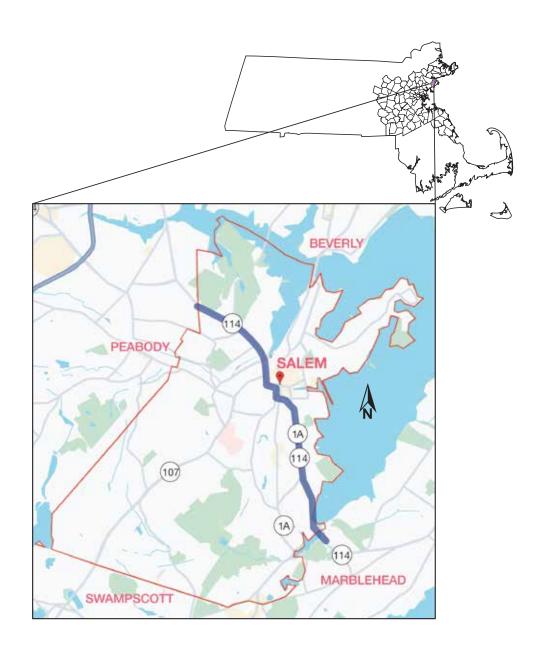


Route 114 Corridor Study City of Salem

December 2025



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Abstract

The Boston Region Metropolitan Planning Organization's (MPO) corridor studies are conducted through the Multimodal Mobility Infrastructure Program. The program aims to support a safe, accessible, and multimodal regional transportation system by addressing issues of safety, congestion, and multimodal mobility and accessibility. Staff to the MPO prioritized Route 114 in the City of Salem for study after considering several factors, including the need to address poor safety conditions and the desire to enhance multimodal transportation in that location. This report outlines the existing conditions, assesses safety and operational issues, proposes improvements, and identifies funding programs for implementing projects. The potential improvements, if implemented, would enhance safety, multimodal transportation service, and traffic operations, thereby supporting the residents, local businesses, and schools along the corridor.

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Executive Summary

ES.1 BACKGROUND

This study was conducted through the Boston Region Metropolitan Planning Organization's (MPO) Multimodal Mobility Infrastructure Program (MMIP). The program aims to support a safe, accessible, and multimodal regional transportation system by addressing issues of safety, congestion, and multimodal mobility and accessibility. The program has three focus areas:

- Site-specific studies that are designed for communities to address transportation needs in corridors, intersections, and curbs
- Regional studies that explore ways to shift more people from driving to taking transit, walking, or biking
- Capacity-building studies that develop tools for communities to carry out small-scale studies, such as guides and best practices

The MPO has committed to funding corridor studies over the past decade, demonstrating its long-term dedication to improving safety and multimodal transportation. Many of the recommendations from the corridor studies have been implemented, as they provide municipalities, the Massachusetts Department of Transportation (MassDOT), and stakeholders with the necessary information to address deficiencies in the corridors before committing to the design and engineering of projects.

The MPO staff selected Route 114 in the City of Salem as the subject of a corridor study in the federal fiscal year 2025. When evaluating locations for study, the Route 114 corridor scored highly among several corridors due to the high incidence of crashes involving vehicles and vulnerable road users (such as pedestrians, bicyclists, and people using mobility devices), operational problems such as speeding and congestion, and transportation modes along the corridor that require infrastructure upgrades.

ES.2 COMMUNITY ENGAGEMENT

Stakeholder participation was a crucial part of the study. MPO staff employed several methods to engage stakeholders, to gather local community perceptions regarding safety, operations, and infrastructure conditions, and to explore ideas for improvements. The engagement strategies included participatory mapping and a community survey that received 684 responses, gathering information about transportation concerns and ideas for improvement. Staff also attended several staff meetings at the City of Salem and three advisory committee meetings.

ES.3 EXISTING CONDITIONS AND NEEDS ASSESSMENT

With the assistance of the City of Salem and MassDOT, MPO staff collected and assembled a wide range of data to assess existing conditions, launched a community survey to identify transportation concerns, and considered the results of safety analyses conducted through the MPO's and the City of Salem's Vision Zero programs. This process ensured that the recommendations were well-informed and that all relevant perspectives were considered.

Key concerns focus on safety and the high number of crashes involving vehicles and vulnerable road users that have occurred on the corridor, roadway segments where speeding has been an issue, poor infrastructure conditions, and infrastructure that is not compliant with the Americans with Disabilities Act (ADA). Other concerns include operational issues, such as congestion and queuing, and a lack of protection for users in bike lanes.

ES.4 RECOMMENDED IMPROVEMENTS

MPO staff developed short-, mid-, and long-term improvements to address the needs in the corridor. The short-term improvements are generally low-cost and relatively uncomplicated to implement. They would require minimal design efforts and typically take fewer than three years to complete. The mid-term improvements are medium cost, requiring minimal design efforts, and would take about three to five years to implement. The long-term improvements are generally costly, requiring more design and engineering efforts, and would typically take more than five years to implement.

The short-term improvements include implementing repairs to comply with ADA standards, enhancing intersection and crosswalk visibility, and improving signage and pavement markings. The mid-term improvements include adding retroreflective backplates to enhance the visibility of signals, upgrading signal equipment and features, and improving sidewalks. The long-term improvements include modernizing intersections and roadway segments to enhance safety and multimodal transportation, typically within a Complete Streets framework.

ES.5 CONCLUSION

The recommendations developed in this study provide the City of Salem and stakeholders with an opportunity to review the potential improvements for addressing deficiencies before committing design and engineering funds to improvement projects in the corridor. The City of Salem could package recommendations included in this report into projects and then coordinate with the Boston Region MPO and MassDOT to identify funding sources for the

projects. If implemented, the suggested improvements would enhance traffic safety and operations for all users.

Chapter 1—Introduction

1.1 STUDY ORIGIN

The Boston Region Metropolitan Planning Organization (MPO) has been conducting studies of roadway corridors identified through the Multimodal Mobility Infrastructure Program as needing improvements to address issues of safety, congestion, and multimodal mobility and accessibility The studies aim to build consensus among stakeholders and engage them in planning for a safe, multimodal transportation system.

Study recommendations are sent to implementing agencies, which may fund projects through various federal, state, and local sources, either separately or in combination. Municipalities and the Massachusetts Department of Transportation (MassDOT) have been receptive to these studies, which offer an opportunity to review options for improving a specific corridor before allocating design and engineering funds. The study documentation can help project proponents complete MassDOT's project initiation forms, justify the need for improvements, and facilitate the design and engineering process.

Many MPO-studied corridors have advanced into projects, are currently under construction, or have already been implemented. The map in Figure 1 shows the communities where corridor studies have occurred.

1.2 REPORT ORGANIZATION

This report is organized into four chapters. Chapter 1 provides an overview of the Boston Region MPO's corridor studies, including the selection process for choosing locations to study, goals and objectives, and community engagement efforts. Chapter 2 outlines the characteristics of Route 114 and the context of the study area, describes the data collection and existing condition assessments that informed the study, and discusses the need for improvements to infrastructure and operations. Chapter 3 outlines short-, mid-, and long-term improvements aligned with the corridor's transportation needs, along with their safety and operational advantages. Chapter 4 explains the project development and implementation process, including how to incorporate potential improvements into projects and secure funding to implement them.

1.3 CORRIDOR SELECTION PROCESS

The approach to MPO corridor studies starts with defining a universe of corridors. The MPO staff reach out to municipalities, subregional committees, and other stakeholders to identify corridors of concern. Staff also review the MPO's Long-Range Transportation Planning (LRTP) Needs Assessment and the Congestion

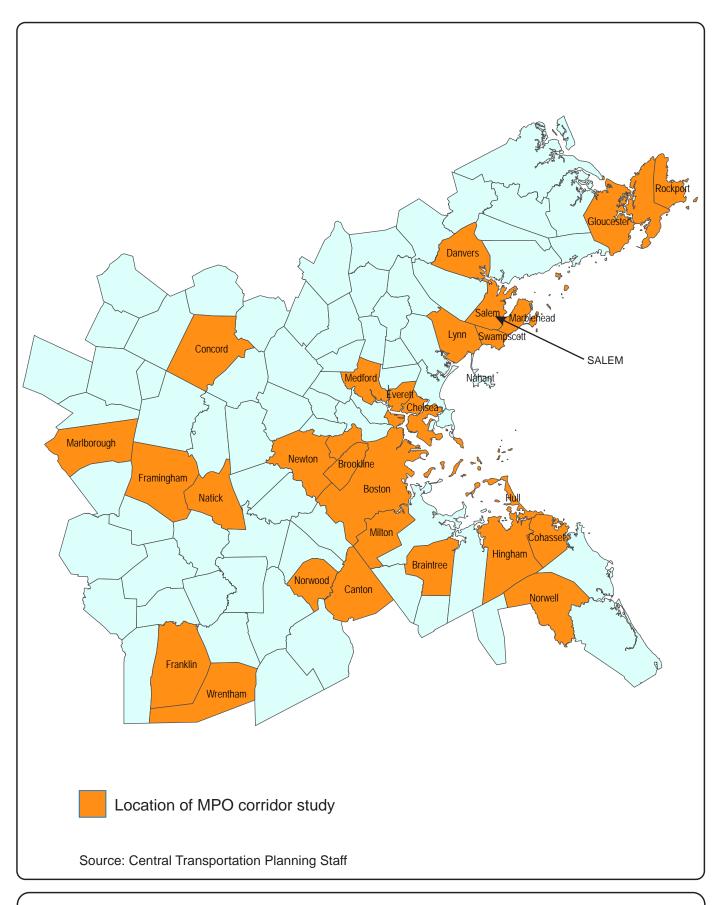




Figure 1
Corridor Study Locations

Management Process, and consult the MassDOT Impact Portal and other tools to pinpoint corridors of interest. Once the universe of corridors is defined, staff screen the study locations using established criteria, such as the Transportation Improvement Program (TIP) scoring process. Corridors are then prioritized based on safety conditions, congestion levels, multimodal importance, regional significance, transportation equity, geographical distribution, and potential for implementation of projects. A corridor is then selected for study, considering feedback from agencies, municipalities, and stakeholders. After selecting a study location, an advisory committee is formed to guide the study, consisting of representatives from the municipality, MassDOT, business chambers of commerce, major employers, and educational institutions.

Following the above selection process, Route 114 in Salem was chosen for study in federal fiscal year 2025. The study location was selected from a list of 43 arterial segments across 33 municipalities in the Boston Region MPO area. The City of Salem, MassDOT, and Salem State University (SSU) supported the study by gathering the necessary data for the analyses and reviewing the study documents.

1.4 GOALS AND OBJECTIVES

The MPO committed to studying Route 114 in Salem to address safety and operational concerns. The high rate of crashes involving vehicles, pedestrians, and bicyclists, operational problems such as speeding, congestion, and poor infrastructure have been impacting users. Therefore, the goals and objectives of the study focused on improving conditions for users by increasing safety and upgrading infrastructure for walking, biking, driving, and transit.

1.5 COMMUNITY ENGAGEMENT

Stakeholder participation is a crucial element of any MPO-sponsored study. An advisory committee comprising staff from the City of Salem, MassDOT, the Massachusetts Bay Transportation Authority (MBTA), the Saltonstall School, and SSU was formed to guide the project. MPO staff convened the advisory committee to launch the study. During the kickoff meeting, staff outlined the purpose and needs, scope of work, tasks, deliverables, and timeline. In subsequent meetings, staff presented the existing conditions and survey results, highlighted corridor needs and potential improvements, and collected feedback. Staff also launched an interactive mapping survey to assess public opinions on transportation issues and gather ideas for solutions. This report incorporates the advisory committee's feedback. Appendix A provides a list of advisory committee members and their review comments.

Chapter 2—Existing Conditions

2.1 STUDY AREA

Salem is a well-established suburban community located 16 miles north of Boston with approximately 45,000 residents and a diverse business sector. Salem's multimodal transportation system offers public transit options connecting to nearby communities and Boston. Commuter rail service is available at the MBTA's Salem Station on the Newburyport/Rockport Line, and there are five local and express bus routes, as well as a seasonal ferry service to Boston. For transportation planning purposes, the City of Salem is a member of the Metropolitan Area Planning Council's North Shore Task Force.

Figure 2 illustrates the study area along with nearby communities and streets. The study corridor is a three-mile segment of Route 114, stretching from the Peabody city line to the Marblehead town line. This two-lane, two-way roadway widens to include turn lanes at signalized intersections and is open to all traffic, including trucks, serving both regional and local travelers. In the northern part, the roadway is called North Street and Summer Street; in the middle, Norman Street and Washington Street; and in the south, Lafayette Street. Figure 3 illustrates these segments.

The character and context of the roadway change along these segments of the corridor, as it accommodates multiple modes of transportation (walking, biking, driving, and transit) and provides access to areas with diverse land uses (residential, educational, recreational, and commercial). It is bordered by dense residential and commercial development. Residents in the area include a significant low-income and minority population, including people with limited English proficiency. The roadway directly connects to SSU, Saltonstall School, Salem Station, and downtown Salem.

This section of Route 114 is primarily a city-owned principal arterial that is part of the National Highway System, thus highway projects on it are eligible for federal and state funding. The Massachusetts Department of Transportation (MassDOT) owns the section with the North Street Bridge overpass and the section of North Street that goes over the North River culvert.

2.2 NORTH STREET SEGMENT

The northern part of the corridor is surrounded by dense residential areas and a mix of commercial and recreational spaces near the downtown area. This segment has the highest traffic volume in the corridor. Approximately 28,000 vehicles travel the corridor daily between Federal and Mason Streets, making

direct connections to Route 107, the MBTA station, downtown, and Peabody. There are continuous sidewalks and bike lanes on both sides of the corridor.

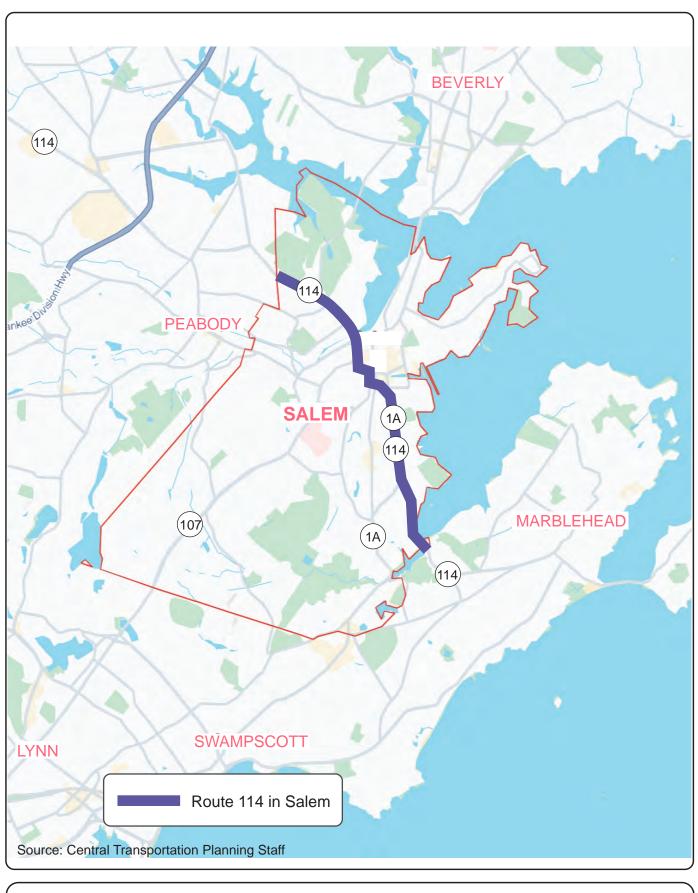




Figure 2 Study Area





Figure 3
Route 114 Segments

This segment has four signalized intersections at School Street, Mason Street, Federal Street, and Essex Street. An emergency traffic signal has been installed at the fire station near Dearborn Street. All crosswalks across North Street are marked, and pedestrian-activated signals control those with traffic signals. Dedicated pedestrian signals are present at the crosswalks near the intersections of Liberty Hill Avenue and Oakland Street, and rectangular rapid flashing beacons (RRFBs) are installed for the crosswalks near the intersections of Dearborn Street and Cressy Avenue.

MBTA bus Route 435 operates along this segment.

2.3 NORMAN AND WASHINGTON STREETS SEGMENT

The middle section of the corridor is surrounded by a mix of residential, commercial, and institutional buildings and developments in the downtown area. Approximately 15,000 vehicles travel daily on Norman Street, while approximately 30,000 vehicles use the busiest part of Washington Street, primarily due to its proximity to the MBTA station and downtown area.

Both sides of the roadway in this segment have continuous sidewalks and bike lanes, along with crosswalks marked and managed by pedestrian-activated signals, RRFBs, or pedestrian signs. There are two signalized intersections—at New Derby Street and Mill Street/Canal Street—and a mini roundabout at Norman and Summer Streets.

MBTA bus Routes 451 and 455 run along a portion of this segment.

2.4 LAFAYETTE STREET SEGMENT

A mix of residential and educational buildings surround the southern part of the corridor. This segment carries approximately 14,000 to 18,000 vehicles daily. Sidewalks and bike lanes are on both sides of the roadway.

This segment has two signalized intersections, located at Dow Street and Loring Avenue, as well as two pedestrian signals, one at Leach Street and another at Ocean Avenue. All crosswalks across Lafayette Street are marked and controlled by pedestrian-activated signals, RRFBs, or pedestrian crossing signs.

MBTA bus Route 455 runs through part of this segment.

2.5 DATA COLLECTION

A comprehensive data collection plan was developed, encompassing the gathering of data from existing databases maintained by the City of Salem,

MassDOT, MBTA, and the MPO for analysis. The data included relevant information about roadway users (people walking, biking, driving, and using transit), infrastructure conditions (sidewalks, crosswalks, traffic signals, streetlights, and parking), and operations (crashes, speeds, delays, and queues).

MassDOT collected data on traffic volumes, vehicle speeds, and the mix of vehicles, pedestrians, and bicyclists using the corridor. Daily traffic volumes were measured continuously at 24 sites over three consecutive days, from Tuesday, March 25 to Friday, March 28, 2025. Intersection turning movement counts (TMCs) were recorded at 16 intersections on Tuesday, March 25, 2025, including counts of pedestrians, bicycles, and trucks. The TMC counts were conducted during the weekday morning peak (6:00 AM to 9:00 AM) and afternoon peak (3:00 PM to 6:00 PM). The traffic and speed data are included in Appendix B.

2.5.1 Walking and Biking Volumes

Figures 4 and 5 display pedestrian and bicycle volumes at selected intersections during peak travel times. Pedestrian volumes at the intersections ranged from 93 to 672, with the highest numbers near downtown on North Street, Washington Street, and Lafayette Street. Bicycle volumes during the same period ranged from 14 to 43, with the highest recorded on Washington Street. These volumes could be higher at other times of the year, as the counts were taken during a period of cold weather in March.

2.5.2 Vehicle Volumes

Figure 6 displays the average daily traffic volumes on segments of Route 114 and on selected side streets. The average daily traffic on the corridor ranged from 14,000 to 28,000 vehicles per day. The highest traffic volumes were recorded on the four-lane stretch of North Street between Federal and Mason Streets. The lowest volumes were recorded on the segment near the town line of Marblehead. Figure 7 shows the turning-movement volumes at the 16 intersections during weekday morning and afternoon peak travel hours. The volumes of pedestrians observed at each intersection during the peak periods are also shown.

2.5.3 Bus and Commuter Rail Ridership

Information from 2023 on transit ridership and operating service performance was obtained from the MBTA. The average number of weekday boardings at all bus stops in Salem for the five MBTA bus routes (Routes 435, 450, 451, 455, and 456) that run along portions of Route 114, is 1,242 riders. For the commuter rail, the average is 2,326 riders.

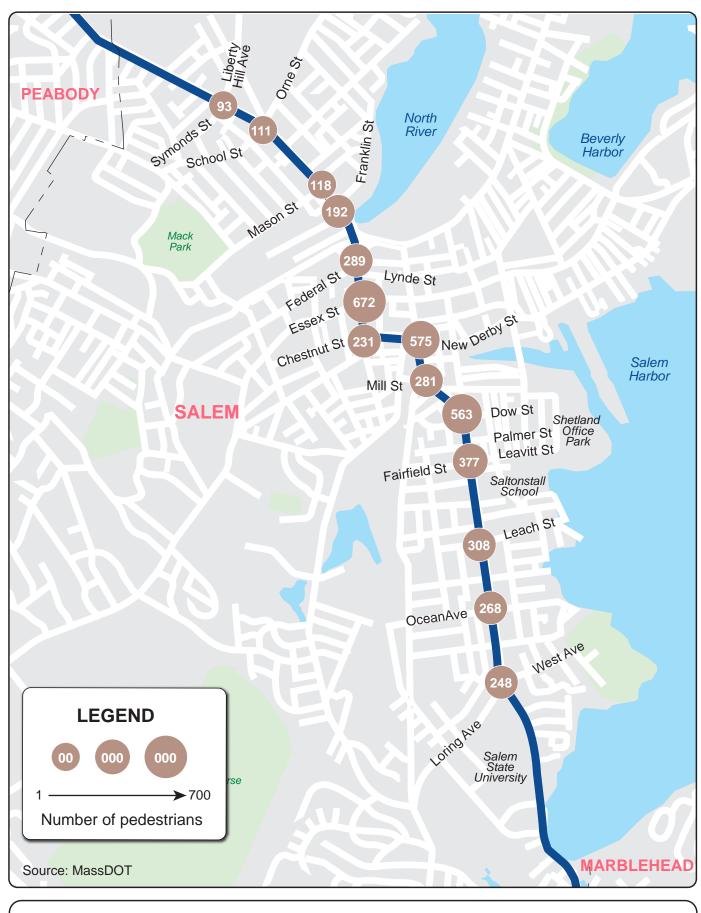




Figure 4
Peak Period Pedestrian Volumes
(Weekday: 6:00 - 9:00 AM and 3:00 - 6:00 PM)

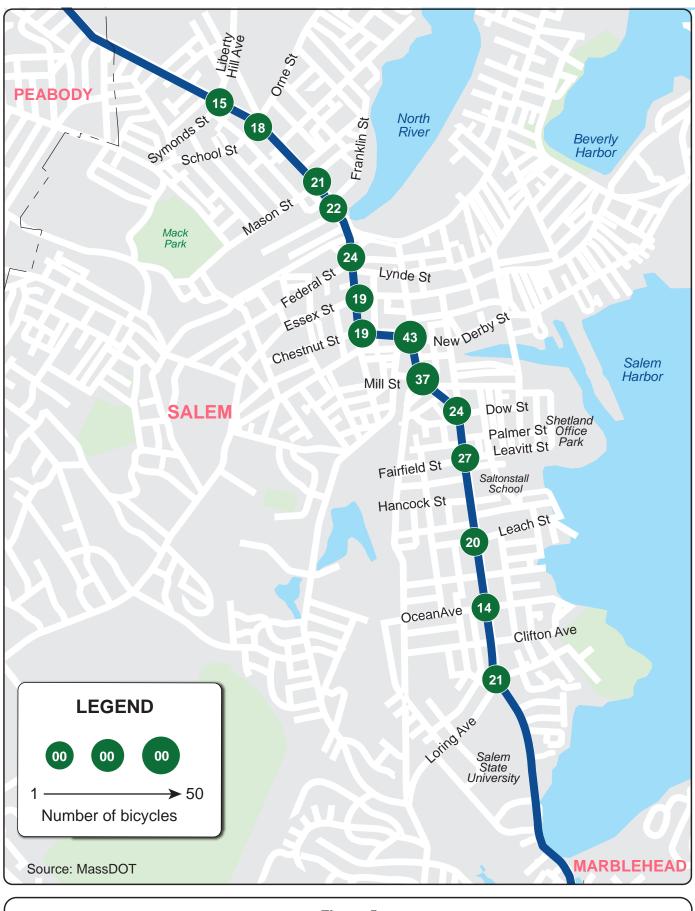
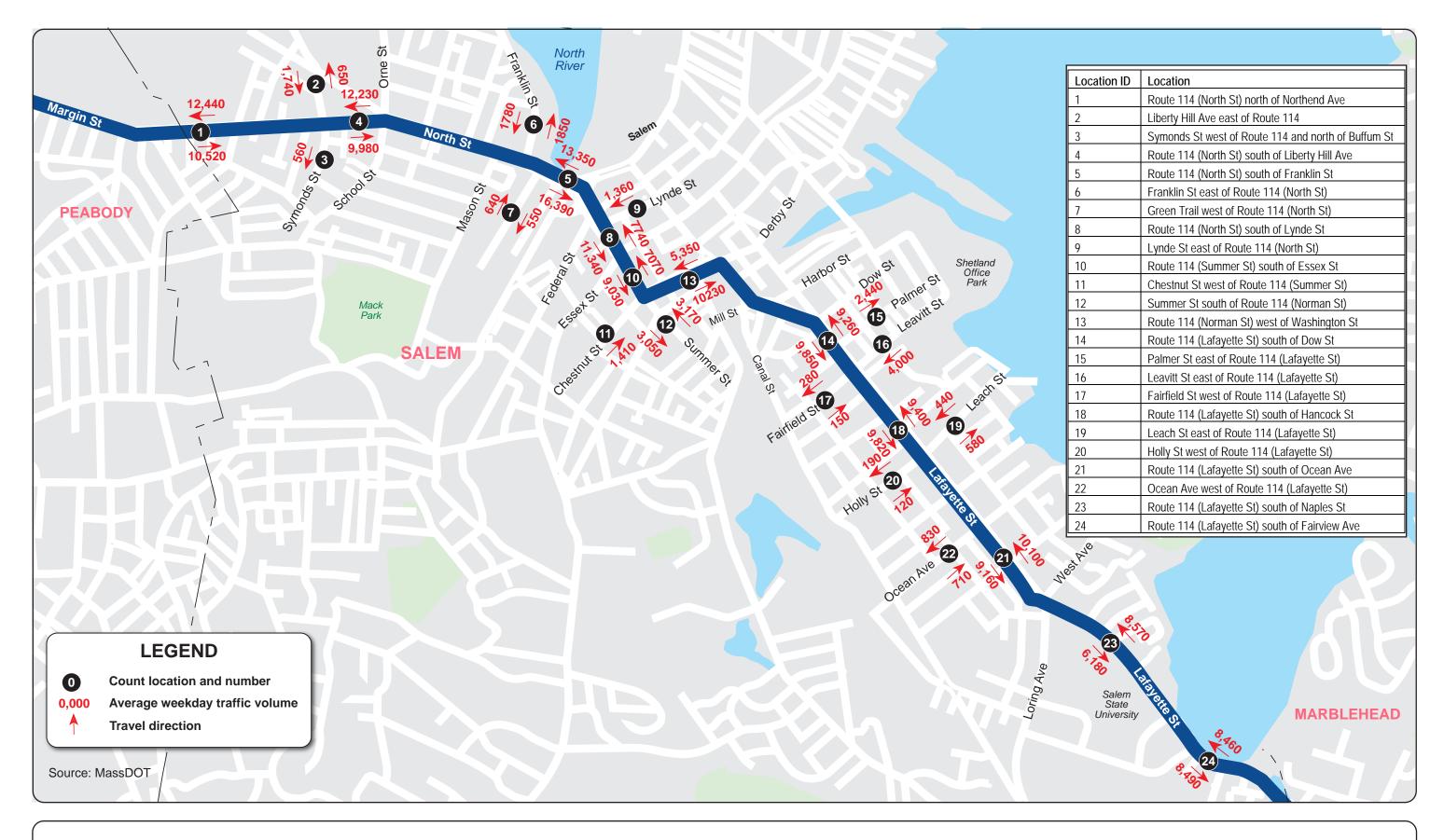
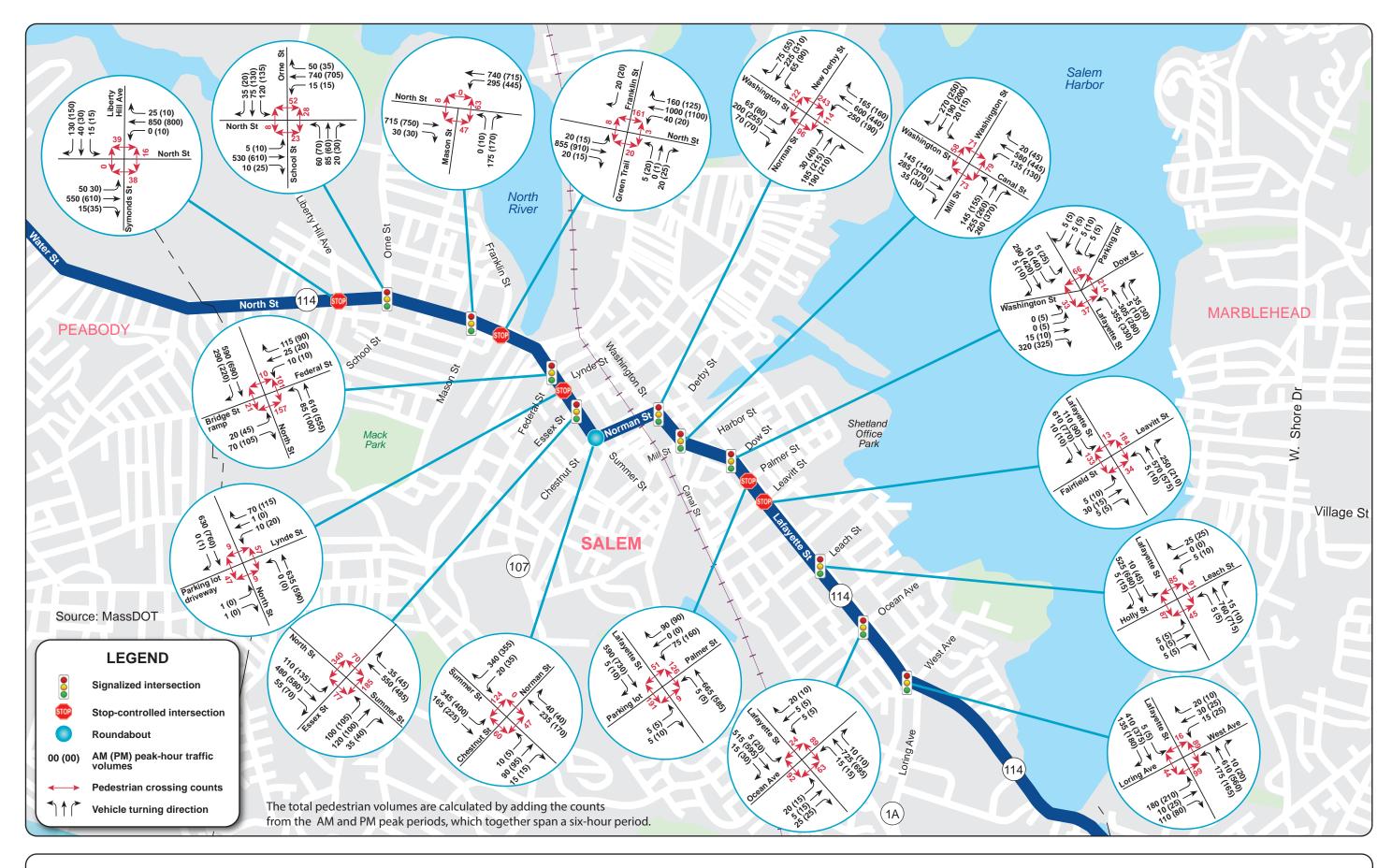




Figure 5
Peak Period Bicycle Volumes
(Weekday: 6:00 - 9:00 AM and 3:00 - 6:00 PM)







2.6 INFRASTRUCTURE CONDITIONS

2.6.1 Crosswalks

Pedestrians can safely cross Route 114 at several locations in the study area. Figure 8 displays the locations and types of crosswalks along the roadway. There are 30 marked crosswalks across Route 114, averaging one every 550 feet. Most of these locations are accessible and meet ADA standards, though some on Lafayette Street do not comply.

