 | 9 | 0 | 0 |
| 1140 | 14 | 01 | 14 | 91 | J | J | Total | 859 | 3 | 859 | 9 | 0 | J |
| | | | | | | | lotal | 000 | | 000 | | U | |

Job 1169_2_HSH_ATR B
Area Worcester, MA
Location Winfield Street EB, east of Dewey Street

BOSTON TRAFFIC DATA

PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com www.BostonTrafficData.com

Wednesday, February 1, 2023

| Time | То | tal | Е | В | | | Time | To | otal | Е | В | | |
|------|--------|-----|--------|-----|---|-----|-------|----------|------|----------|-----|---|---|
| 0000 | 1 | | 1 | | 0 | | 1200 | 8 | | 8 | | 0 | |
| 0015 | 3 | | 3 | | 0 | | 1215 | 13 | | 13 | | 0 | |
| 0030 | 0 | | 0 | | Ö | | 1230 | 20 | | 20 | | Ö | |
| 0045 | 2 | 6 | 2 | 6 | Ö | 0 | 1245 | 23 | 64 | 23 | 64 | Ö | 0 |
| 0100 | 0 | · · | 0 | · · | 0 | · · | 1300 | 12 | 0-1 | 12 | 0-1 | 0 | Ü |
| 0115 | 1 | | 1 | | 0 | | 1315 | 26 | | 26 | | 0 | |
| 0113 | 0 | | Ó | | 0 | | 1330 | 22 | | 22 | | 0 | |
| 0130 | | 1 | | 4 | 0 | 0 | 1345 | | 72 | | 72 | | 0 |
| | 0 2 | ! | 0 2 | 1 | | 0 | 1400 | 12 19 | 12 | 12 19 | 12 | 0 | 0 |
| 0200 | | | | | 0 | | | | | | | 0 | |
| 0215 | 1 | | 1 | | 0 | | 1415 | 24 | | 24 | | 0 | |
| 0230 | 2 | _ | 2 | _ | 0 | • | 1430 | 25 | | 25 | | 0 | • |
| 0245 | 0 | 5 | 0 | 5 | 0 | 0 | 1445 | 21 | 89 | 21 | 89 | 0 | 0 |
| 0300 | 2 | | 2 | | 0 | | 1500 | 21 | | 21 | | 0 | |
| 0315 | 0 | | 0 | | 0 | | 1515 | 17 | | 17 | | 0 | |
| 0330 | 0 | | 0 | | 0 | | 1530 | 20 | | 20 | | 0 | |
| 0345 | 0 | 2 | 0 | 2 | 0 | 0 | 1545 | 17 | 75 | 17 | 75 | 0 | 0 |
| 0400 | 1 | | 1 | | 0 | | 1600 | 19 | | 19 | | 0 | |
| 0415 | 0 | | 0 | | 0 | | 1615 | 24 | | 24 | | 0 | |
| 0430 | 1 | | 1 | | 0 | | 1630 | 20 | | 20 | | 0 | |
| 0445 | 1 | 3 | 1 | 3 | 0 | 0 | 1645 | 16 | 79 | 16 | 79 | 0 | 0 |
| 0500 | 0 | | 0 | | 0 | | 1700 | 23 | | 23 | | 0 | |
| 0515 | 1 | | 1 | | 0 | | 1715 | 19 | | 19 | | 0 | |
| 0530 | 1 | | 1 | | Ö | | 1730 | 12 | | 12 | | Ö | |
| 0545 | Ö | 2 | 0 | 2 | Ö | 0 | 1745 | 15 | 69 | 15 | 69 | Ő | 0 |
| 0600 | 3 | _ | 3 | _ | Ö | Ŭ | 1800 | 19 | 00 | 19 | 00 | Ő | Ü |
| 0615 | 1 | | 1 | | 0 | | 1815 | 13 | | 13 | | 0 | |
| 0630 | 7 | | 7 | | 0 | | 1830 | 23 | | 23 | | 0 | |
| 0645 | 6 | 17 | 6 | 17 | 0 | 0 | 1845 | 12 | 67 | 12 | 67 | 0 | 0 |
| 0700 | 5 | 17 | 5 | 17 | 0 | U | 1900 | 12 | 07 | 12 | 07 | 0 | U |
| | | | | | | | | | | | | | |
| 0715 | 18 | | 18 | | 0 | | 1915 | 6 | | 6 | | 0 | |
| 0730 | 13 | 50 | 13 | | 0 | • | 1930 | 12 | 00 | 12 | 00 | 0 | • |
| 0745 | 23 | 59 | 23 | 59 | 0 | 0 | 1945 | 9 | 39 | 9 | 39 | 0 | 0 |
| 0800 | 13 | | 13 | | 0 | | 2000 | 7 | | 7 | | 0 | |
| 0815 | 13 | | 13 | | 0 | | 2015 | 6 | | 6 | | 0 | |
| 0830 | 10 | | 10 | | 0 | | 2030 | 4 | | 4 | | 0 | |
| 0845 | 14 | 50 | 14 | 50 | 0 | 0 | 2045 | 7 | 24 | 7 | 24 | 0 | 0 |
| 0900 | 10 | | 10 | | 0 | | 2100 | 6 | | 6 | | 0 | |
| 0915 | 9 | | 9 | | 0 | | 2115 | 3 | | 3 | | 0 | |
| 0930 | 17 | | 17 | | 0 | | 2130 | 9 | | 9 | | 0 | |
| 0945 | 9 | 45 | 9 | 45 | 0 | 0 | 2145 | 4 | 22 | 4 | 22 | 0 | 0 |
| 1000 | 13 | | 13 | | 0 | | 2200 | 2 | | 2 | | 0 | |
| 1015 | 7 | | 7 | | 0 | | 2215 | 10 | | 10 | | 0 | |
| 1030 | 8 | | 8 | | Ö | | 2230 | 4 | | 4 | | 0 | |
| 1045 | 9 | 37 | 9 | 37 | Ö | 0 | 2245 | 3 | 19 | 3 | 19 | Ö | 0 |
| 1100 | 9 | | 9 | | Ö | - | 2300 | 2 | . • | 2 | . • | Ő | - |
| 1115 | 9 | | 9 | | 0 | | 2315 | 8 | | 8 | | 0 | |
| 1130 | 16 | | 16 | | 0 | | 2330 | 4 | | 4 | | 0 | |
| 1145 | 22 | 56 | 22 | 56 | 0 | 0 | 2345 | 1 | 15 | 1 | 15 | 0 | 0 |
| 1140 | ~~ | 30 | 22 | 50 | U | U | Total | 917 | 10 | 917 | 13 | 0 | U |
| | | | | | | | IOlai | 317 | | 317 | | U | |

Job # 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Direction Northbound

Tuesday, January 31, 2023



| Time | Total | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class 10 | Class 11 | Class | Class |
|-------|---------|------------|---------------|-------------------------|-------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|---------------------------------|--------------------------|---------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | • | ' | | 9 | | | 12 | 13 |
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | 5 Axle or less Multi-Trailer | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 4 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 23 | 1 | 18 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 35 | 0 | 31 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 53 | 0 | 42 | 8 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 60 | 0 | 55 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 51 | 0 | 46 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 35 | 0 | 32 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 45 | 1 | 38 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1200 | 46 | 1 | 41 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 50 | 0 | 49 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 62 | 0 | 51 | 7 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 60 | 1 | 47 | 6 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 69 | 1 | 59 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 73 | 1 | 68 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 51 | 0 | 45 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 34 | 0 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 37 | 1 | 35 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 26 | 0 | 22 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 867 | 7 | 767 | 57 | 4 | 1 | 27 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 100.00% | 0.81% | 88.47% | 6.57% | 0.46% | 0.12% | 3.11% | 0.35% | 0.00% | 0.12% | 0.00% | 0.00% | 0.00% | 0.00% |

Job # 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Direction Northbound

Wednesday, February 1, 2023



| Time | Total | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class 10 | Class 11 | Class | Class |
|-------|---------|------------|---------------|-------------------------|-------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|---------------------------------|--------------------------|---------------------------------|
| | | 1 | 2 | s | 4 | 9 | • | 1 | • | 9 | | | 12 | 13 |
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | 5 Axle or less Multi-Trailer | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 18 | 0 | 15 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 36 | 0 | 28 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 55 | 0 | 46 | 6 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 54 | 0 | 46 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 55 | 1 | 46 | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 36 | 0 | 28 | 6 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 48 | 0 | 42 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 57 | 0 | 47 | 7 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 64 | 3 | 53 | 5 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 89 | 0 | 81 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 67 | 0 | 62 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 68 | 0 | 57 | 6 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 75 | 0 | 69 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 53 | 0 | 47 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 25 | 0 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 32 | 0 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 17 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 17 | 0 | 13 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 902 | 4 | 785 | 83 | 6 | 1 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 100.00% | 0.44% | 87.03% | 9.20% | 0.67% | 0.11% | 2.22% | 0.33% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Job # 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Direction Southbound Tuesday, January 31, 2023 BOSTON TRAFFIC DATA PO BOX 1723, Framingham, MA 0170 Office: 978-746-1259 DataRequesti@BostonTrafficData.com

| Time | Total | Class | Class 2 | Class | Class 4 | Class 5 | Class 6 | Class | Class | Class | Class 10 | Class 11 | Class 12 | Class 13 |
|-------|---------|------------|---------------|-------------------------|------------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|-------------|--------------------------|---------------------------------|
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 8 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 17 | 0 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 26 | 0 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 55 | 0 | 47 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 53 | 1 | 50 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 55 | 0 | 49 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 64 | 0 | 59 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 57 | 0 | 50 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 60 | 0 | 50 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 71 | 0 | 62 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 98 | 0 | 85 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 110 | 0 | 89 | 16 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 119 | 0 | 107 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 123 | 0 | 117 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 84 | 0 | 78 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 60 | 0 | 50 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 38 | 0 | 36 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 26 | 0 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 21 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1194 | 1 | 1064 | 111 | 8 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 100.00% | 0.08% | 89.11% | 9.30% | 0.67% | 0.67% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Job # 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Direction Southbound

Wednesday, February 1, 2023



| Time | Total | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class | Class |
|-------|---------|------------|---------------|-------------------------|-------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|---------------------------------|--------------------------|---------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | 5 Axle or less Multi-Trailer | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 10 | 0 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 13 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 22 | 0 | 16 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 57 | 0 | 52 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 70 | 0 | 56 | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 59 | 0 | 54 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 73 | 2 | 60 | 8 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 51 | 0 | 44 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 78 | 0 | 72 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 83 | 1 | 75 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 101 | 0 | 94 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 117 | 1 | 104 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 141 | 0 | 129 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 92 | 1 | 85 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 91 | 0 | 83 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 57 | 0 | 52 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 45 | 0 | 44 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 49 | 0 | 45 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 24 | 0 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 25 | 0 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1289 | 5 | 1164 | 98 | 11 | 6 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | |
| | 100.00% | 0.39% | 90.30% | 7.60% | 0.85% | 0.47% | 0.23% | 0.16% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Job # 1169_2_HSH_ATR B

Area Worcester, MA

Location Winfield Street EB, east of Dewey Street

Direction Eastbound Tuesday, January 31, 2023 BOSTON TRAFFIC DATA PO BOX 1723, Framingham, MA 01701 Office: 978-746-1259 DataRequest@BostonTrafficData.com

| Time | Total | Class 1 | Class 2 | Class 3 | Class 4 | Class 5 | Class 6 | Class 7 | Class 8 | Class 9 | Class 10 | Class 11 | Class 12 | Class 13 |
|-------|---------|------------|---------------|-------------------------|------------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|-------------|--------------------------|---------------------------------|
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 23 | 0 | 19 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 48 | 0 | 44 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 61 | 0 | 56 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 43 | 0 | 34 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 56 | 0 | 50 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 51 | 0 | 44 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 56 | 0 | 49 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 56 | 0 | 52 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 75 | 0 | 71 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 70 | 0 | 60 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 66 | 1 | 61 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 70 | 0 | 67 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 52 | 0 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 38 | 0 | 33 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 25 | 0 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 24 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 9 | Ó | 9 | 0 | Ö | Ö | Ö | Ó | Ó | Ō | Ö | Ö | 0 | Ō |
| 2300 | 9 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 859 | 1 | 778 | 75 | 1 | 3 | 1 | 0 | Ō | 0 | Ö | Ö | Ō | 0 |
| | 100.00% | 0.12% | 90.57% | 8.73% | 0.12% | 0.35% | 0.12% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Job # 1169_2_HSH_ATR B

Area Worcester, MA

Location Winfield Street EB, east of Dewey Street

Direction Eastbound

Wednesday, February 1, 2023



| Time | Total | Class 1 | Class 2 | Class 3 | Class 4 | Class 5 | Class 6 | Class 7 | Class 8 | Class 9 | Class 10 | Class 11 | Class 12 | Class 13 |
|-------|---------|------------|---------------|-------------------------|------------|----------------|-------------|-------------------------|------------------------|----------------|---------------------------|-------------|--------------------------|---------------------------------|
| | | Motorcycle | Passenger Car | Vans, Pick up Trucks | Bus | 2 Axle 6 Tires | 3 Axle Unit | 4 Axles or more Unit | 3 or 4 Axle Trailer | 5 Axle Trailer | 6 Axle or more Trailer | | 6 Axle Multi- Trailer | 7 Axle or more Multi-Trailer |
| 0000 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 3 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 17 | 0 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 59 | 0 | 52 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 50 | 0 | 48 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 45 | 0 | 38 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 37 | 1 | 30 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 56 | 0 | 52 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 64 | 1 | 60 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 72 | 0 | 66 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 89 | 0 | 82 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 75 | 0 | 70 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 79 | 1 | 73 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 69 | 0 | 64 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 67 | 0 | 64 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 39 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 24 | 0 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 22 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 19 | 0 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 917 | 3 | 849 | 58 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 100.00% | 0.33% | 92.58% | 6.32% | 0.00% | 0.33% | 0.44% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Job 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Dir Northbound Tuesday, January 31, 2023



| T: | T-4-1 | | | | | | | 0 | al Diago (as | | | | _ | | Storr France Pate | | |
|-------|-------|---|----|----|-----|-----|-----|----|--------------|----|----|----|----|----|-------------------|----|----|
| Time | Total | | | | | 1 | | | d Bins (m | | | 1 | | 1 | 1 | | |
| | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 7 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 6 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 4 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 5 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 6 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 23 | 1 | 0 | 1 | 4 | 6 | 5 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 35 | 0 | 0 | 1 | 4 | 8 | 12 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 53 | 0 | 1 | 3 | 4 | 14 | 13 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 60 | 0 | 0 | 7 | 10 | 21 | 11 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 51 | 0 | 0 | 1 | 6 | 20 | 9 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 35 | 0 | 1 | 8 | 4 | 14 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 45 | 0 | 0 | 7 | 8 | 15 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 46 | 0 | 4 | 5 | 9 | 15 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 50 | 0 | 1 | 4 | 9 | 19 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 62 | 0 | 0 | 15 | 14 | 16 | 12 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 60 | 1 | 3 | 7 | 8 | 16 | 12 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 69 | 0 | 2 | 16 | 14 | 21 | 12 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 73 | 0 | 2 | 4 | 17 | 23 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 51 | 0 | 0 | 7 | 8 | 25 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 34 | 0 | 0 | 3 | 8 | 11 | 7 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 37 | 0 | 0 | 7 | 9 | 11 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 0 | 1 | 2 | 5 | 8 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 26 | 0 | 0 | 0 | 3 | 8 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 9 | 0 | 0 | 0 | 1 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 867 | 2 | 15 | 98 | 148 | 273 | 200 | 99 | 27 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

100.00% 0.23% 1.73% 11.30% 17.07% 31.49% 23.07% 11.42% 3.11% 0.58% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%

Maximum = 42.6 mph, Minimum = 2.8 mph, Mean = 23.1 mph 85% Speed = 30.03 mph, 95% Speed = 34.03 mph, Median = 23.32 mph 10 mph Pace = 19 - 29, Number in Pace = 493 (56.86%) Variance = 44.24, Standard Deviation = 6.65 mph

Job 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Northbound

Wednesday, February 1, 2023



| Time | Total | Speed Bins (mph) | | | | | | | | | | | | | | | |
|-------|-------|------------------|----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 5 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 5 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 7 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 18 | 0 | 0 | 3 | 2 | 4 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 36 | 0 | 0 | 1 | 4 | 7 | 14 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 55 | 0 | 0 | 3 | 4 | 12 | 22 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 54 | 0 | 0 | 2 | 7 | 21 | 15 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 55 | 0 | 1 | 8 | 7 | 15 | 15 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 36 | 0 | 0 | 6 | 5 | 13 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 48 | 0 | 0 | 3 | 2 | 10 | 21 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 57 | 0 | 0 | 3 | 5 | 27 | 17 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 64 | 1 | 6 | 10 | 13 | 20 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 89 | 0 | 0 | 4 | 16 | 29 | 27 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 67 | 0 | 0 | 5 | 9 | 20 | 24 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 68 | 0 | 3 | 16 | 13 | 13 | 17 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 75 | 0 | 1 | 6 | 12 | 22 | 25 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 53 | 0 | 0 | 6 | 11 | 13 | 15 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 25 | 0 | 0 | 0 | 5 | 6 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 32 | 0 | 0 | 2 | 5 | 9 | 9 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 0 | 2 | 4 | 10 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 17 | 0 | 0 | 3 | 5 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 8 | 0 | 0 | 0 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 902 | 1 | 12 | 85 | 133 | 264 | 264 | 102 | 36 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

 $100.00\% \qquad 0.11\% \quad 1.33\% \quad 9.42\% \quad 14.75\% \quad 29.27\% \quad 29.27\% \quad 11.31\% \quad 3.99\% \quad 0.55\% \quad 0.00\% \quad 0.00\%$

Maximum = 42.2 mph, Minimum = 4.3 mph, Mean = 24.0 mph 85% Speed = 30.37 mph, 95% Speed = 34.44 mph, Median = 24.33 mph 10 mph Pace = 20 - 30, Number in Pace = 530 (58.76%) Variance = 42.02, Standard Deviation = 6.48 mph