The following signals and signage exist at the crossing locations:

- Twelve crosswalks have traffic or pedestrian signal controls.
- Five feature RRFB controls.
- Eight are equipped with pedestrian crossing signs.
- Five have crosswalk markings but no pedestrian crossing signs.

2.6.2 Sidewalks

Figure 9 shows the locations and conditions of the sidewalks. More than 95 percent of the roadway has sidewalks on both sides, and most are in good or fair condition. They require repairs to meet the ADA standards.

The sections in poor condition are on Lafayette Street near the Marblehead town line. The poor sidewalk conditions create challenges for people walking and those using mobility devices.

2.6.3 Bike Lanes

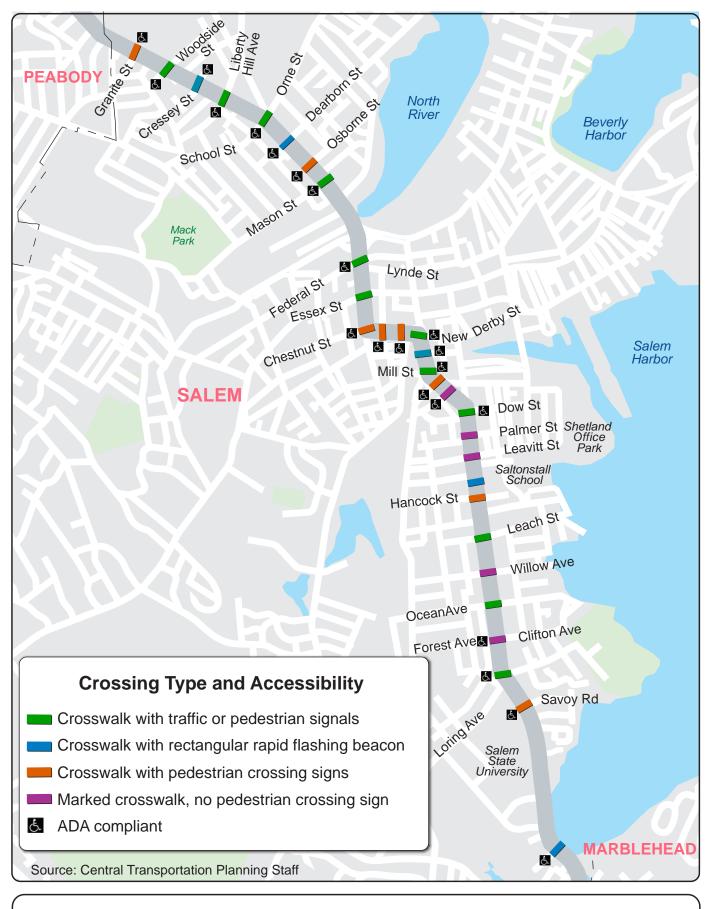
The corridor features bike lanes that are approximately five feet wide for approximately 90 percent of its length. Figure 10 shows the types of bike lanes in the corridor: parking-protected, buffered, unbuffered (unprotected), and shareduse. Approximately 60 percent of the bike lanes lack buffer protection, and there are several short segments where people biking share the roadway with vehicles. These conditions create high stress and safety concerns for people biking due to the high speeds and volumes of vehicles.

2.6.4 Bus Shelters and Benches

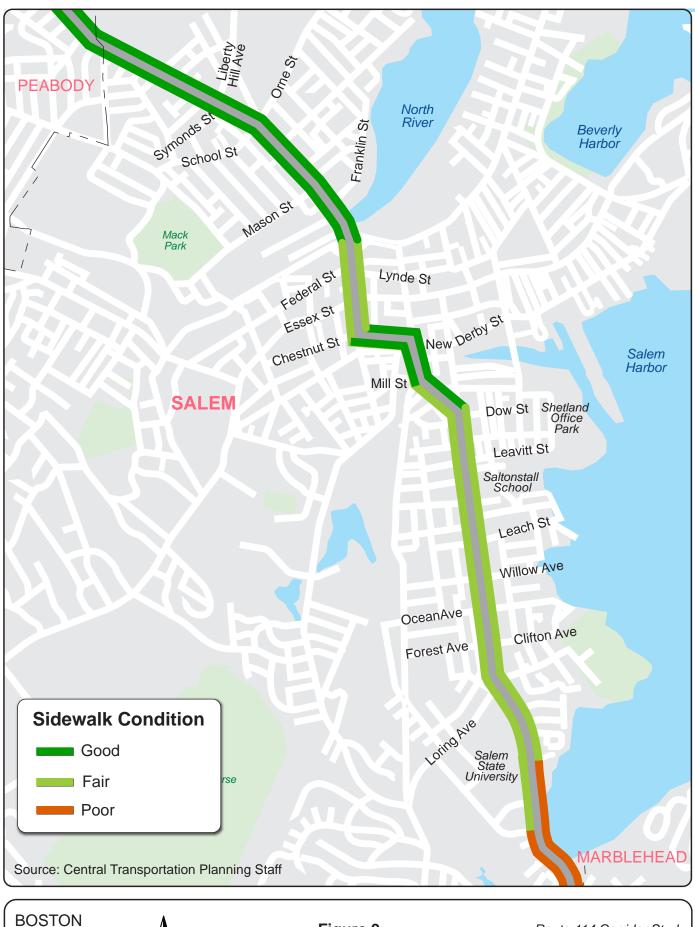
Figure 11 displays the bus routes in Salem, along with the locations of the stops on Route 114. Analysis of 2023 ridership data showed that three bus stops on Route 114 are suitable for installing a shelter and a bench:

- Bus stop 4453, North Street opposite Lynde Street, has 87 boardings.
- Bus stop 6104, Lafayette at Harbor Street, has 66 boardings.
- Bus stop 6106, Lafayette at Cedar Street, has 59 boardings.

Two of the eligible stops already have shelters, and one has only a bench because it did not pass the site suitability test.







REGION MPO



Figure 9
Sidewalk Condition

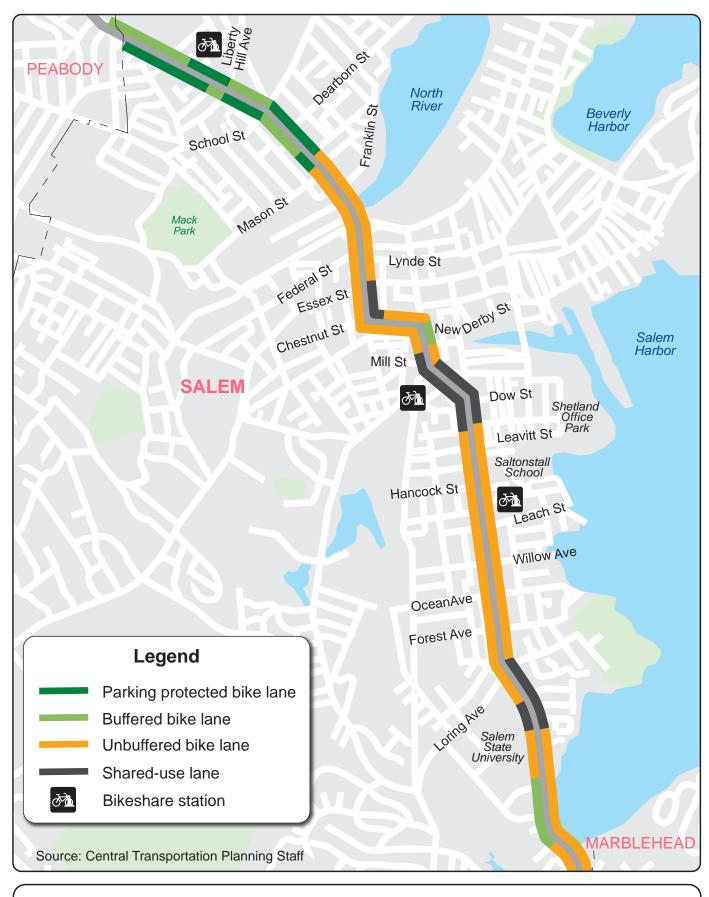




Figure 10
Route 114 Bike Infrastructure

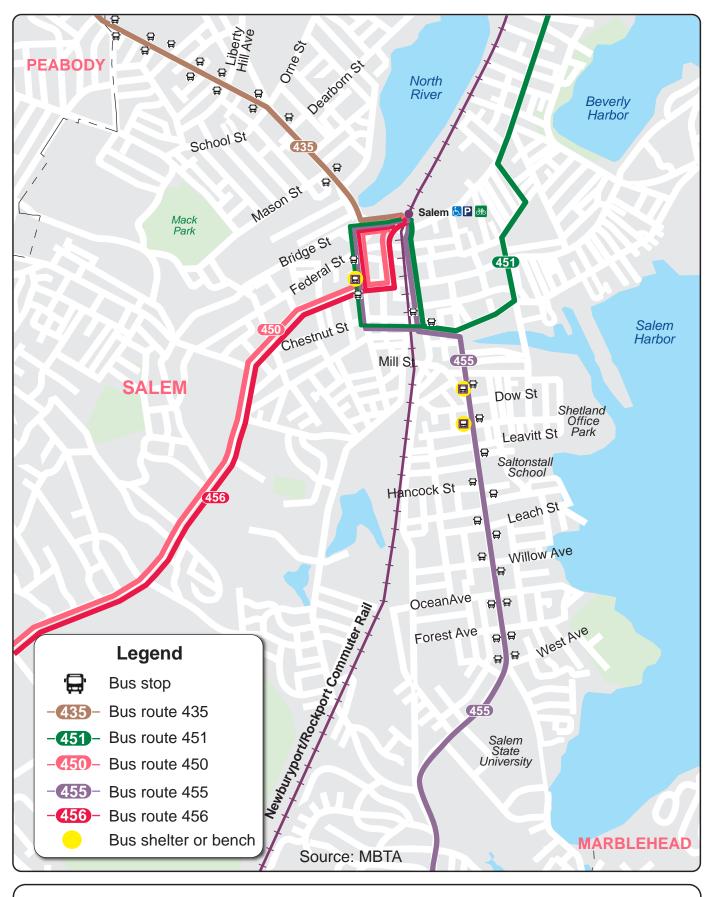




Figure 11 MBTA Transit Map, Salem

2.6.5 Traffic Signals

Most of the traffic signals on Route 114 are in good condition. However, several require upgrades, such as backplates, yellow retroreflective borders, larger lenses (12 inches), and accessible features to enhance safety and visibility. Traffic signal equipment at these intersections is outdated and needs to be upgraded:

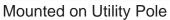
- North Street at Federal Street
- North Street at Essex Street
- Lafayette Street at Leach Street
- Lafayette Street at Ocean Avenue

A comprehensive assessment of the traffic signals on Route 114 is necessary to determine if they can adapt and respond dynamically to changing conditions and be interconnected to coordinate multiple signals.

2.6.6 Streetlights

There are two types of streetlights in the corridor: those mounted on utility poles and standalone lights. Examples are shown in Figure 12. The streetlights are in good condition, spaced approximately 90 to 120 feet apart, and mounted at heights from 20 to 30 feet. However, nearly 30 percent of the crashes in the corridor happen in dark conditions, during nighttime, dusk, or dawn.







Standalone

Source: Google



2.7 OPERATIONAL CONDITIONS

2.7.1 Historical Crash Summaries

Crash data from January 2019 through September 2024 was analyzed for trends. The analysis, which is summarized in Table 1, shows the following:

- Crashes resulting in injuries accounted for nearly 23 percent of the crashes.
- Crashes at intersections accounted for approximately 66 percent of the crashes.
- Rear-end (36 percent) and angle (34 percent) crashes were the most common types, together representing 70 percent of the crashes.
- Crashes that occurred during nighttime, dusk, and dawn accounted for nearly 30 percent of the crashes. These crashes occurred in places where the roadway had lighting and places that were unlit.
- Pedestrians and bicyclists were involved in 7.5 percent of crashes.

Table 1
Corridor Crash Summaries (2019–24)

Crash Variable	Number of Crashes	Percent
Total number of crashes	933	100
Severity		
Property damage only	675	72
Nonfatal injury	217	23
Fatality	0	0
Not reported/unknown	41	5
Crash Type		
Single vehicle	57	6
Rear-end	338	36
Angle	320	34
Head-on	84	9
Sideswipe, same direction	105	11
Sideswipe, opposite direction	18	2
Not reported/unknown	11	2
Ambient Light Conditions		
Daylight	662	71
Dark—lighted roadway	228	24
Dark—roadway not lighted	8	1
Dark—unknown	2	0
Dawn	7	1
Dusk	25	3
Unknown/other	1	0
Involved pedestrian(s)	46	5
Involved bicyclist(s)	23	2.5
Wet or icy pavement conditions	148	16
Dark conditions (lighted or not lighted)	236	29

Source: Central Transportation Planning Staff.

2.7.2 High-Injury Network (HIN)

The Route 114 safety assessment references Salem and MPO Vision Zero initiatives. Route 114 is part of Salem's high-injury network (HIN), making it a key corridor for safety improvements. The HIN highlights corridors with fatal and serious injury crashes, as shown in Figure 13.

2.7.3 Intersection Crash Risk

Figure 14 shows the key intersections along the corridor where crashes and the risk of crashes is highest. These locations were identified by using both a crash-based and risk-based analysis. The reactive crash-based method focuses on historical crash severity-weighted frequency as a leading safety indicator. In contrast, the proactive risk-based method considers roadway and community features as primary factors that contribute to increased risk of injury. Both methods are essential for developing effective and proactive safety strategies.

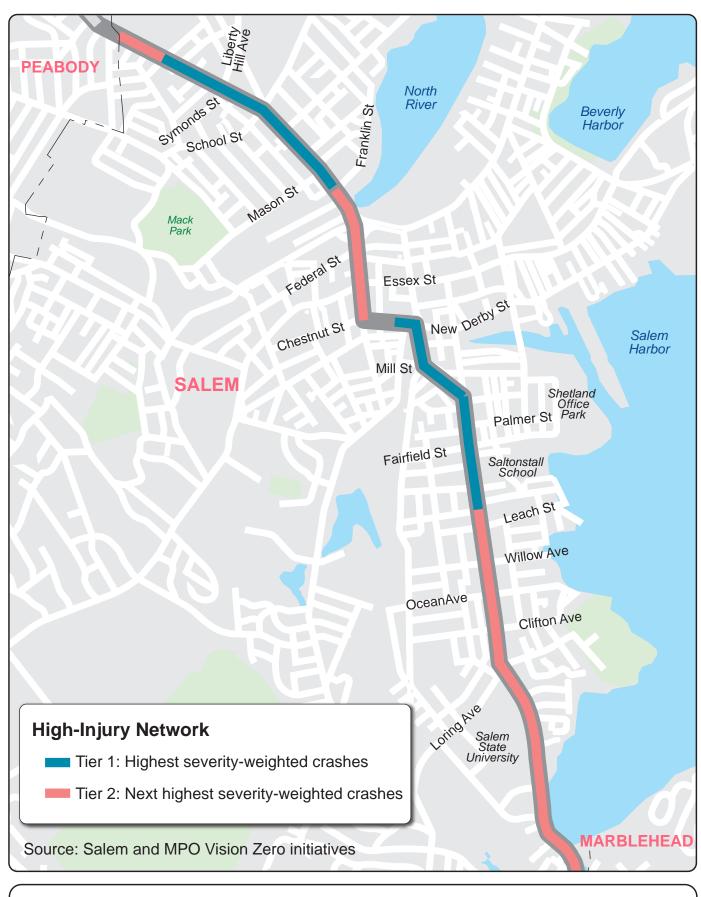




Figure 13 High-Injury Network

Route 114 Corridor Study City of Salem





Figure 14
Intersection Crash Risk

Route 114 Corridor Study City of Salem

2.7.4 Vulnerable Road User (VRU) Crash Risk

Figure 15 shows the locations along the corridor where crashes and the risk of crashes is highest for vulnerable road users (such as pedestrians, bicyclists, and people using mobility devices). These locations also were identified by using both a crash-based and risk-based analysis. Shown are sites where actual crashes occurred involving pedestrians and bicyclists, and areas of high risk for these users.

2.7.5 Collision Diagrams

MPO staff prepared collision diagrams for most of the roadway segments, including major intersections, using crash data from 2019 to 2024. These diagrams enable the identification of patterns and factors contributing to crashes, as well as the identification of effective safety strategies. The diagrams and reference tables presenting the characteristics of the crashes are included in Appendix C.

The following findings are consistent with the summaries in collision diagrams:

- There is a high frequency of angle crashes within the intersections and rear-end crashes on the approaches to the intersections. The likely causes are distracted and impaired driving, speeding, inadequate signal timing, and vehicles following too closely.
- There is a high frequency of nighttime crashes. Possible causes are poor visibility or lighting.
- Crashes involving vulnerable road users are likely caused by restricted sight distance at the intersections due to parking, inadequate signal phasing, and inadequate protections for these users.

2.7.6 Speed Studies

MassDOT conducted speed studies at four locations along Route 114, and the findings are summarized in Figure 16. The sections of Route 114 with speeding issues are North Street, west of Federal Street, and Lafayette Street, south of Loring Avenue. In these areas, the 85th percentile speeds are 7 to 10 miles per hour (mph) above the speed limit. The speed data are included in Appendix B.





Figure 15
Vulnerable Road User Crash Risk

Route 114 Corridor Study City of Salem

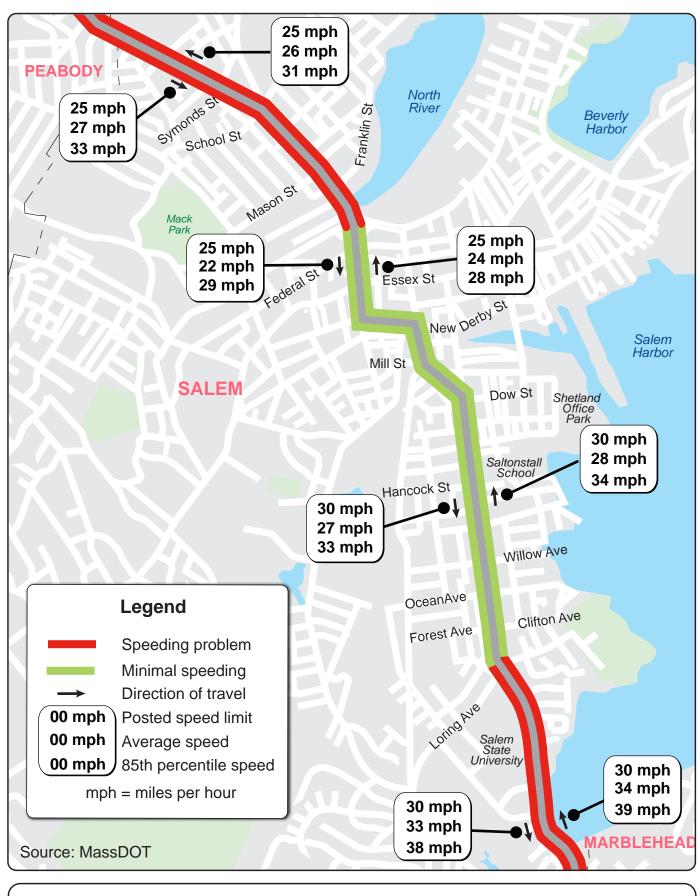




Figure 16 Speeding on Route 114 Route 114 Corridor Study City of Salem

2.7.7 Congestion, Delays, and Queues

MPO staff conducted traffic-operations analyses using Synchro 12 to assess traffic conditions at signalized and unsignalized intersections. Table 2 presents the delays and levels of service (LOS) for signalized and unsignalized intersections. LOS A represents the best operating conditions (little to no delay). In contrast, LOS F represents the worst operating conditions (long delay). LOS E represents operating conditions at capacity (the limit of acceptable delay). The intersection LOS analyses are included in Appendix D.

Table 2
Intersection Level of Service Criteria

	Unsignalized Intersection	
Level of	Control Delay	Control Delay
Service	(seconds per vehicle)	(seconds per vehicle)
Α	<10	<10
В	10–20	10–15
С	20–35	15–25
D	35–55	25–35
E	55–80	35–50
_F	>80	>50

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

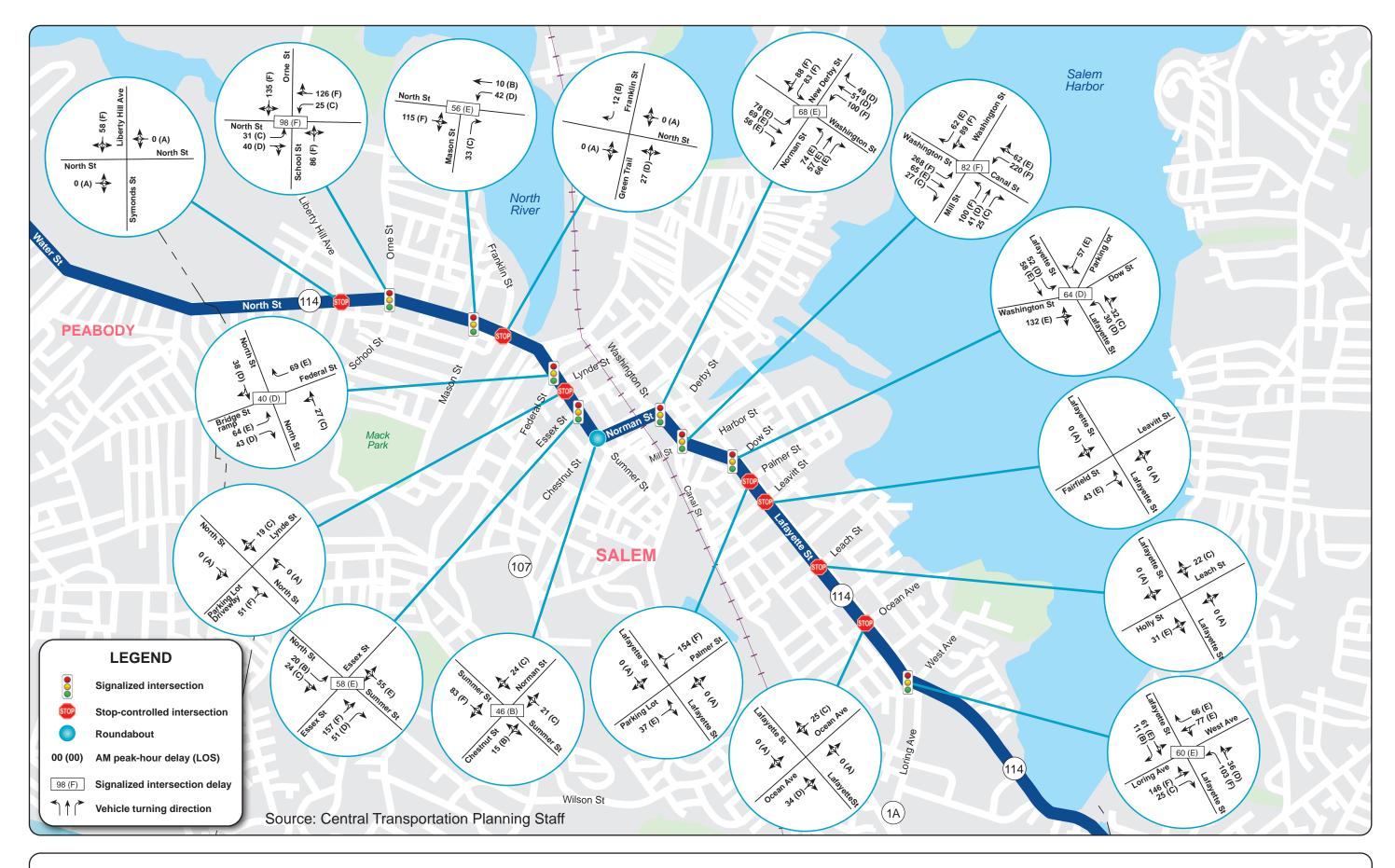
Figures 17 and 18 show the LOS and delays at the signalized and unsignalized intersections during weekday morning and afternoon peak hours. Eight signalized intersections were found to operate under congested conditions with LOS E or F, resulting in queuing at multiple locations during peak travel hours. Several unsignalized intersections also were found to experience significant delays on side streets during peak travel periods. Traffic on the side streets at these intersections also were operating at LOS E or F, with queuing on their approaches.

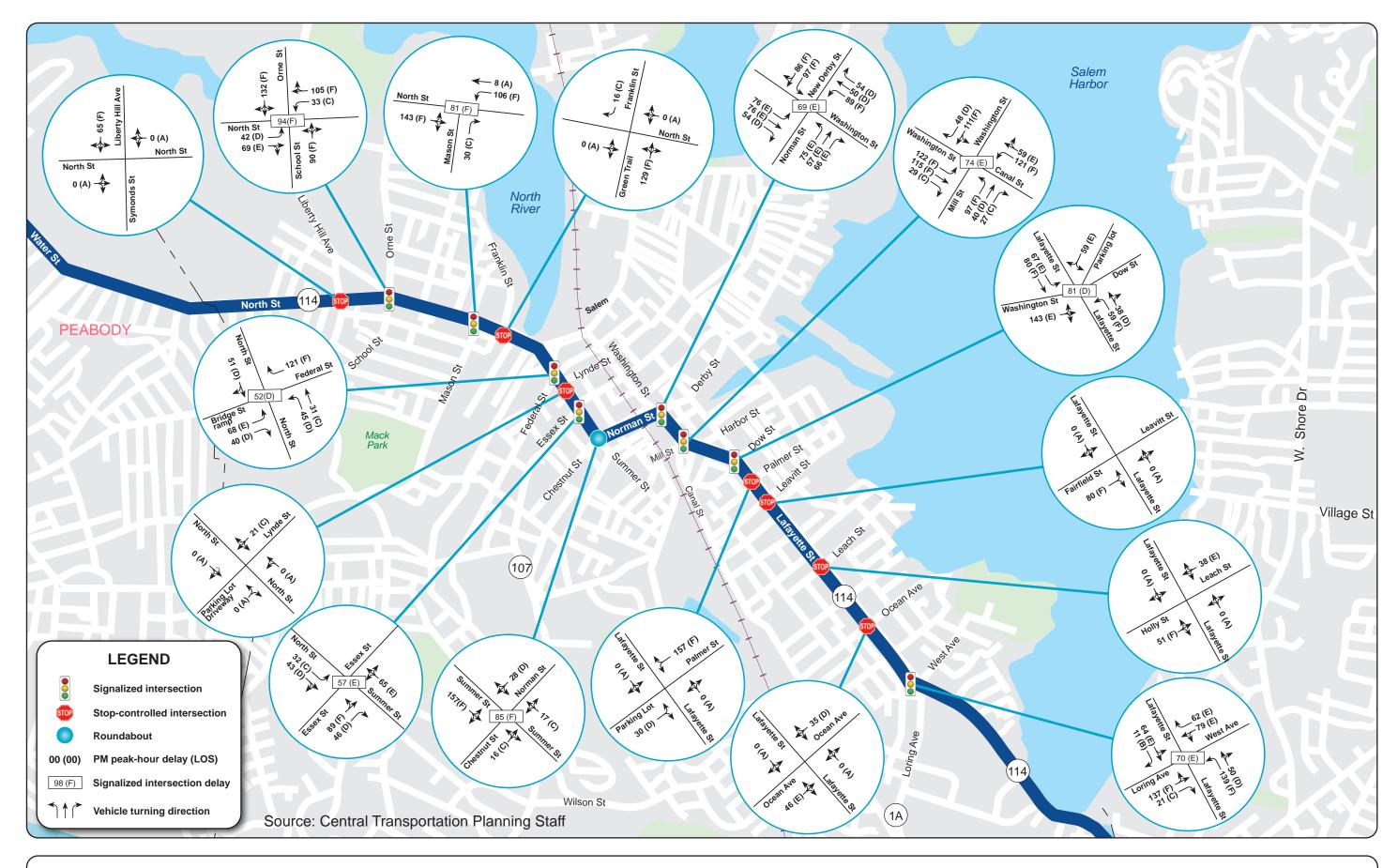
2.8 TRANSIT SERVICE

Figure 11 shows the MBTA service in or near the study area, including commuter rail and five bus routes. Commuter rail service to Boston runs every 30 minutes on weekdays and every 60 minutes on weekends. All five bus routes serving Salem start at the commuter rail station. The MBTA's Bus Network Redesign plan, approved in 2022 for implementation over five years, proposes the following changes:

¹ CUBIC Transportation Systems, 9233 Balboa Avenue, San Diego, CA 92123.

- Operate bus Route 450 via Bridge Street to Washington to Essex Street instead of via North Street.
- Operate bus Route 451 along Route 107, which would remove bus Route 451 from Route 114.
- Operate bus Route 455 in both directions along Washington Street, which would remove bus Route 455 from Summer Street and Norman Street.
 The remaining part of the route to Loring Avenue would stay the same.
- Eliminate bus Route 456, which duplicates bus Route 450.







2.9 TRAFFIC SIGNAL WARRANTS ANALYSIS

Justifying the need for a traffic control signal at an unsignalized intersection involves analyzing factors related to current traffic flow and safety conditions, as well as the potential for improvement. The Manual on Uniform Traffic Control Devices (MUTCD) lists nine traffic signal warrants that support installing a signal. Table 3 displays these nine warrants and the analysis results for intersections with significant side street delays. Installing signals may be justified at some of these locations, and this should be investigated further. Detailed traffic signal warrant analysis worksheets are included in Appendix D.

Table 3
Results of the Traffic Signal Warrant Analysis

	Liberty			Norman	
Warrant	Hill Avenue	Franklin Street	Lynde Street	Street Circle	Palmer Street
Warrant 1, Eight-Hour Vehicular Volume	Satisfied	Satisfied	Satisfied	Satisfied	Satisfied
Warrant 2, Four-Hour Vehicular Volume	Satisfied	Satisfied	Satisfied	Satisfied	Satisfied
Warrant 3, Peak Hour	Satisfied	Satisfied	Satisfied	Satisfied	Satisfied
Warrant 4, Pedestrian	Not	Not	Not	Not	Not
Volume	satisfied	satisfied	satisfied	satisfied	satisfied
Warrant 5, School	Not	Not	Not	Not	Not
Crossing	satisfied	satisfied	satisfied	satisfied	satisfied
Warrant 6, Coordinated	Satisfied	Not	Not	Not	Not
Signal System		satisfied	satisfied	satisfied	satisfied
Warrant 7, Crash	Not	Not	Not	Not	Not
Experience	satisfied	satisfied	satisfied	satisfied	satisfied
Warrant 8, Roadway Network	Satisfied	Satisfied	Satisfied	Satisfied	Satisfied
Warrant 9, Intersection	Not	Not	Not	Not	Not
Near a Grade Crossing	satisfied	satisfied	satisfied	satisfied	satisfied

Source: Central Transportation Planning Staff.

2.10 COMMUNITY SURVEY

Staff created an interactive mapping survey to gather the community's opinions on transportation issues related to walking, biking, transit, driving, parking, and other concerns along the corridor, as well as potential solutions. The survey questionnaire, responses, and specific comments are included in Appendix E. Respondents had the option to participate in the survey in English, Spanish, Portuguese, and Haitian Kreyol. The survey was shared with the City of Salem for promotion on city websites and social media platforms and for distribution to residents and stakeholders. The survey was launched in mid-June and closed on July 30, 2025, after gathering 684 responses.

The following information was gleaned from the survey:

- Most respondents (more than 90 percent) travel daily or several times a
 week in the corridor, providing them with familiar experiences regarding
 transportation issues along the corridor.
- Most respondents (72 percent) expressed concerns about driving, while nearly 28 percent commented on walking, biking, or transit, indicating thoughtful consideration of feedback from the underrepresented vulnerable road users.
- Nearly 75 percent of respondents were residents of Salem, while 25 percent either travel through, work in, or commute to Salem, demonstrating a strong local presence.
- Drivers mainly reported concerns about traffic congestion, long waits at intersections, or difficulty turning into or out of side streets.
- Those walking, biking, taking transit, or using assistive mobility devices were primarily concerned about inattentive or aggressive drivers, high vehicle speeds, or the lack of bike lanes or surfaces meeting ADA standards.

2.11 NEEDS ASSESSMENT

The corridor, in its current state, has deficiencies that impact user safety, mobility, quality of life, and access to businesses and other sites for residents. The challenges, which relate to the corridor's role in providing safe and efficient multimodal transportation, emphasize the urgent need to improve safety and operations, promote multimodal transportation, and upgrade the infrastructure, including the following:

- Safety enhancements at intersections to improve visibility for vulnerable road users
- Safety improvements along the corridor to slow down vehicle speeds
- Safety upgrades to bike lanes to protect bicyclists
- Infrastructure improvements to enhance pedestrian safety, such as highquality sidewalks and safe crossing points
- Infrastructure maintenance, including resurfacing roads
- Infrastructure upgrades to boost operations and efficiency, such as advanced traffic signal equipment and technology
- Intersection redesigns to improve safety and operations for users
- Traffic signal modernization to retime and optimize traffic signal systems to reduce congestion, pedestrian wait times, and red light running

Chapter 3—Proposed Improvements

3.1 PROJECTS AND STUDIES

Recently completed, ongoing, and planned projects for the corridor include the following:

- City of Salem, Pedestrian and Bicycle Improvements, North Street Protected Bike Lanes (completed)
- MassDOT Project #605332 Bridge Replacement, North Street over North River (in design)
- MassDOT Project #612990 Reconstruction of Bridge Street (Route 107), from Flint Street to Commuter Rail Station Entrance/Exit (in design)
- City of Salem, Pedestrian and Bicycle Improvements, Lafayette Street Protected Bike Lanes (in design)
- City of Salem, Shared Streets grant awarded to the City on Lafayette Street from Loring Avenue to Harborview Terrace.

3.2 POTENTIAL IMPROVEMENTS

The corridor was divided into three segments based on context: North Street, Norman and Washington Streets, and Lafayette Street. For each segment, staff developed recommendations for improvements for both the segment and specific intersections along it. The improvements were categorized by time frame and cost. The time frames are defined as follows: short-term improvements are typically expected to be completed within three years, mid-term improvements within three to five years, and long-term improvements in more than five years. In terms of cost, low-cost improvements are those under \$10,000, medium-cost improvements are between \$10,000 and \$50,000, and high-cost improvements exceed \$50,000.

Most short-term improvements usually do not require design and engineering efforts. These improvements include installing new signs, upgrading old signs, marking pavement, painting high-visibility crosswalks, and upgrading curb ramps to ADA standards. Some mid-term improvements may require some design and engineering efforts. These improvements include protecting existing bike lanes, installing rectangular rapid flashing beacons (RRFBs) and pedestrian signals, and repairing substandard sidewalks. The long-term improvements require significant design and engineering efforts, as well as larger funding sources. They include safety, multimodal, and operational improvements, such as intersection and roadway reconstruction in a Complete Streets framework.

Tables 4 through 6 present the proposed improvements, including the time and cost categories and jurisdictional responsibilities. Figures 19 through 21 illustrate

graphically some of the improvements in the segment. Figure 22 gives examples of successful strategies to enhance safety for vulnerable road users.

Table 4

Potential Improvements on North Street

Issue/	Safety	ntial Improvements on North Street Suggested	Time	Cost	Responsibility
Concern	Category	Improvement	Frame		,
1—North Street Segment					
The segment is part of a high-injury network, and several intersections	Traffic Signal	Consider enhancing safety through traffic calming, signal optimization, lighting, and intersection	Long	High	City of Salem
along the segment are primary angle crash sites.	Operations and Visibility	improvements, such as making the recent traffic-calming and speed management improvements	9		J., J. J., J.
		on North Street permanent.			
Drivers fail to yield to pedestrians crossing streets.	Pedestrian and Bicycle	Evaluate and implement leading pedestrian intervals for the signalized intersections with	Short	Medium	City of Salem
	Accommodation	concurrent pedestrian and vehicle phases.			
Drivers fail to yield to pedestrians crossing streets.	Pedestrian and Bicycle	Consider installing rectangular rapid flashing beacons at the uncontrolled marked crosswalks on	Short	Medium	City of Salem
Pedestrians have to wait too long for the Walk signal.	Accommodation Pedestrian and Bicycle	North Street. Optimize signal timings, including pedestrian timing and clearance intervals, to minimize	Short	Low	City of Salem
redestrialis have to wait too long for the walk signal.	Accommodation	pedestrian delay and prevent illegal crossings.	SHOLL	LOW	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-scale lighting to reduce crashes in dark and low-	Short	Low	City of Salem
,	,	light conditions.			- ,
Crashes are more likely to occur in dark conditions.	Traffic Signal	Consider installing backplates with retroreflective borders on all signal heads to improve signal	Short	Medium	City of Salem
	Operations and Visibility	visibility.			-
Drivers tend to speed on North Street.	Roadway Features	Install speed limit signs and speed feedback signs at regular intervals to inform drivers of speed	Short	Low	City of Salem
		limits.			
Drivers tend to speed on North Street.	Roadway Features	Consider making the recent traffic-calming and speed management improvements on North	Long	High	City of Salem
		Street permanent.			
Drivers run red lights, risking pedestrian safety.	Traffic Signal	Assess clearance intervals and update them to current standards as needed to enhance safety	Short	Low	City of Salem
Debugger on the second of the	Operations and Visibility	and operational efficiency.	1	I Pls	Other of Outland
Drivers encounter congestion, delays, and long queues in the segment.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions.	Long	High	City of Salem
Drivers engageties deleve and long queues in the agament	Traffic Signal		Short	Medium	City of Colom
Drivers encounter congestion, delays, and long queues in the segment.	Operations and Visibility	Optimize signal timings and phasing, and coordinate signals within a 1,500-foot distance to enhance traffic flow.	SHOLL	Medium	City of Salem
Bike lanes between Franklin Street and Essex Street have gaps and lack	Pedestrian and Bicycle	Assess the feasibility of installing flex posts or curbing to prevent drivers from encroaching on or	Middle	Medium	City of Salem
protection.	Accommodation	raising the bike lanes and integrating them with the sidewalks.			,
2—Liberty Hill Avenue at North Street					
Intersection is a primary angle crash site.	Traffic Operations and	Consider installing a traffic signal to improve safety.	Long	High	City of Salem
, , ,	Visibility			-	•
Crashes occur more often in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-level lighting.	Short	Low	City of Salem
Drivers have to wait too long to turn out of Liberty Hill Avenue.		Consider installing pavement markings and signage to improve traffic operations.	Short	Low	City of Salem
	Signage				
Drivers have to wait too long to turn out of Liberty Hill Avenue.	Traffic Signal Operations and Visibility	Consider installing a traffic signal to reduce delays.	Long	High	City of Salem
2 Cabaal Chroat/Orma Chroat at North Chroat	Operations and visibility				
3—School Street/Orne Street at North Street	Pedestrian and Bike	Consider implementing leading modestries intomale (LDI) during consument vehicle and	Chart	Madium	City of Colom
Drivers often fail to yield to pedestrians crossing streets.	Accommodation	Consider implementing leading pedestrian intervals (LPI) during concurrent vehicle and pedestrian phases.	Short	Medium	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike	Evaluate and update No Right Turn on Red signage placement to ensure it is MUTCD compliant.	Short	Low	City of Salem
brivers often fail to yield to pedestrians crossing streets.	Accommodation	Evaluate and appeare no right runnon new signage placement to ensure it is MOTOD compilant.	OHOI t	LOVV	Oity of Galetti
Drivers encounter congestion, delays, and long queues.	Traffic Signal	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to	Short	Medium	City of Salem
g.c, ac.ayo, and long quodoc.	Operations and Visibility	enhance traffic flow. Coordinate signals at School Street and Mason Street as a subsystem.		3	2.1, 2. 24.0111
Drivers encounter congestion, delays, and long queues.	Traffic Signal	Consider implementing a protected or permissive phase for eastbound and westbound left turns	Short	Medium	City of Salem
	Operations and Visibility	on North Street during peak hours.			•

Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
Drivers encounter congestion, delays, and long queues.	Traffic Signal	Upgrade the signal equipment to incorporate technologies that can adapt and respond	Long	High	City of Salem
	Operations and Visibility	dynamically to changing conditions.		9	
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Evaluate clearance intervals and update them to meet current safety and operational standards.	Short	Low	City of Salem
4—Mason Street at North Street					
Vulnerable road users face high risks at intersections, especially where the crosswalk is missing on the west side of North Street.	Pedestrian and Bike Accommodation	Consider adding a crosswalk on the west side of North Street.	Short	Low	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to enhance traffic flow. Coordinate signals at Mason Street and School Street as a subsystem.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to integrate technologies that can adapt and respond dynamically to changing conditions, thereby optimizing flow and reducing congestion.	Long	High	City of Salem
Drivers are using the Citgo driveways to turn left onto North Street, which is not permitted on Mason Street, creating safety concerns.	Traffic Signal Operations and Visibility	Consider adding signs to reinforce the prohibition or enforcement to prevent such maneuvers.	Short	Low	City of Salem
Drivers are using the Citgo driveways to turn left onto North Street, which is not permitted on Mason Street, creating safety concerns.	Traffic Signal Operations and Visibility	Assess the feasibility of allowing left turns on Mason Street.	Short	Low	City of Salem
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Review clearance intervals and revise them to current standards as necessary to enhance safety and operational efficiency.	Short	Low	City of Salem
5—Franklin Street at North Street					
There is no crosswalk on North Street at the intersection.	Pedestrian and Bike Accommodation	Consider adding a crosswalk with pedestrian-activated signals on North Street.	Middle	High	City of Salem
Drivers exiting the Speedway gas station are involved in many crashes.	Intersection Geometry and Operations	Assess the feasibility of signalizing the intersection to enable left turns and pedestrian crossing.	Long	High	City of Salem
Drivers have to wait too long to turn out of Franklin Street.	Traffic Signal Operations and Safety	Assess the feasibility of signalizing the intersection to enable left turns and pedestrian crossing.	Long	High	City of Salem
6—On-ramp at North Street Bridge over Route 107					
Drivers tend to speed on the ramp.	Pavement Markings and Signage	Install speed limit signs, speed feedback signs, and pavement markings to raise awareness.	Short	Low	MassDOT and City of Salem
Crashes occur more often in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-scale lighting to reduce crashes in dark and low-light conditions.	Short	Low	MassDOT and City of Salem
Drivers treat the ramp like a highway on-ramp and fail to yield to pedestrians.	Pedestrian and Bike Accommodation	Consider installing a rectangular rapid flashing beacon at the crosswalk on the on-ramp to enhance pedestrian safety.	Short	Medium	MassDOT and City of Salem
Drivers treat the ramp like a highway on-ramp and fail to yield to pedestrians.	Pedestrian and Bike Accommodation	Alternatively, consider replacing the yield sign with a stop sign and adding pedestrian crossing signs.	Short	Low	MassDOT and City of Salem
7—Federal Street/Ramp at North Street					
Drivers often do not yield to pedestrians crossing the street.	Pedestrian and Bike Accommodation	Evaluate and update No Right Turn on Red signage placement to ensure it is MUTCD compliant and improve pedestrian safety.	Short	Low	MassDOT and City of Salem
Drivers often do not yield to pedestrians crossing the street.	Pedestrian and Bike Accommodation	Assess the feasibility of eliminating the eastbound right-turn slip lane from the ramp onto southbound North Street due to low volumes on the on-ramp. Will shorten a proposed crosswalk on the west side of North Street described below.	Short	Medium	MassDOT and City of Salem
Drivers often do not yield to pedestrians crossing the street.	Pedestrian and Bike Accommodation	Consider installing a crosswalk on the west side (southbound) of North Street across the ramp to improve pedestrian safety.	Short	Medium	MassDOT and City of Salem
Pedestrians are trying to access the MBTA station.	Pedestrian and Bike Accommodation	Install wayfinding signs to direct pedestrians and bicyclists on safe routes to the MBTA station.	Short	Low	MassDOT and City of Salem
Drivers run red lights and yield signs, risking pedestrian safety.	Traffic Signal Operations and Visibility	Assess clearance intervals and revise them to meet current standards and operational requirements.	Short	Low	MassDOT and City of Salem
Drivers are not given advance notice of lane assignments and often become confused, resulting in them ending up in the wrong lane.	Pavement Markings and Signage	Consider installing signs and pavement markings in advance to guide drivers into the correct lanes on North Street between Federal Street and Essex Street.	Short	Low	MassDOT and City of Salem

Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
Drivers face congestion, delays, and long queues, and pedestrians have to wait too long for the Walk signal.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to enhance traffic flow. Coordinate signals at Federal Street and Essex Street as a subsystem.	Short	Medium	MassDOT and City of Salem
Signal equipment is outdated.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions, thereby optimizing flow and reducing congestion	Long	High	MassDOT and City of Salem
8—Lynde Street at North Street					
Drivers turning left out of Lynde Street are often involved in crashes.	Traffic Signal Operations and Visibility	Consider prohibiting left turns from Lynde Street (and allowing right turns only).	Short	Low	City of Salem
Drivers turning left out of Lynde Street are often involved in crashes.	Traffic Signal Operations and Visibility	Assess the practicality of reversing traffic flow on Lynde Street.	Middle	Medium	City of Salem
Drivers turning left out of Lynde Street are often involved in crashes.	Intersection Geometry and Operations	Evaluate the feasibility of reconstructing the intersection to improve safety.	Long	High	City of Salem
Drivers have to wait too long to turn out of Lynde Street.	Traffic Signal Operations and Visibility	Evaluate the feasibility of installing a signal at the intersection to decrease delays on Lynde Street.	Long	High	City of Salem
9—Essex Street at North Street					
Vulnerable road users are at high risk, as drivers often fail to yield to pedestrians.	Pedestrian and Bicycle Accommodation	Remove the right-turn slip lane from Essex Street to Summer Street to enhance pedestrian safety.	Short	Medium	City of Salem
Crashes often occur under dark conditions.	Intersection Visibility	Evaluate and enhance street and pedestrian-scale lighting to reduce crashes during dark and low-light conditions.	Short	Low	City of Salem
Sidewalks are narrow and need improvement.	Pedestrian and Bicycle Accommodation	Assess and improve sidewalks.	Middle	Medium	City of Salem
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Assess clearance intervals and update them to current standards as necessary to enhance safety and operational efficiency.	Short	Low	City of Salem
Drivers encounter congestion, delays, and long queues, and pedestrians have to wait too long for the Walk signal.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to enhance traffic flow. Coordinate signals at Federal Street and Essex Street as a subsystem.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions, thereby optimizing flow and reducing congestion.	Long	High	City of Salem
Drivers often become confused about lane assignments on the southbound approach to North Street and end up in the wrong lane. 10—Chestnut Street/Norman Street at Summer Street	Pavement Markings and Signage	Consider installing signs and pavement markings in advance to guide drivers into the correct lanes.	Short	Low	City of Salem
Drivers often do not yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider adding a rectangular rapid flashing beacon to the crosswalks to increase driver yield rates.	Short	Medium	City of Salem
The roundabout is malfunctioning during the peak travel period, resulting in congestion, delays, and lengthy queues for drivers.	Intersection Geometry	Evaluate the feasibility of replacing the roundabout with a traffic signal or two-way stop sign control to enhance safety and traffic flow.	Long	High`	City of Salem

MUTCD = Manual on Uniform Traffic Control Devices.

Table 5

	Potential Improvem	nents on Norman and Washington Streets			
Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
11—Norman and Washington Streets Segment					
The segment is part of a high-injury network, and two intersections on the segment are primary angle crash sites.	Traffic Signal Operations and Visibility	Consider enhancing safety with traffic calming, signal optimization, lighting, and intersection improvements.	Long	High	City of Salem
Bike lanes are absent on Washington Street from Mill Street to Lafayette Street.	Pedestrian and Bicycle Accommodation	Consider adding shared-lane markings or signs to alert drivers of the presence of bicyclists.	Short	Low	City of Salem
Drivers often become confused about lane assignments and end up in the wrong lane.	Traffic Signal Operations and Visibility	Consider installing signs and pavement markings (including white dotted lines at intersections) in advance to guide drivers into the correct lanes at intersections.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-scale lighting to increase visibility and reduce crashes during dark and low-light conditions.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Traffic Signal Operations and Visibility	Consider installing backplates with retroreflective borders on all signal heads to improve signal visibility.	Short	Medium	City of Salem
Drivers tend to speed on Washington Street.	Roadway Features	Install speed limit and speed feedback signs at regular intervals to raise awareness.	Short	Low	City of Salem
12—Norman Street/New Derby Street at Washington Street					
Intersection is a primary angle crash site.	Traffic Signal Operations and Visibility	Review clearance intervals and update them to current standards as needed to enhance safety and operational efficiency.	Short	Low	City of Salem
Intersection is a primary angle crash site.	Traffic Signal Operations and Visibility	Consider a Road Safety Audit for the intersection.	Short	Low	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bicycle Accommodation	Consider prohibiting right turns on red after stopping on Norman Street to increase pedestrian safety.	Short	Low	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bicycle Accommodation	Evaluate and update the placement of No Right Turn on Red signage to ensure it is MUTCD compliant.	Short	Low	City of Salem
Pedestrians have to cross too many lanes.	Pedestrian and Bicycle Accommodation	Assess the feasibility of incorporating curb extensions to decrease crossing distance and tightening curb radii to prevent speeding.	Short	Medium	City of Salem
Crashes are more likely to occur in dark conditions.	Traffic Signal Operations and Visibility	Evaluate and enhance street and pedestrian-scale lighting to improve visibility and decrease crashes in dark and low-light conditions.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Traffic Signal Operations and Visibility	Consider installing backplates with retroreflective borders on all signal heads to improve signal visibility.	Short	Medium	City of Salem
Drivers often run red lights, risking the safety of pedestrians.	Traffic Signal Operations and Visibility	Evaluate clearance intervals and update them to current standards as needed to enhance safety and operational efficiency.	Short	Low	City of Salem
Drivers encounter congestion and pedestrians wait too long for the Walk signal to change.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to enhance traffic flow and pedestrian safety.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions, thereby optimizing traffic flow and reducing congestion.	Long	High	City of Salem
Drivers often become confused about lane assignments on the North Street southbound approach and end up in the wrong lane.	Pavement Markings and Signage	Consider installing signs and pavement markings (including dotted white lines in the intersection) in advance to guide drivers into the correct lanes.	Short	Low	City of Salem
Drivers get into crashes due to the lane drop and merge on Washington Street just north of New Derby Street.	Pavement Markings and Signage	Consider installing pavement markings in addition to existing signage to enhance safety at the merge area.	Short	Low	City of Salem
13—Mill Street/Canal Street at Washington Street					
Intersection is a primary angle crash site.	Traffic Signal Operations and Visibility	Review clearance intervals and update them to current standards as needed to enhance safety and operational efficiency.	Short	Low	City of Salem
Intersection is a primary angle crash site.	Traffic Signal Operations and Visibility	Consider a Road Safety Audit for the intersection.	Short	Low	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bicycle Accommodation	Evaluate and update the placement of No Turn on Red signage to ensure it is MUTCD compliant.	Short	Low	City of Salem

Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
The bike lane on the west side (southbound) of Washington Street ends before reaching Mill Street.	Pedestrian and Bicycle Accommodation	Assess whether removing the exclusive right-turn lane on southbound Washington Street is feasible, due to the low volume of right turns, and consider implementing a shared through/right turn lane.	Short	Medium	City of Salem
The bike lane on the west side of Washington Street ends before reaching Mill Street.	Pedestrian and Bicycle Accommodation	If a shared through/right-turn lane is installed, consider extending the bike lane on the west side of Washington Street to Mill Street.	Short	Medium	City of Salem
The bike lane ends on the west side of Washington Street before the approach at Mill Street.	Pedestrian and Bicycle Accommodation	An alternative to the above recommendation is to consider narrowing lanes on the southbound approach of Washington Street at Mill Street to accommodate a bike lane.	Middle	Medium	City of Salem
Pedestrians have to cross too many lanes.	Pedestrian and Bicycle Accommodation	Assess the feasibility of incorporating curb extensions to shorten crossing distances and tightening curb radii to slow down vehicles.	Short	Medium	City of Salem
Crashes are more likely to occur in dark conditions.	Traffic Signal Operations and Visibility	Assess street and pedestrian-scale lighting to increase visibility and reduce crashes during dark and low-light conditions.	Short	Low	City of Salem
Drivers encounter congestion and pedestrians wait too long for the walk signal to change.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing and coordinate signals within 1,500 feet of each other to enhance traffic flow and pedestrian safety.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Review and upgrade the signal equipment to incorporate technologies that can adapt and respond flexibly to changing conditions, thereby optimizing flow and reducing congestion.	Long	High	City of Salem
Drivers often run red lights, risking the safety of pedestrians.	Traffic Signal Operations and Visibility	Review clearance intervals and revise them to meet current standards, enhancing safety and traffic flow.	Short	Low	City of Salem
Drivers frequently get confused about lane assignments on the approaches and often end up in the wrong lane.	Pavement Markings and Signage	Consider installing signs and pavement markings (including dotted white lines in the intersection) in advance to guide drivers into the correct lanes.	Short	Low	City of Salem
14—Ropes Street at Washington Street					
Drivers often fail to yield to pedestrians.	Pedestrian and Bicycle Accommodation	Consider installing pedestrian crossing signs for the crosswalk on Washington Street near Ropes Street.	Short	Low	City of Salem

MUTCD = Manual on Uniform Traffic Control Devices.