Job 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Dir Southbound

Tuesday, January 31, 2023



| | | | | | | | | | | | | | | www.Bo | stonTrafficData | .com | |
|-------|-------|---|----|-----|-----|-----|-----|-----|-----------|----|----|----|----|--------|-----------------|------|----|
| Time | Total | | | | | | | | d Bins (m | | | | | | | | |
| | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 15 | 0 | 1 | 2 | 7 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 8 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 3 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 7 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 17 | 0 | 0 | 3 | 3 | 2 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 26 | 0 | 1 | 3 | 3 | 8 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 55 | 0 | 4 | 12 | 10 | 9 | 15 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 53 | 0 | 1 | 12 | 5 | 14 | 14 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 55 | 0 | 1 | 10 | 10 | 11 | 17 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 64 | 1 | 1 | 14 | 9 | 12 | 14 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 57 | 0 | 1 | 9 | 4 | 22 | 18 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 60 | 0 | 1 | 9 | 14 | 17 | 15 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 71 | 0 | 3 | 21 | 16 | 14 | 8 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 98 | 0 | 1 | 13 | 11 | 29 | 33 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 110 | 0 | 2 | 21 | 20 | 24 | 27 | 10 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 119 | 1 | 2 | 25 | 19 | 35 | 22 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 123 | 0 | 1 | 17 | 19 | 37 | 33 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 84 | 0 | 2 | 14 | 13 | 28 | 15 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 60 | 0 | 1 | 11 | 9 | 13 | 17 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 38 | 0 | 0 | 2 | 1 | 10 | 11 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 20 | 0 | 0 | 2 | 0 | 6 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 26 | 0 | 1 | 0 | 2 | 10 | 5 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 21 | 0 | 0 | 2 | 1 | 7 | 8 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1194 | 2 | 24 | 207 | 179 | 313 | 299 | 125 | 36 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

100.00% 0.17% 2.01% 17.34% 14.99% 26.21% 25.04% 10.47% 3.02% 0.75% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%

Maximum = 43.1 mph, Minimum = 2.6 mph, Mean = 22.6 mph 85% Speed = 29.74 mph, 95% Speed = 33.72 mph, Median = 23.15 mph 10 mph Pace = 20 - 30, Number in Pace = 617 (51.68%) Variance = 51.59, Standard Deviation = 7.18 mph

Job 1169_2_HSH_ATR A

Area Worcester, MA

Location Mason Street, south of Bluff Street

Dir Southbound

Wednesday, February 1, 2023



| Time | Total | | | | | | | Spee | d Bins (m | inh) | | | | | stonframeDate | | |
|--------|-------|---|----|-----|-----|-----|-----|------|-----------|------|----|----|----|----|---------------|----|----|
| 111110 | rotai | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 10 | 0 | 0 | 1 | 0 | 5 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 10 | 0 | 0 | 1 | 1 | 3 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 8 | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 7 | 0 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 13 | 0 | 0 | 4 | 1 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 22 | 0 | 2 | 3 | 2 | 6 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 57 | 0 | 2 | 9 | 4 | 21 | 7 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 70 | 0 | 2 | 16 | 6 | 22 | 16 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 59 | 0 | 1 | 15 | 8 | 13 | 11 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 73 | 1 | 1 | 10 | 13 | 23 | 18 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 51 | 0 | 0 | 8 | 5 | 16 | 12 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 78 | 0 | 0 | 10 | 11 | 18 | 22 | 11 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 83 | 0 | 5 | 22 | 13 | 22 | 9 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 101 | 0 | 0 | 18 | 22 | 24 | 20 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 117 | 0 | 2 | 21 | 18 | 26 | 34 | 10 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 141 | 0 | 2 | 23 | 25 | 35 | 33 | 18 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 92 | 0 | 1 | 16 | 13 | 25 | 24 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 91 | 0 | 0 | 10 | 9 | 30 | 28 | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 57 | 0 | 0 | 6 | 10 | 14 | 16 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 45 | 0 | 0 | 6 | 4 | 13 | 17 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 49 | 0 | 0 | 4 | 5 | 13 | 17 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 24 | 0 | 0 | 3 | 4 | 4 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 25 | 0 | 0 | 0 | 2 | 6 | 7 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1289 | 1 | 18 | 210 | 179 | 342 | 310 | 166 | 46 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

100.00% 0.08% 1.40% 16.29% 13.89% 26.53% 24.05% 12.88% 3.57% 1.32% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%

Maximum = 43.8 mph, Minimum = 4.5 mph, Mean = 23.2 mph 85% Speed = 30.76 mph, 95% Speed = 34.87 mph, Median = 23.66 mph 10 mph Pace = 20 - 30, Number in Pace = 659 (51.12%) Variance = 53.69, Standard Deviation = 7.33 mph

Speed Report

Job 1169_2_HSH_ATR B

Area Worcester, MA

Location Winfield Street EB, east of Dewey Street

Eastbound

Tuesday, January 31, 2023



| Time | Total | | | | | | | Spee | d Bins (n | nph) | | | | | | | |
|-------|-------|---|----|-----|-----|-----|----|------|-----------|------|----|----|----|----|----|----|----|
| | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 12 | 0 | 2 | 2 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 4 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 23 | 0 | 2 | 2 | 9 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 48 | 0 | 0 | 12 | 17 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 61 | 0 | 2 | 9 | 29 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 43 | 0 | 4 | 12 | 17 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 56 | 0 | 4 | 8 | 26 | 15 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 51 | 0 | 5 | 20 | 15 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 56 | 1 | 6 | 11 | 19 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 56 | 0 | 2 | 4 | 28 | 18 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 75 | 0 | 9 | 7 | 32 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 70 | 0 | 5 | 10 | 27 | 23 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 66 | 0 | 2 | 6 | 34 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 70 | 0 | 7 | 15 | 31 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 52 | 0 | 5 | 6 | 24 | 14 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 38 | 0 | 0 | 14 | 14 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 25 | 0 | 0 | 6 | 9 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 24 | 0 | 0 | 6 | 11 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 9 | 0 | 1 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 9 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 859 | 2 | 57 | 155 | 359 | 237 | 44 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

 $100.00\% \qquad 0.23\% \quad 6.64\% \quad 18.04\% \quad 41.79\% \quad 27.59\% \quad 5.12\% \quad 0.35\% \quad 0.00\% \quad 0.23\% \quad 0.00\% \quad$

Maximum = 40.7 mph, Minimum = 4.3 mph, Mean = 17.8 mph 85% Speed = 22.37 mph, 95% Speed = 25.22 mph, Median = 18.06 mph 10 mph Pace = 13 - 23, Number in Pace = 641 (74.62%) Variance = 22.34, Standard Deviation = 4.73 mph

Speed Report

Job 1169_2_HSH_ATR B

Area Worcester, MA

Location Winfield Street EB, east of Dewey Street

Eastbound

Wednesday, February 1, 2023



| Time | Total | | | | | | | Spee | d Bins (n | nph) | | | | | | | |
|-------|-------|---|----|-----|-----|-----|----|------|-----------|------|----|----|----|----|----|----|----|
| | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 0000 | 6 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 5 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0600 | 17 | 0 | 1 | 2 | 1 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0700 | 59 | 0 | 0 | 12 | 28 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0800 | 50 | 0 | 0 | 6 | 17 | 18 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0900 | 45 | 1 | 9 | 8 | 17 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 | 37 | 0 | 7 | 4 | 16 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1100 | 56 | 0 | 1 | 8 | 22 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1200 | 64 | 0 | 7 | 15 | 28 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1300 | 72 | 0 | 1 | 9 | 31 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1400 | 89 | 0 | 2 | 10 | 34 | 36 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1500 | 75 | 0 | 0 | 6 | 37 | 28 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1600 | 79 | 0 | 3 | 11 | 38 | 23 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700 | 69 | 1 | 3 | 8 | 35 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1800 | 67 | 1 | 3 | 8 | 36 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1900 | 39 | 0 | 3 | 8 | 18 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 24 | 0 | 2 | 5 | 10 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100 | 22 | 0 | 1 | 5 | 8 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2200 | 19 | 0 | 0 | 1 | 7 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2300 | 15 | 0 | 2 | 2 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 917 | 3 | 46 | 130 | 394 | 282 | 60 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

 $100.00\% \qquad 0.33\% \quad 5.02\% \quad 14.18\% \quad 42.97\% \quad 30.75\% \quad 6.54\% \quad 0.22\% \quad 0.00\% \quad$

Maximum = 30.9 mph, Minimum = 4.3 mph, Mean = 18.5 mph 85% Speed = 22.93 mph, 95% Speed = 25.78 mph, Median = 18.90 mph 10 mph Pace = 14 - 24, Number in Pace = 687 (74.92%) Variance = 21.71, Standard Deviation = 4.66 mph



Appendix B

2019 MassDOT Seasonal and Axle Correction Factors

Massachusetts Highway Department Statewide Traffic Data Collection 2019 Weekday Seasonal Factors

| Factor Group | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | Axle Factor |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| R1 | 1.22 | 1.14 | 1.12 | 1.06 | 1.00 | 0.96 | 0.87 | 0.85 | 0.96 | 0.99 | 1.04 | 1.12 | 0.85 |
| R2 | 0.95 | 0.96 | 0.98 | 0.97 | 0.97 | 0.93 | 0.97 | 0.94 | 0.96 | 0.90 | 0.92 | 0.93 | 0.96 |
| R3 | 1.15 | 1.06 | 1.07 | 1.00 | 0.89 | 0.88 | 0.89 | 0.89 | 0.95 | 0.92 | 1.02 | 1.01 | 0.97 |
| R4-R7 | 1.09 | 1.09 | 1.11 | 1.02 | 0.96 | 0.92 | 0.89 | 0.89 | 0.99 | 0.98 | 1.09 | 1.13 | 0.98 |
| U1-Boston | 1.03 | 1.01 | 0.98 | 0.94 | 0.94 | 0.92 | 0.95 | 0.93 | 0.94 | 0.94 | 0.97 | 1.04 | 0.96 |
| U1-Essex | 1.09 | 1.06 | 1.03 | 0.99 | 0.94 | 0.90 | 0.88 | 0.86 | 0.93 | 0.94 | 0.99 | 1.06 | 0.93 |
| U1-Southeast | 1.06 | 1.05 | 1.01 | 0.97 | 0.95 | 0.93 | 0.93 | 0.90 | 0.94 | 0.94 | 0.98 | 1.04 | 0.98 |
| U1-West | 1.19 | 1.14 | 1.09 | 0.95 | 0.92 | 0.89 | 0.89 | 0.86 | 0.91 | 0.95 | 0.97 | 1.07 | 0.84 |
| U1-Worcester | 1.02 | 1.04 | 0.97 | 0.94 | 0.93 | 0.91 | 0.95 | 0.91 | 0.93 | 0.92 | 0.95 | 1.10 | 0.88 |
| U2 | 1.01 | 1.00 | 0.94 | 0.93 | 0.91 | 0.89 | 0.93 | 0.90 | 0.90 | 0.91 | 0.94 | 1.02 | 0.99 |
| U3 | 1.06 | 1.03 | 0.98 | 0.94 | 0.93 | 0.91 | 0.95 | 0.91 | 0.92 | 0.93 | 0.97 | 1.00 | 0.98 |
| U4-U7 | 1.01 | 1.00 | 0.95 | 0.92 | 0.88 | 0.86 | 0.92 | 0.91 | 0.92 | 0.94 | 0.99 | 1.04 | 0.99 |
| Rec - East | 1.04 | 1.16 | 1.12 | 0.98 | 0.92 | 0.88 | 0.77 | 0.81 | 0.94 | 1.02 | 1.08 | 1.12 | 0.99 |
| Rec - West | 1.30 | 1.23 | 1.32 | 1.18 | 0.95 | 0.82 | 0.70 | 0.69 | 0.97 | 0.96 | 1.16 | 1.15 | 0.98 |

Round off:

0-999 = 10

>1000 = 100

U = Urban

R = Rural

- 1 Interstate
- 2 Freeway and Expressway
- 3 Other Principal Arterial
- 4 Minor Arterial
- 5 Major Collector
- 6 Minor Collector
- 7 Local Road and Street

Recreational - East Group - Cape Cod (all towns) including the town of Plymouth south of Route 3A (stations 7014,7079,7080,7090,7091,7092,7093,7094,7095,7096,7097,7108 and 7178), Martha's Vineyard and Nantucket.

Recreational - West Group - Continuous Stations 2 and 189 including stations

1066,1067,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1113, 1114,1116,2196,2197 and 2198.



Appendix C

Crash Data



| CITY/TOWN: | Worcester | | | COUNT DA | ΓE: | 1/31/2023 | |
|--|--------------|-----------------|------------------------|-----------|---|----------------------|---|
| DISTRICT : 3 | UNSIGN | ALIZED : | Х | SIGNA | LIZED : | | |
| | | ~ IN | TERSECTION | I DATA ~ | | | |
| MAJOR STREET : | Chandler Str | eet | | | | | |
| MINOR STREET(S): | Mason Stree | t | | | | | |
| INTERSECTION DIAGRAM (Label Approaches) | North | 7 SY | Mason Street | Auto M | Feet 122A rilibean Market wiffer center, Muffler shop | | |
| APPROACH: | 1 | 2 | PEAK HOUF | 4 | 5 | Total Peak Hourly | |
| DIRECTION: | NB | SB | EB | WB | | Approach Volume | |
| PEAK HOURLY VOLUMES : | 493 | 748 | 148 | 94 | | 1,483 | |
| "K" FACTOR: | 0.090 | INTERS | ECTION ADT APPROACH | | L DAILY | 16,478 | |
| TOTAL # OF CRASHES : | 48 | # OF YEARS : | 3 | CRASHES | GE # OF PER YEAR (): | 16.00 | |
| CRASH RATE CALC | CULATION: | 2.66 | RATE = | (A * 1,0 | 000,000) 365) | | m |
| Comments : Project Title <u>& Date:</u> | 48 Mason St | reet, Worces | ter | | | | |



| CITY/TOWN: | Worcester | | | COUNT DA | TE: | 1/31/2023 |
|---|--------------|-------------------------|------------------------|------------------|-------------------------|------------------------------|
| DISTRICT : 3 | UNSIGN | ALIZED : | Х | SIGNA | LIZED : | |
| | | ~ IN | TERSECTION | I DATA ~ | | |
| MAJOR STREET : | Mason Stree | t | | | | |
| MINOR STREET(S): | Bluff Street | | | | | |
| INTERSECTION DIAGRAM (Label Approaches) | North | son St. ster, MA 016 | 1,1,1 | Bushuff Stree | | |
| APPROACH : | 1 | 2 | PEAK HOUF | R VOLUMES 4 | 5 | Total Peak |
| DIRECTION : | NB | SB | EB | WB | <u> </u> | Hourly Approach Volume |
| PEAK HOURLY VOLUMES : | 73 | 106 | | 33 | | 212 |
| "K" FACTOR: | 0.090 | INTERS | ECTION ADT APPROACH | | AL DAILY | 2,356 |
| TOTAL # OF CRASHES : | 2 | # OF YEARS : | 3 | CRASHES | GE#OF PERYEAR(): | 0.67 |
| CRASH RATE CALC | | 0.78 | RATE = | <u>(A * 1,0</u> | 000,000) * 365) | |
| Comments : Project Title & Date: | 48 Mason St | reet. Worces | ter | | | |



| CITY/TOWN : | Worcester | | | COUNT DA | TE: | 1/31/2023 |
|---|--------------|-----------------|------------------------|------------------|--------------------------|--------------------|
| DISTRICT : 3 | UNSIGN | ALIZED : | Х | SIGNA | LIZED : | |
| | | ~ IN | TERSECTION | I DATA ~ | | |
| MAJOR STREET : | Mason Stree | t | | | | |
| MINOR STREET(S): | Parker Stree | t | | | | |
| INTERSECTION DIAGRAM (Label Approaches) | North | | Parker Street | | Parton | |
| | | 1 | PEAK HOUF | R VOLUMES | T | Total Peak |
| APPROACH: | 1 | 2 | 3 | 4 | 5 | Hourly |
| DIRECTION: | NB | SB | EB | WB | | Approach Volume |
| PEAK HOURLY VOLUMES : | 68 | 121 | 30 | 19 | | 238 |
| "K" FACTOR: | 0.090 | INTERS | ECTION ADT APPROACH | | AL DAILY | 2,644 |
| TOTAL # OF CRASHES : | 7 | # OF YEARS : | 3 | CRASHES A | GE#OF PERYEAR(.): | 2.33 |
| CRASH RATE CALC | | 2.42 | 1 | <u>(A * 1,0</u> | | |
| Comments : Project Title & Date: | 48 Mason St | reet, Worcest | ter | | | |



| CITY/TOWN : | Worcester | | | COUNT DA | TE: | 1/31/2023 | | | |
|---|----------------------------|-------------------|------------------------|------------------|--------------------------|----------------------|--|--|--|
| DISTRICT : 3 | UNSIGN | ALIZED : | Х | SIGNA | LIZED : | | | | |
| | | ~ IN ⁻ | TERSECTION | N DATA ~ | | | | | |
| MAJOR STREET : | Park Street | | | | | _ | | | |
| MINOR STREET(S): | Winfield Stre | et | | | | | | | |
| INTERSECTION DIAGRAM (Label Approaches) | North North North North | | | | | | | | |
| | | T | PEAK HOUP | R VOLUMES | Γ | Total Book | | | |
| APPROACH: | 1 | 2 | 3 | 4 | 5 | Total Peak Hourly | | | |
| DIRECTION: | NB | SB | EB | WB | | Approach Volume | | | |
| PEAK HOURLY VOLUMES : | 726 | 887 | | | | 1,613 | | | |
| "K" FACTOR: | 0.090 | INTERSI | ECTION ADT APPROACH | | AL DAILY | 17,922 | | | |
| TOTAL # OF CRASHES : | 7 | # OF YEARS : | 3 | CRASHES A | GE#OF PERYEAR(.): | 2.33 | | | |
| CRASH RATE CALC | | 0.36 | 1 | <u>(A * 1,0</u> | 000,000) * 365) | | | | |
| Comments : Project Title & Date: | 48 Mason St | reet, Worcest | ter | | | | | | |



| CITY/TOWN : | Worcester | | | COUNT DA | TE: | 1/31/2023 |
|---|---------------|-----------------|------------------------|-------------|--------------------------|----------------------|
| DISTRICT : 3 | UNSIGN | IALIZED : | Х | SIGNA | LIZED : | |
| | | ~ IN | TERSECTION | I DATA ~ | | |
| MAJOR STREET : | Mason Stree | t | | | | |
| MINOR STREET(S): | Winfield Stre | eet | | | | |
| INTERSECTION DIAGRAM (Label Approaches) | North | | William Street | E 21 Street | CETOWN CENSOR. | |
| | | 1 | PEAK HOUR | R VOLUMES | Ī | T-4-1 D1- |
| APPROACH: | 1 | 2 | 3 | 4 | 5 | Total Peak Hourly |
| DIRECTION: | NB | SB | EB | WB | | Approach Volume |
| PEAK HOURLY VOLUMES : | 77 | 104 | 76 | | | 257 |
| "K" FACTOR: | 0.090 | INTERSI | ECTION ADT APPROACH | | AL DAILY | 2,856 |
| TOTAL # OF CRASHES : | 1 | # OF YEARS : | 3 | CRASHES A | GE#OF PERYEAR(.): | 0.33 |
| CRASH RATE CALC | | 0.32 | 1 | (A * 1,(| | |
| Comments : Project Title & Date: | 48 Mason St | reet, Worcest | ter | | | |