Table 6

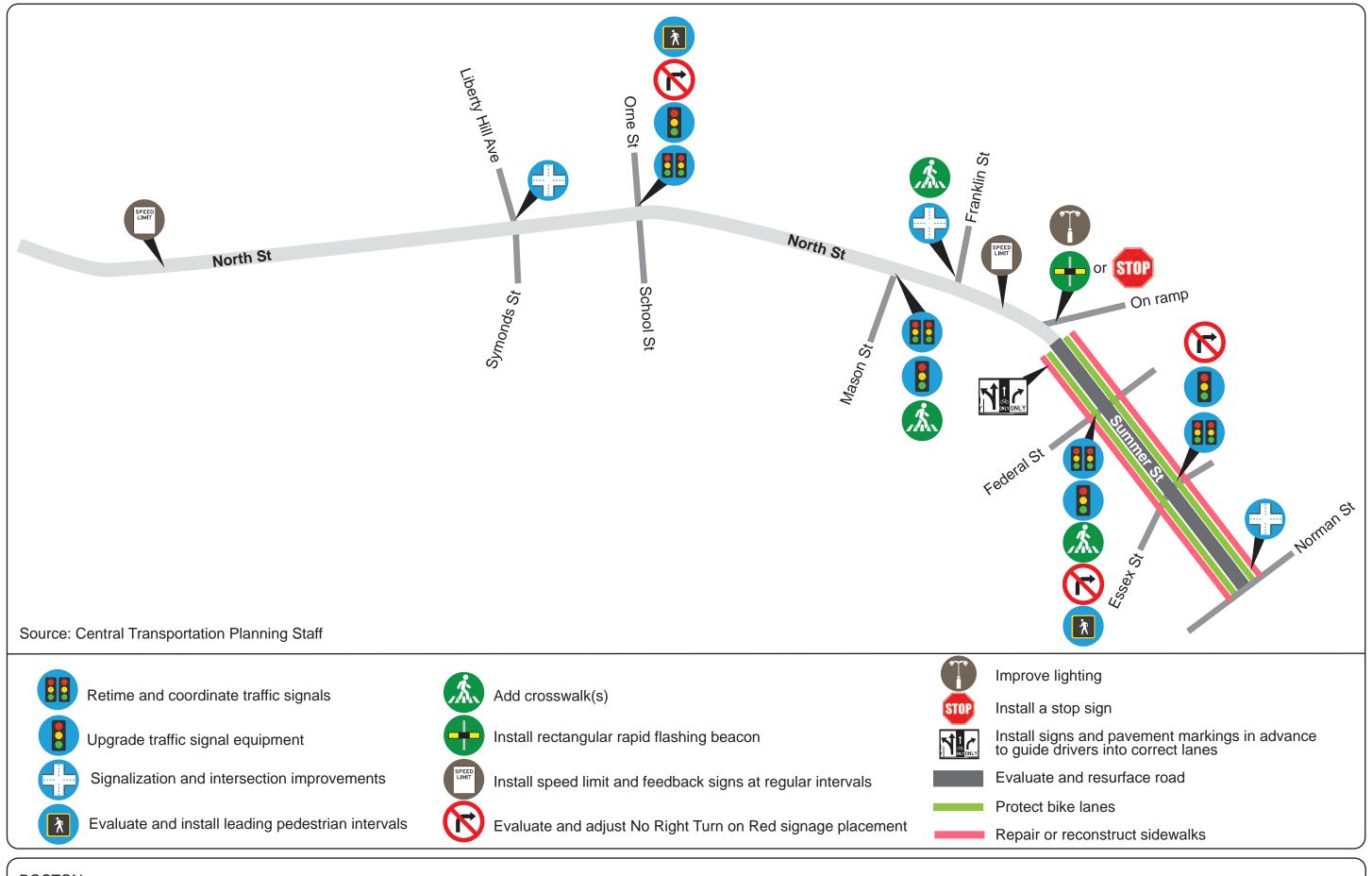
Potential Improvements on Lafayette Street									
Issue/	Safety	Suggested	Time	Cost	Responsibility				
Concern 15. Lefovette Street Segment	Category	Improvement	Frame						
15—Lafayette Street Segment	Troffic Cianal	Canaidar anhancing anfaty with traffic coloring aignal antiquization lighting and interposition	Long	Lliada	City of Colors				
The segment is part of a high-injury network, and several intersections along the segment are primary angle crash sites.	Traffic Signal Operations and Visibility	Consider enhancing safety with traffic calming, signal optimization, lighting, and intersection improvements.	Long	High	City of Salem				
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider daylighting intersections, installing curb extensions, or adding a rectangular rapid flashing beacon to enhance visibility and signal to drivers to yield.	Short	Medium	City of Salem				
Drivers park too close to intersections, which limits sight distance.	Pedestrian and Bike Accommodation	Consider removing parking near crosswalks to enhance visibility by installing curb extensions or daylighting intersections.	Middle	Medium	City of Salem				
Bike lane markings are fading and becoming hard to see.	Pedestrian and Bike Accommodation	Repaint bike lane markings and extend the markings through intersections to improve visibility.	Short	Low	City of Salem				
Bike lanes are unprotected, and drivers frequently use them to pass other vehicles.	Pedestrian and Bike Accommodation	Consider establishing parking-protected bike lanes on Lafayette Street.	Middle	High	City of Salem				
Bike lanes are unprotected, and drivers frequently use them to pass other vehicles.	Pedestrian and Bike Accommodation	Consider raising the bike lanes and connecting them to the sidewalk to enhance safety.	Long	High	City of Salem				
Sidewalks are in poor condition or need repairs.	Pedestrian and Bike Accommodation	Repair or reconstruct sidewalks and curb ramps to comply with ADA standards.	Middle	Medium	City of Salem				
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and adjust street and pedestrian-scale lighting to increase visibility.	Short	Low	City of Salem				
Drivers often speed on Lafayette Street, especially south of Loring Avenue.	Roadway Features	Install speed limit signs and speed feedback signs at regular intervals.	Short	Low	City of Salem				
Drivers often speed on Lafayette Street, especially south of Loring Avenue.	Roadway Features	Consider implementing the traffic calming and speed management improvements on Lafayette Street.	Long	High	City of Salem				
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Assess clearance intervals and update to current standards as necessary to enhance safety.	Short	Low	City of Salem				
Drivers encounter congestion, delays, and long queues in the segment.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing to enhance traffic flow.	Short	Medium	City of Salem				
Drivers encounter congestion, delays, and long queues in the segment.	Traffic Signal Operations and Visibility	Upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions.	Long	High	City of Salem				
Drivers encounter delays on the side streets.	Pavement Marking and Signage	Add pavement markings and signage to help traffic turning out of the side streets or consider installing traffic signals at intersections that meet signal warrants.	Short	Low	City of Salem				
The surface of the road is in poor condition and not well maintained.	Maintenance	Assess and provide routine maintenance or resurface Lafayette Street.	Middle	Medium	City of Salem				
Transit service is infrequent.	Transit	Coordinate with the MBTA to ensure that frequent and express bus service is available on Lafayette Street.	Short	Medium	City of Salem				
16—Washington Street, Dow Street at Lafayette Street									
The intersection is a primary site for angle crashes.	Traffic Signal Operations and Visibility	Assess clearance intervals and update them to current standards as needed to enhance safety and operations.	Short	Low	City of Salem				
The intersection is a primary site for angle crashes.	Traffic Signal Operations and Visibility	Consider a Road Safety Audit for this intersection and the intersections of Palmer and Leavitt Streets.	Short	Low	City of Salem				
Drivers park too close to the intersection, which limits sight distance.	Pedestrian and Bike Accommodation	Consider daylighting intersections by removing parking near crosswalks or installing curb extensions to enhance visibility.	Short	Medium	City of Salem				
Vulnerable road users are at high risk. (Drivers make right turns on red after stopping on Washington Street, which is unsafe.)	Pedestrian and Bike Accommodation	Consider prohibiting right turns on red after stopping on Washington Street to Lafayette Street southbound.	Short	Low	City of Salem				
Vulnerable road users are at high risk, especially when drivers make illegal left turns onto Dow Street from Washington Street.	Pedestrian and Bike Accommodation	Consider installing No Left Turn signs (both overhead and post-mounted) to alert drivers on Washington Street not to turn left onto Dow Street.	Short	Low	City of Salem				

Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
Drivers often fail to yield to pedestrians in crosswalks.	Pedestrian and Bike Accommodation	Evaluate and update the placement of No Turn On Red signage to ensure it complies with the MUTCD.	Short	Low	City of Salem
Pavement markings are fading and becoming difficult to see, especially at the intersections.	Pedestrian and Bike Accommodation	Repaint bike lane markings through the intersection to improve visibility and enhance safety for bicyclists.	Short	Low	City of Salem
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Assess clearance intervals and revise them to meet current safety and efficiency standards.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and adjust street and pedestrian-scale lighting to increase visibility.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Consider installing backplates with retroreflective borders on all signal heads to improve signal visibility.	Short	Low	City of Salem
Drivers encounter congestion and delays, and pedestrians have to wait too long for the Walk signal to appear.	Traffic Signal Operations and Visibility	Evaluate signal phasing and timing, and consider making improvements to reduce queues and congestion.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Assess and upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions.	Long	High	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Evaluate whether implementing a one-way flow around Lafayette Park and reversing some existing one-way directions could help improve safety and traffic flow, or enhance bike safety.	Long	High	City of Salem
17—Palmer Street at Lafayette Street					
The intersection is a primary site for angle crashes.	Traffic Signal Operations and Visibility	Install a traffic signal at the intersection to enhance pedestrian safety and traffic flow.	Long	High	City of Salem
Drivers often fail to yield to pedestrians in crosswalks.	Pedestrian and Bike Accommodation	Consider installing rectangular rapid flashing beacons on the uncontrolled marked crosswalk on Lafayette Street to improve pedestrian safety.	Short	Medium	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and adjust street and pedestrian-scale lighting to enhance visibility.	Short	Low	City of Salem
Drivers have to wait too long to turn out of Palmer Street.	Traffic Signal Operations and Visibility	Consider installing a traffic signal to improve traffic flow.	Long	High	City of Salem
Drivers have to wait too long to turn out of Palmer Street.	Traffic Signal Operations and Visibility	Consider reversing traffic directions on Leavitt Street and installing a traffic signal at the Leavitt Street intersection to improve traffic flow. This option provides more space between the signal at the intersection of Dow and Washington Streets for queue build-up.	Long	High	City of Salem
18—Leavitt Street at Lafayette Street					
Drivers often fail to yield to pedestrians in crosswalks.	Pedestrian and Bicycle Accommodation	Consider installing rectangular rapid flashing beacon at the uncontrolled marked crosswalk on Lafayette Street to improve pedestrian safety.	Middle	Medium	City of Salem
Drivers often fail to yield to pedestrians in crosswalks.	Traffic Signal Operations and Visibility	Consider reversing traffic directions on Palmer Street and installing a traffic signal at the Leavitt Street intersection to improve traffic flow. This option provides more space between the signal at the intersection of Dow and Washington Streets for queue build-up.	Long	High	City of Salem
Vulnerable road users are at high risk as drivers park close to intersections, which limits sight distance.	Pedestrian and Bike Accommodation	Consider daylighting the intersection or installing curb extensions by removing parking near crosswalks.	Short	Medium	City of Salem
19—Saltonstall/Hancock Street at Lafayette Street					
Drivers often fail to yield to pedestrians in crosswalks.	Pedestrian and Bicycle Accommodation	Consider installing rectangular rapid flashing beacons at the uncontrolled marked crosswalks on Lafayette Street near Hancock Street/Saltonstall Parkway.	Middle	Medium	City of Salem
Drivers park too close to the intersection, which limits sight distance.	Pedestrian and Bike Accommodation	Consider daylighting the intersection by removing parking near crosswalks or installing curb extensions to improve visibility.	Short	Medium	City of Salem
Crashes occur more often in dark conditions.	Intersection Visibility	Assess and enhance street and pedestrian-level lighting to improve visibility and reduce crashes in dark and low-light conditions.	Short	Low	City of Salem
There is congestion during school drop-off and pick-up times.	Pavement Markings and Signage	Consider using pavement markings and signage to prevent double parking, parking in bike lanes, and parking near crosswalks.	Short	Low	City of Salem

Issue/ Concern	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider upgrading the pedestrian signal equipment to comply with current MassDOT standards.	Long	High	City of Salem
Drivers become confused by the blinking green light and the simultaneous yellow and red lights.	Pedestrian and Bike Accommodation	Consider updating the flashing green, simultaneous yellow, and red signal indications as needed to comply with MassDOT standards.	Middle	Medium	City of Salem
The pedestrian signal equipment is outdated.	Traffic Signal Operations and Visibility	Upgrade the pedestrian signal equipment as necessary to comply with current MassDOT standards.	Long	High	City of Salem
Drivers have to wait too long to turn out of the side streets.	Traffic Signal Operations and Visibility	Assess and upgrade the pedestrian signal to full traffic signals to manage traffic on side streets, speeding, and system coordination. Ocean Avenue has more traffic than Leach Street; however, Leach Street is in a more central position.	Long	High	City of Salem
Drivers often park too close to intersections, which reduces sight distance and endangers pedestrian safety.	Pedestrian and Bike Accommodation	Consider daylighting the intersection or installing curb extensions to increase pedestrian visibility.	Middle	Medium	City of Salem
Pavement markings are fading and becoming increasingly difficult to see, especially at intersections.	Pedestrian and Bike Accommodation	Repaint bike lane and crosswalk markings to improve safety for bicyclists.	Short	Low	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-level lighting to increase visibility.	Short	Low	City of Salem
21—Laurel Street/Willow Avenue at Lafayette Street					
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider installing pedestrian crossing signs at the uncontrolled marked crosswalk on Lafayette Street to enhance pedestrian safety.	Middle	Medium	City of Salem
Drivers park too close to the intersection, which limits sight distance.	Pedestrian and Bike Accommodation	Consider daylighting the intersection by removing parking near the crosswalk or installing curb extensions to enhance visibility.	Short	Medium	City of Salem
Drivers have to wait too long to turn out of the side streets.	Pavement Marking and Signage	Assess and install pavement markings and signage to assist traffic turning onto the side streets.	Short	Low	City of Salem
22 Ocean Avenue at Lafayette Street					
Intersection is a primary angle crash site.	Traffic Signal Operations and Visibility	Assess and upgrade the pedestrian signal to full traffic signals to manage traffic on side streets, speeding, and system coordination.	Long	High	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider upgrading the pedestrian signal equipment to meet current MassDOT standards.	Long	High	City of Salem
Drivers become confused by the blinking green light and the simultaneous yellow and red lights.	Pedestrian and Bike Accommodation	Consider updating the flashing green, simultaneous yellow, and red signal indications as necessary to comply with current MassDOT standards.	Middle	Medium	City of Salem
Drivers park close to the intersection, which limits sight distance.	Pedestrian and Bike Accommodation	Consider installing curb extensions or daylighting the intersection to enhance pedestrian visibility.	Middle	Medium	City of Salem
Crashes are more likely to occur in dark conditions.	Intersection Visibility	Evaluate and improve street and pedestrian-level lighting to increase visibility.	Short	Low	City of Salem
Drivers have to wait too long to turn out of the side streets.	Traffic Signal Operations and Visibility	Upgrade the pedestrian signal to a full traffic signal to better control traffic on side streets, speeding, and system coordination. Ocean Avenue has more traffic than Leach Street; however, Leach Street is in a more central position.	Long	High	City of Salem
The pedestrian signal equipment is outdated.	Traffic Signal Operations and Visibility	Upgrade the pedestrian signal equipment as necessary to comply with current MassDOT standards.	Long	High	City of Salem
23—Forest Avenue/Clifton Avenue at Lafayette Street					
The intersection is a primary angle crash site.	Intersection Visibility	Consider installing curb extensions or daylighting the intersection by removing parking to enhance visibility and increase safety for pedestrians and drivers.	Short	Medium	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider adding pedestrian crossing signs to the uncontrolled marked crosswalk on Lafayette Street.	Middle	Medium	City of Salem
Drivers have to wait too long to turn out of the side streets.	Pavement Marking and Signage	Evaluate and install pavement markings and signage to assist traffic in turning out of the side streets.	Short	Low	City of Salem
Traffic queues frequently extend into the intersection, creating safety problems for pedestrians and drivers.	Traffic Signal Operations and Visibility	Assess and optimize signal timing and phasing sequence at the intersection of Lafayette Street and Loring Avenue to decrease queues.	Short	Medium	City of Salem

Issue/ Concern 24—Loring Avenue/West Avenue at Lafayette Street	Safety Category	Suggested Improvement	Time Frame	Cost	Responsibility
Drivers run red lights, risking pedestrian safety.	Traffic Signal Operations and Visibility	Assess clearance intervals and update them to comply with current standards.	Short	Low	City of Salem
The right-turn lane on Lafayette Street is too short for the amount of traffic it carries.	Intersection Geometry	Assess and consider lengthening the southbound right-turn lane on Lafayette Street to accommodate current traffic demands.	Short	Low	City of Salem
Vulnerable road users are at high risk at intersections.	Pedestrian and Bike Accommodation	Evaluate and update No Turn On Red signs to improve pedestrian safety at the intersection.	Short	Low	City of Salem
Drivers encounter congestion and delays, and pedestrians have to wait too long for the Walk signal.	Traffic Signal Operations and Visibility	Optimize signal timings and phasing to enhance pedestrian crossing experience and traffic flow.	Short	Medium	City of Salem
Drivers encounter congestion, delays, and long queues.	Traffic Signal Operations and Visibility	Assess and upgrade the signal equipment to incorporate technologies that can adapt and respond dynamically to changing conditions, thereby optimizing flow and reducing congestion.	Long	High	City of Salem
25—Marblehead Trail Crossing at Lafayette Street					
Drivers often fail to yield to pedestrians crossing Lafayette Street.	Pedestrian and Bike Accommodation	Consider adding pavement marking yield lines and Yield Here to Pedestrians signs (R1-5) to the existing rectangular rapid flashing beacon to enhance pedestrian safety.	Short	Low	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider installing rumble strips before the crosswalk to alert drivers to their approach.	Short	Low	City of Salem
Drivers often fail to yield to pedestrians crossing streets.	Pedestrian and Bike Accommodation	Consider installing a pedestrian refuge island or median island to shorten the crosswalk and provide space for pedestrians to pause.	Short	Low	City of Salem
The existing rectangular rapid flashing beacon is not working well.	Pedestrian and Bike Accommodation	Evaluate and upgrade the existing rectangular rapid flashing beacon to a traditional pedestrian crossing signal.	Middle	High	City of Salem
Sidewalks are missing or in need of repair.	Pedestrian and Bike Accommodation	Evaluate and repair sidewalks and/or reconstruct sidewalks to close gaps	Short	Medium	City of Salem
Bike lanes are unprotected, and drivers frequently use them to pass.	Pedestrian and Bike Accommodation	Consider installing parking-protected or buffered bike lanes, or raising the bike lanes and connecting them to the sidewalks.	Middle	Medium	City of Salem
Drivers often speed, particularly in this segment.	Roadway Features	Install speed limit signs and speed feedback signs at regular intervals to inform drivers of speed limits.	Short	Low	City of Salem

ADA = Americans with Disabilities Act. MUTCD = Manual on Uniform Traffic Control Devices.

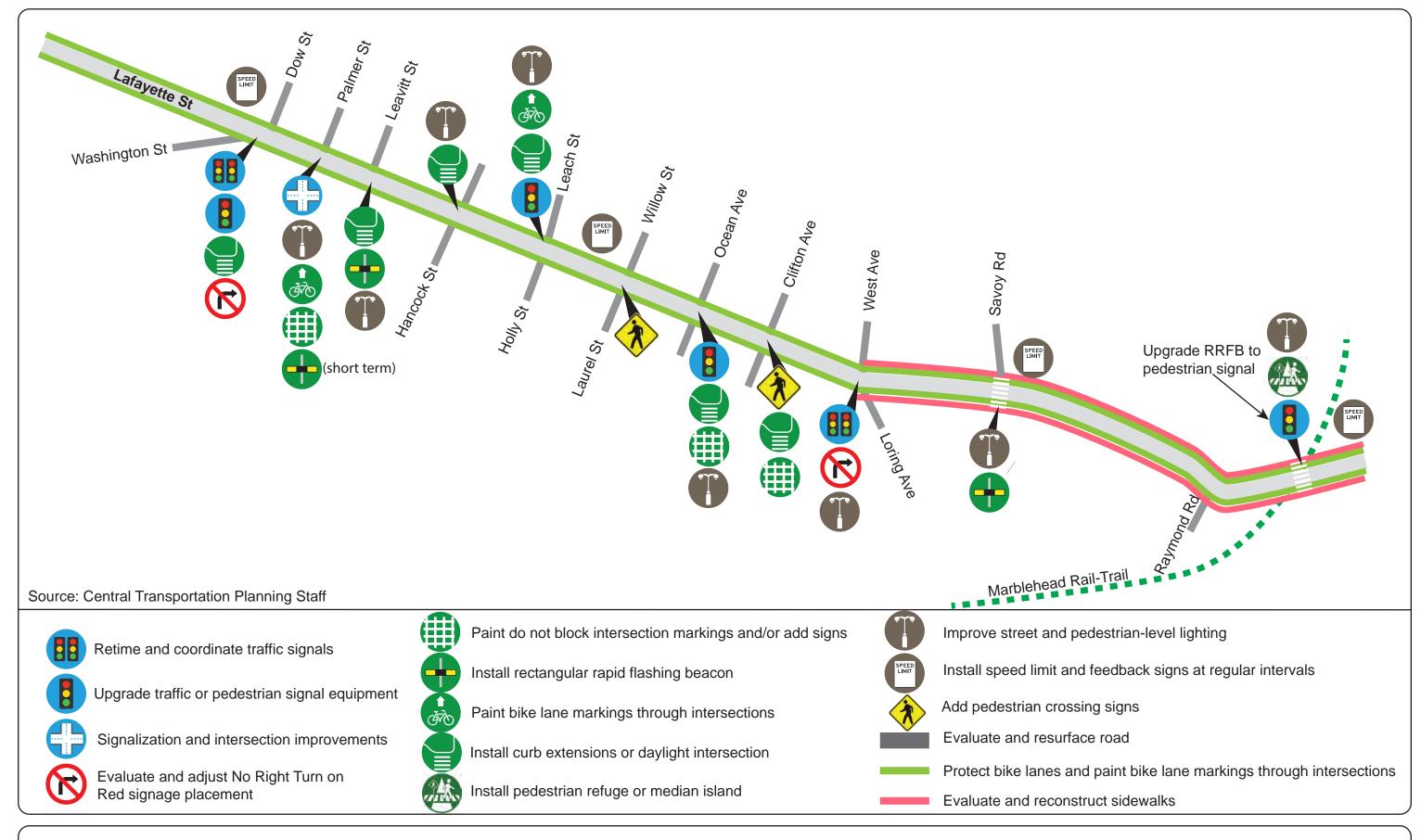
















Bike Lane Protection: Cycle Track



Curb Extension: Flush with Bollards



Pedestrian Refuge Island: Midblock Crossing



Bike Lane Protection: Parking-Protected



Curb Extension: Raised



Pedestrian Signal



Pedestrian-Scale Lighting: Sidewalk



Pedestrian-Scale Lighting: Intersection

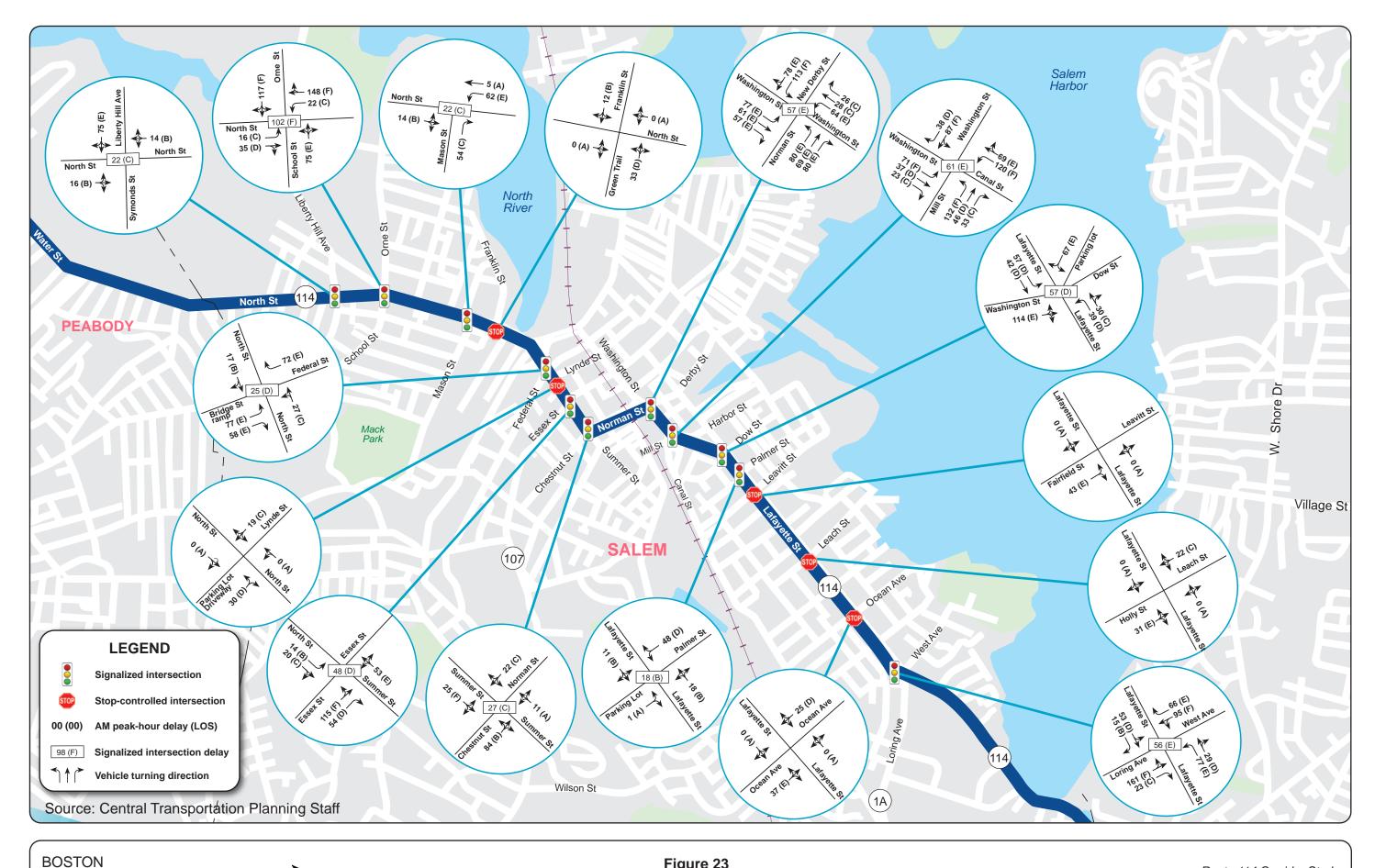


Speed Limit and Feedback Sign

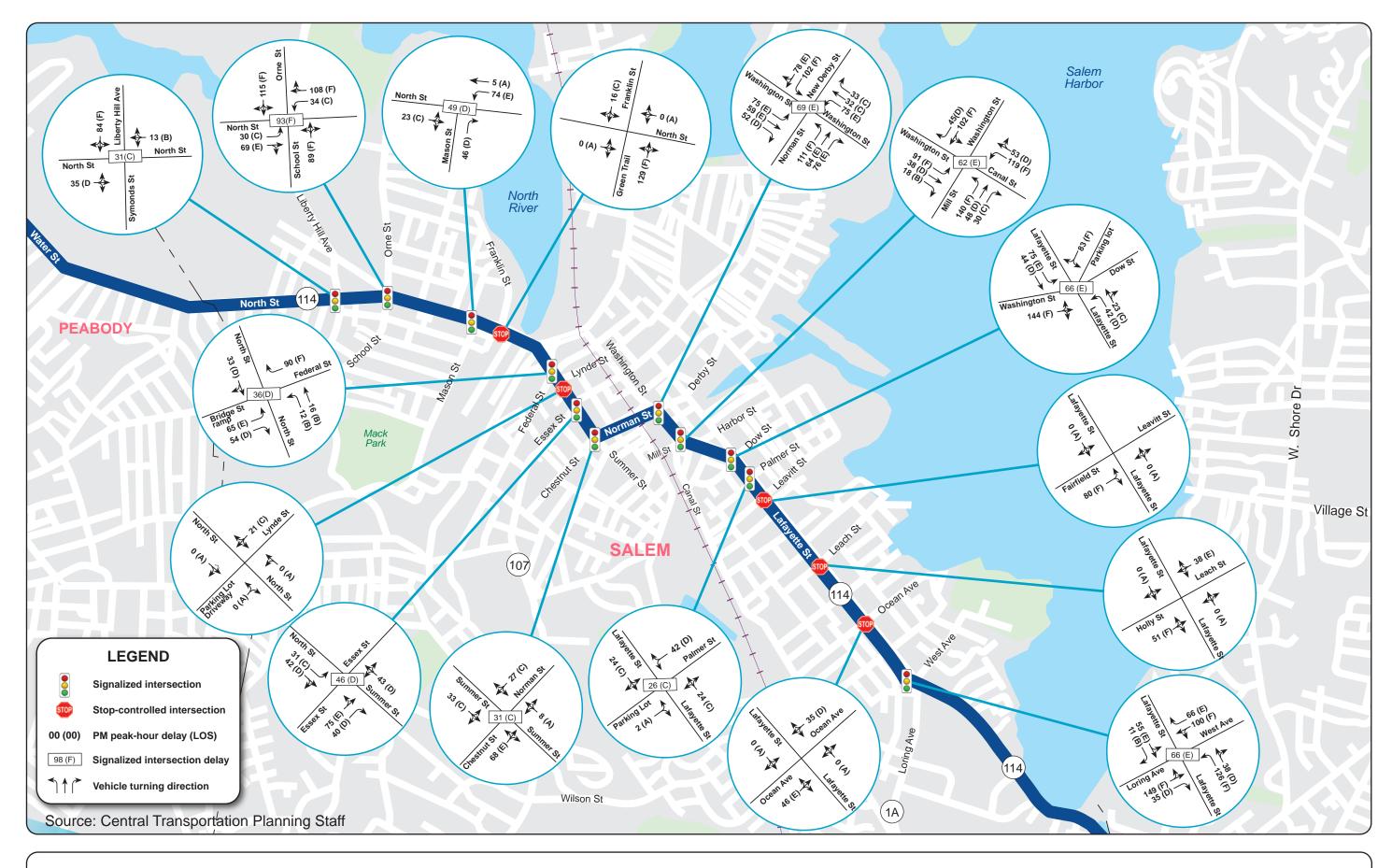
3.3 OPERATIONAL IMPACTS OF SUGGESTED IMPROVEMENTS

The Boston Region MPO's transportation planning model (TDM23 2.0) was used to forecast traffic for this study to the target year of 2040. The model results projected that between 2019 and 2040 traffic volumes on Route 114 in Salem would increase by approximately 0.019 percent annually. The results also indicate that there would be minimal increases in traffic volumes in the vicinity of the study area in the future.

If the potential improvements are implemented, travel conditions in 2040, measured by total travel time, are expected to decrease by as much as 17 percent compared to 2025 levels, while delays at intersections are expected to decline by as much as 22 percent. Figures 23 and 24 show the delays and LOS projected for 2040 with the proposed improvements.



MPO



3.4 SAFETY IMPACTS OF SUGGESTED IMPROVEMENTS

Each proposed safety improvement was selected to address specific safety deficiencies. Considering the limited funding for projects, improvements that reduce injurious and fatal crashes should be prioritized. Therefore, stakeholders must understand the extent to which a particular safety improvement, or a set of enhancements, can reduce the number of crashes. Table 7 illustrates some of the safety benefits of the proposed improvements.