Appendix D

Trip Generation

48 Mason Street, Worcester

Trip Generation Assessment

HOWARD STEIN HUDSON rev. 3/17/2023

XX HARD CODED TO BALANCE (Manually change formatting)

| Land Use | Size | Category | Directional Split | Average Trip Rate | Unadjusted Vehicle Trips | Assumed National Vehicle Occupancy Rate ¹ | Unadjusted Person-Trips | Transit Share ² | Transit Person- Trips | Walk/Bike/ Other Share ² | Walk/ Bike/ Other Trips | | Auto Person- Trips | % Taxi/ TNC ³ | Taxi/TNC Person- Trips | Assumed Local Auto Occupancy Rate for Taxis ⁴ | Private Auto | Assumed Loca Auto Occupancy Rate ⁴ | | Primary Non- Taxi Auto Trips | Primary AutoTrips |
|---------------------------------|-------|----------|----------------------|----------------------|-----------------------------|--|----------------------------|-------------------------------|-----------------------------|--|----------------------------|-----|-----------------------|--------------------------|------------------------------|---|--------------|--|----|------------------------------------|----------------------|
| Daily Peak Hour | | | | | | | | | | | | | | | | | | | | | |
| Affordable Housing⁵ | 94 | Total | | 4.810 | 452 | 1.18 | 534 | 6% | 32 | 24% | 128 | 70% | 374 | 7% | 26 | 1.18 | 348 | 1.18 | 44 | 294 | 338 |
| | units | In | 50% | 2.405 | 226 | 1.18 | 267 | 6% | 16 | 24% | 64 | 70% | 187 | 7% | 13 | 1.18 | 174 | 1.18 | 22 | 147 | 169 |
| | | Out | 50% | 2.405 | 226 | 1.18 | 267 | 6% | 16 | 24% | 64 | 70% | 187 | 7% | 13 | 1.18 | 174 | 1.18 | 22 | 147 | 169 |
| Total | | Total | | | 452 | | 534 | | 32 | | 128 | | 374 | | | | | | 44 | | 338 |
| | | In | | | 226 | | 267 | | 16 | | 64 | | 187 | | | | | | 22 | | 169 |
| | | Out | | | 226 | | 267 | | 16 | | 64 | | 187 | | | | | | 22 | | 169 |
| AM Peak Hour | | | | | | | | | | | | | | | | | | | | | |
| Affordable Housing ⁵ | 94 | Total | | 0.360 | 34 | 1.18 | 40 | | 2 | | 10 | | 28 | 7% | 2 | 1.18 | 26 | 1.18 | 4 | 22 | 26 |
| | units | In | 29% | 0.104 | 10 | 1.18 | 12 | 6% | 0 | 24% | 3 | 70% | 9 | 7% | 1 | 1.18 | 8 | 1.18 | 2 | 7 | 9 |
| | | Out | 71% | 0.256 | 24 | 1.18 | 28 | 6% | 2 | 24% | 7 | 70% | 19 | 7% | 1 | 1.18 | 18 | 1.18 | 2 | 15 | 17 |
| Total | | Total | | | 34 | | 40 | | 2 | | 10 | | 28 | | | | | | 4 | | 26 |
| | | In | | | 10 | | 12 | | 0 | | 3 | | 9 | | | | | | 2 | | 9 |
| | | Out | | | 24 | | 28 | | 2 | | 7 | | 19 | | | | | | 2 | | 17 |
| PM Peak Hour | | | | | | | | | | | | | | | | | | | | | |
| Affordable Housing ⁵ | 94 | Total | | 0.460 | 44 | 1.18 | 52 | | 3 | | 12 | | 37 | 7% | 3 | 1.18 | 34 | 1.18 | 6 | 29 | 35 |
| | units | In | 59% | 0.271 | 26 | 1.18 | 31 | 6% | 2 | 24% | 7 | 70% | 22 | 7% | 2 | 1.18 | 20 | 1.18 | 3 | 17 | 20 |
| | | Out | 41% | 0.189 | 18 | 1.18 | 21 | 6% | 1 | 24% | 5 | 70% | 15 | 7% | 1 | 1.18 | 14 | 1.18 | 3 | 12 | 15 |
| Total | | Total | | | 44 | | 52 | | 3 | | 12 | | 37 | 1 | | | | | 6 | | 35 |
| | | In | | | 26 | | 31 | | 2 | | 7 | | 22 | | | | | | 3 | | 20 |
| | | Out | | | 18 | | 21 | | 1 | | 5 | | 15 | | | | | | 3 | | 15 |

^{1. 2017} National vehicle occupancy rates - 1.18:home to work; 1.82: family/personal business; 1.82: shopping; 2.1 social/recreational

^{2.} Mode shares based on U.S Census Journey to Work, Tract 7314

^{3.} Assumed Taxi/TNC Percentage

^{4.} Local vehicle occupancy rates based on 2017 National vehicle occupancy rates

^{5.} ITE Trip Generation Manual, 11th Edition, LUC 223 (Affordable Housing), average rate



Appendix E

Synchro Reports

| ncivi onsignalized inte | 5136611 | лі Сар | acity A | ilalysis | | | | | | | | |
|-----------------------------------|---------|----------|---------|-----------|------------|---------|------|----------|----------|-------------|------|------|
| | ۶ | → | • | • | ← | • | 4 | † | / | > | ţ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | ,,,,, | 414 | | | 4 | | -002 | 4 | 00.1 |
| Traffic Volume (veh/h) | 40 | 579 | 7 | 20 | 461 | 14 | 6 | 28 | 82 | 14 | 15 | 21 |
| Future Volume (Veh/h) | 40 | 579 | 7 | 20 | 461 | 14 | 6 | 28 | 82 | 14 | 15 | 21 |
| Sign Control | -10 | Free | , | 20 | Free | 1-7 | J | Stop | 02 | 1-7 | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.94 | 0.94 | 0.94 | 0.87 | 0.87 | 0.87 | 0.74 | 0.74 | 0.74 |
| Hourly flow rate (vph) | 44 | 643 | 8 | 21 | 490 | 15 | 7 | 32 | 94 | 19 | 20 | 28 |
| Pedestrians | | 040 | | 21 | 730 | 10 | | 32 | J-T | 10 | 20 | 20 |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | INOHE | | | INOHE | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 505 | | | 651 | | | 1060 | 1282 | 326 | 1059 | 1278 | 252 |
| vC1, stage 1 conf vol | 505 | | | 001 | | | 1000 | 1202 | 320 | 1008 | 12/0 | 202 |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 505 | | | 651 | | | 1060 | 1282 | 326 | 1059 | 1278 | 252 |
| | 4.2 | | | 4.2 | | | 7.5 | 6.6 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, single (s) tC, 2 stage (s) | 4.2 | | | 4.2 | | | 7.5 | 0.0 | 6.9 | 7.5 | 0.5 | 0.9 |
| | 2.2 | | | 2.2 | | | 2.5 | 4.0 | 2.2 | 2.5 | 4.0 | 3.3 |
| tF (s) | 96 | | | 2.2 98 | | | 3.5 | 4.0 | 3.3 | 3.5 | | |
| p0 queue free % | | | | | | | 95 | 79 | 86 | 85 | 87 | 96 |
| cM capacity (veh/h) | 1035 | | | 911 | | | 150 | 151 | 673 | 124 | 157 | 753 |
| Direction, Lane # | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 | SB 1 | | | | | | |
| Volume Total | 366 | 330 | 266 | 260 | 133 | 67 | | | | | | |
| Volume Left | 44 | 0 | 21 | 0 | 7 | 19 | | | | | | |
| Volume Right | 0 | 8 | 0 | 15 | 94 | 28 | | | | | | |
| cSH | 1035 | 1700 | 911 | 1700 | 334 | 211 | | | | | | |
| Volume to Capacity | 0.04 | 0.19 | 0.02 | 0.15 | 0.40 | 0.32 | | | | | | |
| Queue Length 95th (ft) | 3 | 0 | 2 | 00 | 46 | 33 | | | | | | |
| Control Delay (s) | 1.4 | 0.0 | 0.9 | 0.0 | 22.7 | 29.8 | | | | | | |
| Lane LOS | A | 0.0 | Α. | 0.0 | C | D | | | | | | |
| Approach Delay (s) | 0.8 | | 0.5 | | 22.7 | 29.8 | | | | | | |
| Approach LOS | | | | | C | D | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| | | | 4.6 | | | | | | | | | |
| Average Delay | | | 4.1 | | | | | | | | | |
| Intersection Capacity Utilization | | | 49.1% | IC | U Level of | Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| ncivi onsignalized inte | | | | | | | |
|-----------------------------------|------|------|------------|------|------------|----------|---|
| | • | • | † | ~ | / | + | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | W | | ₽ | | | 4 | |
| Traffic Volume (veh/h) | 17 | 3 | 54 | 9 | 3 | 40 | |
| Future Volume (Veh/h) | 17 | 3 | 54 | 9 | 3 | 40 | |
| Sign Control | Stop | J | Free | , | , | Free | |
| Grade | 0% | | 0% | | | 0% | |
| Peak Hour Factor | 0.45 | 0.45 | 0.82 | 0.82 | 0.72 | 0.72 | |
| Hourly flow rate (vph) | 38 | 7 | 66 | 11 | 4 | 56 | |
| Pedestrians | 30 | - / | 00 | - 11 | 4 | 50 | |
| | | | | | | | |
| ane Width (ft) | | | | | | | |
| Valking Speed (ft/s) | | | | | | | |
| Percent Blockage | | | | | | | |
| Right turn flare (veh) | | | | | | | |
| Median type | | | None | | | None | |
| Median storage veh) | | | | | | | |
| Jpstream signal (ft) | | | | | | | |
| X, platoon unblocked | | | | | | | |
| C, conflicting volume | 136 | 72 | | | 77 | | |
| C1, stage 1 conf vol | | | | | | | |
| /C2, stage 2 conf vol | | | | | | | |
| Cu, unblocked vol | 136 | 72 | | | 77 | | |
| C, single (s) | 6.4 | 6.2 | | | 4.1 | | |
| C, 2 stage (s) | | | | | | | |
| F(s) | 3.5 | 3.3 | | | 2.2 | | |
| 00 queue free % | 96 | 99 | | | 100 | | |
| cM capacity (veh/h) | 861 | 996 | | | 1535 | | |
| | | | 00.4 | | 1000 | | |
| Pirection, Lane # | WB 1 | NB 1 | SB 1 60 | | | | |
| | 45 | | 4 | | | | |
| /olume Left | 38 | 0 | | | | | |
| olume Right | 7 | 11 | 0 | | | | |
| SH | 879 | 1700 | 1535 | | | | |
| /olume to Capacity | 0.05 | 0.05 | 0.00 | | | | |
| Queue Length 95th (ft) | 4 | 0 | 0 | | | | |
| Control Delay (s) | 9.3 | 0.0 | 0.5 | | | | |
| ane LOS | Α | | Α | | | | |
| Approach Delay (s) | 9.3 | 0.0 | 0.5 | | | | |
| Approach LOS | Α | | | | | | |
| Intersection Summary | | | | | | | |
| Average Delay | | | 2.5 | | | | |
| Intersection Capacity Utilization | | | 14.6% | IC | U Level of | Service | A |
| Analysis Period (min) | | | 15 | | | | |

| HCM Unsignalized Inte | ersecu | on Cap | acity A | lalysis | | | | | | | | | 3: Mason Street & Parker Stre |
|-----------------------------------|--------|--------|---------|---------|---------------|---------|------|----------------|------|----------|------|------|-------------------------------|
| | ʹ | - | • | • | ← | • | • | Ť | ~ | \ | Ţ | 1 | |
| Marrian | EDI | EDT | - | • | MOT | WDD | NDI | NDT | NDD | ODI | ODT | ODD | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
| Lane Configurations | | 4 | | | ↔ 7 | | | ↔ 48 | _ | | 4 | | |
| Traffic Volume (veh/h) | 8 | 10 | 8 | 6 | | 3 | 0 | | 5 | 3 | 42 | 9 | |
| Future Volume (Veh/h) | 8 | 10 | 8 | 6 | 7 | 3 | 0 | 48 | 5 | 3 | 42 | 9 | |
| Sign Control | | Stop | | | Stop | | | Free | | | Free | | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | | |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.67 | 0.67 | 0.67 | 0.64 | 0.64 | 0.64 | 0.71 | 0.71 | 0.71 | |
| Hourly flow rate (vph) | 12 | 15 | 12 | 9 | 10 | 4 | 0 | 75 | 8 | 4 | 59 | 13 | |
| Pedestrians | | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | | |
| Median type | | | | | | | | None | | | None | | |
| Median storage veh) | | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | | |
| vC, conflicting volume | 162 | 156 | 66 | 172 | 159 | 79 | 72 | | | 83 | | | |
| vC1, stage 1 conf vol | | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | | |
| vCu, unblocked vol | 162 | 156 | 66 | 172 | 159 | 79 | 72 | | | 83 | | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.4 | | | |
| tC, 2 stage (s) | 7.1 | 0.0 | 0.2 | 7 | 0.0 | 0.2 | 7.1 | | | 7.7 | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.5 | | | |
| p0 queue free % | 98 | 98 | 99 | 99 | 99 | 100 | 100 | | | 100 | | | |
| cM capacity (veh/h) | 795 | 737 | 1004 | 772 | 735 | 987 | 1541 | | | 1340 | | | |
| . , , , | | | | | 700 | 301 | 1541 | | | 1040 | | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | | |
| Volume Total | 39 | 23 | 83 | 76 | | | | | | | | | |
| Volume Left | 12 | 9 | 0 | 4 | | | | | | | | | |
| Volume Right | 12 | 4 | 8 | 13 | | | | | | | | | |
| cSH | 823 | 784 | 1541 | 1340 | | | | | | | | | |
| Volume to Capacity | 0.05 | 0.03 | 0.00 | 0.00 | | | | | | | | | |
| Queue Length 95th (ft) | 4 | 2 | 0 | 0 | | | | | | | | | |
| Control Delay (s) | 9.6 | 9.7 | 0.0 | 0.4 | | | | | | | | | |
| Lane LOS | Α | Α | | Α | | | | | | | | | |
| Approach Delay (s) | 9.6 | 9.7 | 0.0 | 0.4 | | | | | | | | | |
| Approach LOS | Α | Α | | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | | |
| Average Delay | | | 2.9 | | | | | | | | | | |
| Intersection Capacity Utilization | | | 15.3% | IC | U Level of | Service | | | Α | | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | | |

| HCM Unsignalized in | ersection | on Cap | acity A | naiysis | | | | | | |
|---|-----------|--------|-------------|----------|-----------|----------|---|--|--|--|
| | • | • | † | / | / | ↓ | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | | |
| Lane Configurations | | | † 1> | | | 41 | | | | |
| Traffic Volume (veh/h) | 0 | 0 | 777 | 115 | 16 | 459 | | | | |
| Future Volume (Veh/h) | 0 | 0 | 777 | 115 | 16 | 459 | | | | |
| Sign Control | Stop | | Free | | | Free | | | | |
| Grade | 0% | | 0% | | | 0% | | | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.93 | 0.93 | 0.88 | 0.88 | | | | |
| Hourly flow rate (vph) | 0.52 | 0.52 | 835 | 124 | 18 | 522 | | | | |
| Pedestrians | U | | 000 | 127 | 10 | JZZ | | | | |
| Lane Width (ft) | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | |
| Median type | | | None | | | None | | | | |
| Median storage veh) | | | INOHE | | | 140116 | | | | |
| Upstream signal (ft) | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | |
| vC, conflicting volume | 1194 | 480 | | | 959 | | | | | |
| vC1, stage 1 conf vol | 1194 | 400 | | | 909 | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | |
| vC2, stage 2 cont voi vCu, unblocked vol | 1194 | 480 | | | 959 | | | | | |
| | 6.8 | 6.9 | | | 4.2 | | | | | |
| tC, single (s) | 0.8 | 6.9 | | | 4.2 | | | | | |
| tC, 2 stage (s) | 2.5 | 2.2 | | | 0.0 | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | | | |
| p0 queue free % | 100 | 100 | | | 97 | | | | | |
| cM capacity (veh/h) | 175 | 532 | | | 707 | | | | | |
| Direction, Lane # | NB 1 | NB 2 | SB 1 | SB 2 | | | | | | |
| Volume Total | 557 | 402 | 192 | 348 | | | | | | |
| Volume Left | 0 | 0 | 18 | 0 | | | | | | |
| Volume Right | 0 | 124 | 0 | 0 | | | | | | |
| cSH | 1700 | 1700 | 707 | 1700 | | | | | | |
| Volume to Capacity | 0.33 | 0.24 | 0.03 | 0.20 | | | | | | |
| Queue Length 95th (ft) | 0.00 | 0.24 | 2 | 0.20 | | | | | | |
| Control Delay (s) | 0.0 | 0.0 | 1.2 | 0.0 | | | | | | |
| Lane LOS | 0.0 | 0.0 | Α | 0.0 | | | | | | |
| Approach Delay (s) | 0.0 | | 0.4 | | | | | | | |
| Approach LOS | 0.0 | | Ų. T | | | | | | | |
| •• | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | |
| Average Delay | | | 0.2 | | | | | | | |
| Intersection Capacity Utilization | | | 28.5% | IC | U Level o | Service | A | | | |
| Analysis Period (min) | | | 15 | | | | | | | |