Table 7
Safety Benefits of Proposed Improvements

I	Onfoto Daviella
Improvements	Safety Benefit
Install a rectangular rapid flashing beacon.	Up to 47 percent reduction in pedestrian
9	crashes
Install a high-visibility crosswalk.	Up to 40 percent reduction in pedestrian
	injuries
Improve street lighting.	Up to 28 percent reduction in nighttime injury
	crashes
Improve intersection lighting.	Up to 42 percent reduction in pedestrian
1 0 0	crashes
	Up to 38 percent reduction in nighttime crashes
Install advance yield or stop marking.	Up to 25 percent reduction in pedestrian
motali davanoe yiola or otop marking.	crashes
Provide sidewalks.	Up to 40 percent reduction in pedestrian
1 Tovide Sidewaiks.	crashes
Implement road dieta	0.0.0.00
Implement road diets.	Between 19 percent and 47 percent reduction in total crashes
Locate III I and Common and a state of the formation	1010 0.10000
Install leading pedestrian intervals.	Up to 13 percent reduction in pedestrian-
	vehicle crashes at intersections
Install separated bike lanes.	Converting traditional or flush-buffered bicycle
	lanes into separated bicycle lanes can reduce
	bicycle/vehicle crashes by up to 53 percent
Add stop signs or stop lines.	Up to 10 percent reduction in total crashes
	Up to 37 percent reduction in injury and fatal
	crashes
Modify clearance or change times to	Up to 50 percent reduction in red light running
standards.	Up to 14 percent reduction in all crashes
Add yellow retroreflective borders to signal	Up to 15 percent reduction in nighttime crashes
heads.	- F F

Source: Federal Highway Administration, Crash Modification Factors Clearinghouse.

Chapter 4—Conclusion and Next Steps

4.1 PROJECT DEVELOPMENT

Addressing deficiencies in the Route 114 corridor in Salem will involve converting the planning stage improvements into projects and identifying the necessary funding to implement them. The City of Salem is encouraged to start collaborating with MassDOT and the Boston Region MPO to initiate projects and secure funding for their design, engineering, and construction. The types of projects that can be started include the following:

- Complete Streets projects to modernize and enhance multimodal transportation in the corridor, especially for Lafayette Street near Salem State University
- Traffic signal modernization projects that aim to reduce congestion, especially on North Street and Lafayette Street
- Intersection improvement projects focused on enhancing safety, including signalization and geometry modifications at the intersections of Liberty Hill Avenue or Franklin Street on North Street, Summer Street at Norman Street, and Palmer Street or Leavitt Street on Lafayette Street
- Pavement rehabilitation directed at resurfacing and preserving pavement conditions on North Street and Lafayette Street
- Pedestrian and bicycle projects centered on safety, such as adding curb extensions, creating pedestrian refuge islands, protecting bike lanes, and installing rectangular rapid flashing beacons (RRFBs).
- Lighting upgrade projects at intersections and crossings to reduce crashes under dark conditions

4.2 PROJECT FUNDING

There are various types of funding available through MassDOT² and the Boston Region MPO³ for implementing projects, and Salem staff are encouraged to explore these funding options for projects on Route 114:

- MassDOT's Complete Streets Funding Program provides funding to promote Complete Streets, which offers safe and accessible options for all travel modes for all users.
- MassDOT's Local Bottleneck Reduction Program seeks to fund innovative solutions to modernize traffic signals and address congestion, including coordinating multiple traffic signals, retiming traffic signals, and upgrading traffic signal controllers and cabinets.

² See MassDOT's Grant Central website: https://madothway.my.site.com/GrantCentral/s/.

³ See the Boston Region MPO's summary of investment programs: https://www.bostonmpo.org/data/pdf/plans/TIP/TIP-Flyer-2024-03-23.pdf.

- MassDOT's Municipal Pavement Program aims to improve pavement conditions of municipally owned, state-numbered routes, especially those on the National Highway System (NHS), such as Route 114.
- MassDOT's Shared Streets and Spaces Program provides funding to municipalities to quickly enhance public spaces such as plazas, sidewalks, curbs, streets, bus stops, and parking areas to support health, safe mobility, and stronger commerce.
- MassDOT's Safe Route to Schools Program provides funding to municipalities to increase safe walking, biking, and rolling among public elementary, middle, and high school students.
- MassDOT's Local Early and Actionable Planning (LEAP) Program provides planning and design support for municipally prioritized transportation infrastructure projects.
- The MPO's Intersection Improvements investment program funds projects to update intersection layouts and signals, enhancing safety for all users.
- The MPO's Complete Streets investment program funds projects to modernize roadways to improve safety and mobility for all users. This program is independent of the MassDOT Complete Streets program.
- The MPO's Bicycle Network and Pedestrian Connections investment program funds projects to expand bicycle and pedestrian networks to improve safe access to transit, schools, employment centers, and shopping destinations.
- MassWorks' Infrastructure Program provides funding to municipalities for public infrastructure projects that support housing production, economic development, and job creation.

4.3 CONCLUSION

The improvements proposed in this report, if implemented, would significantly improve safety, mobility, and operations in the Route 114 corridor by supporting walking, biking, transit, and other transportation modes that connect Salem's downtown, schools, residential areas, and recreational spaces. The improvements would also provide stakeholders with the opportunity to review options for addressing deficiencies in the corridor before committing funds to a roadway improvement project. The next steps are to begin project development and seek funding. The City of Salem is encouraged to start collaborating with MassDOT and the Boston Region MPO to initiate projects and secure funding for their design, engineering, and construction.

Appendix A Advisory Committee and Comments

1: Advisory Committee

2: Review Comments

Part 1: Advisory Committee

Route 114 Corridor Study Advisory Committee

MPO Staff

Sean Rourke, MPO staff Jia Huang, MPO staff Stella Jordan, MPO staff Seth Asante, MPO staff

Salem City Councilors

Councilor Megan Stott, Ward 6, Councilor Caroline Watson-Felt, Ward 2 Councilor Cynthia Jerzylo, Ward 1 Councilor Jeff Cohen, Ward 5 Councilor Andrew Varela, Ward 7

Salem City Staff

David Kucharsky, Director of Traffic & Parking
Christina Hodge, Dept of Transportation
Lisa Peterson, Mayor's Office
Gisell De la Cruz, Engineering Dept
Tom Devine, Dept of Planning and Community Development
John Giardi, Electrical Department
Lt. Tucker, Salem Police Department
Chief Alan Dionne, Salem Fire Department
Peter Schaeublin, Salem Fire Department
Jaime Garmendia, Salem Transportation Commission, Chair
John Wathne, Bicycling and Shared Path Advisory Committee, Chair

Salem Public Schools

Bethann Jellison, Saltonstall School Principal João Barros, Transportation Manager for Salem Public School

Salem State University

Adria Duijvesteijn, Salem State University

MassDOT District 4 & OTP

Timothy Paris, MassDOT District 4 Katherine Duffy, MassDOT District 4 Sara Timoner, MassDOT District 4 Rachel Kelly, MassDOT Planning April Antonelli, MassDOT

MBTA

Miles Taylor

Part 2: Review Comments

1 message

Seth Asante <sasante@ctps.org>

Mon, Nov 24, 2025 at 2:34 PM

To: David Kucharsky <dkucharsky@salem.com>

Cc: Christina Hodge <chodge@salem.com>, Tom Devine <tdevine@salem.com>

Good afternoon! David.

Thank you for sharing your feedback. I value your input and would like to take a moment to address your comments, which I have highlighted in bold.

On page 17, Section 2.1 Study Area, please note that MassDOT owns the North Street Bridge overpass as well as the portion of North Street that traverses over the North River culvert.

We have added this information and clarified the MassDOT-owned portions in the report.

Figure 6 of the document, I am questioning the change in volumes from location 23 to 24 heading southbound, as well as location 24 to 23 northbound. Can the data be reviewed to ensure its accuracy?

We believe the directions and volumes for location 23 that were provided to us should be reversed. We have updated Figure 6 accordingly, and the counts now accurately display the traffic has diverted onto Raymond Road or Raymond Avenue. In the future, the city may need to conduct a traffic count to verify these changes.

On page 49, please note the following:

Project #612990 Flint to Commuter Station Entrance/Exit not to Washington Street

We have updated the reference to read "Flint Street to Commuter Station Entrance/Exit."

Please indicate that a Shared Streets grant was awarded to the City on Lafayette St from Loring Ave to Harborview Terrace.

We have added a note indicating a Shared Streets grant was awarded to the City for Lafayette Street, from Loring Avenue to Harborview Terrace.

Table 4 Issue 7 Federal Street Ramp at North Street: The suggested improvement states, "Assess the feasibility of eliminating the right turn slip lane from the ramp onto North Street due to low volumes." Is this the eastbound ramp making a right onto southbound North Street?

Yes, we have clarified this in Table 4.

Appendix C Traffic Safety Data: Can you confirm the collision diagram figures and tables match, and clarify what the dark grey boxes on the diagrams are supposed to represent?

We have reviewed the collision diagrams and ensured that they match the tables. The grey boxes indicate collisions that occurred under dark conditions; we have labeled them on the diagrams for clarity.

Finally, we will present the study results to the MPO board on December 4, and I will invite the advisory committee to attend and support the study and the projects planned for the corridor.

Thank you for your support and participation in this study.

Best regards, Seth

Seth Asante
Chief Transportation Planner

Central Transportation Planning Staff
Boston Region Metropolitan Planning Organization
857.702.3644 | sasante@ctps.org | bostonmpo.org



City of Salem, Massachusetts

Department of Transportation 98 Washington Street, 2nd Floor Salem, MA 01970 www.salem.com

Dominick Pangallo, Mayor

David Kucharsky, Transportation Director

November 13th, 2025

Seth Asante Chief Transportation Planner Central Transportation Planning Staff Boston Region Metropolitan Planning Organization

RE: Route 114 Corridor Study

Mr. Asante:

Thank you for the opportunity to review and provide feedback on the Route 114 Corridor Study. I appreciate the time you and other CTPS staff spent on developing this document. I believe overall it will help the city to further focus our ongoing efforts to improve safety and accessibility along this corridor as well as dovetail with other planning efforts including our recently completed Safety Action Plan, Complete Streets Policy, Neighborhood Traffic Calming Program and Bicycle Master Plan. Below are some comments and questions:

- On page 17 Section 2.1 Study Area please note that MassDOT owns the North Street Bridge overpass as well as the portion of North Street that traverses over the North River culvert.
- Figure 6 of the document, I am questioning the change in volumes from location 23 to 24 heading southbound as well as location 24 to 23 northbound. Can the data be reviewed to ensure their accuracy.
- On page 49 please note the following:
 - o Project # 612990 Flint to Commuter Station Entrance/Exit not to Washington Street
 - O Please indicate a Shared Streets grant was awarded to city on Lafayette St from Loring Ave to Harborview Terrace
- Table 4 Issue 7 Federal Street Ramp at North Street: The suggested improvement states "Assess feasibility of eliminating the right turn slip lane from the ramp onto North Street due to low volumes." Is this the eastbound ramp making a right onto southbound North Street?
- Appendix C Traffic Safety Data: Can you confirm the collision diagram figures and tables match and clarify what the dark grey boxes on the diagrams are supposed to represent.

Sincerely,

David Kucharsky

Director of Transportation

John Giardi < JGiardi@salem.com >

Mon, Nov 10, 2025 at 9:52 AM

To: Seth Asante <sasante@ctps.org>, "Krevat, Derek (DOT)"

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<jgarmendia@salem.com>, John Wathne <jwathne@structures-north.com>, Bethann

Jellison <bjellison@salemk12.org>, João Barros <jbarros@salemk12.org>, Adria

Duijvesteijn <aduijvesteijn@salemstate.edu>, "Paris, Timothy D. (DOT)"

<timothy.paris@state.ma.us>, Katherine Duffy <katherine.l.duffy@dot.state.ma.us>, "Sara

Timoner (DOT)" <sara.timoner@state.ma.us>, "Kelly, Rachel F. (DOT)"

<a href="

Good morning Seth, the City is considering no right turn on red which I am in favor of because people are blowing through red lights without stopping. This was designed to help the pedestrians and the motorists keep on moving in a safe fashion. Drivers are to aggressive. Another thing that is long overdue is concurrent traffic signals. We are developing at record pace in the City of Salem and waiving all the past parking ordinances that were in place. I'm all for that as well, at the same time we need to move traffic so we don't waste fuel and peoples time. We can achieve this safely by redesigning some of the streets so that they work to help us achieve this goal. We have a smart signal system that is almost ready to implement. This has taken a couple of years to build and we have one more step to go. I would be happy to meet with you to go over any questions you may have. Thank you for taking the time to read this.

City Electrician John Giardi

RE: Route 114 Corridor Study in Salem

Krevat, Derek (DOT) 1:03 PM

to me, dhong, Jenn, Annette

Hi Seth,

Thank you for checking in on this. I didn't have any comments. We'll be in touch with the City as this proceeds to project development, so would love to stay in the loop on the next steps for design, which I will plan to coordinate with the City on.

Kelly, Rachel F. (DOT)

Nov 10, 2025, 4:39 PM

Hi Seth,

I have no changes to the plan. I think it's great – very user friendly and lays out the data clearly. Well done.

Rachel F. Kelly Multimodal Planning | Office of Transportation Planning | MassDOT 10 Park Plaza, Suite 4150, Boston, MA 02116

Peter Schaeublin

Wed, Nov 12, 2:24 PM

To me, Derek, Megan, Caroline, Cynthia, Jeff, Andrew, David, Christina, Lisa, Gisell, Tom, John, David, Alan, Jaime, John, Bethann, João, Adria, Timothy, Katherine, Sara, Rachel, April, Miles

Mr. Asante,

The Salem Fire Department appreciates the City's ongoing efforts to improve pedestrian and traffic safety through the use of traffic calming measures. While we recognize the value of these initiatives in reducing vehicle speeds and enhancing walkability, we would like to share some concerns from a public safety response perspective.

Any restriction or reduction of roadway width — including the installation of bump-out crosswalks, speed humps, stanchions, or protected bike lanes — can significantly impact our ability to respond quickly and safely to emergencies. These features often limit the space available for motorists to yield to emergency vehicles, impede access for large fire apparatus, and can increase response times during critical incidents when every second counts.

We encourage continued collaboration between the Salem Fire Department, the Traffic and Parking Department, and City Planning to ensure that roadway design improvements balance the goals of pedestrian safety with the essential need for unobstructed emergency access. We are available to review proposed projects and provide input to help achieve both objectives.

Thank you for your attention to this important matter and for your ongoing partnership in keeping Salem safe for all.

Peter Schaeublin
Deputy Fire Chief | City of Salem
48 Lafayette Street
Salem, MA 01970
bus (978) 744-6990
pschaeublin@salem.com
https://www.salemma.gov/fire-department

David M. Tucker Thu, Nov 13, 6:01 PM

to me, Derek, Megan, Caroline, Cynthia, Jeff, Andrew, David, Christina, Lisa, Gisell, Tom, John, Alan, Peter, Jaime, John, Bethann, João, Adria, Timothy, Katherine, Sara, Rachel, April, Miles

Good afternoon Mr. Asante,

Thank you to you and your team for providing this very comprehensive look at the conditions along route 114 in Salem. We agree with many of the findings and recommendations in the draft report. We also agree with our colleagues at the Fire Department on their points.

The report accurately sums up the conditions found on the roadway. It is very congested, and is also needed by many pedestrians, cyclists and other vulnerable users. One aspect touched upon in the report, and commented on by Mr. Giardi, is the need to move traffic safely but as efficiently as possible. We need to find ways to gain the compliance of motorists so that they will abide by the motor vehicle laws and follow the various traffic signals and devices. From experience in stopping many motorists, most are good people who make mistakes in judgement. Often, those mistakes are tied to running late, frustration with traffic congestion, etc.

In terms of comments made by Deputy Chief Schaeublin, we feel much the same way. We have had a few projects and experiments which narrowed the roadway or tightened the turning radius of corners, but we have found in some cases that this created unsafe conditions for motorists. On roadways that have been narrowed, if you add emergency vehicle responses, snow removal, trash collection or road construction, then you find much more difficult conditions when dealing with traffic. If there is a crash, we find that multiple police units are occupied with a significant detour. Just listing some factors that we are all aware of but should be considered when designing any major changes.

We think that continuing the investment in signal upgrades and timing could be one key to moving traffic safely, which should also create improvements in the safety of our vulnerable road users.

Lastly, the report talks about lighting for dark areas. Would it be beneficial to add extra, focused lighting to crosswalks and intersections? This would help illuminate pedestrians, who are often wearing dark clothing or who are out in poor weather. And adding bright lighting to intersections could help reduce crashes.

Again, thank you all for your efforts on this corridor.

Sincerely,

Lt. David Tucker Traffic Division Salem Police Department 978-744-0171 x50271

Appendix B Traffic and Speed Data

1: Traffic Data

2: Speed Data

Part 1: Traffic Data

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255

Leg	Liberty	Hill Av	venue				North S	Street (F	Route 114)			Svn	nonc	ls Stı	reet		North S	Street (1	Route 11	4)		
Direction	Southbo						Westbo					1 -		ound			Eastbo	`	11	,		
Time	R	T	L	U	App I	Ped*	R	Т	L U	Apr	Ped*	R			U	App Ped*	R	Т	L	U	App Ped*	Int
2025-03-27 6:00AM	2	1			6	1	0	122	0 0			-		0	0	0 1	_	56		0	60 0	-
6:15AM	5	0	2		7	2	0	158	0 0			_	0	0	0	0 0		72		0	73 0	_
6:30AM	9	0	3		12	1	1	191	0 0			_	0	0	0	0 2	-	113		0	115 0	-
6:45AM	15	3	0		18	2	4	182	1 0			<u> </u>		0	0	0 1	_	117		0	120 0	-
Hourly Total	31	4	8		43	6		653	1 0			_		0	0	0 4	_	358		0	368 0	
7:00AM	13	4	1	0	18	0	1	227	0 0			0	0	0	0	0 2	1	131	5	0	137 0	383
7:15AM	29	0	2		31	1	3	217	0 0			-	0	0	0	0 0	_	144	11	0	158 0	-
7:30AM	48	19	6	0	73	3	16	209	0 0			-	0	0	0	0 3	_	131	29	0	166 0	_
7:45AM	38	13	4	0	55	4	4	195	0 0	199	2	0	0	0	0	0 1	_	140	9	0	154 0	408
Hourly Total	128	36	13	0	177	8	24	848	0 0	872	4	0	0	0	0	0 6	15	546	54	0	615 0	1664
8:00AM	16	3	1		20	1	3	196	1 0	200	2	0	0	0	0	0 1	6	122	5	0	133 0	353
8:15AM	17	1	3		21	0	2	229	0 0			-	0	0	0	0 0	_	106		0	116 0	-
8:30AM	14	1	1		16	1	4	205	0 0			-	0	0	0	0 4	_	181		0	189 0	
8:45AM	20	1	1		22	0		203	0 0			-		0	0	0 1		159		0	174 0	_
Hourly Total	67	6	6	0	79	2	12	833	1 0			-	0	0	0	0 6	_	568	21	0	612 0	-
3:00PM	24	4	5	0	33	2	4	203	0 0			-	0	0	0	0 0	_	169		0	183 0	_
3:15PM	22	8	3	0	33	3		192	2 0			-	0	0	0	0 0	_	165	6	0	182 0	_
3:30PM	28	5	2		35	1	0	156	1 0			<u> </u>	_	0	0	0 4	_	140		0	150 0	_
3:45PM	27	6	7	0	40	4	2	166	1 0			-	0	0	0	0 2		157	3	0	168 0	-
Hourly Total	101	23	17		141	10	7	717	4 0			_	0	0	0	0 6	_	631	24	0	683 0	_
4:00PM	37	6	0		43	2	2	173	1 0			-	0	0	0	0 1	-	155		0	172 0	-
4:15PM	33	4		0	37	1	1	188	0 0			_	_		0	0 2		176		0	189 0	-
4:30PM	29	9	2	0	40	5		208	1 0			-	0	0	0	0 0	_	168		0	193 0	-
4:45PM	41	9	3	0	53	1	2	187	4 0			-	0	0	0	0 4	_	148	7	0	156 0	_
Hourly Total	140	28	5	0	173	9		756	6 0			_	0	0	0	0 7	_	647	25	0	710 0	_
5:00PM	46	9	5	0	60	0		187	3 0				0	0	0	0 0		132	5	0	144 0	
5:15PM	34	7	4	0	45	1	3	215	0 0			-	0	0	0	0 4		163		0	178 0	_
5:30PM	42	6	2		50	0		199	0 0			_	0	0	0	0 3	_	155		0	167 0	_
5:45PM	27	4	3	0	34	3	4	169	3 0			_	0	0	0	0 2	_	155	3	0	167 0	-
Hourly Total	149	26	14		189	4	10	770	6 0			0	0	0	0	0 9		605	15	0	656 0	_
Total	616	123	63	0	802	39		4577	18 0					0	0	0 38		3355	149		3644 0	
			7.9% (-	33		98.2%	0.4% 0%			_		0% (_	92.1%	4.1% 0		3044 0	3103
% Approach			0.7% (_		50.3%	0.2% 0%			-	-	0% (_	36.8%	1.6% 0		10.0%	
Motorcycles	1	0	1	0	2	_	0.770	3	0.270 070			0			0	0 -	0	3		0	3 -	. 8
% Motorcycles			1.6% (0.1%	0% 0%			<u> </u>	_	0% (_	0.1%		_	0.1% -	0.1%
Lights	607	121	61		789	_		4475	17 0					0		0 -		3247				8872
% Lights						_			94.4% 0%					0% (_		96.0% 0			97.4%
Single-Unit Trucks	4	0	0		4	_	1	61	0 0			_		0		0 -	2	59	2		63 -	129
% Single-Unit Trucks	0.6%	0%	0% 0			_		1.3%	0% 0%			-		0% (1.4%		1.3% 0			1.4%
Articulated Trucks	1	0	0		1	_	0	10	0 0			-		0		0 -	0	9	1.570 0		10 -	21
% Articulated Trucks	0.2%	0%	0% 0				0%		0% 0%			-		0% (0%		0.7% 0			0.2%
Buses	0.2%	2	1		5		0%	24	1 0			-		0% (0 -	0 0 0	29	3		32 -	62
% Buses			1.6% (5.6% 0%			-		0% (2.0% 0			0.7%
Bicycles on Road	1	0	0		1		0 / 0	4	0 0			-		0 /0 (0 -	0 0	8	0		8 -	13
% Bicycles on Road	0.2%	0%			0.1%			0.1%	0% 0%			-		0% (-	_	0.2%			0.2% -	0.1%
Pedestrians	0.270		- 076 C	-	U.1 /U	37	0 /0	0.1 /0		0.170	- 16	_	-			- 38	_	0.4/0	- 0 /0 0		- 0	_
% Pedestrians	\vdash			_	- 04	.9%	H-				100%	-		-		- 100%				-	- 0	
	-				- 94		H-					_		-		- 100%	_		-		- 0	
Bicycles on Crosswalk		-		-		2	-				- 0	-					-	-	-			
% Bicycles on Crosswalk	-	-	-	-	- 5	.1%	-	-			- 0%	-	-	-	-	- 0%	-	-	-	-		1 1

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

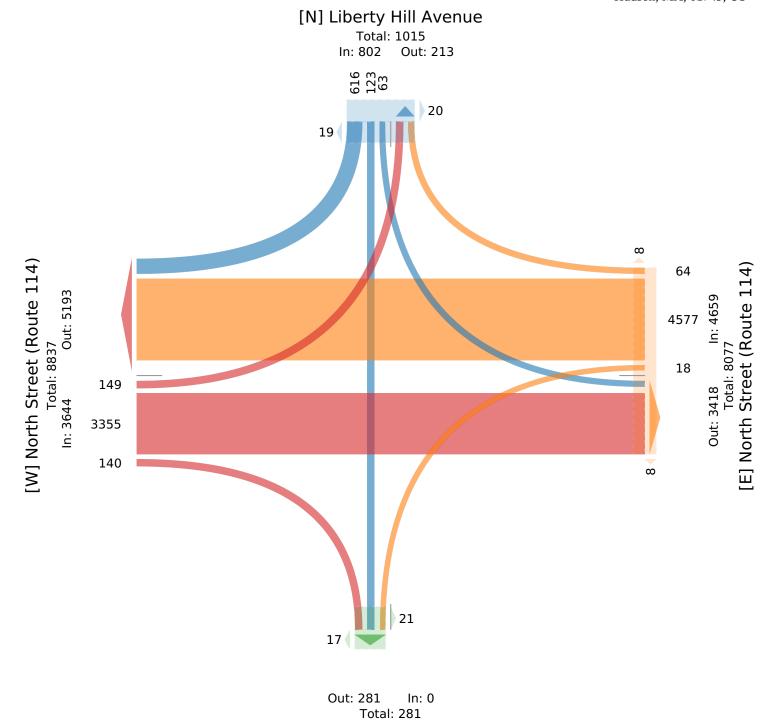
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



[S] Symonds Street

Thu Mar 27, 2025

AM Peak (7 AM - 8 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255

Leg	Liberty	Hill A	venue				North	Street (Rou	te 11	14)		Sym	ond	s St	reet		North :	Street (Route 1	14)			
Direction	Southb	ound					Westb	ound					Nort	hbo	und			Eastbo	und					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	Т	L	U Ap	Ped*	R	T	L	U	App P	ed*	Int
2025-03-27 7:00AM	13	4	1	0	18	0	1	227	0	0	228	0	0	0	0	0) 2	1	131	5	0	137	0	383
7:15AM	29	0	2	0	31	1	3	217	0	0	220	0	0	0	0	0	0	3	144	11	0	158	0	409
7:30AM	48	19	6	0	73	3	16	209	0	0	225	2	0	0	0	0 () 3	6	131	29	0	166	0	464
7:45AM	38	13	4	0	55	4	4	195	0	0	199	2	0	0	0	0 () 1	5	140	9	0	154	0	408
Total	128	36	13	0	177	8	24	848	0	0	872	4	0	0	0	0) 6	15	546	54	0	615	0	1664
% Approach	72.3%	20.3%	7.3%	0%	-	-	2.8%	97.2%	0% ()%	-	-	0% ()%	0% (0%		2.4%	88.8%	8.8%	0%	-	-	-
% Total	7.7%	2.2%	0.8%	0% 1	10.6%	-	1.4%	51.0%	0% ()% !	52.4%	-	0% ()%	0% (0% 09	о́ -	0.9%	32.8%	3.2%	0% 3	37.0%	-	-
PHF	0.667	0.474	0.542	-	0.606	-	0.375	0.931	-	-	0.953	-	-	-	-	-		0.625	0.944	0.466	-	0.929	-	0.896
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0) -	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0% ()%	0% (0%		0%	0%	0% (0%	0%	-	0%
Lights	128	35	13	0	176	-	24	820	0	0	844	-	0	0	0	0) -	15	515	52	0	582	-	1602
% Lights	100%	97.2%	100%	0% 9	99.4%	-	100%	96.7%	0% ()% 9	96.8%	-	0% ()%	0% (0%		100%	94.3%	96.3%	0% 9	94.6%	-	96.3%
Single-Unit Trucks	0	0	0	0	0	-	0	18	0	0	18	-	0	0	0	0 () -	0	22	1	0	23	-	41
% Single-Unit Trucks	0%	0%	0%	0%	0%	-	0%	2.1%	0% ()%	2.1%	-	0% ()%	0% (0%		0%	4.0%	1.9%	0%	3.7%	-	2.5%
Articulated Trucks	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0) -	0	4	0	0	4	-	6
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0.2%	0% ()%	0.2%	-	0% ()%	0% (0%		0%	0.7%	0%	0%	0.7%	-	0.4%
Buses	0	1	0	0	1	-	0	5	0	0	5	-	0	0	0	0) -	0	3	1	0	4	-	10
% Buses	0%	2.8%	0%	0%	0.6%	-	0%	0.6%	0% ()%	0.6%	-	0% ()%	0% (0%		0%	0.5%	1.9%	0%	0.7%	-	0.6%
Bicycles on Road	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0) -	0	2	0	0	2	-	5
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0.4%	0% ()%	0.3%	-	0% ()%	0% (0%		0%	0.4%	0% (0%	0.3%	-	0.3%
Pedestrians	-	-	-	-	-	8	-	-	-	-	-	4	-	-	-	-	- 6	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-	-	-	-	- 100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	- 0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	- 0%	-	-	-	-	-	-	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

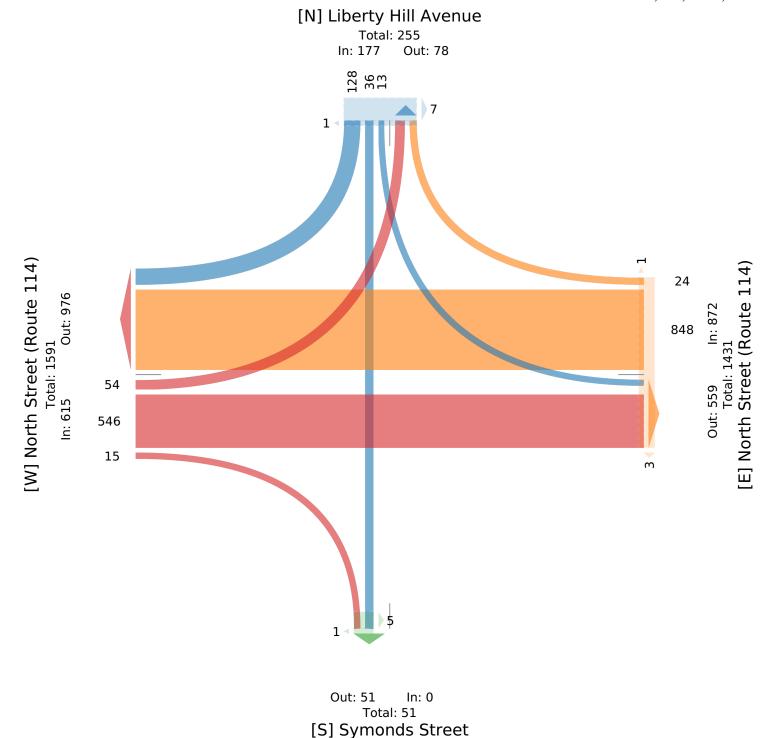
AM Peak (7 AM - 8 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255



Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255

Leg	Liberty	Hill A	venue				North	Street (Route	114))		Syn	ond	s Str	reet		North S	Street (I	Route 1	14)		П	
Direction	Southb	ound					Westb	ound					Nor	thbo	und			Eastbo	und					
Time	R	Т	L	U	App	Ped*	R	T	L	U	Арр І	ed*	R	T	L	U A p	p Ped*	R	T	L	U	Арр І	ed*	Int
2025-03-27 4:30PM	29	9	2	0	40	5	1	208	1	0	210	0	0	0	0	0	0 0	16	168	9	0	193	0	443
4:45PM	41	9	3	0	53	1	2	187	4	0	193	0	0	0	0	0	0 4	1	148	7	0	156	0	402
5:00PM	46	9	5	0	60	0	1	187	3	0	191	0	0	0	0	0	0 0	7	132	5	0	144	0	395
5:15PM	34	7	4	0	45	1	3	215	0	0	218	0	0	0	0	0	0 4	10	163	5	0	178	0	441
Total	150	34	14	0	198	7	7	797	8	0	812	0	0	0	0	0	0 8	34	611	26	0	671	0	1681
% Approach	75.8%	17.2%	7.1%	0%	-	-	0.9%	98.2%	1.0%	0%	-	-	0%	0% ()% (0%		5.1%	91.1%	3.9%	0%	-	-	-
% Total	8.9%	2.0%	0.8%	0% 1	11.8%	-	0.4%	47.4%	0.5%)% <i>-</i>	48.3%	-	0%	0% ()% (0% 0 °	6 -	2.0%	36.3%	1.5%	0% 3	39.9%	-	-
PHF	0.815	0.944	0.700	-	0.825	-	0.583	0.927	0.500	-	0.931	-	-	-	-	-		0.531	0.910	0.722	-	0.870	-	0.949
Motorcycles	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0 -	0	1	0	0	1	\neg	2
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0.1%	0%	0%	0.1%	-	0%	0% ()% (0%		0%	0.2%	0%	0%	0.1%	-	0.1%
Lights	149	34	14	0	197	-	7	781	8	0	796	-	0	0	0	0	0 -	33	595	25	0	653	-	1646
% Lights	99.3%	100%	100%	0% 9	99.5%	-	100%	98.0%	100%)% 9	98.0%	-	0%	0% ()% C	0%		97.1%	97.4%	96.2%	0% 9	97.3%	-	97.9%
Single-Unit Trucks	0	0	0	0	0	-	0	9	0	0	9	-	0	0	0	0	0 -	1	5	0	0	6	-	15
% Single-Unit Trucks	0%	0%	0%	0%	0%	-	0%	1.1%	0%	0%	1.1%	-	0%	0% ()% C	0%		2.9%	0.8%	0%	0%	0.9%	-	0.9%
Articulated Trucks	1	0	0	0	1	-	0	3	0	0	3	-	0	0	0	0	0 -	0	0	1	0	1	-	5
% Articulated Trucks	0.7%	0%	0%	0%	0.5%	-	0%	0.4%	0%	0%	0.4%	-	0%	0% ()% (0%		0%	0%	3.8%	0%	0.1%	-	0.3%
Buses	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0 -	0	7	0	0	7	-	10
% Buses	0%	0%	0%	0%	0%	-	0%	0.4%	0%	0%	0.4%	-	0%	0% ()% (0%		0%	1.1%	0%	0%	1.0%	-	0.6%
Bicycles on Road	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0 -	0	3	0	0	3	-	3
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0% ()% ()%		0%	0.5%	0%	0%	0.4%	-	0.2%
Pedestrians	-	-	-	-	-	7	-	-	-	-	-	0	-	-	-	-	- 8	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	- 100%	-	-	-	-	-	-	
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	- 0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	- 0%	-	-	-	-	-	-	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

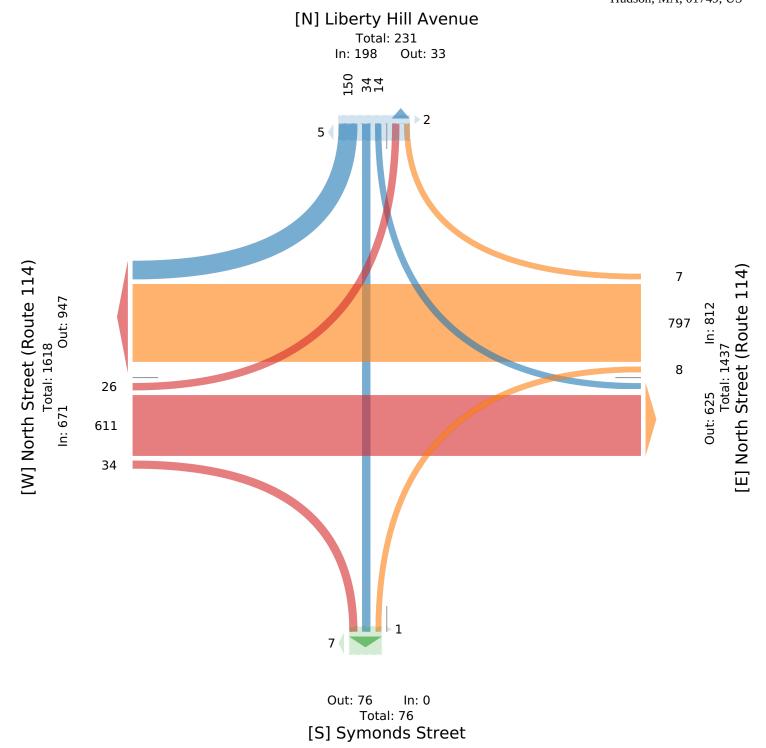
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

 $All\ Classes\ (Motorcycles, Lights, Single-Unit\ Trucks, Articulated\ Trucks, Buses, Pedestrians, Articulated\ Trucks, Buses, Buses, Articulated\ Trucks, Buses, Buse$

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279713, Location: 42.529801, -70.906255



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

Hudson, MA, 01749, US

r	ļ	A					Maria C		D 11 1			C-l- '	Ct ·				Maril C			MA, 0174	-	
Leg	Orne S							•	Route 114)			School						,	oute 114)			
Direction	Southb			**		To 146	Westbo				75 - 1-i-	Northbo				75 July	Eastbou				1.0. ¥	
Time	R	T		U	App	Ped*	R	T	L U			R	T	L U	App		R	T	L U		-	
2025-03-27 6:00AM	2	2	4		8	2	5	125	2 0		0	6	2	1 0	9	0	0	56	1 0		0	200
6:15AM	5	4	10		19	1	2	160	0 0		2	0	5	6 0	11	0	2	77	0 0		_	27
6:30AM	7	8	11		26	2	3	186	1 0		0	3	14	7 0	24	1	0	103	2 0		0	34
6:45AM	6	4	22		32	5	8	187	1 0		0	3	9	11 0	23	0	2	127	1 0		1	38
Hourly Total	20	18	47		85	10	18	658	4 0		2	12	30	25 0	67	1	4	363	4 0		1 1	120
7:00AM	11	9	19	0	39	1	9	187	4 0		0	5	10	17 0	32	1	1	129	0 0		1	40
7:15AM	10	9	27	0	46	2	18	198	2 0		0	4	26	8 0	38	0	2	137	1 0		0	44
7:30AM	9	28	38	0	75	3	15	179	5 0	199	0	6	28	15 0	49	2	2	132	1 0		4	45
7:45AM	5	28	34	0	67	4	9	172	3 0	184	0	3	19	19 0	41	2	6	130	0 0	136	1	42
Hourly Total	35	74	118	0	227	10	51	736	14 0	801	0	18	83	59 0	160	5	11	528	2 0	541	6 1	172
8:00AM	8	13	29	0	50	3	4	158	5 0	167	3	4	24	18 0	46	1	3	113	2 0	118	0	38
8:15AM	4	11	25	0	40	3	3	217	1 0	221	0	5	17	12 0	34	1	4	119	1 0	124	0	41
8:30AM	3	12	18	0	33	1	5	182	2 0	189	0	4	15	15 0	34	2	2	163	1 0	166	0	42
8:45AM	7	11	21	0	39	1	17	186	7 0	210	0	4	16	12 0	32	0	4	168	2 0	174	0	45
Hourly Total	22	47	93	0	162	8	29	743	15 0	787	3	17	72	57 0	146	4	13	563	6 0	582	0 1	167
3:00PM	6	26	29	0	61	2	3	185	5 0	193	0	8	22	20 0	50	0	8	159	4 0	171	0	47
3:15PM	5	25	28	0	58	1	8	172	2 0	182	2	7	29	13 0	49	0	3	164	5 0	172	0	46
3:30PM	2	38	25	0	65	1	14	145	7 0	166	4	4	27	10 0	41	5	5	138	1 0	144	0	41
3:45PM	4	21	25	0	50	6	6	148	5 0	159	6	9	13	19 0	41	1	4	152	1 0	157	0	40
Hourly Total	17	110	107	0	234	10	31	650	19 0	700	12	28	91	62 0	181	6	20	613	11 0	644	0 1	175
4:00PM	7	26	35		68	4	6	159	3 0	168	4	5	15	18 0	38	1	1	156	0 0		1	43
4:15PM	5	34	22		61	2	6	174	6 0		0	7	21	16 0	44	0	7	159	3 0		0	46
4:30PM	10	20	28		58	3	10	189	6 0		0	6	16	14 0	36	0	5	163	2 0		0	46
4:45PM	10	24	23	0	57	0	9	169	5 0		0	8	17	10 0	35	0	3	135	1 0		0	41
Hourly Total	32	104	108	0	244	9	31	691	20 0		4	26	69	58 0	153	1	16	613	6 0		_	177
5:00PM	5	33	36		74	0	6	169	4 0		0	3	11	20 0	34	0	5	131	1 0		0	42
5:15PM	5	35	27	0	67	2	10	186	3 0		0	10	11	18 0	39	2	10	156	1 0		0	47
5:30PM	4	43	33		80	2	5	173	3 0		4	7	18	21 0	46	1	5	152	1 0		0	46
5:45PM	3	21	38	0	62	1	14	175	5 0		3	7	20	10 0	37	3	3	168	3 0		0	46
Hourly Total	17	132	134	0	283	5	35	703	15 0		7	27	60	69 0	156	6	23	607	6 0		_	182
Ţ.																						
Total	143	485	607	0	1235	52	195	4181	87 0		28	128	405	330 0	863	23	87	3287	35 0		8 9	997
% Approach	_	39.3%			-		4.4% !		1.9% 0%			_		38.2% 0%			2.6% 9		1.0% 0%		-	
% Total	1.4%		6.1%				2.0%		0.9% 0%			1.3%		3.3% 0%			0.9% 3		0.4% 0%		-	
Motorcycles	0		1		1		0	2	0 0			0	0	0 0	0		0	5	0 0		-	
% Motorcycles	0%	0%	0.2%			-	0%	0%	0% 0%		-	0%	0%	0% 0%	0%	-	0%	0.2%	0% 0%		_	0.19
Lights	139	476	594	0	1209	-	186	4083	83 0		-	114	396	325 0	835	-	86	3181	34 0		_	969
% Lights		98.1%				-	_		95.4% 0%		-			98.5% 0%		-			97.1% 0%		_	7.39
Single-Unit Trucks	2		9		16	-	5	62	3 0		-	6	6	3 0	15	-	0	55	1 0			15
% Single-Unit Trucks	_	1.0%				-			3.4% 0%		-	4.7%	1.5%	0.9% 0%	1.7%	-			2.9% 0%		- 1	1.69
Articulated Trucks	1	1	0		2	-	0	8	0 0		-	0	1	0 0	1	-	0	9	0 0		-	2
% Articulated Trucks	-	0.2%			0.2%	-	0%	0.2%	0% 0%		-	0%	0.2%	0% 0%		-	0%	0.3%		0.3%	- 0	0.29
Buses	0			0	6	-	4	22	1 0		-	8	2	2 0	12	-	1	30	0 0		-	7
% Buses	-	0.6%	0.5%			-	2.1%	0.5%			-	6.3%		0.6% 0%		-	_	0.9%	0% 0%		- (0.89
Bicycles on Road	1	0	0	0	1	-	0	4	0 0	4	-	0	0	0 0	0	-	0	7	0 0	7	-	1
% Bicycles on Road	0.7%	0%	0%	0%	0.1%	-	0%	0.1%	0% 0%	0.1%	-	0%	0%	0% 0%	0%	-	0%	0.2%	0% 0%	0.2%	- 0	0.19
Pedestrians	-	-	-	-	-	51	-	-		-	24	-	-		-	22	-	-		-	8	
% Pedestrians	-	-	-	-	- !	98.1%	-	-		-	85.7%	-	-		-	95.7%	-	-		- 100	%	_
Bicycles on Crosswalk	-	-	-	-		1	-	-		_	4	-	-		-	1	-	-		-	0	
% Bicycles on Crosswalk	-	-	-	-	-	1.9%	-	-		-	14.3%	-	-		-	4.3%	-	-		- 0	%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

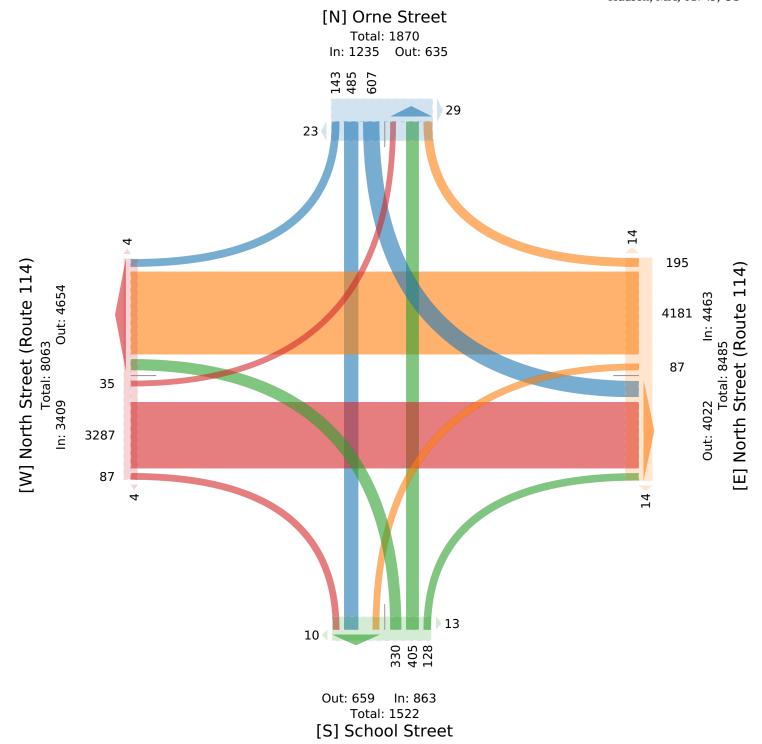
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062



Thu Mar 27, 2025

AM Peak (7 AM - 8 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062

Provided by: Precision Data Industries, LLC (PDI)

> 157 Washington Street, 2, Hudson, MA, 01749, US

Leg	Orne St	treet					North S	treet (F	Route 11	4)			School	Street					North	Street (Route	114)		\Box	
Direction	Southbo	ound					Westbo	und					Northb	ound					Eastbo	ound					l
Time	R	T	L	U	App	Ped*	R	T	L	U	App 1	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:00AM	11	9	19	0	39	1	9	187	4	0	200	0	5	10	17	0	32	1	1	129	0	0	130	1	401
7:15AM	10	9	27	0	46	2	18	198	2	0	218	0	4	26	8	0	38	0	2	137	1	0	140	0	442
7:30AM	9	28	38	0	75	3	15	179	5	0	199	0	6	28	15	0	49	2	2	132	1	0	135	4	458
7:45AM	5	28	34	0	67	4	9	172	3	0	184	0	3	19	19	0	41	2	6	130	0	0	136	1	428
Total	35	74	118	0	227	10	51	736	14	0	801	0	18	83	59	0	160	5	11	528	2	0	541	6	1729
% Approach	15.4%	32.6%	52.0%	0%	-	-	6.4%	91.9%	1.7% ()%	-	-	11.3%	51.9%	36.9% ()%	-	-	2.0%	97.6%	0.4%	0%	-	-	-
% Total	2.0%	4.3%	6.8%	0% :	13.1%	-	2.9%	42.6%	0.8% ()% 4	6.3%	-	1.0%	4.8%	3.4% ()%	9.3%	-	0.6%	30.5%	0.1%	0% 3	31.3%	-	-
PHF	0.773	0.661	0.776	-	0.753	-	0.708	0.933	0.700	- 1	0.922	-	0.750	0.741	0.776	-	0.816	-	0.458	0.965	0.500	-	0.968	-	0.943
Motorcycles	0	0	1	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Motorcycles	0%	0%	0.8%	0%	0.4%	-	0%	0%	0% ()%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Lights	33	73	114	0	220	-	47	714	13	0	774	-	17	81	56	0	154	-	11	498	2	0	511	-	1659
% Lights	94.3%	98.6%	96.6%	0% 9	96.9%	-	92.2%	97.0%	92.9% (9%	6.6%	-	94.4%	97.6%	94.9% ()% 9	96.3%	-	100%	94.3%	100%	0% 9	94.5%	-	96.0%
Single-Unit Trucks	0	0	1	0	1	-	2	16	1	0	19	-	0	0	2	0	2	-	0	21	0	0	21	-	43
% Single-Unit Trucks	0%	0%	0.8%	0%	0.4%	-	3.9%	2.2%	7.1% ()%	2.4%	-	0%	0%	3.4% ()%	1.3%	-	0%	4.0%	0%	0%	3.9%	-	2.5%
Articulated Trucks	1	0	0	0	1	-	0	1	0	0	1	-	0	1	0	0	1	-	0	4	0	0	4	-	7
% Articulated Trucks	2.9%	0%	0%	0%	0.4%	-	0%	0.1%	0% ()%	0.1%	-	0%	1.2%	0% ()%	0.6%	-	0%	0.8%	0%	0%	0.7%	-	0.4%
Buses	0	1	2	0	3	-	2	4	0	0	6	-	1	1	1	0	3	-	0	2	0	0	2	-	14
% Buses	0%	1.4%	1.7%	0%	1.3%	-	3.9%	0.5%	0% ()%	0.7%	-	5.6%	1.2%	1.7% ()%	1.9%	-	0%	0.4%	0%	0%	0.4%	-	0.8%
Bicycles on Road	1	0	0	0	1	-	0	1	0	0	1	-	0	0	0	0	0	-	0	3	0	0	3	-	5
% Bicycles on Road	2.9%	0%	0%	0%	0.4%	-	0%	0.1%	0% ()%	0.1%	-	0%	0%	0% ()%	0%	-	0%	0.6%	0%	0%	0.6%	-	0.3%
Pedestrians	-	-	-	-	-	9	-	-	-	-	-	0	-	-	-	-	-	4	-	-	-	-	-	6	
% Pedestrians	-	-	-	-	-	90.0%	-	-	-	-	-	-	-	-	-	-	- 8	80.0%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	10.0%	-	-	-	-	-	-	-	-	-	-	- 2	20.0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

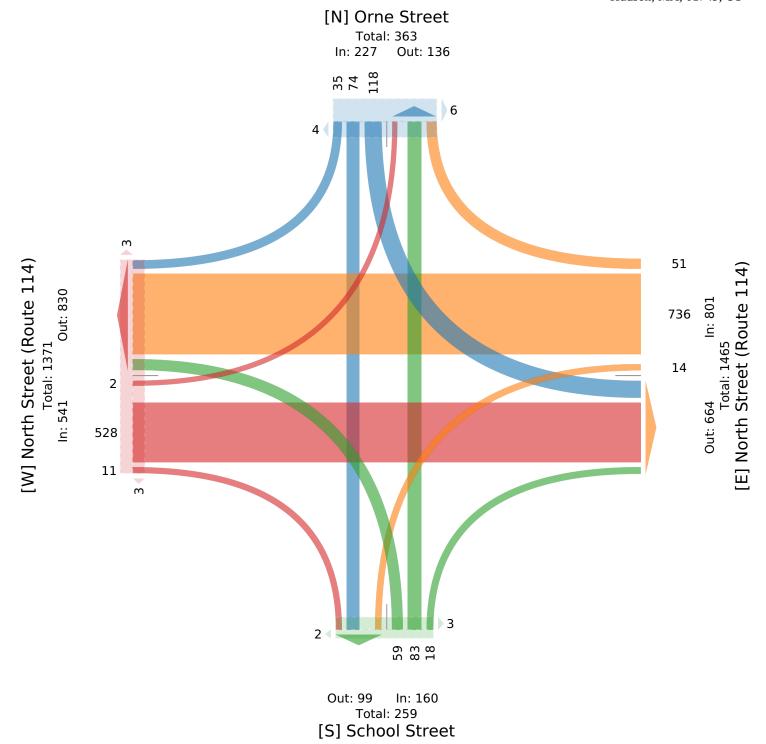
AM Peak (7 AM - 8 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062



Thu Mar 27, 2025

PM Peak (5 PM - 6 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062

Leg	Orne S	treet					North S	treet (Route 1	14)			School	Street					North	Street (Route	114)		\Box	
Direction	Southb	ound					Westbo	und					Northb	ound					Eastbo	ound					
Time	R	T	L	U	App	Ped*	R	T	L	U	Арр	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App P	*d*	Int
2025-03-27 5:00PM	5	33	36	0	74	0	6	169	4	0	179	0	3	11	20	0	34	0	5	131	1	0	137	0	424
5:15PM	5	35	27	0	67	2	10	186	3	0	199	0	10	11	18	0	39	2	10	156	1	0	167	0	472
5:30PM	4	43	33	0	80	2	5	173	3	0	181	4	7	18	21	0	46	1	5	152	1	0	158	0	465
5:45PM	3	21	38	0	62	1	14	175	5	0	194	3	7	20	10	0	37	3	3	168	3	0	174	0	467
Total	17	132	134	0	283	5	35	703	15	0	753	7	27	60	69	0	156	6	23	607	6	0	636	0	1828
% Approach	6.0%	46.6%	47.3%	0%	-	-	4.6% 9	93.4%	2.0% ()%	-	-	17.3%	38.5%	44.2% 0	%	-	-	3.6%	95.4%	0.9%	0%	-	-	-
% Total	0.9%	7.2%	7.3%	0% 1	5.5%	-	1.9%	38.5%	0.8%)% 4	11.2%	-	1.5%	3.3%	3.8% 0	%	8.5%	-	1.3%	33.2%	0.3%	0% 3	34.8%	-	-
PHF	0.850	0.767	0.882	- (0.884	-	0.625	0.944	0.750	-	0.945	-	0.675	0.750	0.821	- (0.848	-	0.575	0.904	0.500	-	0.915	-	0.968
Motorcycles	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0.1%	0% ()%	0.1%	-	0%	0%	0% 0	%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Lights	16	132	132	0	280	-	34	691	15	0	740	-	25	59	69	0	153	-	23	592	6	0	621	-	1794
% Lights	94.1%	100%	98.5%	0% 9	8.9%	-	97.1% 9	98.3%	100% ()% 9	98.3%	-	92.6%	98.3%	100% 0	% 9	8.1%	-	100%	97.5%	100%	0% 9	97.6%	-	98.1%
Single-Unit Trucks	1	0	2	0	3	-	1	6	0	0	7	-	0	1	0	0	1	-	0	4	0	0	4	-	15
% Single-Unit Trucks	5.9%	0%	1.5%	0%	1.1%	-	2.9%	0.9%	0% ()%	0.9%	-	0%	1.7%	0% 0	%	0.6%	-	0%	0.7%	0%	0%	0.6%	-	0.8%
Articulated Trucks	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	0	1	0	0	1	-	4
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0.4%	0% ()%	0.4%	-	0%	0%	0% 0	%	0%	-	0%	0.2%	0%	0%	0.2%	-	0.2%
Buses	0	0	0	0	0	-	0	1	0	0	1	-	2	0	0	0	2	-	0	7	0	0	7	-	10
% Buses	0%	0%	0%	0%	0%	-	0%	0.1%	0% ()%	0.1%	-	7.4%	0%	0% 0	%	1.3%	-	0%	1.2%	0%	0%	1.1%	-	0.5%
Bicycles on Road	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	0	3	0	0	3	-	4
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0.1%	0% (0%	0.1%	-	0%	0%	0% 0	%	0%	-	0%	0.5%	0%	0%	0.5%	-	0.2%
Pedestrians	-	-	-	-	-	5	-	-	-	-	-	7	-	-	-	-	-	6	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

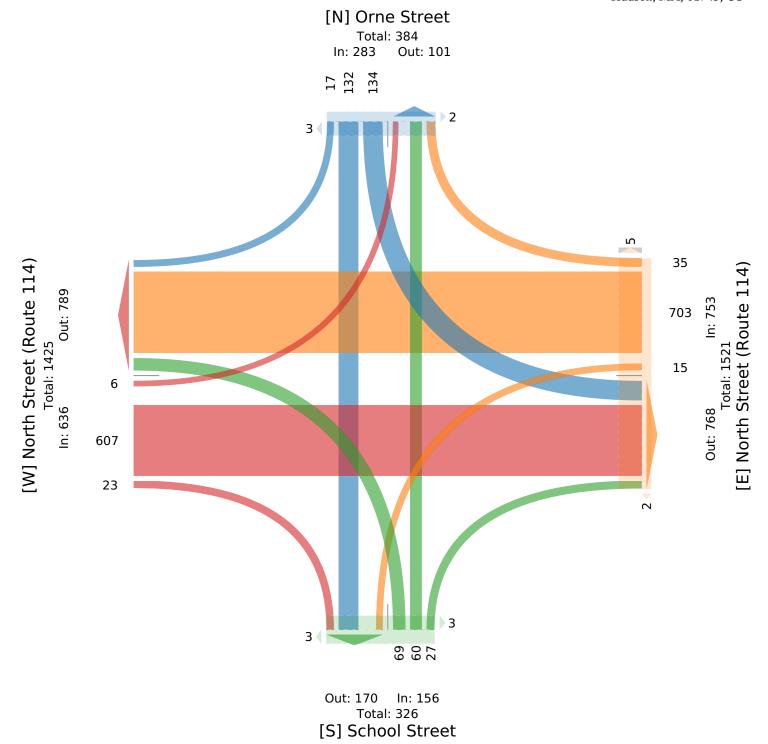
PM Peak (5 PM - 6 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279714, Location: 42.528973, -70.904062