| HCM Unsignalized Inte | ersecti | on Cap | acity A | nalysis | | | 5: Winfield Street & Mason S |
|----------------------------------|---------|----------|----------|---------|------------|---------|------------------------------|
| | * | † | ţ | لٍ | <i>•</i> | 4 | |
| Movement | NBL | NBT | SBT | SBR | NEL | NER | |
| Lane Configurations | | * | ^ | | W | | |
| Traffic Volume (veh/h) | 0 | 61 | 42 | 0 | 61 | 5 | |
| Future Volume (Veh/h) | 0 | 61 | 42 | 0 | 61 | 5 | |
| Sign Control | | Free | Free | | Stop | | |
| Grade | | 0% | 0% | | 0% | | |
| Peak Hour Factor | 0.83 | 0.83 | 0.72 | 0.72 | 0.92 | 0.92 | |
| Hourly flow rate (vph) | 0 | 73 | 58 | 0 | 66 | 5 | |
| Pedestrians | | | | | | | |
| ane Width (ft) | | | | | | | |
| Valking Speed (ft/s) | | | | | | | |
| Percent Blockage | | | | | | | |
| Right turn flare (veh) | | | | | | | |
| Median type | | None | None | | | | |
| Median storage veh) | | | | | | | |
| Jpstream signal (ft) | | | | | | | |
| X, platoon unblocked | | | | | | | |
| C, conflicting volume | 58 | | | | 131 | 58 | |
| C1, stage 1 conf vol | | | | | | | |
| C2, stage 2 conf vol | | | | | | | |
| Cu. unblocked vol | 58 | | | | 131 | 58 | |
| C, single (s) | 4.1 | | | | 6.4 | 6.2 | |
| C, 2 stage (s) | 7.1 | | | | 0.1 | 0.2 | |
| F (s) | 2.2 | | | | 3.5 | 3.3 | |
| 00 queue free % | 100 | | | | 92 | 100 | |
| :M capacity (veh/h) | 1559 | | | | 863 | 1008 | |
| . , , , | | | | | 000 | 1000 | |
| irection, Lane # | NB 1 | SB 1 | NE 1 | | | | |
| olume Total | 73 | 58 | 71 | | | | |
| olume Left | 0 | 0 | 66 | | | | |
| olume Right | 0 | 0 | 5 | | | | |
| SH | 1700 | 1700 | 872 | | | | |
| olume to Capacity | 0.04 | 0.03 | 0.08 | | | | |
| lueue Length 95th (ft) | 0 | 0 | 7 | | | | |
| Control Delay (s) | 0.0 | 0.0 | 9.5 | | | | |
| ane LOS | | | Α | | | | |
| pproach Delay (s) | 0.0 | 0.0 | 9.5 | | | | |
| pproach LOS | | | Α | | | | |
| ntersection Summary | | | | | | | |
| verage Delay | | | 3.3 | | | | |
| ntersection Capacity Utilization | | | 13.7% | IC | U Level of | Service | A |
| Analysis Period (min) | | | 15 | | | | |

| | ٠ | _ | ` | _ | - | 4 | 4 | † | ~ | \ | 1 | 1 |
|-----------------------------------|------|------|-----------|------|------------|---------|------|----------|------|----------|------|------|
| | - | | ▼ | • | | | | ' | | - | • | - |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4T> | | | ብֆ | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 25 | 463 | 11 | 47 | 682 | 26 | 5 | 30 | 114 | 18 | 51 | 26 |
| Future Volume (Veh/h) | 25 | 463 | 11 | 47 | 682 | 26 | 5 | 30 | 114 | 18 | 51 | 26 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.96 | 0.96 | 0.96 | 0.82 | 0.82 | 0.82 | 0.87 | 0.87 | 0.87 |
| Hourly flow rate (vph) | 27 | 498 | 12 | 49 | 710 | 27 | 6 | 37 | 139 | 21 | 59 | 30 |
| Pedestrians | | | · · · · · | | | | | <u> </u> | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| | | NOHE | | | INUITE | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | 707 | | | 540 | | | 4070 | 4000 | 055 | 4000 | 4200 | 200 |
| vC, conflicting volume | 737 | | | 510 | | | 1070 | 1393 | 255 | 1282 | 1386 | 368 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 737 | | | 510 | | | 1070 | 1393 | 255 | 1282 | 1386 | 368 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 97 | | | 95 | | | 94 | 72 | 81 | 72 | 56 | 95 |
| cM capacity (veh/h) | 878 | | | 1065 | | | 105 | 132 | 744 | 75 | 134 | 634 |
| Direction, Lane # | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 | SB 1 | | | | | | |
| Volume Total | 276 | 261 | 404 | 382 | 182 | 110 | | | | | | |
| Volume Left | 27 | 0 | 49 | 0 | 6 | 21 | | | | | | |
| Volume Right | 0 | 12 | 0 | 27 | 139 | 30 | | | | | | |
| cSH | 878 | 1700 | 1065 | 1700 | 348 | 143 | | | | | | |
| | | | | | | | | | | | | |
| Volume to Capacity | 0.03 | 0.15 | 0.05 | 0.22 | 0.52 | 0.77 | | | | | | |
| Queue Length 95th (ft) | 2 | 0 | 4 | 0 | 72 | 117 | | | | | | |
| Control Delay (s) | 1.2 | 0.0 | 1.5 | 0.0 | 26.2 | 84.9 | | | | | | |
| Lane LOS | Α | | Α | | D | F | | | | | | |
| Approach Delay (s) | 0.6 | | 8.0 | | 26.2 | 84.9 | | | | | | |
| Approach LOS | | | | | D | F | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 9.3 | | | | | | | | | |
| Intersection Capacity Utilization | | | 57.9% | IC | U Level of | Service | | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| iyoto i onou (iliili) | | | 13 | | | | | | | | | |

| HCM Unsignalized Int | ersection | on Cap | acity A | naıysıs | | | | | |
|---------------------------------|-----------|-----------|----------|---------|-----------|---------|---|--|--|
| | • | • | † | ~ | / | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
| Lane Configurations | W | | 1> | | | 4 | | | |
| Fraffic Volume (veh/h) | 24 | 9 | 63 | 11 | 6 | 100 | | | |
| uture Volume (Veh/h) | 24 | 9 | 63 | 11 | 6 | 100 | | | |
| Sign Control | Stop | | Free | | | Free | | | |
| Grade | 0% | | 0% | | | 0% | | | |
| Peak Hour Factor | 0.75 | 0.75 | 0.87 | 0.87 | 0.91 | 0.91 | | | |
| fourly flow rate (vph) | 32 | 12 | 72 | 13 | 7 | 110 | | | |
| Pedestrians | | | | | | | | | |
| ane Width (ft) | | | | | | | | | |
| /alking Speed (ft/s) | | | | | | | | | |
| ercent Blockage | | | | | | | | | |
| ght turn flare (veh) | | | | | | | | | |
| edian type | | | None | | | None | | | |
| edian storage veh) | | | 140116 | | | 140116 | | | |
| pstream signal (ft) | | | | | | | | | |
| K, platoon unblocked | | | | | | | | | |
| C, conflicting volume | 202 | 78 | | | 85 | | | | |
| 1, stage 1 conf vol | 202 | 70 | | | 00 | | | | |
| C2, stage 2 conf vol | | | | | | | | | |
| u, unblocked vol | 202 | 78 | | | 85 | | | | |
| single (s) | 6.4 | 6.2 | | | 4.1 | | | | |
| | 0.4 | 0.2 | | | 4.1 | | | | |
| (s) stage (s) | 3.5 | 3.3 | | | 2.2 | | | | |
| | 3.5 96 | 3.3 99 | | | 100 | | | | |
| queue free % | | | | | | | | | |
| 1 capacity (veh/h) | 778 | 988 | | | 1524 | | | | |
| ection, Lane # | WB 1 | NB 1 | SB 1 | | | | | | |
| lume Total | 44 | 85 | 117 | | | | | | |
| olume Left | 32 | 0 | 7 | | | | | | |
| lume Right | 12 | 13 | 0 | | | | | | |
| SH | 826 | 1700 | 1524 | | | | | | |
| lume to Capacity | 0.05 | 0.05 | 0.00 | | | | | | |
| ueue Length 95th (ft) | 4 | 0.00 | 0.00 | | | | | | |
| ontrol Delay (s) | 9.6 | 0.0 | 0.5 | | | | | | |
| ine LOS | Α. | 0.0 | A | | | | | | |
| proach Delay (s) | 9.6 | 0.0 | 0.5 | | | | | | |
| oproach LOS | Α. | 0.0 | 0.0 | | | | | | |
| • | | | | | | | | | |
| tersection Summary | | | 4.0 | | | | | | |
| verage Delay | | | 1.9 | | | | | | |
| tersection Capacity Utilization | | | 20.2% | IC | U Level o | Service | A | | |
| Analysis Period (min) | | | 15 | | | | | | |

| HCM Unsignalized Inte | ersecu | оп Сар | аспу А | naiysis | | | | | | | | |
|---------------------------------------|--------|--------|--------|---------|------------|----------|------|----------|------|------|------|------|
| | ۶ | - | • | • | ← | • | 4 | † | ~ | - | ţ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 10 | 14 | 6 | 4 | 13 | 2 | 4 | 60 | 5 | 6 | 100 | 16 |
| Future Volume (Veh/h) | 10 | 14 | 6 | 4 | 13 | 2 | 4 | 60 | 5 | 6 | 100 | 16 |
| Sign Control | 10 | Stop | , | - | Stop | | - | Free | J | J | Free | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.59 | 0.59 | 0.59 | 0.85 | 0.85 | 0.85 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 12 | 17 | 7 | 7 | 22 | 0.59 | 5 | 71 | 6 | 7 | 109 | 17 |
| Pedestrians | 12 | 17 | 1 | , | 22 | 3 | J | 7.1 | U | ' | 103 | 17 |
| Lane Width (ft) | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Walking Speed (ft/s) Percent Blockage | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | Mana | | | Mana | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 230 | 218 | 118 | 231 | 224 | 74 | 126 | | | 77 | | |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 230 | 218 | 118 | 231 | 224 | 74 | 126 | | | 77 | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.1 | | |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.2 | | |
| p0 queue free % | 98 | 97 | 99 | 99 | 97 | 100 | 100 | | | 100 | | |
| cM capacity (veh/h) | 705 | 678 | 940 | 705 | 673 | 993 | 1473 | | | 1535 | | |
| . , , , | | WD 4 | ND 4 | | | | | | | | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | |
| Volume Total | 36 | 32 | 82 | 133 | | | | | | | | |
| Volume Left | 12 | 7 | 5 | 7 | | | | | | | | |
| Volume Right | 7 | 3 | 6 | 17 | | | | | | | | |
| cSH | 727 | 701 | 1473 | 1535 | | | | | | | | |
| Volume to Capacity | 0.05 | 0.05 | 0.00 | 0.00 | | | | | | | | |
| Queue Length 95th (ft) | 4 | 4 | 0 | 0 | | | | | | | | |
| Control Delay (s) | 10.2 | 10.4 | 0.5 | 0.4 | | | | | | | | |
| Lane LOS | В | В | Α | Α | | | | | | | | |
| Approach Delay (s) | 10.2 | 10.4 | 0.5 | 0.4 | | | | | | | | |
| Approach LOS | В | В | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.8 | | | | | | | | | |
| Intersection Capacity Utilization | | | 18.1% | IC | U Level of | Service | | | Α | | | |
| Analysis Period (min) | | | 15.176 | 10 | O LOVE! 0! | 001 1100 | | | | | | |
| rinary are remou (min) | | | 13 | | | | | | | | | |

| | • | • | † | ~ | <u> </u> | 1 |
|---|------|------|------------|-------|------------|-------------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | WDL | NOK | ↑ ↑ | INDIX | ODL | - 3 |
| Traffic Volume (veh/h) | 0 | 0 | T № 660 | 71 | 8 | ↔ T 888 |
| Future Volume (Veh/h) | 0 | 0 | 660 | 71 | 8 | 888 |
| Sign Control | Stop | U | Free | 7.1 | U | Free |
| Grade | 0% | | 0% | | | 0% |
| Peak Hour Factor | 0.92 | 0.92 | 0.97 | 0.97 | 0.96 | 0.96 |
| Hourly flow rate (vph) | 0.92 | 0.92 | 680 | 73 | 0.96 | 925 |
| Pedestrians | U | U | 000 | 13 | Ö | 920 |
| Lane Width (ft) | | | | | | |
| | | | | | | |
| Walking Speed (ft/s) Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | | None | | | None |
| Median type Median storage veh) | | | NOHE | | | NULLE |
| Upstream signal (ft) | | | | | | |
| | | | | | | |
| pX, platoon unblocked vC, conflicting volume | 1195 | 376 | | | 753 | |
| vC1, stage 1 conf vol | 1190 | 3/0 | | | 103 | |
| | | | | | | |
| vC2, stage 2 conf vol vCu, unblocked vol | 1195 | 376 | | | 753 | |
| | 6.8 | 6.9 | | | 4.1 | |
| tC, single (s) | 6.8 | 6.9 | | | 4.1 | |
| tC, 2 stage (s) | 2.5 | 2.2 | | | 0.0 | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | |
| p0 queue free % | 100 | 100 | | | 99 | |
| cM capacity (veh/h) | 180 | 627 | | | 866 | |
| Direction, Lane # | NB 1 | NB 2 | SB 1 | SB 2 | | |
| Volume Total | 453 | 300 | 316 | 617 | | |
| Volume Left | 0 | 0 | 8 | 0 | | |
| Volume Right | 0 | 73 | 0 | 0 | | |
| cSH | 1700 | 1700 | 866 | 1700 | | |
| Volume to Capacity | 0.27 | 0.18 | 0.01 | 0.36 | | |
| Queue Length 95th (ft) | 0 | 0 | 1 | 0 | | |
| Control Delay (s) | 0.0 | 0.0 | 0.3 | 0.0 | | |
| Lane LOS | | | Α | | | |
| Approach Delay (s) | 0.0 | | 0.1 | | | |
| Approach LOS | | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 0.1 | | | |
| Intersection Capacity Utilization | | | 33.5% | IC | U Level of | Service |
| Analysis Period (min) | | | 15 | 10 | C 2010101 | 2311100 |
| raidiyolo i ollod (IIIII) | | | 10 | | | |

| HCM Unsignalized Inte | ersecti | on Cap | acity A | nalysis | | | 5: Winfield Street & Mason Stre |
|-----------------------------------|---------|----------|----------|---------|------------|-----------|---------------------------------|
| | *1 | † | ţ | لِر | <i>•</i> | 4 | |
| Movement | NBL | NBT | SBT | SBR | NEL | NER | |
| Lane Configurations | | * | † | | W | | |
| Traffic Volume (veh/h) | 0 | 78 | 105 | 0 | 71 | 6 | |
| Future Volume (Veh/h) | 0 | 78 | 105 | 0 | 71 | 6 | |
| Sign Control | | Free | Free | | Stop | | |
| Grade | | 0% | 0% | | 0% | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.90 | 0.90 | 0.92 | 0.92 | |
| Hourly flow rate (vph) | 0 | 85 | 117 | 0 | 77 | 7 | |
| Pedestrians | | | | | | | |
| Lane Width (ft) | | | | | | | |
| Walking Speed (ft/s) | | | | | | | |
| Percent Blockage | | | | | | | |
| Right turn flare (veh) | | | | | | | |
| Median type | | None | None | | | | |
| Median storage veh) | | | | | | | |
| Upstream signal (ft) | | | | | | | |
| pX, platoon unblocked | | | | | | | |
| vC, conflicting volume | 117 | | | | 202 | 117 | |
| vC1, stage 1 conf vol | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | |
| vCu, unblocked vol | 117 | | | | 202 | 117 | |
| tC, single (s) | 4.1 | | | | 6.4 | 6.2 | |
| tC, 2 stage (s) | | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 | |
| p0 queue free % | 100 | | | | 90 | 99 | |
| cM capacity (veh/h) | 1484 | | | | 787 | 935 | |
| Direction, Lane # | NB 1 | SB 1 | NE 1 | | | | |
| Volume Total | 85 | 117 | 84 | | | | |
| Volume Left | 0 | 0 | 77 | | | | |
| Volume Right | 0 | 0 | 7 | | | | |
| cSH | 1700 | 1700 | 797 | | | | |
| Volume to Capacity | 0.05 | 0.07 | 0.11 | | | | |
| Queue Length 95th (ft) | 0 | 0 | 9 | | | | |
| Control Delay (s) | 0.0 | 0.0 | 10.0 | | | | |
| Lane LOS | | | В | | | | |
| Approach Delay (s) | 0.0 | 0.0 | 10.0 | | | | |
| Approach LOS | | | В | | | | |
| Intersection Summary | | | | | | | |
| Average Delay | | | 3.0 | | | | |
| Intersection Capacity Utilization | | | 16.5% | IC | U Level of | Service | A |
| Analysis Period (min) | | | 15 | 10 | | _ 51 1.00 | |

| TOW Chaighanzou into | | | | | | | | | | | | |
|-----------------------------------|----------|------|----------|------|------------|-----------|------|----------|------|------|------|------|
| | • | - | • | • | • | • | | † | _ | - | ţ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 414 | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 43 | 660 | 8 | 21 | 558 | 15 | 6 | 30 | 88 | 15 | 6 | 23 |
| Future Volume (Veh/h) | 43 | 660 | 8 | 21 | 558 | 15 | 6 | 30 | 88 | 15 | 6 | 23 |
| Sign Control | -10 | Free | , | | Free | 10 | J | Stop | 00 | | Stop | 20 |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.94 | 0.94 | 0.94 | 0.87 | 0.87 | 0.87 | 0.74 | 0.74 | 0.74 |
| | 48 | 733 | 9 | 22 | 594 | 16 | 7 | 34 | 101 | 20 | 0.74 | 31 |
| Hourly flow rate (vph) | 48 | /33 | 9 | 22 | 594 | 16 | - / | 34 | 101 | 20 | ð | 31 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 610 | | | 742 | | | 1210 | 1488 | 371 | 1226 | 1484 | 305 |
| vC1, stage 1 conf vol | 2.0 | | | | | | | . 100 | 5 | | | 300 |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 610 | | | 742 | | | 1210 | 1488 | 371 | 1226 | 1484 | 305 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.5 | 6.6 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | 4.2 | | | 4.2 | | | 1.5 | 0.0 | 0.9 | 1.5 | 0.5 | 0.9 |
| | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| tF (s) | 2.2 | | | | | | | | | | | |
| p0 queue free % | 95 | | | 97 | | | 94 | 70 | 84 | 76 | 93 | 96 |
| cM capacity (veh/h) | 945 | | | 841 | | | 120 | 112 | 629 | 83 | 117 | 697 |
| Direction, Lane # | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 | SB 1 | | | | | | |
| Volume Total | 414 | 376 | 319 | 313 | 142 | 59 | | | | | | |
| Volume Left | 48 | 0 | 22 | 0 | 7 | 20 | | | | | | |
| Volume Right | 0 | 9 | 0 | 16 | 101 | 31 | | | | | | |
| cSH | 945 | 1700 | 841 | 1700 | 271 | 167 | | | | | | |
| Volume to Capacity | 0.05 | 0.22 | 0.03 | 0.18 | 0.52 | 0.35 | | | | | | |
| Queue Length 95th (ft) | 4 | 0.22 | 2 | 0.10 | 70 | 37 | | | | | | |
| Control Delay (s) | 1.6 | 0.0 | 0.9 | 0.0 | 31.9 | 38.0 | | | | | | |
| Lane LOS | 1.0 A | 0.0 | 0.9 A | 0.0 | 31.9 D | 36.0 E | | | | | | |
| Approach Delay (s) | 0.8 | | 0.5 | | 31.9 | 38.0 | | | | | | |
| | 0.0 | | 0.0 | | | | | | | | | |
| Approach LOS | | | | | D | Е | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 4.8 | | | | | | | | | |
| Intersection Capacity Utilization | | | 54.9% | IC | U Level of | f Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| TTOW OTTOIGNAME OF T | | o oup | / ti | | | |
|-----------------------------------|----------|-------|----------|------|-----------|-----------|
| | • | • | † | ~ | - | ↓ |
| Movement | WBL | WBR | NDT | NBR | SBL | SBT |
| Movement | | WBR | NBT | NBK | OBL | |
| Lane Configurations | W | | 4 | | | र्स |
| Traffic Volume (veh/h) | 18 | 3 | 58 | 10 | 3 | 43 |
| Future Volume (Veh/h) | 18 | 3 | 58 | 10 | 3 | 43 |
| Sign Control | Stop | | Free | | | Free |
| Grade | 0% | | 0% | | | 0% |
| Peak Hour Factor | 0.45 | 0.45 | 0.82 | 0.82 | 0.72 | 0.72 |
| Hourly flow rate (vph) | 40 | 7 | 71 | 12 | 4 | 60 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | | None | | | None |
| Median storage veh) | | | INOLIG | | | NOHE |
| | | | | | | |
| Upstream signal (ft) | | | | | | |
| pX, platoon unblocked | 445 | | | | 00 | |
| vC, conflicting volume | 145 | 77 | | | 83 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 145 | 77 | | | 83 | |
| tC, single (s) | 6.4 | 6.2 | | | 4.1 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | |
| p0 queue free % | 95 | 99 | | | 100 | |
| cM capacity (veh/h) | 850 | 990 | | | 1527 | |
| | | | | | | |
| Direction, Lane # | WB 1 | NB 1 | SB 1 | | | |
| Volume Total | 47 | 83 | 64 | | | |
| Volume Left | 40 | 0 | 4 | | | |
| Volume Right | 7 | 12 | 0 | | | |
| cSH | 868 | 1700 | 1527 | | | |
| Volume to Capacity | 0.05 | 0.05 | 0.00 | | | |
| Queue Length 95th (ft) | 4 | 0.00 | 0 | | | |
| Control Delay (s) | 9.4 | 0.0 | 0.5 | | | |
| Lane LOS | Α. | 0.0 | Α.5 | | | |
| Approach Delay (s) | 9.4 | 0.0 | 0.5 | | | |
| Approach LOS | 9.4 A | 0.0 | 0.5 | | | |
| Approach LOS | А | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 2.4 | | | |
| Intersection Capacity Utilization | n | | 14.7% | IC | U Level o | f Service |
| Analysis Period (min) | ··· | | 15 | 10 | C 201010 | |
| Alialysis Fellou (IIIII) | | | 10 | | | |

| TOW Oneignanzea mice | | | | | | - | | | | | | |
|-----------------------------------|------|------|-------|------|--------------------|-----------|------|------|------|------|------|------|
| | • | - | • | • | • | • | 1 | T | ~ | - | ¥ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | LUL | 4 | LDI | WDL | ₩ | TIDIN | NUL | 4 | NUIN | ODL | 4 | ODIN |
| Traffic Volume (veh/h) | 9 | 11 | 9 | 6 | 4) 8 | 3 | 0 | 51 | 5 | 3 | 45 | 10 |
| Future Volume (Veh/h) | 9 | 11 | 9 | 6 | 8 | 3 | 0 | 51 | 5 | 3 | 45 | 10 |
| Sign Control | 9 | | 9 | U | | 3 | U | | 3 | 3 | | 10 |
| | | Stop | | | Stop | | | Free | | | Free | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.67 | 0.67 | 0.67 | 0.64 | 0.64 | 0.64 | 0.71 | 0.71 | 0.71 |
| Hourly flow rate (vph) | 14 | 17 | 14 | 9 | 12 | 4 | 0 | 80 | 8 | 4 | 63 | 14 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 172 | 166 | 70 | 184 | 169 | 84 | 77 | | | 88 | | |
| vC1, stage 1 conf vol | 112 | 100 | 70 | 104 | 103 | 04 | - 11 | | | 00 | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| | 470 | 400 | 70 | 184 | 169 | 84 | 77 | | | 00 | | |
| vCu, unblocked vol | 172 | 166 | | | | | 77 | | | 88 | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.4 | | |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.5 | | |
| p0 queue free % | 98 | 98 | 99 | 99 | 98 | 100 | 100 | | | 100 | | |
| cM capacity (veh/h) | 781 | 728 | 998 | 754 | 725 | 981 | 1535 | | | 1334 | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | |
| Volume Total | 45 | 25 | 88 | 81 | | | | | | | | |
| Volume Left | 14 | 9 | 0 | 4 | | | | | | | | |
| Volume Right | 14 | 4 | 8 | 14 | | | | | | | | |
| cSH | 814 | 768 | 1535 | 1334 | | | | | | | | |
| Volume to Capacity | 0.06 | 0.03 | 0.00 | 0.00 | | | | | | | | |
| | 4 | 0.03 | 0.00 | 0.00 | | | | | | | | |
| Queue Length 95th (ft) | | | | | | | | | | | | |
| Control Delay (s) | 9.7 | 9.8 | 0.0 | 0.4 | | | | | | | | |
| Lane LOS | A | A | 0.0 | A | | | | | | | | |
| Approach Delay (s) | 9.7 | 9.8 | 0.0 | 0.4 | | | | | | | | |
| Approach LOS | Α | Α | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 3.0 | | | | | | | | | |
| Intersection Capacity Utilization | | | 15.5% | IC | U Level o | f Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

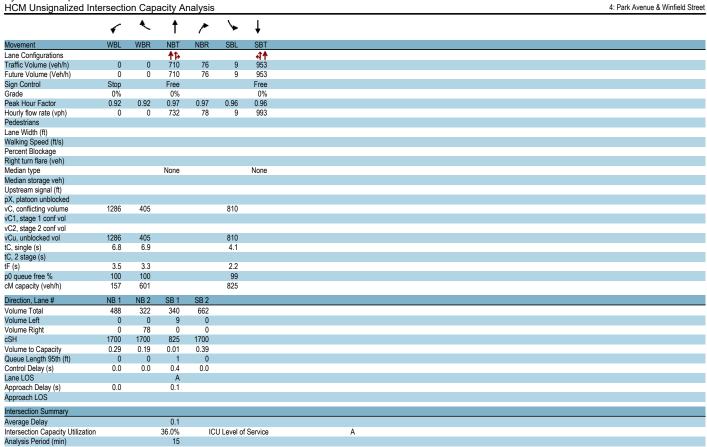
| Movement WBL WBR NBT NBR SBL SBT | Park Avenue & Winfield St |
|--|---------------------------|
| Lane Configurations ↑↑ 4↑ Traffic Volume (vehh) 0 834 123 17 494 Future Volume (vehh) 0 0 834 123 17 494 Sign Control Stop Free Free Grade 0% 0% 0% Peak Hour Factor 0.92 0.92 0.93 0.93 0.88 0.88 Hourly flow rate (vph) 0 0 897 132 19 561 Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median lype None None Median storage weh) Upstream signal (ft) pX, piaton unblocked vC, conflicting volume 1282 514 1029 vC1, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 100 9.7 of capacity (wehth) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Left 0 0 192 0 0 Volume Lot Capacity 0.35 0.25 | |
| Traffic Volume (velvh) 0 0 834 123 17 494 Figure Volume (velvh) 0 0 0 834 123 17 494 Sign Control Stop Free Free Grade 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| Traffic Volume (velh) 0 0 834 123 17 494 Sign Control Stop Free Crade 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | |
| Future Volume (Velvih) 0 0 834 123 17 494 Sign Control Stop Free Free Grade 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | |
| Sign Control Stop Free Free Grade O% O% O% O% O% O% O% O | |
| Grade 0% 0% 0% 0% 0% 0% Peak Hour Factor 0.92 0.92 0.93 0.93 0.93 0.98 0.88 Peak Hourly flow rate (vph) 0 0 0 897 132 19 661 Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median lybe None None Median lybe Median storage veh) Upstream signal (ft) XC, platonou miblooked VC, conficting volume vC1, stage 1 conf vol VC2, stage 2 conf vol VC3, stage 2 conf vol VC4, stage 6 conf vol VC5, stage (s) Ef (s) 3.5 3.3 2.2 2 p0 queue free % 100 100 9.7 Mol capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Total 598 431 206 374 Volume Intel 1 700 1700 665 1700 Volume Total 598 431 206 374 Volume Intel 1 700 1700 665 1700 Volume Capacity 0.35 0.25 0.03 0.22 Queue Length 95th (th) 0 0 0 2 0 Control Delay (s) 0.0 0.0 1.3 0.0 Lane LOS A | |
| Peak Hour Factor 0.92 0.92 0.93 0.93 0.88 0.88 Hourly flow rate (vph) 0 0 897 132 19 561 Pedestrians Bright turn flare (veh) Median Storage veh) Upstream sjorage veh UC2. stage 2 cont vol VC2. stage 2 cont vol VC2. stage 2 cont vol VC2. stage 2 cont vol VC3. stage 1 cont vol VC3. stage 1 cont vol VC3. stage 2 cont vol VC4. stage 2 cont vol VC5. stage 2 cont vol VC5. stage 2 cont vol VC6. stage 3 cont vol VC7. stage 4 cont vol VC8. stage 5 cont vol VC9. stage 5 cont vol VC9. stage 6 cont vol VC9. stage 6 cont vol VC9. stage 7 cont vol VC9. stage 1 cont vol VC9. stage 2 cont vol VC9. stage 3 cont vol VC9. stage 4 cont vol VC9. stage 4 cont vol VC9. stage 5 cont vol VC9. stage 6 cont vol VC9. stage 7 cont vol VC9. stage 7 cont vol VC9. stage 8 cont vol VC9. stage 1 cont vol VC9. stage 1 cont vol VC9. stage 1 cont vol VC9. stage 2 cont vol VC9. stage 2 cont vol VC9. stage 2 cont vol VC9. stage 3 cont vol VC9. stage 4 cont vol VC9. stage 2 cont vol VC9. stage 3 cont vol VC9. stage 4 cont vol VC9. stage 4 cont vol VC9. stage 2 cont v | |
| Hourly flow rate (vph) 0 0 897 132 19 561 Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type Median type Median type Modian storage veh) Upstream signal (ft) XC, conflicting volume 1282 514 1029 CC2, stage 1 conf vol VC2, stage 1 conf vol VC3, stage 1 conf vol VC4, stage 1 conf vol VC5, stage 1 conf vol VC6, stage (s) IF (s) 3.5 3.3 2.2.2 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 588 431 206 374 Volume Right 0 132 0 0 SSH 1700 Volume Capacity 0 1700 665 1700 Volume Right 0 132 0 0 CSSH 1700 Volume Capacity (st) Volume Length 95th (ft) 0 0 2 0 Counted Delay (s) 0.0 0.0 1.3 0.0 Control Delay (s) 0.0 0.0 0.0 1.3 0.0 | |
| Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type Median storage veh) Upstream signal (ft) XX, platon unblocked CC2, stage 2 conf vol CC3, stage 1 conf vol CC4, stage 1 conf vol CC5, stage 2 conf vol CC5, stage 2 conf vol CC6, unblocked vol CC7, stage 1 conf vol CC7, stage 2 conf vol CC9, stage 2 con | |
| Lane Width (ft) Walking Speed (ft)s Percent Blockage Right turn flare (veh) Median type Median storage veh) Upstream signal (ft) XX, platoon unblocked CC, conflicting volume CCJ, stage 1 conf vol CCJ, stage 2 conf vol CCJ, stage 2 conf vol CCJ, stage 1 conf vol CCJ, stage 1 conf vol CCJ, stage 1 conf vol CCJ, stage 2 conf vol CCJ, stage 1 conf vol CCJ, stage 1 conf vol CCJ, stage 2 conf vol CCJ, stage 1 conf vol CCJ, stage 1 conf vol CCJ, stage 2 conf vol CCJ, stage 1 conf vol CC | |
| Valking Speed (tt/s) Percent Blockage Vertical Tare (veh) Median type None N | |
| Percent Blockage Vight turn flare (veh) Median type Median storage veh) Upstream signal (ft) XX, platoon unblockd VC, conflicting volume 1282 514 1029 CC1, stage 1 conf vol CC2, stage 2 conf vol CC4, single (s) C, single (s) C, 2 stage (s) F (s) 3.5 3.3 2.2 30 queue free % 100 100 97 Mcapacity (veh/h) 153 505 6665 Direction, Lane # NB1 NB2 SB1 SB2 Volume Total 598 431 206 374 Volume Right 0 132 0 0 Volume Right 0 132 0 0 Volume Right 1700 1700 665 1700 Volume Right 0 0 0 2 0 Volume Length 95th (ft) 0 0 0 2 0 Canel LOS Amel LOS Amel Collad (s) Amel Collad (s) Volume Total 0 132 0 0 Control Delay (s) 0 0 0 0 13 0.0 Amel Collad (s) 0 0 0 2 0 Control Delay (s) 0 0 0 13 0.0 | |
| None | |
| Median type None None None None Median storage veh) Justream signal (f) | |
| Median storage veh) (pstream signal (ft) (x), platoon unblocked C, conflicting volume 1282 514 1029 C1, stage 1 conf vol C2, stage 2 conf vol Cu, unblocked vol 1282 514 1029 C, single (s) 6.8 6.9 4.2 C, 2 stage (s) 5 F (s) 3.5 3.3 2.2 10 queue free % 100 100 97 97 M capacity (veh/h) 153 505 665 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Right 0 132 0 0 0 SH 1700 1700 665 1700 Volume to Capacity 0.35 0.25 0.03 0.22 Dueue Length 95th (ft) 0 0 2 2 0 Control Delay (s) 0.0 0.0 1.3 0.0 Control Delay (s) 0.0 0.0 1.3 0.0 | |
| Upstream signal (ft) | |
| X, platoon unblocked C, conflicting volume 1282 514 1029 CC1, stage 2 conf vol (Cu, unblocked vol 1282 514 1029 C, single (s) 6, single (s) 58 59 4.2 C, 2 stage (s) F (s) 3.5 3.3 2.2 00 queue free % 100 100 97 Mcapacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Right 0 132 0 0 Volume Left 0 132 0 0 Volume to Capacity 0.35 0.25 0.03 0.22 Dueue Length 95th (ft) 0 0 Control Delay (s) 0 0 Control Delay (s) 0 0 <tr< td=""><td></td></tr<> | |
| C, conflicting volume 1282 514 1029 C1, stage 1 conf vol C2, stage 2 conf vol C2, unblocked vol 1282 514 1029 C, single (s) 6.8 6.9 4.2 C, 2 stage (s) F (s) 3.5 3.3 2.2 0 queue free % 100 100 97 Micropacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Right 0 132 0 0 Volume Length 95th (fit) 0 0 2 0 Jone Loos 0 0 0 0 1 3 0 Jone Loos 0 0 0 0 1 3 0 Jone Loos 0 0 0 0 1 3 0 Jone Loos 0 0 0 0 0 1 0 Jone Loos 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Jone Loos 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| C1, stage 1 conf vol C2, stage 2 conf vol C2, stage 2 conf vol C3, single (s) C4, stage 1 conf vol C4, single (s) C5, single (s) C6, single (s) C7, stage (s) C8, stage (s) C9, stage (s) C9, stage (s) C1, stage (s) C2, stage (s) C1, stage (s) C1, stage (s) C1, stage (s) C1, stage (s) C2, stage (s) C1, stage (s) C1, stage (s) C2, stage (s) C2, stage (s) C1, stage (s) C2, stage (s) C2, stage (s) C2, stage (s) C1, stage (s) C2, stage (s) C4, | |
| C2, stage 2 conf vol Cu, unblocked vol Cu, unblocked vol Cs, single (s) C, 2 stage (s) F (s) 0 queue free % 100 100 0 queue free % 100 100 0 97 M capacity (vel/h) 153 505 665 Sirection, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Left 0 0 132 0 0 SSH 1700 1700 665 1700 Volume Right 0 132 0 0 0 SSH 1700 1700 665 1700 Volume Longacity 0.35 0.25 0.03 0.22 Queue Length 95th (ft) 0 0 0 133 0 0 0 133 0 0 0 0 133 0 0 0 0 | |
| Cu, unblocked vol 1282 514 1029 C, single (s) 6.8 6.9 4.2 C, 2 stage (s) F (s) 3.5 3.3 2.2 00 queue free % 100 100 97 Mc capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Right 0 132 0 0 Volume Left 0 0 0 19 0 Volume Left 0 0 0 19 0 Volume Left 0 0 132 0 0 Volume Left 0 0 0 1 1 3 0.0 Volume Left 0 0 0 1 3 0.0 Volume Left 0 0 0 1 3 0.0 | |
| C, single (s) 6.8 6.9 4.2 C, 2 stage (s) F(s) 3.5 3.3 2.2 30 queue free % 100 100 97 M capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 /olume Total 598 431 206 374 /olume Left 0 0 19 0 /olume Right 0 132 0 0 /SSH 1700 1700 665 1700 /olume Right 0.35 0.25 0.03 0.22 Jueue Length 95th (ft) 0 0 2 0 Jane LOS A3 0.0 | |
| C, 2 stage (s) F (s) 3.5 3.3 2.2 Mo queue free % 100 100 97 Mo capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 /olume Total 598 431 206 374 /olume Left 0 0 19 0 /olume Right 0 132 0 0 /olume Right 1700 1700 665 1700 /olume to Capacity 0.35 0.25 0.03 0.22 /olume Length 95th (tt) 0 0 2 0 /ontrol Delay (s) 0.0 0.0 1.3 0.0 .ane LOS | |
| F (s) 3.5 3.3 2.2 00 queue free % 100 100 97 Mc capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Left 0 0 19 0 Volume Right 0 132 0 0 Volume Right 0 132 0 0 Volume Capacity 0.35 0.25 0.03 0.22 Dueue Length 95th (ft) 0 0 2 0 Cantrol Delay (s) 0.0 0.0 1.3 0.0 Ane LOS | |
| 00 queue free % 100 100 97 M capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Left 0 0 199 0 Volume Right 0 132 0 0 SSH 1700 1700 665 1700 Volume to Capacity 0.35 0.25 0.03 0.22 Queue Length 95th (ft) 0 0 2 0 Cantrol Delay (s) 0.0 0.0 1.3 0.0 Lane LOS A 505 505 505 505 | |
| M capacity (veh/h) 153 505 665 Direction, Lane # NB 1 NB 2 SB 1 SB 2 Folume Total 598 431 206 374 Folume Left 0 0 19 0 Folume Right 0 132 0 0 SH 1700 1700 665 1700 Folume to Capacity 0.35 0.25 0.03 0.22 Lucue Length 95th (ft) 0 0 0 2 0 Cantrol Delay (s) 0.0 0.0 1.3 0.0 ane LOS A 350 505 665 | |
| Direction, Lane # NB 1 NB 2 SB 1 SB 2 Volume Total 598 431 206 374 Volume Left 0 0 19 0 Volume Right 0 132 0 0 SH 1700 1700 665 1700 Volume to Capacity 0.35 0.25 0.03 0.22 Jueue Length 95th (ft) 0 0 2 0 Control Delay (s) 0.0 0.1 1.3 0.0 ane LOS A A A | |
| Volume Total 598 431 206 374 Volume Left 0 0 19 0 Volume Right 0 132 0 0 SH 1700 1700 665 1700 Volume to Capacity 0.35 0.25 0.03 0.22 Lueue Length 95th (ft) 0 0 2 0 Centrol Delay (s) 0.0 0.0 1.3 0.0 ane LOS A 431 206 374 Volume to Capacity 0.35 0.25 0.03 0.22 Volume to Capacity 0.35 0.25 0.25 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23 | |
| folume Left 0 0 19 0 olume Right 0 132 0 0 SH 1700 1700 665 1700 folume to Capacity 0.35 0.25 0.03 0.22 queue Length 95th (ft) 0 0 2 0 control Delay (s) 0.0 0.0 1.3 0.0 ane LOS A A | |
| Volume Right 0 132 0 0 0 SH 1700 1700 665 1700 Volume to Capacity 0.35 0.25 0.03 0.22 Queue Length 95th (ft) 0 0 2 0 Ontrol Delay (s) 0.0 0.0 1.3 0.0 ane LOS | |
| SH 1700 1700 665 1700 | |
| Volume to Capacity 0.35 0.25 0.03 0.22 1,0ueue Length 95th (ft) 0 0 2 0 0 1,0utrol Delay (s) 0.0 0.0 1.3 0.0 ane LOS A | |
| Queue Length 95th (ft) 0 0 2 0 Control Delay (s) 0.0 0.0 1.3 0.0 ane LOS A | |
| Control Delay (s) 0.0 0.0 1.3 0.0 ane LOS A | |
| ane LOS A | |
| | |
| pproach Delay (s) 0.0 0.5 | |
| | |
| Approach LOS | |
| ntersection Summary | |
| Average Delay 0.2 | |
| ntersection Capacity Utilization 30.3% ICU Level of Service A | |
| Analysis Period (min) 15 | |