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682

													Huc	dson, M	A, 017	49, 03
Leg	North S	Street (Rou	te 114)		North Str	eet (Route	114)			Mason Str	eet				
Direction	Southb	ound				Northbou	nd				Eastbound					
Time		R 7	U	App	Ped*	Т	L	U	App	Ped*	R	L	U	Арр	Ped*	Int
2025-03-27 6:00	AM	2 69	9 0	71	0	118	24	0	142	1	16	0	0	16	1	229
6:15	AM	3 89	9 0	92	0	143	23	0	166	2	17	0	0	17	2	275
6:30	AM	5 117	7 0	122	0	184	32	0	216	4	23	1	0	24	3	362
6:45	AM	4 150	6 0	160	0	193	61	0	254	2	29	0	0	29	0	443
Hourly T	otal 1	4 43:	0	445	0	638	140	0	778	9	85	1	0	86	6	1309
7:00		9 16:	0	170	0	181	42	0	223	2	21	0	0	21	1	414
7:15	AM 1	1 183		192	0	220	64	0	284	1	39	0	0	39	0	515
7:30	AM	5 175	5 0	180	0	196	61	0	257	5	36	0	0	36	1	473
7:45	AM	7 174	1 0	181	0	150	90	0	240	4	44	0	0	44	3	46
Hourly T		2 69:	1 0	723	0	747	257	0	1004	12	140	0	0	140	5	1867
8:00	_	4 185		189	0	175	80	0	255	1	55	0	0	55	5	499
8:15		5 15		162	2	188	49	0	237	0	44	0	0	44	0	443
8:30		4 192		196	3	212	68	0	280	3	51	0	0	51	1	527
8:45	_	6 187		193	1	183	36	0	219	0	50	0	0	50	3	462
Hourly T		9 72		740	6	758	233	0	991	4	200	0	0	200	9	1931
3:00	_	6 193		199	0	188	102	0	290	1	46	0	0	46	2	535
3:15		6 205		211	0	196	74	0	270	3	32	0	0	32	1	513
3:30	_	0 16:		171	0	163	80	0	243	2	47	0	0	47	6	461
3:45	_	4 180		190	0	158	122	0	280	3	32	0	0	32	3	502
Hourly T		6 745		771	0		378	0	1083	9	157	0	0	157	12	2011
•		2 172		184	0		107	0	269	3	37	0	0	37	2	490
4:00	_	5 185		190	0		107	0	302	3	49	0	0	49	2	541
		7 204		211	0	194			304		49		0	49	0	564
4:30	_	4 178		182	1	166	106 87	0	253	4	49	0	0	49		475
				767		720	408			4	175	0			3	
Hourly T					1			0	1128	14		0	0	175	/	2070
5:00		4 154		158	0	199	101	0	300	7	42	0	0	42	2	500
5:15		0 188		198	0	180	79	1	260 324	2	42 48	0	0	42	2	500
5:30		9 19:		200		208	116	0		4		0	0	48	0	572
5:45		3 195		208	1	169	70	0	239	2	41	0	0	41	4	488
Hourly T		6 728		764	1	756	366	1	1123	15	173	0	0	173	8	2060
	otal 15			4210	8	4324	1782	1	6107	63	930	1	0	931	47	11248
% Appro				-	-	70.8%	29.2%	0%	_	-	99.9%	0.1%	0%	-	-	
% T				37.4%	-	38.4%	15.8%	0%	54.3%	-	8.3%	0%	0%	8.3%	-	
Motorcy			5 0	5	-	2	3	0	5	-	3	0	0	3	-	13
% Motorcy	_			0.1%	-	0%	0.2%	0%	0.1%	-	0.3%	0%	0%	0.3%	-	0.1%
	thts 14			4068	-	4207	1727	1	5935	-	894	1	0	895	-	10898
% Li				96.6%	-	97.3%	96.9%	100%	97.2%	-	96.1%	100%	0%	96.1%	-	96.9%
Single-Unit Tru	cks	7 65	5 0	72	-	71	24	0	95	-	14	0	0	14	-	183
% Single-Unit Tru	_		0%	1.7%	-	1.6%	1.3%	0%	1.6%	-	1.5%	0%		1.5%	-	1.6%
Articulated Tru	_		0	9	-	8	4	0	12	-	0	0	0	0	-	2:
% Articulated Tru	cks 0	% 0.2%	0%	0.2%	-	0.2%	0.2%	0%	0.2%	-	0%	0%	0%	0%	-	0.2%
	ises	2 45	5 0	47	-	27	23	0	50	-	17	0	0	17	-	114
% B	ises 1.3°	% 1.1%	0%	1.1%	-	0.6%	1.3%	0%	0.8%	-	1.8%	0%	0%	1.8%	-	1.0%
Bicycles on R	oad	1 8	3 0	9	-	9	1	0	10	-	2	0	0	2	-	21
% Bicycles on R	oad 0.69	% 0.2%	0%	0.2%	-	0.2%	0.1%	0%	0.2%	-	0.2%	0%	0%	0.2%	-	0.2%
Pedestr		-		-	8	-	-	-	-	63	-	-	-	-	47	
% Pedestr	ans	-		-	100%	-	-	-	-	100%	-	-	-	-	100%	
Bicycles on Crossv		-		-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crossv	alk	-		_	0%	-	-	_	_	0%	-	-	-	-	0%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

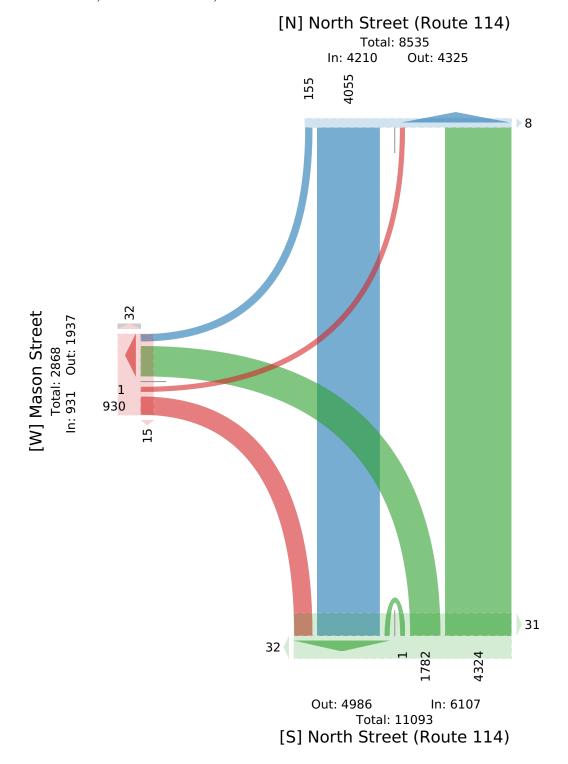
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682



Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682

Leg	North Stre	et (Route	114)			North Stree	et (Route	114)			Mason Str	eet				
Direction	Southboun	d				Northboun	d				Eastbound	l				
Time	R	T	U	Арр	Ped*	T	L	U	Арр	Ped*	R	L	U	Арр	Ped*	Int
2025-03-27 7:15AM	11	181	0	192	0	220	64	0	284	1	39	0	0	39	0	515
7:30AM	5	175	0	180	0	196	61	0	257	5	36	0	0	36	1	473
7:45AM	7	174	0	181	0	150	90	0	240	4	44	0	0	44	3	465
8:00AM	4	185	0	189	0	175	80	0	255	1	55	0	0	55	5	499
Total	27	715	0	742	0	741	295	0	1036	11	174	0	0	174	9	1952
% Approach	3.6%	96.4%	0%	-	-	71.5%	28.5%	0%	-	-	100%	0%	0%	-	-	-
% Total	1.4%	36.6%	0%	38.0%	-	38.0%	15.1%	0%	53.1%	-	8.9%	0%	0%	8.9%	-	-
PHF	0.614	0.962	-	0.962	-	0.852	0.819	-	0.921	-	0.796	-	-	0.796	-	0.952
Motorcycles	0	2	0	2	-	1	1	0	2	-	0	0	0	0	-	4
% Motorcycles	0%	0.3%	0%	0.3%	-	0.1%	0.3%	0%	0.2%	-	0%	0%	0%	0%	-	0.2%
Lights	24	683	0	707	-	709	289	0	998	-	167	0	0	167	-	1872
% Lights	88.9%	95.5%	0%	95.3%	-	95.7%	98.0%	0%	96.3%	-	96.0%	0%	0%	96.0%	-	95.9%
Single-Unit Trucks	3	19	0	22	-	19	2	0	21	-	3	0	0	3	-	46
% Single-Unit Trucks	11.1%	2.7%	0%	3.0%	-	2.6%	0.7%	0%	2.0%	-	1.7%	0%	0%	1.7%	-	2.4%
Articulated Trucks	0	2	0	2	-	2	0	0	2	-	0	0	0	0	-	4
% Articulated Trucks	0%	0.3%	0%	0.3%	-	0.3%	0%	0%	0.2%	-	0%	0%	0%	0%	-	0.2%
Buses	0	6	0	6	-	5	3	0	8	-	2	0	0	2	-	16
% Buses	0%	0.8%	0%	0.8%	-	0.7%	1.0%	0%	0.8%	-	1.1%	0%	0%	1.1%	-	0.8%
Bicycles on Road	0	3	0	3	-	5	0	0	5	-	2	0	0	2	-	10
% Bicycles on Road	0%	0.4%	0%	0.4%	-	0.7%	0%	0%	0.5%	-	1.1%	0%	0%	1.1%	-	0.5%
Pedestrians	-	-	-	-	0	-	-	-	-	11	-	-	-	-	9	
% Pedestrians	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	100%	
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

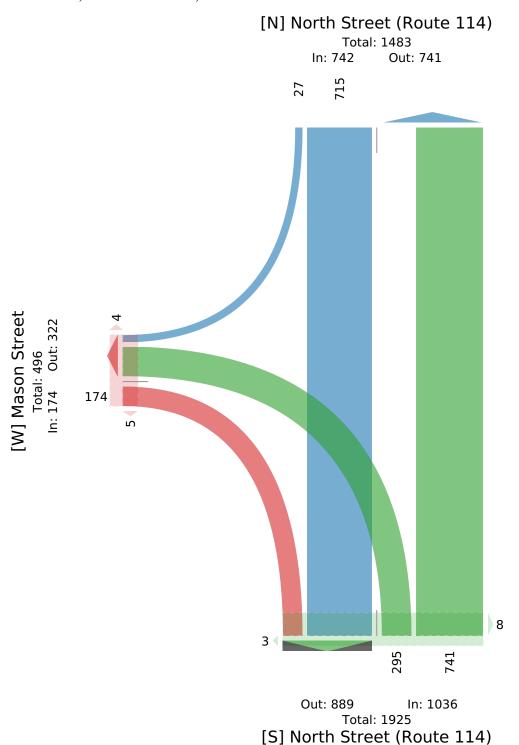
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682



Thu Mar 27, 2025

PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour

 $All\ Classes\ (Motorcycles,\ Lights,\ Single-Unit\ Trucks,\ Articulated\ Trucks,\ Buses,\ Pedestrians,$

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682

Leg	North Stre	et (Route	114)			North Stre	et (Route	114)			Mason Str	eet				
Direction	Southboun	d				Northboun	d				Eastbound	l				ı
Time	R	T	U	Арр	Ped*	T	L	U	Арр	Ped*	R	L	U	Арр	Ped*	Int
2025-03-27 3:45PM	4	186	0	190	0	158	122	0	280	3	32	0	0	32	3	502
4:00PM	12	172	0	184	0	162	107	0	269	3	37	0	0	37	2	490
4:15PM	5	185	0	190	0	194	108	0	302	3	49	0	0	49	2	541
4:30PM	7	204	0	211	0	198	106	0	304	4	49	0	0	49	0	564
Total	28	747	0	775	0	712	443	0	1155	13	167	0	0	167	7	2097
% Approach	3.6%	96.4%	0%	-	-	61.6%	38.4%	0%	-	-	100%	0%	0%	-	-	_
% Total	1.3%	35.6%	0%	37.0%	-	34.0%	21.1%	0%	55.1%	-	8.0%	0%	0%	8.0%	-	-
PHF	0.583	0.917	-	0.920	-	0.901	0.913	-	0.950	-	0.852	-	-	0.852	-	0.931
Motorcycles	0	2	0	2	-	0	0	0	0	-	0	0	0	0	-	2
% Motorcycles	0%	0.3%	0%	0.3%	-	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0.1%
Lights	27	732	0	759	-	696	435	0	1131	-	163	0	0	163	-	2053
% Lights	96.4%	98.0%	0%	97.9%	-	97.8%	98.2%	0%	97.9%	-	97.6%	0%	0%	97.6%	-	97.9%
Single-Unit Trucks	0	3	0	3	-	9	3	0	12	-	2	0	0	2	-	17
% Single-Unit Trucks	0%	0.4%	0%	0.4%	-	1.3%	0.7%	0%	1.0%	-	1.2%	0%	0%	1.2%	-	0.8%
Articulated Trucks	0	1	0	1	-	0	1	0	1	-	0	0	0	0	-	2
% Articulated Trucks	0%	0.1%	0%	0.1%	-	0%	0.2%	0%	0.1%	-	0%	0%	0%	0%	-	0.1%
Buses	1	7	0	8	-	5	3	0	8	-	2	0	0	2	-	18
% Buses	3.6%	0.9%	0%	1.0%	-	0.7%	0.7%	0%	0.7%	-	1.2%	0%	0%	1.2%	-	0.9%
Bicycles on Road	0	2	0	2	-	2	1	0	3	-	0	0	0	0	-	5
% Bicycles on Road	0%	0.3%	0%	0.3%	-	0.3%	0.2%	0%	0.3%	-	0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	0	-	-	-	-	13	-	-	-	-	7	
% Pedestrians	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	100%	
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

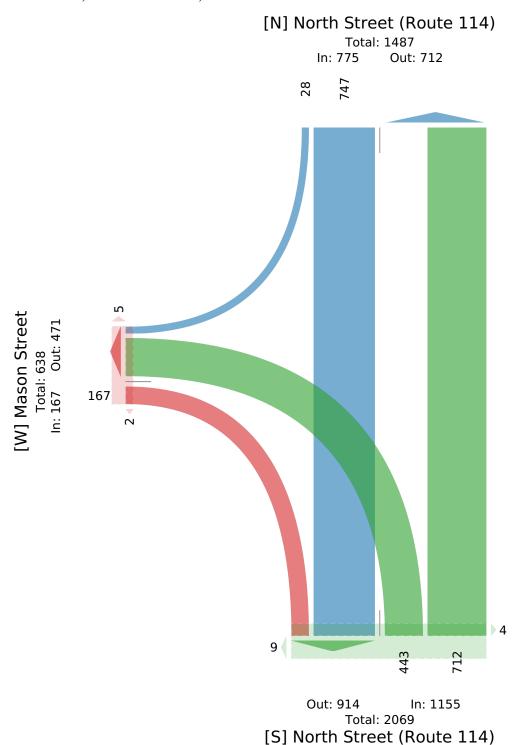
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279715, Location: 42.526246, -70.900682



250511- 4 North Street (Route 114) & Frankli... - TMC

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

ID: 1279718, Locat	tion: 42	2.5255	o66, -7	0.89	9781														wası ıdson,	_	•		
Leg	North	Street (Route 1	14)		Franklir	ı Stree	et .			North S	Street (F	Route 11	.4)			Green T	rail				\neg	
Direction	Southb	•		,		Westbo					Northb						Eastbou						
Time	R		L	U	App Ped*	R	Т	L U	App	Ped*	R	Т	L	U	Арр	Ped*	R	Т	L	U	App P	ed*	Int
2025-03-27 6:00AM	_		3	0	83 0		0	0 0	3	4	5	138	0	0	143	1	0	0		0	0	0	22
6:15AM	_		3	0	110 0		0	0 0	0	6	4	160	1	0	165	0		0		0	4	1	27
6:30AM	+		1	0	159 0		0	0 0	0	3	12	213	2	0	227	0	_	0		0	0	1	38
6:45AM	_		1	0	203 0		0	0 0	3	7	13	253	3	0	269	0	_	0		0	2	0	47
Hourly Tota	_		8	0	555 0	_	0	0 0	6	20	34	764	6	0	804	1		0		0	6	2	137
7:00AM			5	0	183 0	_	0	0 0	2	4	7	216	5	0	228	0		0		0	3	0	41
7:15AN	_		3	0	216 0	-	0	1 0	7	5	37	272	4	1	314	0		0	2	0	5	1	54
7:30AM	_		6	0	211 0	-	0	0 0	4	2	59	257	6	2	324	0	-	0		0	2	0	54
7:45AN	_		2	0	218 0	-	0	0 0	4	21	29	233	13	6	281	0		0		0	4	1	50
Hourly Tota	_		16	0	828 0		0	1 0	17	32	132	978	28	9	1147	0		0	3		14	2	200
8:00AM			6	0	244 2		0	0 0	2	8	31	235	4	1	271	0		0		0	8	3	52
8:15AM	_		4	0	208 0	-	0	1 0	2	9	20	241	6	1	268	1	_	0	0	0	6	1	48
8:30AM	+		2	0	241 0	-	0	0 0	2	7	16	273	7	0	296	0		0		0	5	0	54
8:45AN	+		8	0	247 0		0	1 0	4	6	15	223	8	0	246	0		0	3	0	7	0	50
Hourly Tota			20	0	940 2		0	2 0	10	30	82	972	25	2		1		0	5		26	4	205
3:00PN			3	0	237 0		1	0 0	1	5	31	279	2	0	312	0		0		0	10	0	56
3:15PM			1	0	237 0		0	0 0	4	4	30	264	7	0	301	0		0		0	8	1	55
3:30PM	_		7	0	203 0	-	0	2 0	4	9	34	242	3	0	279	0		0		0	10	2	49
3:45PN	+		4	0	203 0	_	0	1 0	4	2	33	264	5	0	302	0		0		0	5	3	53
Hourly Tota			15	0	899 0		1	3 0	13	20	128	1049	17	0		0		0		0	33	6	213
4:00PN	_		13	0	220 0	_	0	0 0	7	9	35	255	4	1	295	0		0		0	13	2	53
4:15PN	+		6	0	236 3		0	1 0	3	3	22	276	3	0	301	0	_	1		0	12	0	55
4:30PM	+		4	0	258 1	 	0	1 0	6	12	34	302	4	1	341	0		0		0	18	0	62
4:45PN			3	1	233 1	1	0	0 0	1	2	20	241	2	0	263	1	_	0		0	5	0	49
Hourly Tota			14	1	937 5	_	0	2 0	17	26	111	1074	13	2	1200	1	27	1		0	48	2	220
5:00PN	_		3	0	192 1	_	0	1 0	6	12	26	283	2	0	311	0		0		0	12	1	52
5:15PN	_		3	1	231 0	-	0	1 0	8	11	38	213	3	0	254	0	_	0	1	0	4	2	49
5:30PN	+		6	0	231 0	_	0	0 0	2	6	26	267	<u>5</u>	0	298	0		0		0	10	1	54
5:45PN			3	0	236 0		0	0 0	6	4	22	210	3	0	235	0		1		0	17	0	49
Hourly Tota	_		15	1	897 1		0	2 0	22	33	112	973	13	0		0		1		0	43	4	206
, and the second	_																						
Tota			88		5056 8		1	10 0	85	161	599	5810	102	13	6524	3		2		0	170	20	1183
% Approach		96.6%	1.7%	0%		+		11.8% 0%	-	-	_	89.1%	1.6%		<u>-</u>				31.8% 0		-	-	
% Tota		41.3%	0.7%		42.7% -	0.6%		0.1% 0%	0.7%	-		49.1%	0.9%				1.0%		0.5% 0			-	
Motorcycle			0	0	7 -	0	0	0 0	0	-	1	2	0	0	3		0	0		0	0	-	1
% Motorcycle	+		0%	0%	0.1%	0%	0%	0% 0%	0%	-	0.2%	0%	0%	0%	0%	-	0%	0%	0% 0		0%		0.19
Light			84		4909 -	67	1	10 0	78	-	588	5655	95	13	6351	-	108	2		0	160	\rightarrow	1149
% Lights			95.5%			+		100% 0%		-			93.1% 1				94.7%					-	97.29
Single-Unit Trucks	+		3	0	67 -	6	0	0 0	6	-	8	78	7	0	93		4	0	4	0	8	-	17
% Single-Unit Trucks	_		3.4%		1.3% -	8.1%	0%	0% 0%		-	1.3%	1.3%	6.9%		1.4%	-	3.5%		7.4% 0		4.7%	-	1.59
Articulated Trucks			0	0	8 -	0	0	0 0	0	-	0	13	0	0	13	-	2	0	0		2		2
% Articulated Trucks			0%		0.2%	0%	0%	0% 0%	0%	-	0%		0%		0.2%		1.8%	0%	0% 0				0.29
Buse	_		0	0	59 -	0	0	0 0	0	-	2		0	0	54		0	0	0		0		11
% Buse	_	1.2%	0%		1.2% -	0%	0%	0% 0%	0%	-	0.3%		0%		0.8%	-	0%	0%	0% 0		0%	-	1.09
Bicycles on Road	+		1	0	6 -	1	0	0 0	1	-	0	10	0	0	10	-	0	0	0		0		1
% Bicycles on Road	+	0.1%	1.1%	0%	0.1%	1.4%	0%	0% 0%	1.2%	-	0%	0.2%	0%	0%	0.2%	-	0%	0%	0% 0)%	0%		0.19
Pedestrian		-	-	-	- 8	-	-		-	156	-	-	-	-	-	3	-	-	-	-	-	20	
% Pedestrian:	_	-	-	-	- 100%	-	-		- !	96.9%	-	-	-	-	-	100%	-	-	-	-	- 10	$\overline{}$	
Bicycles on Crosswall		-	-	-	- 0		-		-	5	-	-	-	-	-	0		-	-		-	0	
% Bicycles on Crosswall	- د	-	-	-	- 0%	-	-		-	3.1%	-	-	-	-	-	0%	-	-	-	-	-	0%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 4 North Street (Route 114) & Frankli... - TMC

Thu Mar 27, 2025

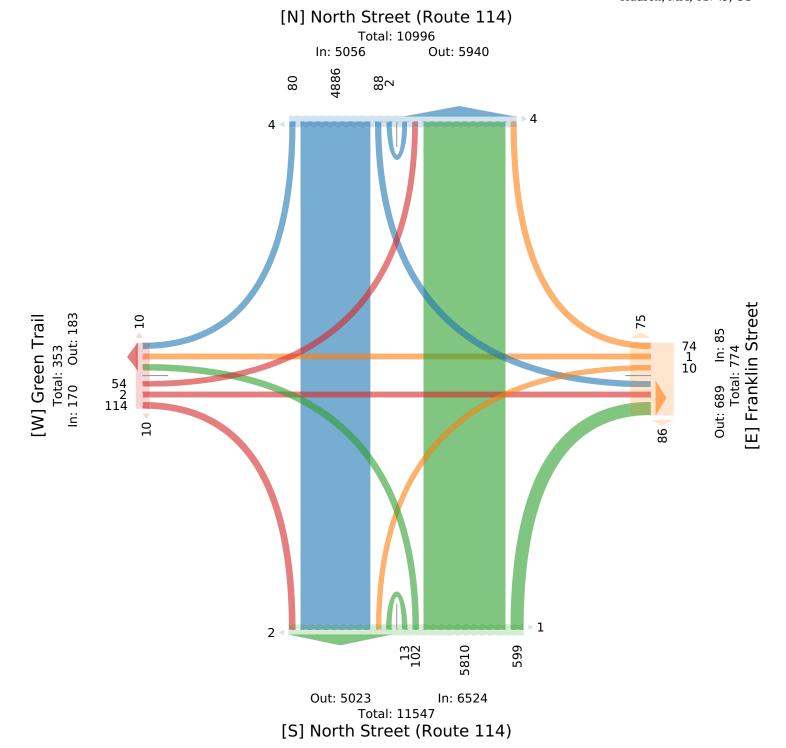
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279718, Location: 42.525566, -70.899781



250511-4 North Street (Route 114) & Frankli... - TMC

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279718, Location: 42.525566, -70.899781

Leg	North S	Street (I	Route 1	14)			Frankli	n St	reet				North S	Street (F	Route 1	14)			Green T	rail					
Direction	Southbo	ound					Westbo	und	l				Northb	ound					Eastbou	nd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App 1	Ped*	Int
2025-03-27 7:15AM	1	212	3	0	216	0	6	0	1	0	7	5	37	272	4	1	314	0	3	0	2	0	5	1	542
7:30AM	5	200	6	0	211	0	4	0	0	0	4	2	59	257	6	2	324	0	2	0	0	0	2	0	541
7:45AM	5	211	2	0	218	0	4	0	0	0	4	21	29	233	13	6	281	0	3	0	1	0	4	1	507
8:00AM	9	229	6	0	244	2	2	0	0	0	2	8	31	235	4	1	271	0	8	0	0	0	8	3	525
Total	20	852	17	0	889	2	16	0	1	0	17	36	156	997	27	10	1190	0	16	0	3	0	19	5	2115
% Approach	2.2%	95.8%	1.9%	0%	-	-	94.1%	0%	5.9%	0%	-	-	13.1%	83.8%	2.3%	0.8%	-	-	84.2% ()% :	15.8% ()%	-	-	-[
% Total	0.9%	40.3%	0.8%	0% 4	42.0%	-	0.8%	0%	0%	0%	0.8%	-	7.4%	47.1%	1.3%	0.5%	56.3%	-	0.8% ()%	0.1% ()% (0.9%	-	-[
PHF	0.563	0.930	0.708	-	0.913	-	0.750	-	0.250	-	0.667	-	0.661	0.920	0.519	0.417	0.916	-	0.500	-	0.375	- 0).594	-	0.976
Motorcycles	0	1	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Motorcycles	0%	0.1%	0%	0%	0.1%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0% ()%	0% ()%	0%	-	0%
Lights	18	829	16	0	863	-	14	0	1	0	15	-	153	964	25	10	1152	-	14	0	3	0	17	-	2047
% Lights	90.0%	97.3%	94.1%	0% 9	97.1%	-	87.5%	0%	100%	0% 8	38.2%	-	98.1%	96.7%	92.6%	100%	96.8%	-	87.5% ()%	100% ()% 89	9.5%	-	96.8%
Single-Unit Trucks	0	15	1	0	16	-	1	0	0	0	1	-	2	21	2	0	25	-	2	0	0	0	2	-	44
% Single-Unit Trucks	0%	1.8%	5.9%	0%	1.8%	-	6.3%	0%	0%	0%	5.9%	-	1.3%	2.1%	7.4%	0%	2.1%	-	12.5% ()%	0% ()% 10	0.5%	-	2.1%
Articulated Trucks	0	1	0	0	1	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	2
% Articulated Trucks	0%	0.1%	0%	0%	0.1%	-	0%	0%	0%	0%	0%	-	0%	0.1%	0%	0%	0.1%	-	0% ()%	0% ()%	0%	-	0.1%
Buses	0	6	0	0	6	-	0	0	0	0	0	-	1	8	0	0	9	-	0	0	0	0	0	-	15
% Buses	0%	0.7%	0%	0%	0.7%	-	0%	0%	0%	0%	0%	-	0.6%	0.8%	0%	0%	0.8%	-	0% ()%	0% ()%	0%	-	0.7%
Bicycles on Road	2	0	0	0	2	-	1	0	0	0	1	-	0	3	0	0	3	-	0	0	0	0	0	-	6
% Bicycles on Road	10.0%	0%	0%	0%	0.2%	-	6.3%	0%	0%	0%	5.9%	-	0%	0.3%	0%	0%	0.3%	_	0% ()%	0% ()%	0%	-	0.3%
Pedestrians	-	-	-	-	-	2	-	-	-	-	-	34	-	-	-	-	-	0	-	-	-	-	-	5	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	94.4%	-	-	-	-	-	-	-	-	-	-	- 1	.00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	5.6%	-	-	-	-	-	-	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 4 North Street (Route 114) & Frankli... - TMC

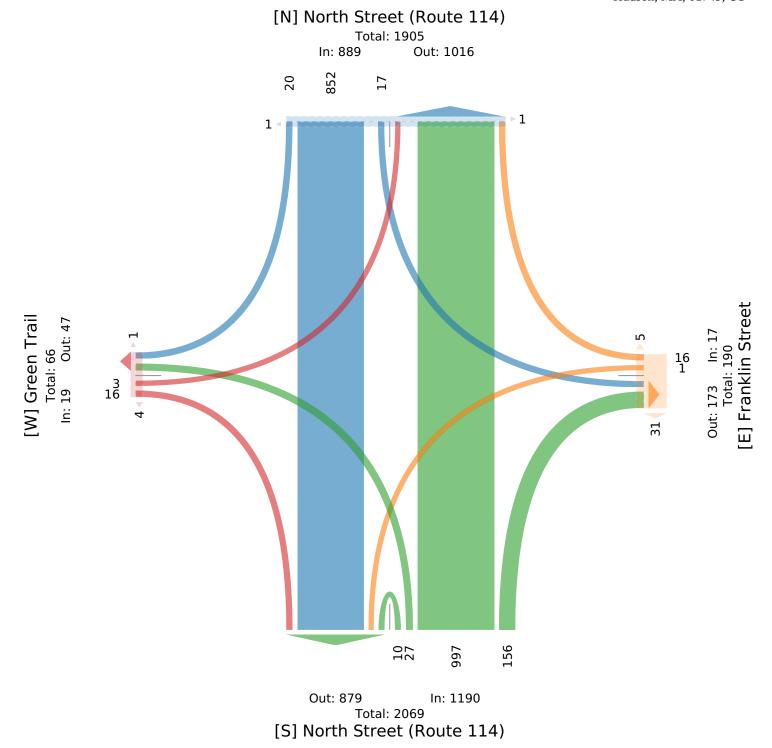
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279718, Location: 42.525566, -70.899781



250511-4 North Street (Route 114) & Frankli... - TMC

Thu Mar 27, 2025

PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279718, Location: 42.525566, -70.899781