| TICIVI OTISIGITALIZEG ITILE | 5136011 | он Сар | acity A | narysis | · | |
|-----------------------------------|---------|----------|---------|---------|-----------|---------|
| | * | • | - 1 | .1 | <i>•</i> | _ |
| | * | ı | * | لر | / | 4 |
| Movement | NBL | NBT | SBT | SBR | NEL | NER |
| Lane Configurations | | A | | | W | |
| Traffic Volume (veh/h) | 0 | 65 | 45 | 0 | 65 | 5 |
| Future Volume (Veh/h) | 0 | 65 | 45 | 0 | 65 | 5 |
| Sign Control | | Free | Free | | Stop | |
| Grade | | 0% | 0% | | 0% | |
| Peak Hour Factor | 0.83 | 0.83 | 0.72 | 0.72 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 0.03 | 78 | 62 | 0.72 | 71 | 5 |
| Pedestrians | U | 70 | 02 | U | / 1 | J |
| Lane Width (ft) | | | | | | |
| | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | Mana | Nicos | | | |
| Median type | | None | None | | | |
| Median storage veh) | | | | | | |
| Upstream signal (ft) | | | | | | |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | 62 | | | | 140 | 62 |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 62 | | | | 140 | 62 |
| tC, single (s) | 4.1 | | | | 6.4 | 6.2 |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 |
| p0 queue free % | 100 | | | | 92 | 100 |
| cM capacity (veh/h) | 1554 | | | | 853 | 1003 |
| | | 00.4 | NE 4 | _ | | |
| Direction, Lane # | NB 1 | SB 1 | NE 1 | | | |
| Volume Total | 78 | 62 | 76 | | | |
| Volume Left | 0 | 0 | 71 | | | |
| Volume Right | 0 | 0 | 5 | | | |
| cSH | 1700 | 1700 | 861 | | | |
| Volume to Capacity | 0.05 | 0.04 | 0.09 | | | |
| Queue Length 95th (ft) | 0 | 0 | 7 | | | |
| Control Delay (s) | 0.0 | 0.0 | 9.6 | | | |
| Lane LOS | | | Α | | | |
| Approach Delay (s) | 0.0 | 0.0 | 9.6 | | | |
| Approach LOS | | | Α | | | |
| | | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 3.4 | | | |
| Intersection Capacity Utilization | | | 14.0% | IC | U Level o | Service |
| Analysis Period (min) | | | 15 | | | |
| | | | | | | |

| TOW OTTOIGNAILEGE THE | | очр | | | | | | | | | | |
|-----------------------------------|----------|------|-------|------|-----------|------------|------|----------|------|----------|------|------|
| | • | - | • | 1 | ← | • | 4 | † | _ | / | Ų. | 4 |
| | | | | | | | | | | 0.01 | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 414 | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 27 | 581 | 12 | 50 | 799 | 28 | 5 | 32 | 122 | 19 | 55 | 28 |
| Future Volume (Veh/h) | 27 | 581 | 12 | 50 | 799 | 28 | 5 | 32 | 122 | 19 | 55 | 28 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.96 | 0.96 | 0.96 | 0.82 | 0.82 | 0.82 | 0.87 | 0.87 | 0.87 |
| Hourly flow rate (vph) | 29 | 625 | 13 | 52 | 832 | 29 | 6 | 39 | 149 | 22 | 63 | 32 |
| Pedestrians | | 020 | .5 | | 002 | | J | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Right turn flare (veh) | | Man | | | Man | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 861 | | | 638 | | | 1273 | 1654 | 319 | 1490 | 1646 | 430 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 861 | | | 638 | | | 1273 | 1654 | 319 | 1490 | 1646 | 430 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | , | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 95 | | | 88 | 57 | 78 | 48 | 31 | 94 |
| cM capacity (veh/h) | 789 | | | 956 | | | 50 | 90 | 677 | 40 | 91 | 579 |
| civi capacity (veri/n) | 109 | | | 900 | | | 50 | 90 | 011 | 42 | 91 | 5/9 |
| Direction, Lane # | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 | SB 1 | | | | | | |
| Volume Total | 342 | 326 | 468 | 445 | 194 | 117 | | | | | | |
| Volume Left | 29 | 0 | 52 | 0 | 6 | 22 | | | | | | |
| Volume Right | 0 | 13 | 0 | 29 | 149 | 32 | | | | | | |
| cSH | 789 | 1700 | 956 | 1700 | 251 | 93 | | | | | | |
| Volume to Capacity | 0.04 | 0.19 | 0.05 | 0.26 | 0.77 | 1.26 | | | | | | |
| Queue Length 95th (ft) | 3 | 0.13 | 4 | 0.20 | 142 | 208 | | | | | | |
| Control Delay (s) | 1.2 | 0.0 | 1.6 | 0.0 | 55.3 | 263.5 | | | | | | |
| Lane LOS | 1.2 A | 0.0 | Α | 0.0 | 55.5 F | 203.5 F | | | | | | |
| | 0.6 | | 0.8 | | 55.3 | 263.5 | | | | | | |
| Approach Delay (s) | 0.0 | | 0.6 | | 55.3 F | | | | | | | |
| Approach LOS | | | | | F | F | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 22.6 | | | | | | | | | |
| Intersection Capacity Utilization | | | 65.7% | IC | U Level o | f Service | | | С | | | |
| Analysis Period (min) | | | 15 | 10 | | . 55. 1100 | | | Ü | | | |
| raidigoio i citoù (itilit) | | | 13 | | | | | | | | | |

| HCM Unsignalized Inte | SISECUI | л Сар | acity Ai | iaiysis | | | 2: Mason Street & |
|-----------------------------------|------------|---------|------------------|---------|------------|-----------------|-------------------|
| | • | • | † | ~ | \ | ↓ | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | WDL | WDR | | INDIX | ODL | | |
| | | 40 | 1 → 68 | 40 | ^ | 4 107 | |
| Traffic Volume (veh/h) | 26 | 10 | | 12 | 6 | | |
| uture Volume (Veh/h) | 26 | 10 | 68 | 12 | 6 | 107 | |
| Sign Control | Stop | | Free | | | Free | |
| Grade | 0% | | 0% | | | 0% | |
| Peak Hour Factor | 0.75 | 0.75 | 0.87 | 0.87 | 0.91 | 0.91 | |
| Hourly flow rate (vph) | 35 | 13 | 78 | 14 | 7 | 118 | |
| Pedestrians | | | | | | | |
| ane Width (ft) | | | | | | | |
| Valking Speed (ft/s) | | | | | | | |
| Percent Blockage | | | | | | | |
| Right turn flare (veh) | | | | | | | |
| Median type | | | None | | | None | |
| Median storage veh) | | | | | | | |
| Upstream signal (ft) | | | | | | | |
| X, platoon unblocked | | | | | | | |
| C, conflicting volume | 217 | 85 | | | 92 | | |
| C1, stage 1 conf vol | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | |
| Cu, unblocked vol | 217 | 85 | | | 92 | | |
| C, single (s) | 6.4 | 6.2 | | | 4.1 | | |
| tC, 2 stage (s) | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | |
| p0 queue free % | 95 | 99 | | | 100 | | |
| cM capacity (veh/h) | 763 | 980 | | | 1515 | | |
| , | | | 00.4 | | 1010 | | |
| Direction, Lane # | WB 1 48 | NB 1 | SB 1 125 | | | | |
| /olume Lotal /olume Left | 48 35 | | | | | | |
| | 13 | 0 14 | 7 0 | | | | |
| /olume Right SH | 13 812 | 1700 | | | | | |
| | | | 1515 | | | | |
| /olume to Capacity | 0.06 | 0.05 | 0.00 | | | | |
| Queue Length 95th (ft) | 5 | 0 | 0 | | | | |
| Control Delay (s) | 9.7 | 0.0 | 0.4 | | | | |
| ane LOS | Α | | Α | | | | |
| Approach Delay (s) | 9.7 | 0.0 | 0.4 | | | | |
| Approach LOS | Α | | | | | | |
| ntersection Summary | | | | | | | |
| Average Delay | | | 2.0 | | | | |
| Intersection Capacity Utilization | | | 20.5% | IC | U Level of | f Service | A |
| Analysis Period (min) | | | 15 | | | | |

| ncivi onsignalized int | CISCUI | он Сар | acity A | Halysis | | | | | | | | |
|-----------------------------------|--------|----------|---------|---------|------------|---------|------|----------|----------|-------------|--------|------|
| | ٠ | → | • | • | ← | • | 4 | † | / | > | ţ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | LUL | 4 | LDIN | TTDL | 4 | 11011 | HUL | 4 | ווטוי | ODL | 4 | אופט |
| Traffic Volume (veh/h) | 11 | 15 | 6 | 4 | 14 | 2 | 4 | 64 | 5 | 6 | 107 | 17 |
| | 11 | 15 | 6 | 4 | | 2 | 4 | 64 | 5 | 6 | 107 | 17 |
| Future Volume (Veh/h) | 11 | | р | 4 | 14 | 2 | 4 | | 5 | р | | 17 |
| Sign Control | | Stop | | | Stop | | | Free | | | Free | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.59 | 0.59 | 0.59 | 0.85 | 0.85 | 0.85 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 13 | 18 | 7 | 7 | 24 | 3 | 5 | 75 | 6 | 7 | 116 | 18 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | 140110 | | | 140110 | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| | 240 | 220 | 105 | 0.42 | 226 | 70 | 124 | | | 01 | | |
| vC, conflicting volume | 242 | 230 | 125 | 243 | 236 | 78 | 134 | | | 81 | | |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 242 | 230 | 125 | 243 | 236 | 78 | 134 | | | 81 | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.1 | | |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.2 | | |
| p0 queue free % | 98 | 97 | 99 | 99 | 96 | 100 | 100 | | | 100 | | |
| cM capacity (veh/h) | 690 | 668 | 931 | 691 | 663 | 988 | 1463 | | | 1529 | | |
| | | | | | 000 | 300 | 1400 | | | 1020 | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | |
| Volume Total | 38 | 34 | 86 | 141 | | | | | | | | |
| Volume Left | 13 | 7 | 5 | 7 | | | | | | | | |
| Volume Right | 7 | 3 | 6 | 18 | | | | | | | | |
| cSH | 713 | 689 | 1463 | 1529 | | | | | | | | |
| Volume to Capacity | 0.05 | 0.05 | 0.00 | 0.00 | | | | | | | | |
| Queue Length 95th (ft) | 4 | 4 | 0.00 | 0.00 | | | | | | | | |
| Control Delay (s) | 10.3 | 10.5 | 0.5 | 0.4 | | | | | | | | |
| | | | | | | | | | | | | |
| Lane LOS | В | В | A | A | | | | | | | | |
| Approach Delay (s) | 10.3 | 10.5 | 0.5 | 0.4 | | | | | | | | |
| Approach LOS | В | В | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.8 | | | | | | | | | |
| Intersection Capacity Utilization | | | 18.6% | IC | U Level of | Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| | | | .5 | | | | | | | | | |

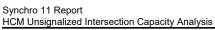


Α

ICU Level of Service

2022041::48 Mason Street

Intersection Capacity Utilization
Analysis Period (min)



| | ት ነ | † | | لِر | • | 4 |
|------------------------------------|------------|----------------|--------------|------|------------------|---------|
| Movement | NBL | NBT | SBT | SBR | NEL | NER |
| Movement Lane Configurations | NRL | ₩ | SBI | SBK | NEL Y | NEK |
| Traffic Volume (veh/h) | 0 | ↑ 84 | 113 | 0 | 'Y' 76 | 6 |
| Future Volume (Veh/h) | 0 | 84 | 113 | 0 | 76 | 6 |
| Sign Control | U | Free | Free | U | Stop | 0 |
| Sign Control Grade | | Free 0% | 0% | | Stop 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.90 | 0.90 | 0.92 | 0.92 |
| | 0.92 | 91 | 126 | 0.90 | 83 | 0.92 |
| Hourly flow rate (vph) Pedestrians | U | 91 | 120 | U | 03 | - 1 |
| | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | Mana | None | | | |
| Median type | | None | None | | | |
| Median storage veh) | | | | | | |
| Upstream signal (ft) | | | | | | |
| pX, platoon unblocked | 400 | | | | 047 | 400 |
| vC, conflicting volume | 126 | | | | 217 | 126 |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | 100 | | | | | |
| vCu, unblocked vol | 126 | | | | 217 | 126 |
| tC, single (s) | 4.1 | | | | 6.4 | 6.2 |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 |
| p0 queue free % | 100 | | | | 89 | 99 |
| cM capacity (veh/h) | 1473 | | | | 771 | 924 |
| Direction, Lane # | NB 1 | SB 1 | NE 1 | | | |
| Volume Total | 91 | 126 | 90 | | | |
| Volume Left | 0 | 0 | 83 | | | |
| Volume Right | 0 | 0 | 7 | | | |
| cSH | 1700 | 1700 | 781 | | | |
| Volume to Capacity | 0.05 | 0.07 | 0.12 | | | |
| Queue Length 95th (ft) | 0 | 0 | 10 | | | |
| Control Delay (s) | 0.0 | 0.0 | 10.2 | | | |
| Lane LOS | | | В | | | |
| Approach Delay (s) | 0.0 | 0.0 | 10.2 | | | |
| Approach LOS | | | В | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 3.0 | | | |
| Intersection Capacity Utilization | | | 17.2% | IC | U Level of | Service |
| Analysis Period (min) | | | 15 | | | |
| | | | | | | |

1: Mason Street & Chandler Street

| HCM Unsignalized Inte | rsecu | on Cap | acity P | maiysis | 5 | | | | | | | |
|-----------------------------------|-------|----------|----------|---------|-----------|-----------|-----------|------------|------|----------|------|------|
| | • | → | \ | | - | • | • | + | - | \ | 1 | 4 |
| | | | | • | | | • | | • | - | ▼ | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 414 | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 43 | 660 | 8 | 23 | 558 | 15 | 6 | 38 | 91 | 15 | 20 | 23 |
| Future Volume (Veh/h) | 43 | 660 | 8 | 23 | 558 | 15 | 6 | 38 | 91 | 15 | 20 | 23 |
| Sign Control | | Free | | | Free | | - i | Stop | Ü. | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.94 | 0.94 | 0.94 | 0.87 | 0.87 | 0.87 | 0.74 | 0.74 | 0.74 |
| Hourly flow rate (vph) | 48 | 733 | 0.90 | 0.94 | 594 | 16 | 0.87 7 | 0.87 44 | 105 | 20 | 27 | 31 |
| | 48 | 133 | 9 | 24 | 594 | 16 | - / | 44 | 105 | 20 | 21 | 31 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| | 610 | | | 742 | | | 1223 | 1492 | 274 | 1240 | 1488 | 205 |
| vC, conflicting volume | 610 | | | 742 | | | 1223 | 1492 | 371 | 1240 | 1488 | 305 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 610 | | | 742 | | | 1223 | 1492 | 371 | 1240 | 1488 | 305 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.5 | 6.6 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF(s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 95 | | | 97 | | | 93 | 60 | 83 | 73 | 77 | 96 |
| cM capacity (veh/h) | 945 | | | 841 | | | 102 | 111 | 629 | 73 | 116 | 697 |
| | | | | | | | 102 | | 023 | 10 | 110 | 001 |
| | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 | SB 1 | | | | | | |
| Volume Total | 414 | 376 | 321 | 313 | 156 | 78 | | | | | | |
| Volume Left | 48 | 0 | 24 | 0 | 7 | 20 | | | | | | |
| Volume Right | 0 | 9 | 0 | 16 | 105 | 31 | | | | | | |
| cSH | 945 | 1700 | 841 | 1700 | 247 | 141 | | | | | | |
| Volume to Capacity | 0.05 | 0.22 | 0.03 | 0.18 | 0.63 | 0.55 | | | | | | |
| Queue Length 95th (ft) | 0.05 | 0.22 | 0.03 | 0.16 | 96 | 69 | | | | | | |
| | | | | | | | | | | | | |
| Control Delay (s) | 1.6 | 0.0 | 1.0 | 0.0 | 41.8 | 58.3 | | | | | | |
| Lane LOS | Α | | Α | | E | F | | | | | | |
| Approach Delay (s) | 8.0 | | 0.5 | | 41.8 | 58.3 | | | | | | |
| Approach LOS | | | | | Е | F | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Average Delay | | | 7.3 | | | | | | | | | |
| Intersection Capacity Utilization | | | 55.5% | IC | U Level o | f Service | | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| | | | | | | | | | | | | |

2: Mason Street & Bluff Street

| TICIVI OTISIGITALIZEG ITI | ici 3 C Cli | | | waysis | , | |
|-----------------------------------|------------------------|------|----------|-------------|------------|---------|
| | _ | • | + | <i>></i> | \ | 1 |
| | • | ` | - 1 | | * | ¥ |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | WDL | 44DI | | ЛОИ | ODL | |
| Lane Conigurations | | ^ | ^ | 10 | 2 | 4 |
| Traffic Volume (veh/h) | 18 | 3 | 61 | 10 | 3 | 48 |
| Future Volume (Veh/h) | 18 | 3 | 61 | 10 | 3 | 48 |
| Sign Control | Stop | | Free | | | Free |
| Grade | 0% | | 0% | | | 0% |
| Peak Hour Factor | 0.45 | 0.45 | 0.82 | 0.82 | 0.72 | 0.72 |
| Hourly flow rate (vph) | 40 | 7 | 74 | 12 | 4 | 67 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | | None | | | None |
| Median storage veh) | | | 140116 | | | 140116 |
| Upstream signal (ft) | | | | | | |
| opstream signal (II) | | | | | | |
| pX, platoon unblocked | 155 | 00 | | | 00 | |
| vC, conflicting volume | 155 | 80 | | | 86 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 155 | 80 | | | 86 | |
| tC, single (s) | 6.4 | 6.2 | | | 4.1 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | |
| p0 queue free % | 95 | 99 | | | 100 | |
| cM capacity (veh/h) | 839 | 986 | | | 1523 | |
| | | | 00.4 | | | |
| Direction, Lane # | WB 1 | NB 1 | SB 1 | | | |
| Volume Total | 47 | 86 | 71 | | | |
| Volume Left | 40 | 0 | 4 | | | |
| Volume Right | 7 | 12 | 0 | | | |
| cSH | 858 | 1700 | 1523 | | | |
| Volume to Capacity | 0.05 | 0.05 | 0.00 | | | |
| Queue Length 95th (ft) | 4 | 0 | 0 | | | |
| Control Delay (s) | 9.4 | 0.0 | 0.4 | | | |
| Lane LOS | A | 0.0 | A | | | |
| Approach Delay (s) | 9.4 | 0.0 | 0.4 | | | |
| Approach LOS | 3.4 A | 0.0 | 0.4 | | | |
| | А | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 2.3 | | | |
| Intersection Capacity Utilization | n | | 15.0% | IC | U Level of | Service |
| Analysis Period (min) | | | 15 | | | |
| | | | | | | |

3: Mason Street & Parker Street

| HCM Unsignalized Inte | rsecu | on Cap | acity F | Ariarysis | 5 | | | | | | | |
|-----------------------------------|-------|----------|---------|-----------|-----------|-----------|------|------|------|----------|-------|------|
| | • | → | \sim | | + | • | 4 | + | > | \ | ı | 4 |
| | _ | - | * | * | | | ., | ı | 7 | _ | * | 7 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | |
| Traffic Volume (veh/h) | 9 | 11 | 9 | 6 | 8 | 3 | 0 | 53 | 5 | 3 | 51 | 10 |
| Future Volume (Veh/h) | 9 | 11 | 9 | 6 | 8 | 3 | 0 | 53 | 5 | 3 | 51 | 10 |
| Sign Control | 9 | Stop | e e | U | Stop | J | U | Free | Ü | 3 | Free | 10 |
| | | | | | | | | | | | | |
| Grade | | 0% | 0.00 | | 0% | 0.00 | | 0% | | 0.71 | 0% | 0.71 |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.67 | 0.67 | 0.67 | 0.64 | 0.64 | 0.64 | 0.71 | 0.71 | 0.71 |
| Hourly flow rate (vph) | 14 | 17 | 14 | 9 | 12 | 4 | 0 | 83 | 8 | 4 | 72 | 14 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| | | | | | | | | | | | Maria | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 184 | 178 | 79 | 196 | 181 | 87 | 86 | | | 91 | | |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 184 | 178 | 79 | 196 | 181 | 87 | 86 | | | 91 | | |
| | | | | | | | | | | | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.4 | | |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.5 | | |
| p0 queue free % | 98 | 98 | 99 | 99 | 98 | 100 | 100 | | | 100 | | |
| cM capacity (veh/h) | 767 | 717 | 987 | 741 | 714 | 977 | 1523 | | | 1330 | | |
| | | | | | | | , | | | | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | |
| Volume Total | 45 | 25 | 91 | 90 | | | | | | | | |
| Volume Left | 14 | 9 | 0 | 4 | | | | | | | | |
| Volume Right | 14 | 4 | 8 | 14 | | | | | | | | |
| cSH | 801 | 757 | 1523 | 1330 | | | | | | | | |
| Volume to Capacity | 0.06 | 0.03 | 0.00 | 0.00 | | | | | | | | |
| Queue Length 95th (ft) | 4 | 3 | 0.00 | 0.00 | | | | | | | | |
| Control Delay (s) | 9.8 | 9.9 | 0.0 | 0.4 | | | | | | | | |
| Control Delay (s) | | | 0.0 | | | | | | | | | |
| Lane LOS | Α | Α | | Α | | | | | | | | |
| Approach Delay (s) | 9.8 | 9.9 | 0.0 | 0.4 | | | | | | | | |
| Approach LOS | Α | Α | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.9 | | | | | | | | | |
| | | | | | U Level o | | | | | | | |
| Intersection Capacity Utilization | | | 15.8% | IC | U Level C | n service | | | A | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| | | | | | | | | | | | | |

4: Park Avenue & Winfield Street

| | | 4 | * | ~ | <u> </u> | 1 |
|-----------------------------------|------|------|------------|------|-----------|-----------|
| | • | ` | I | ~ | • | ŧ |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | | | ↑ ₽ | | | 414 |
| Traffic Volume (veh/h) | 0 | 0 | 834 | 124 | 17 | 494 |
| Future Volume (Veh/h) | 0 | 0 | 834 | 124 | 17 | 494 |
| Sign Control | Stop | | Free | | | Free |
| Grade | 0% | | 0% | | | 0% |
| Peak Hour Factor | 0.92 | 0.92 | 0.93 | 0.93 | 0.88 | 0.88 |
| Hourly flow rate (vph) | 0 | 0 | 897 | 133 | 19 | 561 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | | None | | | None |
| Median storage veh) | | | | | | |
| Upstream signal (ft) | | | | | | |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | 1282 | 515 | | | 1030 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 1282 | 515 | | | 1030 | |
| tC, single (s) | 6.8 | 6.9 | | | 4.2 | |
| tC, 2 stage (s) | 2.0 | 3.0 | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | |
| p0 queue free % | 100 | 100 | | | 97 | |
| cM capacity (veh/h) | 153 | 505 | | | 664 | |
| | | | | | 007 | |
| | NB 1 | NB 2 | SB 1 | SB 2 | | |
| Volume Total | 598 | 432 | 206 | 374 | | |
| Volume Left | 0 | 0 | 19 | 0 | | |
| Volume Right | 0 | 133 | 0 | 0 | | |
| | 1700 | 1700 | 664 | 1700 | | |
| Volume to Capacity | 0.35 | 0.25 | 0.03 | 0.22 | | |
| Queue Length 95th (ft) | 0 | 0 | 2 | 0 | | |
| Control Delay (s) | 0.0 | 0.0 | 1.3 | 0.0 | | |
| Lane LOS | | | Α | | | |
| Approach Delay (s) | 0.0 | | 0.5 | | | |
| Approach LOS | | | | | | |
| Intersection Summary | | | | | | |
| | | | 0.0 | | | |
| Average Delay | | | 0.2 | 101 | | |
| Intersection Capacity Utilization | | | 30.3% | ICI | U Level o | t Service |
| Analysis Period (min) | | | 15 | | | |

5: Winfield Street & Mason Street

| Valking Speed (ft/s) Percent Blockage Percent | ricivi orisignalized inte | ,, 30001 | on oa | Judity F | urarysi | | |
|--|---------------------------|----------|-------|----------|---------|------------|------------|
| Movement | | * | + | 1 | .1 | + | _ |
| | | ~1 | ı | * | * | | /+ |
| | Movement | NRI | NRT | SRT | SRR | NEI | NER |
| Traffic Volume (vehh) | | HUL | I TOT | A | ODIN | | HEIN |
| -uture Volume (Vehl'h) 0 68 51 0 73 5 Sign Control Free Free Stop | Troffic Volume (uph/h) | 0 | T 60 | T 51 | ٥ | | |
| Sign Control Free Free Stop Grarde 0% 0% 0% 0% 0% | | | | | | | |
| Grade 0% 20 0.92 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.94 0.9 | | U | | | U | | 5 |
| Peak Hour Factor 0.83 0.83 0.72 0.72 0.92 0.92 0.92 0.00 yr flow rate (vph) 0 82 71 0 79 5 0.00 yr flow rate (vph) 0 82 71 0 79 5 0.00 yr flow rate (vph) 0 82 71 0 79 5 0.00 yr flow rate (vph) 0 82 71 0 79 5 0.00 yr flow rate (vph) 0 90 0 90 0 90 0 90 0 90 0 90 0 90 0 | | | | | | | |
| Tourly flow rate (vph) | | | | | | | |
| Pedestrians | | | | | | | |
| .ane Width (fth) Valking Speed (ft/s) Percent Blockage Vight turn flare (veh) Vedian storage veh) Japtream signal (ft) DX, platoon unblocked CC, conflicting volume CC, stage 1 cont vol CC, stage 2 conf vol CC, stage (s) C, 2 stage (s) C, 3 stage (s) C, 2 stage (s) C, 3 stage (s) C, 3 stage (s) C, 3 stage (s) C, 4 stage (s) C, 2 stage (s) C, 3 stage (s) C, 3 stage (s) C, 3 stage (s) C, 4 stage (s) C, 3 stage (s) C, 4 stage (s) C, 3 stage (s) C, 4 stage (s) C, 5 stage (s) C, 6 stage (s) C, 6 stage (s) C, 7 stage (s) C, 8 stage (s) C, 8 stage (s) C, 8 stage (s) C, 9 stage | | 0 | 82 | 71 | 0 | 79 | 5 |
| Valking Speed (ft/s) | | | | | | | |
| Percent Blockage Value Va | Lane Width (ft) | | | | | | |
| None | Walking Speed (ft/s) | | | | | | |
| Median type | Percent Blockage | | | | | | |
| Median type | Right turn flare (veh) | | | | | | |
| Median storage veh) | Median type | | None | None | | | |
| Upstream signal (ft) SX, platoon unblocked C. conflicting volume 71 153 71 C. (1, stage 2 conf vol C. (2, stage (s) C. (3, stage 2 conf vol C. (3, stage 2 conf vol C. (4, stage 2 conf vol C. (| | | | | | | |
| 3X, platon unblocked | | | | | | | |
| /C., conflicting volume 71 153 71 (7C), stage 1 conf vol | pX. platoon unblocked | | | | | | |
| CC stage Confivol CC2 Stage CC3 | vC. conflicting volume | 71 | | | | 153 | 71 |
| /C2, stage 2 conf vol CQ, unblocked vol 71 153 71 C, single (s) 4.1 6.4 6.2 C, 2 stage (s) 5 F (s) 2.2 3.5 3.3 0 queue free % 100 91 99 Macapacity (vehrh) 1542 839 991 Direction, Lane # NB 1 SB 1 NE 1 Volume Total 82 71 84 Volume Right 0 0 79 Volume Right 0 0 5 SH 1700 1700 846 Volume Capacity 1005 0.0 0 9.7 Jueue Length 95th (ft) 0 0 8 Dorntol Delay (s) 0.0 0.9 9.7 Jane LOS A A Intersection Summary Verrage Delay Its 3.4 ItcU Level of Service Its 3.4 ItcU Level of Service Its 3.7 Its 4.7 Its 4.7 | | | | | | 100 | |
| /Cit, unblocked vol 71 153 71 C, single (s) 4.1 6.4 6.2 C, 2 stage (s) | vC2 etage 2 confivel | | | | | | |
| C, single (s) | vCu uphlocked vol | 71 | | | | 152 | 71 |
| C, 2 stage (s) F (s) | | | | | | | |
| F (s) 2.2 3.5 3.3 3.0 20 queue free % 10.0 91 99 99 M. dapacity (veh/h) 1542 839 991 991 991 991 991 991 991 991 991 9 | to, single (s) | 4.1 | | | | 0.4 | 0.2 |
| 30 queue free % 100 91 99 Mc capacity (verlvh) 1542 839 991 Direction, Lane # NB 1 SB 1 NE 1 Volume Total 82 71 84 Volume Left 0 0 79 Olume Right 0 0 5 SH 1700 1700 846 Volume to Capacity 0.05 0.04 0.10 Dueue Length 95th (ft) 0 0 8 Durtrol Delay (s) 0.0 0.9 9.7 ane LOS A A procach Delay (s) 0.0 0.9 9.7 Approach LOS A Intersection Summary Veerage Delay 3.4 Intersection Capacity Utilization 14.6% ICU Level of Service | | 0.0 | | | | 0.5 | 0.0 |
| Marcapacity (veh/h) 1542 839 991 | IF (S) | 2.2 | | | | | |
| Direction, Lane # NB 1 SB 1 NE 1 Volume Total 82 71 84 Volume Total 0 0 79 Volume Left 0 0 5 5 Volume Right 0 0 5 5 Volume Right 0 0 5 5 Volume Right 0 0 0 5 Volume Right 0 0 0 8 Volume Right 0 0 0 9 7 Volume Right 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 0 0 9 7 Volume Right 0 0 0 0 0 0 0 0 0 0 0 Volume Right 0 0 0 0 0 0 0 0 0 0 Volume Right 0 0 0 0 0 0 0 0 0 0 Volume Right 0 0 0 0 0 0 0 0 0 0 Volume Right 0 0 0 0 0 | | | | | | | |
| Volume Total 82 71 84 Volume Itel 0 0 79 Volume Right 0 0 5 SH 1700 1700 846 Volume Right 0 0 8 SH 0 0 0 5 Volume Right 0 0 0 5 Volume Right 0 0 0 8 Volume Right 0 0 0 9.7 Volume Right 0 0 0 0 9.7 Volume Right 0 0 0 0 9.7 Volume Right 0 0 0 0 0 9.7 Volume Right 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | cM capacity (veh/h) | 1542 | | | | 839 | 991 |
| Volume Total 82 71 84 Volume Itel 0 0 79 Volume Right 0 0 5 SH 1700 1700 846 Volume Right 0 0 0 8 SH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Direction, Lane # | NB 1 | SB 1 | NE 1 | | | |
| Volume Left 0 0 79 Volume Right 0 0 5 SSH 1700 1700 846 Volume to Capacity 0.05 0.04 0.10 Queue Length 95th (ft) 0 0 8 Control Delay (s) 0.0 0,0 9.7 ane LOS A Approach Delay (s) 0.0 0,0 9.7 Approach LOS A Intersection Summary Verage Delay Tersection Capacity Utilization 14.6% ICU Level of Service | | | | | | | |
| Volume Right 0 0 5 SISHE Right 1700 1700 846 Volume to Capacity 0.05 0.04 0.10 Queue Length 95th (ft) 0 0 8 Ontrol Delay (s) 0.0 0.0 9.7 a.ne LOS A Approach Delay (s) 0.0 0.0 9.7 Approach LOS A Intersection Summary Verage Delay 3.4 Intersection Capacity Utilization 14.6% ICU Level of Service | | | | | | | |
| 1700 | | | | | | | |
| Volume to Capacity | -ou | | | | | | |
| Dueue Length 95th (ft) 0 8 Control Delay (s) 0.0 0.0 9.7 ane L OS A A Approach Delay (s) 0.0 0.9 7 Approach DCS A A Intersection Summary 3.4 ICU Level of Service Herrsection Capacity Utilization 14.6% ICU Level of Service | | | 0.04 | | | | |
| Control Delay (s) | | | | | | | |
| Ane LOS | Queue Length 95th (II) | | | | | | |
| Approach Delay (s) 0.0 0.0 9.7 Approach LOS A A Intersection Summary 3.4 ICU Level of Service Average Delay 3.4 ICU Level of Service | | 0.0 | 0.0 | | | | |
| Approach LOS A Intersection Summary 3.4 Average Delay 3.4 Intersection Capacity Utilization 14.6% ICU Level of Service | | | | | | | |
| Average Delay 3.4 Intersection Capacity Utilization 14.6% ICU Level of Service | Approach Delay (s) | 0.0 | 0.0 | | | | |
| Average Delay 3.4 ntersection Capacity Utilization 14.6% ICU Level of Service | Approach LOS | | | A | | | |
| Average Delay 3.4 ntersection Capacity Utilization 14.6% ICU Level of Service | Intersection Summary | | | | | | |
| ntersection Capacity Utilization 14.6% ICU Level of Service | | | | 3.4 | | | |
| | | | | | 10 | III ovol ~ | f Conice |
| niaiyolo i ciliu (iliii) | | | | 14.0 /6 | IC | O FEASI O | i Oci VICE |
| | Analysis Fellou (IIIIII) | | | 10 | | | |

1: Mason Street & Chandler Street

| JUULI | on oap | acity r | uiuiyai | | | | | | | | |
|-------|--|---|-----------------|--|-----------------------------|-----------------------------------|---|---|--|--|---|
| • | | ~ | _ | - | • | • | † | , | | 1 | 4 |
| - | _ | • | • | | - | , | 1 | 1 | - | • | |
| EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| | 414 | | | | | | | | | 414 | |
| 27 | | 12 | 54 | | 28 | 5 | | 125 | 19 | | 28 |
| | | | | | | | | | | | 28 |
| 21 | | 12 | J*4 | | 20 | J | | 123 | 13 | | 20 |
| | | | | | | | | | | | |
| 0.00 | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | |
| | | | | | | | | | | | 0.87 |
| 29 | 625 | 13 | 56 | 832 | 29 | 6 | 48 | 152 | 22 | 74 | 32 |
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| | | | | | | | | | | | |
| 861 | | | 638 | | | 1286 | 1662 | 319 | 1505 | 1654 | 430 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 861 | | | 638 | | | 1286 | 1662 | 319 | 1505 | 1654 | 430 |
| | | | | | | | | | | | 6.9 |
| 7.1 | | | 7.1 | | | 7.0 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 |
| 2.2 | | | 2.2 | | | 2.5 | 4.0 | 2.2 | 2.5 | 4.0 | 3.3 |
| | | | | | | | | | | | |
| | | | | | | | | | | | 94 |
| 789 | | | 956 | | | 34 | 89 | 677 | 35 | 90 | 579 |
| FR 1 | FB 2 | WR 1 | WR 2 | NR 1 | SB 1 | | | | | | |
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| | | | | | | | | | | | |
| 0.04 | | | | | | | | | | | |
| 3 | 0 | 5 | 0 | 200 | 252 | | | | | | |
| 1.2 | 0.0 | 1.7 | 0.0 | 92.0 | 361.8 | | | | | | |
| | | | | F | F | | | | | | |
| | | | | | | | | | | | |
| 0.0 | | 0.9 | | | | | | | | | |
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| | | 34.7 | | | | | | | | | |
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| | | | IU | O LEVEL O | n Service | | | U | | | |
| | | 15 | | | | | | | | | |
| | 27 27 27 0.93 29 861 4.1 2.2 96 789 EB 1 342 29 0 0,04 | EBL EBT Free OVA 10.93 0.93 2.9 625 None 861 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4. | BEL EBT EBR | EBL EBT EBR WBL 27 581 12 54 Free 0% 0.93 0.93 0.93 0.96 29 625 13 56 None 861 638 4.1 4.1 4.1 2.2 2.2 9.6 94 789 956 EB1 EB2 WB1 WB2 342 326 472 445 29 0 56 0 0 13 0 29 789 1700 956 1700 0.04 0.19 0.06 0.26 3 0 5 0 1.2 0.0 1.7 0.0 A A A O.6 0.9 | BEL EBT EBR WBL WBT | BEL EBT EBR WBL WBT WBR | BEL EBT EBR WBL WBT WBR NBL | BEL EBT EBR WBL WBT WBR NBL NBT | EBL EBT EBR WBL WBT WBR NBL NBT NBR 4 | EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 4Th | EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT |

2: Mason Street & Bluff Street

| HCM Unsignalized | IIILEISECII | on our | doity 7 | andryolo | | | |
|---------------------------------|-------------|--------|---------|----------|------------|----------|---|
| | • | • | † | ~ | \ | ↓ | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | W | | 12 | | | 4 | |
| Traffic Volume (veh/h) | 26 | 10 | 71 | 12 | 6 | 120 | |
| uture Volume (Veh/h) | 26 | 10 | 71 | 12 | 6 | 120 | |
| Sign Control | Stop | 10 | Free | 12 | | Free | |
| Grade | 0% | | 0% | | | 0% | |
| Peak Hour Factor | 0.75 | 0.75 | 0.87 | 0.87 | 0.91 | 0.91 | |
| lourly flow rate (vph) | 35 | 13 | 82 | 14 | 7 | 132 | |
| edestrians | აი | 13 | 02 | 14 | - / | 132 | |
| | | | | | | | |
| ane Width (ft) | | | | | | | |
| Valking Speed (ft/s) | | | | | | | |
| ercent Blockage | | | | | | | |
| tight turn flare (veh) | | | | | | | |
| ledian type | | | None | | | None | |
| Median storage veh) | | | | | | | |
| Ipstream signal (ft) | | | | | | | |
| X, platoon unblocked | | | | | | | |
| C, conflicting volume | 235 | 89 | | | 96 | | |
| C1, stage 1 conf vol | | | | | | | |
| C2, stage 2 conf vol | | | | | | | |
| Cu, unblocked vol | 235 | 89 | | | 96 | | |
| C, single (s) | 6.4 | 6.2 | | | 4.1 | | |
| C, 2 stage (s) | | | | | | | |
| F (s) | 3.5 | 3.3 | | | 2.2 | | |
| 0 queue free % | 95 | 99 | | | 100 | | |
| M capacity (veh/h) | 745 | 975 | | | 1510 | | |
| | | NB 1 | SB 1 | | 1010 | | |
| irection, Lane # olume Total | WB 1 48 | 96 | 139 | | | | |
| | | | 139 | | | | |
| olume Left | 35 | 0 | | | | | |
| olume Right | 13 | 14 | 0 | | | | |
| SH | 796 | 1700 | 1510 | | | | |
| olume to Capacity | 0.06 | 0.06 | 0.00 | | | | |
| Queue Length 95th (ft) | 5 | 0 | 0 | | | | |
| Control Delay (s) | 9.8 | 0.0 | 0.4 | | | | |
| ane LOS | Α | | Α | | | | |
| pproach Delay (s) | 9.8 | 0.0 | 0.4 | | | | |
| Approach LOS | Α | | | | | | |
| ntersection Summary | | | | | | | |
| Verage Delay | | | 1.9 | | | | |
| Intersection Capacity Utilizat | ion | | 21.2% | ICU | J Level of | Service | A |
| Analysis Period (min) | | | 15 | | | | |

3: Mason Street & Parker Street

| HCM Unsignalized in | tersecti | on Cap | acity P | Marysis | • | | | | | | | | | | |
|-------------------------------|----------|--------|----------|---------|-----------|-----------|------|------|------|----------|------|------|--|--|--|
| | • | - | \ | 1 | - | * | • | ŧ | > | \ | 1 | 4 | | | |
| | | | • | • | | | ٠, | ' | • | | | | | | |
| vement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | | | |
| ne Configurations | | 4 | | | 4 | | | 4 | | | 4 | | | | |
| affic Volume (veh/h) | 11 | 15 | 6 | 4 | 14 | 2 | 4 | 70 | 5 | 6 | 112 | 17 | | | |
| ure Volume (Veh/h) | 11 | 15 | 6 | 4 | 14 | 2 | 4 | 70 | 5 | 6 | 112 | 17 | | | |
| gn Control | | Stop | | | Stop | | | Free | | | Free | | | | |
| ade | | 0% | | | 0% | | | 0% | | | 0% | | | | |
| ak Hour Factor | 0.83 | 0.83 | 0.83 | 0.59 | 0.59 | 0.59 | 0.85 | 0.85 | 0.85 | 0.92 | 0.92 | 0.92 | | | |
| rly flow rate (vph) | 13 | 18 | 7 | 7 | 24 | 3 | 5 | 82 | 6 | 7 | 122 | 18 | | | |
| estrians | 10 | 10 | | | 2.4 | | | 02 | | | 122 | 10 | | | |
| Width (ft) | | | | | | | | | | | | | | | |
| ng Speed (ft/s) | | | | | | | | | | | | | | | |
| ent Blockage | | | | | | | | | | | | | | | |
| nt turn flare (veh) | | | | | | | | | | | | | | | |
| | | | | | | | | None | | | None | | | | |
| ian type | | | | | | | | None | | | None | | | | |
| ian storage veh) | | | | | | | | | | | | | | | |
| stream signal (ft) | | | | | | | | | | | | | | | |
| platoon unblocked | | | | | | | | | | | | | | | |
| conflicting volume | 255 | 243 | 131 | 256 | 249 | 85 | 140 | | | 88 | | | | | |
| stage 1 conf vol | | | | | | | | | | | | | | | |
| stage 2 conf vol | | | | | | | | | | | | | | | |
| unblocked vol | 255 | 243 | 131 | 256 | 249 | 85 | 140 | | | 88 | | | | | |
| ingle (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.1 | | | | | |
| 2 stage (s) | | | | | | | | | | | | | | | |
| | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.2 | | | | | |
| ueue free % | 98 | 97 | 99 | 99 | 96 | 100 | 100 | | | 100 | | | | | |
| apacity (veh/h) | 676 | 657 | 924 | 677 | 652 | 980 | 1456 | | | 1520 | | | | | |
| on, Lane # | EB 1 | WB 1 | NB 1 | SB 1 | | | | | | | | | | | |
| Total | 38 | 34 | 93 | 147 | | | | | | | | | | | |
| ne Left | 13 | 7 | 5 | 7 | | | | | | | | | | | |
| me Right | 7 | 3 | 6 | 18 | | | | | | | | | | | |
| | 701 | 677 | 1456 | 1520 | | | | | | | | | | | |
| ume to Capacity | 0.05 | 0.05 | 0.00 | 0.00 | | | | | | | | | | | |
| ue Length 95th (ft) | 4 | 4 | 0.00 | 0.00 | | | | | | | | | | | |
| rol Delay (s) | 10.4 | 10.6 | 0.4 | 0.4 | | | | | | | | | | | |
| e LOS | В | В | Α. | Α. | | | | | | | | | | | |
| oach Delay (s) | 10.4 | 10.6 | 0.4 | 0.4 | | | | | | | | | | | |
| oach LOS | В | В | 0.4 | 0.4 | | | | | | | | | | | |
| rsection Summary | | | | | | | | | | | | | | | |
| age Delay | | | 2.7 | | | | | | | | | | | | |
| rsection Capacity Utilization | 1 | | 19.0% | IC | U Level o | f Service | | | Α | | | | | | |
| alysis Period (min) | | | 15.076 | 10 | O LOVEI O | i Ou VICE | | | | | | | | | |
| | | | | | | | | | | | | | | | |

4: Park Avenue & Winfield Street

| HCM Unsignalized in | | _ | | | | | |
|------------------------------|------|------|-------------|------|------------|---------|---|
| | • | • | † | ~ | \ | 1 | |
| vement | WBL | WBR | NBT | NBR | SBL | SBT | |
| ne Configurations | | | † 1> | | | 44 | |
| fic Volume (veh/h) | 0 | 0 | 710 | 77 | 9 | 953 | |
| ire Volume (Veh/h) | 0 | 0 | 710 | 77 | 9 | 953 | |
| n Control | Stop | | Free | - '' | | Free | |
| de | 0% | | 0% | | | 0% | |
| ak Hour Factor | 0.92 | 0.92 | 0.97 | 0.97 | 0.96 | 0.96 | |
| rly flow rate (vph) | 0.32 | 0.32 | 732 | 79 | 9 | 993 | |
| lestrians | U | U | 102 | 13 | 3 | 333 | |
| Width (ft) | | | | | | | |
| ng Speed (ft/s) | | | | | | | |
| ig opeed (IVS) | | | | | | | |
| ent Blockage | | | | | | | |
| turn flare (veh) | | | No. | | | Maria | |
| lian type | | | None | | | None | |
| ian storage veh) | | | | | | | |
| ream signal (ft) | | | | | | | |
| latoon unblocked | | | | | | | |
| onflicting volume | 1286 | 406 | | | 811 | | |
| stage 1 conf vol | | | | | | | |
| stage 2 conf vol | | | | | | | |
| unblocked vol | 1286 | 406 | | | 811 | | |
| ingle (s) | 6.8 | 6.9 | | | 4.1 | | |
| stage (s) | | | | | | | |
|) | 3.5 | 3.3 | | | 2.2 | | |
| ueue free % | 100 | 100 | | | 99 | | |
| apacity (veh/h) | 157 | 600 | | | 824 | | |
| tion, Lane # | NB 1 | NB 2 | SB 1 | SB 2 | • | | |
| ne Total | 488 | 323 | 340 | 662 | | | |
| ne Left | 0 | 0 | 9 | 002 | | | |
| ne Right | 0 | 79 | 0 | 0 | | | |
| ne rugiit | 1700 | 1700 | 824 | 1700 | | | |
| I ime to Capacity | 0.29 | 0.19 | 0.01 | 0.39 | | | |
| | 0.29 | 0.19 | 0.01 | | | | |
| ue Length 95th (ft) | | | | 0 | | | |
| rol Delay (s) | 0.0 | 0.0 | 0.4 | 0.0 | | | |
| LOS | | | Α | | | | |
| oach Delay (s) | 0.0 | | 0.1 | | | | |
| oach LOS | | | | | | | |
| section Summary | | | | | | | |
| je Delay | | | 0.1 | | | | |
| | | | | | | | |
| section Capacity Utilization | | | 36.0% | ICL | J Level of | Service | A |

5: Winfield Street & Mason Street

| TION Officignalized life | | | | | | |
|---|------|------|-----------|------|-----------|------------|
| | | Ť | 1 | 1 | | _ |
| | 1 | - 1 | ¥ | ليو | • | 4 |
| | NDI | NOT | ODT | ODD | NE | NED |
| Movement | NBL | NBT | SBT | SBR | NEL | NER |
| Lane Configurations | | | ↑ | | Y | |
| Traffic Volume (veh/h) | 0 | 87 | 126 | 0 | 83 | 6 |
| Future Volume (Veh/h) | 0 | 87 | 126 | 0 | 83 | 6 |
| Sign Control | | Free | Free | | Stop | |
| Grade | | 0% | 0% | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.90 | 0.90 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 0.32 | 95 | 140 | 0.50 | 90 | 7 |
| Pedestrians | U | 33 | 140 | U | 30 | , |
| | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | None | None | | | |
| Median storage veh) | | | | | | |
| Upstream signal (ft) | | | | | | |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | 140 | | | | 235 | 140 |
| vC1, stage 1 conf vol | | | | | 200 | |
| vC2, stage 2 conf vol | | | | | | |
| vC2, stage 2 cont voi vCu, unblocked vol | 140 | | | | 235 | 140 |
| | | | | | | |
| tC, single (s) | 4.1 | | | | 6.4 | 6.2 |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 |
| p0 queue free % | 100 | | | | 88 | 99 |
| cM capacity (veh/h) | 1456 | | | | 753 | 908 |
| Discretica Lara # | ND 4 | CD f | NIT 4 | _ | | |
| Direction, Lane # | NB 1 | SB 1 | NE 1 | | | |
| Volume Total | 95 | 140 | 97 | | | |
| Volume Left | 0 | 0 | 90 | | | |
| Volume Right | 0 | 0 | 7 | | | |
| cSH | 1700 | 1700 | 763 | | | |
| Volume to Capacity | 0.06 | 0.08 | 0.13 | | | |
| Queue Length 95th (ft) | 0 | 0 | 11 | | | |
| Control Delay (s) | 0.0 | 0.0 | 10.4 | | | |
| Lane LOS | 3.0 | 0.0 | В | | | |
| Approach Delay (s) | 0.0 | 0.0 | 10.4 | | | |
| Approach LOS | 0.0 | 0.0 | 10.4 B | | | |
| Approach LOS | | | В | | | |
| Intersection Summary | | | _ | | | |
| Average Delay | | | 3.0 | | | |
| Intersection Capacity Utilization | | | 18.3% | ıc | U Level o | f Consiso |
| Analysis Period (min) | | | 15.3 % | IC | O FEASI O | 1 061 1108 |
| Analysis Fellou (IIIIII) | | | 10 | | | |
| | | | | | | |



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