Leg	North S	Street (1	Route 1	114)			Franklin	St	reet				North S	Street (F	Route 1	14)			Green 7	Trail					
Direction	Southb	ound					Westbou	und					Northb	ound					Eastbo	und					1
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App 1	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 3:45PM	1	217	4	0	222	0	3	0	1	0	4	2	33	264	5	0	302	0	3	0	2	0	5	3	533
4:00PM	7	212	1	0	220	0	7	0	0	0	7	9	35	255	4	1	295	0	8	0	5	0	13	2	535
4:15PM	2	228	6	0	236	3	2	0	1	0	3	3	22	276	3	0	301	0	6	1	5	0	12	0	552
4:30PM	2	252	4	0	258	1	5	0	1	0	6	12	34	302	4	1	341	0	9	0	9	0	18	0	623
Total	12	909	15	0	936	4	17	0	3	0	20	26	124	1097	16	2	1239	0	26	1	21	0	48	5	2243
% Approach	1.3%	97.1%	1.6%	0%	-	-	85.0% 0)%	15.0% (0%	-	-	10.0%	88.5%	1.3%	0.2%	-	-	54.2%	2.1%	43.8%	0%	-	-	-
% Total	0.5%	40.5%	0.7%	0% 4	41.7%	-	0.8%)%	0.1%	0%	0.9%	-	5.5%	48.9%	0.7%	0.1%	55.2%	-	1.2%	0%	0.9%	0%	2.1%	-	
PHF	0.429	0.902	0.625	-	0.907	-	0.607	-	0.750	-	0.714	-	0.886	0.911	0.800	0.500	0.911	-	0.722	0.250	0.583	-	0.667	-	0.901
Motorcycles	0	3	0	0	3	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	3
% Motorcycles	0%	0.3%	0%	0%	0.3%	-	0% 0)%	0% (0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Lights	10	892	15	0	917	-	16	0	3	0	19	-	123	1076	14	2	1215	-	23	1	20	0	44	-	2195
% Lights	83.3%	98.1%	100%	0% 9	98.0%	-	94.1% 0)%	100% (0%	95.0%	-	99.2%	98.1%	87.5%	100%	98.1%	-	88.5%	100%	95.2%	0% 9	91.7%	-	97.9%
Single-Unit Trucks	1	5	0	0	6	-	1	0	0	0	1	-	1	6	2	0	9	-	2	0	1	0	3	-	19
% Single-Unit Trucks	8.3%	0.6%	0%	0%	0.6%	-	5.9% 0)%	0% (0%	5.0%	-	0.8%	0.5%	12.5%	0%	0.7%	-	7.7%	0%	4.8%	0%	6.3%	-	0.8%
Articulated Trucks	1	0	0	0	1	-	0	0	0	0	0	-	0	1	0	0	1	-	1	0	0	0	1	-	3
% Articulated Trucks	8.3%	0%	0%	0%	0.1%	-	0% 0)%	0% (0%	0%	-	0%	0.1%	0%	0%	0.1%	-	3.8%	0%	0%	0%	2.1%	-	0.1%
Buses	0	9	0	0	9	-	0	0	0	0	0	-	0	10	0	0	10	-	0	0	0	0	0	-	19
% Buses	0%	1.0%	0%	0%	1.0%	-	0% 0)%	0% (0%	0%	-	0%	0.9%	0%	0%	0.8%	-	0%	0%	0%	0%	0%	-	0.8%
Bicycles on Road	0	0	0	0	0	-	0	0	0	0	0	-	0	4	0	0	4	-	0	0	0	0	0	-	4
% Bicycles on Road	0%	0%	0%	0%	0%	-	0% 0)%	0% (0%	0%	-	0%	0.4%	0%	0%	0.3%	-	0%	0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	-	4	-	-	-	-	-	26	-	-	-	-	-	0	-	-	-	-	-	5	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 4 North Street (Route 114) & Frankli... - TMC

Thu Mar 27, 2025

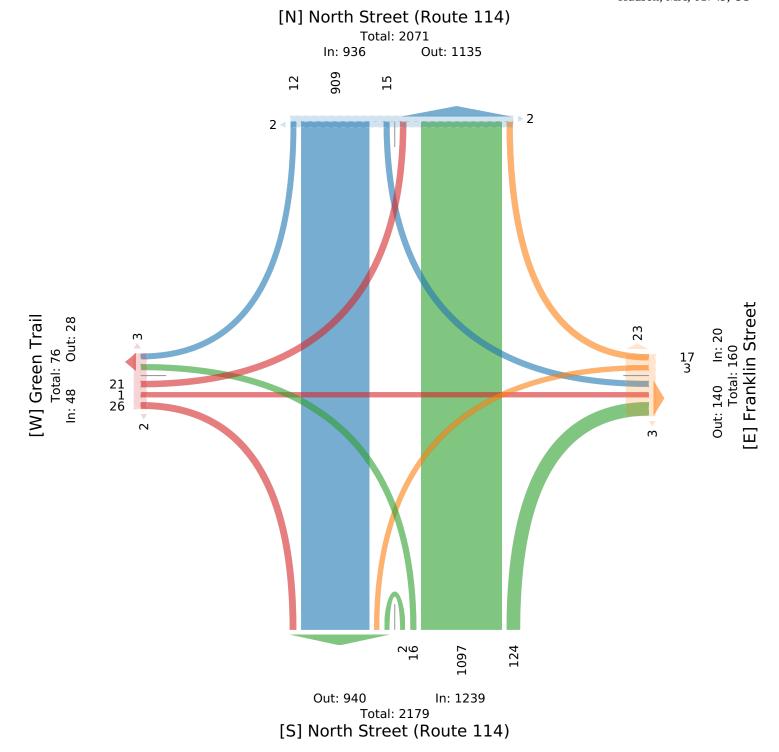
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279718, Location: 42.525566, -70.899781



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831

Leg	North S	Street (Ro	ite 11.	4)		Federal	Street					Noirth	Street	Route 1	14)			Bridge S	treet					
Direction	Southb	`	100	ж 11	٦)		Westbo						Northb		, Noute 1	17)			Eastbou						
Γime	R		I	U	Арр	Ped*	R	Т	L	II	Арр	Ped*	R	Т	L	U	Арр	Ped*		T	L	U	Арр	Ped*	Int
2025-03-27 6:00AM	28	48			76	0	25	3	0		28	2	0	38	2	0	40	1		0	0	0	<u>лүү</u> 5	0	14
	30	69			99	0	27	1	0	0	28	2	0	67	7	0	74	1	9	0	3	0	12	1	21
6:15AM	_																							_	
6:30AM	29	108			137	0	36	2	1	0	39	0	0	94	6	0	100	0	5	0	2	0	7	3	28
6:45AM	50	137			187	0	28	1	1		30	3	0	141	11	0	152	3	13	0	5	0	18	1	38
Hourly Total	137	362			499	0	116	7	2		125	7	0	340	26	0	366	5	32	0	10	0	42	5	103
7:00AM	55	121			176	0	30	0	0	0	30	1	0	111	13	0	124	3		0	1	0	9	0	33
7:15AM	63	155			218	0	38	1	1	0	40	4	0	160	17	0	177	5	18	0	5	0	23	2	45
7:30AM	60	147	(0	207	0	36	3	0	0	39	0	0	160	18	0	178	1	8	0	5	0	13	0	43
7:45AM	80	142	(0	222	0	23	7	3	0	33	9	0	154	23	0	177	10	22	0	5	0	27	4	4
Hourly Total	258	565	(0 (823	0	127	11	4	0	142	14	0	585	71	0	656	19	56	0	16	0	72	6	169
8:00AM	87	142	(0 (229	1	17	12	3	0	32	2	0	136	25	0	161	6	19	0	1	0	20	2	4
8:15AM	72	133	(0 (205	0	11	9	4	0	24	10	0	118	15	0	133	14	26	0	2	0	28	1	39
8:30AM	81	153	(0	234	0	19	8	5	0	32	10	0	144	21	0	165	15	23	0	7	0	30	0	46
8:45AM	85	156	(0 (241	0	12	4	2	0	18	17	0	111	14	0	125	17	27	0	6	0	33	0	4
Hourly Total	325	584	. (0 (909	1	59	33	14	0	106	39	0	509	75	0	584	52	95	0	16	0	111	3	171
3:00PM	52	172	(0 0	224	0	20	2	1	0	23	1	0	120	18	0	138	5	24	0	7	0	31	0	41
3:15PM	58	190	(0 0	248	1	26	4	2	0	32	2	1	140	24	0	165	5	24	0	4	1	29	1	47
3:30PM	57	155			212	0	21	4		0	26	6	0	120	15	0	135	6	27	0	8	0	35	0	40
3:45PM	63	154			217	2	15	2	1	0	18	1	0	144	29	1	174	4	18	0	4	0	22	1	43
Hourly Total	230	671			901	3	82	12	5	0	99	10	1	524	86	1	612	20	93	0	23	1	117	2	172
4:00PM	45	171			216	1	25	5	0	0	30	2	0	140	13	0	153	12	36	0	6	0	42	1	4
																		3						_	
4:15PM	50	186			236	0	10	2	0	0	12	2	0	116	13	1	130	_	31	0	10	0	41	0	41
4:30PM	61	197			258	0	37	9	5	0	51	3	0	152	20	0	172	20	22		17	0	39	0	52
4:45PM	54	171			225	1	11	3	0	0	14	5	0	120	23	0	143	8	28	0	5	0	33	0	41
Hourly Total	210	725			935	2	83	19	5	0	107	12	0	528	69	1	598	43	117		38	0	155	1	179
5:00PM	43	150			193	1	17	0	2	0	19	5	0	129	36	0	165	5	29		12	0	41	0	41
5:15PM	61	172			233	3	23	4	0	0	27	11	0	152	17	0	169	2	23		10	0	33	0	46
5:30PM	63	173			236	0	16	2	0	0	18	3	1	136	26	0	163	2	34	0	6	0	40	2	45
5:45PM	62	173	(0	235	0	7	1	0	0	8	0	0	108	24	0	132	9	27	0	10	0	37	2	41
Hourly Total	229	668	(0 (897	4	63	7	2	0	72	19	1	525	103	0	629	18	113	0	38	0	151	4	174
Total	1389	3575	(0 (4964	10	530	89	32	0	651	101	2	3011	430	2	3445	157	506	0 1	41	1	648	21	970
% Approach	28.0%	72.0%	0%	6 0%	-	-	81.4% 1	13.7%	4.9% (0%	-	-	0.1% 8	37.4%	12.5%	0.1%	-	-	78.1% 0	% 21.8	3% 0.2	2%	-	-	
% Total	+				51.1%	-	5.5%	0.9%	0.3% (0%	6.7%	_	0% 3	31.0%	4.4%	0% 3	5.5%	_	5.2% 0	% 1.5	5% ()%	6.7%	_	
Motorcycles	2	3			5	_	0	0	0	0	0		0	1	0	0	1	_	0	0	0	0	0	_	
% Motorcycles	_	0.1%	_		0.1%	_	0%	0%	0% (_	0%	_	0%	0%	0%	0%	0%	_	0% 0)%	0%	_	0.1
Lights	1338	3481			4819	_	523	87	31	0	641		0	2948	415		3365	_	469		28	1	598	_	942
% Lights	96.3%					_	98.7%						_		96.5% 1				92.7% 0					_	97.1
Single-Unit Trucks	15	50			65		3	2	0.570	0 /0 .	5		0 / 0 .	33	13	0	46		7	0	5	0	12		12
% Single-Unit Trucks	+		_					2.2%						1.1%			1.3%	-	1.4% 0					-	
	_	1.4%									0.8%		_										1.9%	_	1.3
Articulated Trucks	5	5			10	-	0	0	0		0		0	4	0	0	4	-	1		2	0	3	-	0.0
% Articulated Trucks	_	0.1%				-	0%	0%	0% (0%			0.1%	0%		0.1%		0.2% 0				0.5%		0.2
Buses	28	31		0	59	-	2	0		0	2	-	0	20	2	0	22	-	27		6	0	33	-	1:
% Buses	2.0%	0.9%				-	0.4%	0%			0.3%	-		0.7%	0.5%		0.6%	-	5.3% 0				5.1%		1.2
Bicycles on Road	1		(6	-	2	0	1		3	-	2	5	0	0	7	-	2		0	0	2	-	
% Bicycles on Road	0.1%	0.1%	0%	6 0%	0.1%	-	0.4%	0%	3.1% (0%	0.5%	-	100%	0.2%	0%	0%	0.2%	-	0.4% 0	%)% ()%	0.3%	-	0.2
Pedestrians	-	-			-	9	-	-	-	-	-	99	-	-	-	-	-	155	-	-	-	-	-	20	
% Pedestrians	-				-	90.0%	-	-	-	-	- 9	98.0%	-		-	-	- 9	98.7%	-	-	-	-	- 9	5.2%	
D: 1 C 11	_				-	1	-	_	_	_		2	-	_	_	-	_	2	-	-	_	_	_	1	
Bicycles on Crosswalk	_					-						_						- 1						- 1	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

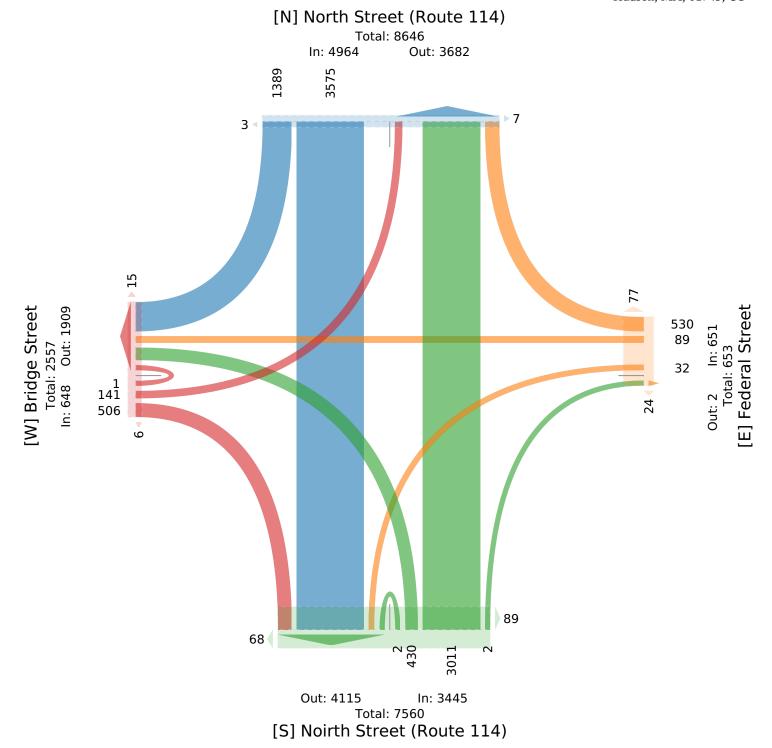
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831



Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831

T ag	North S	'tweet (I	2	. 11	4)		Federal	Ctwoot					NI.	rth Stre	at (Dave	40 11	14)		Bridge S	Church.					
Leg	Southb	,	COUL	e 11	4)		Westbo						l	rui Sire thbound	•	te 11	14)		Eastbou		et.				
Direction			_										<u> </u>											- 1.	
Time	R		L			Ped*	R	T		U		Ped*	R	Т		U		Ped*	R		L			Ped* 1	
2025-03-27 7:15AM	63	155	0	0	218	0	38	1	1	0	40	4	0	160	17	0	177	5	18	0	5	0	23	2	458
7:30AM	60	147	0	0	207	0	36	3	0	0	39	0	0	160	18	0	178	1	8	0	5	0	13	0	437
7:45AM	80	142	0	0	222	0	23	7	3	0	33	9	0	154	23	0	177	10	22	0	5	0	27	4	459
8:00AM	87	142	0	0	229	1	17	12	3	0	32	2	0	136	25	0	161	6	19	0	1	0	20	2	442
Total	290	586	0	0	876	1	114	23	7	0	144	15	0	610	83	0	693	22	67	0	16	0	83	8	1796
% Approach	33.1%	66.9%	0%	0%	-	-	79.2%	16.0%	4.9%	0%	-	-	0%	88.0%	12.0%	0%	-	-	80.7% ()% 1	19.3% 0	%	-	-	-
% Total	16.1%	32.6%	0%	0% 4	48.8%	-	6.3%	1.3%	0.4%	0%	8.0%	-	0%	34.0%	4.6%	0% 3	38.6%	-	3.7% ()%	0.9% 0	%	4.6%	-	-
PHF	0.833	0.950	-	-	0.955	-	0.750	0.479	0.583	- (0.900	-	-	0.950	0.830	-	0.971	-	0.761	-	0.800	- (0.769	-	0.979
Motorcycles	1	0	0	0	1	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	2
% Motorcycles	0.3%	0%	0%	0%	0.1%	-	0%	0%	0% (0%	0%	-	0%	0.2%	0%	0%	0.1%	-	0% 0)%	0% 0	%	0%	-	0.1%
Lights	281	566	0	0	847	-	114	23	7	0	144	-	0	597	77	0	674	-	61	0	13	0	74	-	1739
% Lights	96.9%	96.6%	0%	0% 9	96.7%	-	100%	100%	100%	0%	100%	-	0%	97.9%	92.8%	0% 9	97.3%	-	91.0% ()% 8	31.3% 0	% 8	9.2%	- 9	96.8%
Single-Unit Trucks	4	15	0	0	19	-	0	0	0	0	0	-	0	7	6	0	13	-	0	0	2	0	2	-	34
% Single-Unit Trucks	1.4%	2.6%	0%	0%	2.2%	-	0%	0%	0% (0%	0%	-	0%	1.1%	7.2%	0%	1.9%	-	0% 0)% 1	12.5% 0	%	2.4%	-	1.9%
Articulated Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Articulated Trucks	0%	0.3%	0%	0%	0.2%	-	0%	0%	0% (0%	0%	-	0%	0%	0%	0%	0%	-	0% 0)%	0% 0	%	0%	-	0.1%
Buses	4	2	0	0	6	-	0	0	0	0	0	-	0	3	0	0	3	-	6	0	1	0	7	-	16
% Buses	1.4%	0.3%	0%	0%	0.7%	-	0%	0%	0% (0%	0%	-	0%	0.5%	0%	0%	0.4%	-	9.0% ()%	6.3% 0	%	8.4%	-	0.9%
Bicycles on Road	0	1	0	0	1	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	3
% Bicycles on Road	0%	0.2%	0%	0%	0.1%	-	0%	0%	0% (0%	0%	-	0%	0.3%	0%	0%	0.3%	-	0% 0)%	0% 0	%	0%	-	0.2%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	15	-	-	-	-	-	22	-	-	-	-	-	7	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 8	7.5%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	- 1	2.5%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

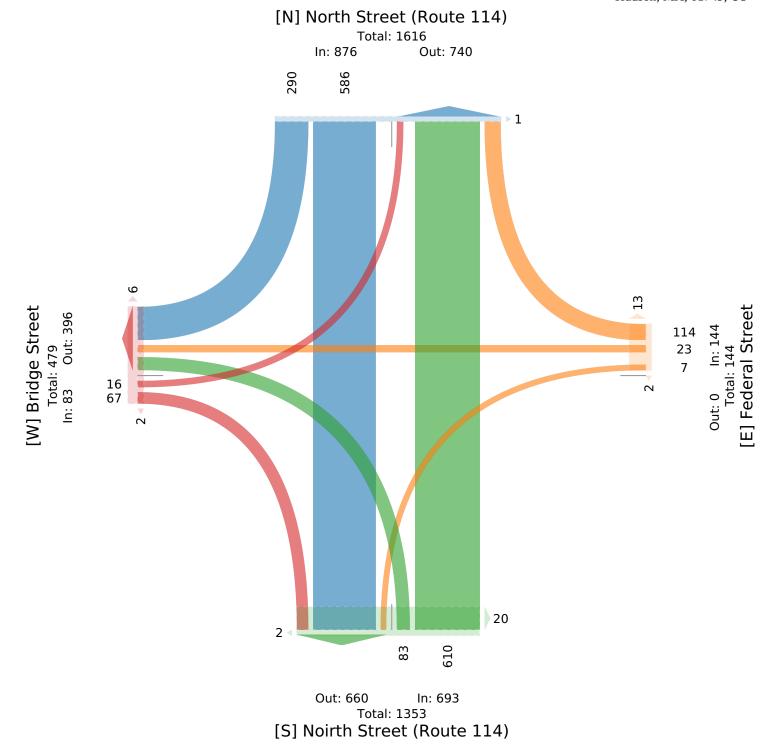
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831



Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831

Leg	North S	Street (F	Rout	e 114	4)		Federal	Street					Noii	th Stree	et (Route	114	4)		Bridge	Stre	et				
Direction	Southb	ound					Westbo	und					Nort	hbound	1				Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	Т	L	U	App P	ed*	Int
2025-03-27 4:30PM	61	197	0	0	258	0	37	9	5	0	51	3	0	152	20	0	172	20	22	0	17	0	39	0	520
4:45PM	54	171	0	0	225	1	11	3	0	0	14	5	0	120	23	0	143	8	28	0	5	0	33	0	415
5:00PM	43	150	0	0	193	1	17	0	2	0	19	5	0	129	36	0	165	5	29	0	12	0	41	0	418
5:15PM	61	172	0	0	233	3	23	4	0	0	27	11	0	152	17	0	169	2	23	0	10	0	33	0	462
Total	219	690	0	0	909	5	88	16	7	0	111	24	0	553	96	0	649	35	102	0	44	0	146	0	1815
% Approach	24.1%	75.9%	0% (0%	-	-	79.3%	14.4%	6.3% ()%	-	-	0%	85.2%	14.8% 0	%	-	-	69.9% (0%	30.1%	0%	-	-	-
% Total	12.1%	38.0%	0% (0% 5	50.1%	-	4.8%	0.9%	0.4% ()%	6.1%	-	0%	30.5%	5.3% 0	% 3	5.8%	-	5.6% (0%	2.4%	0%	8.0%	-	-
PHF	0.893	0.873	-	-	0.881	-	0.595	0.444	0.350	-	0.544	-	-	0.910	0.667	- 0).943	-	0.879	-	0.647	-	0.890	-	0.873
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0% (0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0	%	0%	-	0% (0%	0%	0%	0%	-	0%
Lights	215	679	0	0	894	-	87	16	7	0	110	-	0	546	94	0	640	-	98	0	42	0	140	-	1784
% Lights	98.2%	98.4%	0% (0% 9	98.3%	-	98.9%	100%	100% ()% 9	9.1%	-	0% !	98.7%	97.9% 0	% 9 8	8.6%	-	96.1% (0%	95.5%	0% 9	95.9%	-	98.3%
Single-Unit Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	5	2	0	7	-	1	0	0	0	1	-	10
% Single-Unit Trucks	0%	0.3%	0% (0%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0.9%	2.1% 0	% :	1.1%	-	1.0% (0%	0%	0%	0.7%	-	0.6%
Articulated Trucks	2	0	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	1	-	3
% Articulated Trucks	0.9%	0%	0% (0%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0	%	0%	-	0% (0%	2.3%	0%	0.7%	-	0.2%
Buses	1	7	0	0	8	-	1	0	0	0	1	-	0	2	0	0	2	-	3	0	1	0	4	-	15
% Buses	0.5%	1.0%			0.9%	-	1.1%	0%	0% ()%	0.9%	-	0%	0.4%	0% 0	% (0.3%	-	2.9% (0%	2.3%	0%	2.7%	-	0.8%
Bicycles on Road	1	2	0	0	3	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	3
% Bicycles on Road	0.5%	0.3%	0% (0%	0.3%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0	%	0%	-	0% (0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	-	4	-	-	-	-	-	24	-	-	-	-	-	35	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	80.0%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	20.0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-

 $^{^{*}}$ Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

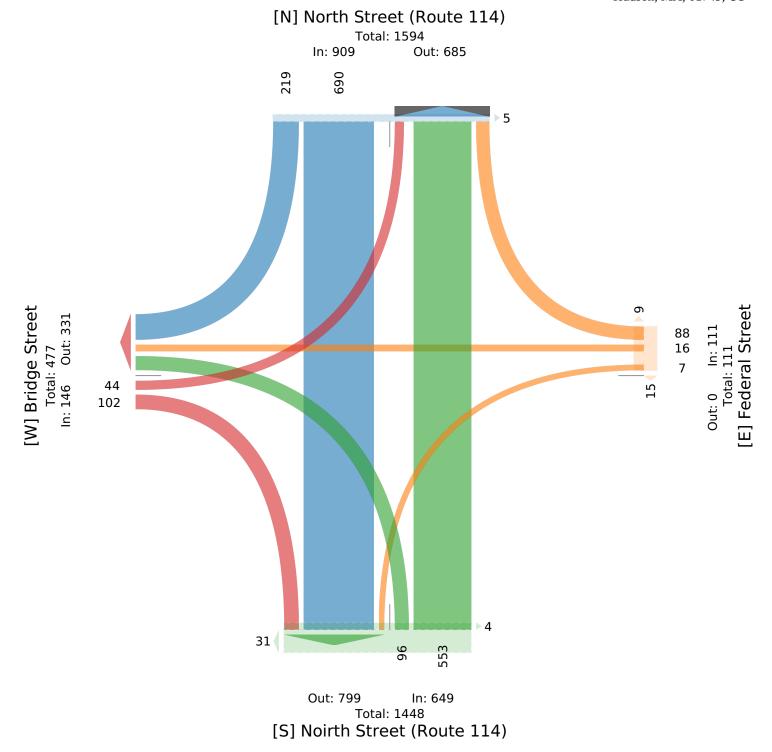
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279721, Location: 42.523154, -70.898831



250511-6 North St (Rt 114) @ Lynde St TMC - TMC

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765

																		1	Hudson,	IVIA	, 01/4	9, 03
Leg	North	Street (Rout	e 114))		Lynde	Street					Nor	th Stree	t (Route 1	14)		Parking L	ot			
Direction	Southl	oound					Westbo	ound					Nor	thbound	i			Eastboun	d			
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L U	App	Ped*	R	ΓL	U A	pp Ped	* Int
2025-03-27 6:00AM	0	52	0	0	52	0	7	0	0	0	7	0	0	36	0 0	36	0	0 (0 0	0	0	0 95
6:15AM	0	78	0	0	78	0	8	0	2	0	10	1	0	67	0 0	67	0	0 (0 0	0	0	1 155
6:30AM	0	108	0	0	108	0	9	0	2		11	1	0	90	0 0	90	0	0 (0 0	0	0	2 209
6:45AM	0	143	0	0	143	0	15	0	1	0	16	0	0	139	1 0	140	0	0	0 0	0	0	1 299
Hourly Total	0	381	0	0	381	0	39	0	5	0	44	2	0	332	1 0	333				0		4 758
7:00AM	0	130	0	0	130	0		0	0	0	19	0	0	109	0 0	109				0		0 258
7:15AM	0	166	0	0	166	1	13	1	4	0	18	1	0	165	0 0	165				0		4 351
7:30AM	0	151	0	0	151	0	-	0	2		24	2	0	161	0 0	161		0		0		2 336
7:45AM	0	154	0	0	154	0		0	1	0	20	1	0	153	0 0	153				0		2 327
Hourly Total	0	601	0	0	601	1		1	7		81	4	0	588	0 0	588		1		0		8 1272
, , , , , , , , , , , , , , , , , , ,	_												_									
8:00AM	0	155	0	0	155	0		0	3	0	19	2	0	156	0 0	156				0		2 330
8:15AM	0	150	0	0	150	0	9	1	3	0	13	1	0	124	0 0	124				0		0 287
8:30AM	1	176	0	0	177	0	_	1	6	0	35	1	0	144	0 0	144				0		0 357
8:45AM	1	174	0	0	175	2	14	0	4	0	18	2	0	123	2 0	125				0		2 318
Hourly Total	2	655	0	0	657	2		2	16	0	85	6	0	547	2 0	549		1 (0		4 1292
3:00PM	0	188	0	0	188	0		0	0	0	17	1	0	136	0 0	136				0		2 341
3:15PM	0	205	0	0	205	1	19	0	8	0	27	6	0	149	0 0	149				0		4 381
3:30PM	1	171	0	1	173	2	16	1	3	0	20	7	0	125	0 0	125		1 (0 0	0		0 319
3:45PM	0	168	0	0	168	0	26	0	4	0	30	3	0	158	0 0	158	0	0 (0 0	0		1 356
Hourly Total	1	732	0	1	734	3	78	1	15	0	94	17	0	568	0 0	568	1	1 (0 0	0	1	7 1397
4:00PM	0	188	0	0	188	1	29	0	3	0	32	1	0	136	0 0	136	0	0 (0 2	0	2	2 358
4:15PM	0	197	0	0	197	0	17	0	7	0	24	0	0	120	0 0	120	3	1 (0 0	0	1	6 342
4:30PM	1	211	0	0	212	0	29	0	2	0	31	4	0	158	0 0	158	3	0 (0 0	0	0	2 401
4:45PM	0	191	0	0	191	0	23	0	5	0	28	2	0	128	0 0	128	0	0 (0 0	0	0	4 347
Hourly Total	1	787	0	0	788	1	98	0	17	0	115	7	0	542	0 0	542	6	1 (0 2	0	3 1	4 1448
5:00PM	0	169	0	0	169	0	35	0	8	0	43	7	0	146	0 0	146	0	0	0 0	0	0	1 358
5:15PM	0	186	0	0	186	2	27	0	4	0	31	8	0	156	0 0	156	0	0	0 0	0	0	0 373
5:30PM	0	198	0	0	198	0	30	0	5	0	35	2	0	143	0 0	143	0	0 (0 0	0	0	5 37€
5:45PM	0	184	0	0	184	0	21	0	1	0	22	4	0	125	0 0	125	0	0	0 0	0	0	4 331
Hourly Total	0	737	0	0	737	2	113	0	18	0	131	21	0	570	0 0	570	0	0	0 0	0	0 1	0 1438
Total	4	3893	0	1	3898	9		4	78	0	550	57	0	3147	3 0					0		7 7605
				0%		9			14.2%		550		<u> </u>			3130	9		6 42.9% 0°		/ 4	7003
% Approach		99.9%			-		85.1%						-		0.1% 0%	41 40/					-	-
% Total	+	51.2%			51.3%		6.2%	0.1%	1.0%			-	-	41.4%	0% 0%			0.1% 0%				-
Motorcycles	0	2	0	0	2		1	0	0	0	1	-	0	3	0 0	3		0 (0	0	- 6
% Motorcycles	0%	0.1%			0.1%	-	0.2%	0%	0%		0.2%	-	0%		0% 0%			0% 0%			0%	- 0.1%
Lights	-	3767	0		3772	-	457	2	76	0	535	-	0	3076	3 0			4 (7	- 7393
% Lights						-	97.6%					-	\vdash		100% 0%				6 100% 0			- 97.2%
Single-Unit Trucks	0	58		0	58	-	7	1		0	10	-	0	39	0 0	39		0 (0	0	- 107
% Single-Unit Trucks	0%	1.5%		0%	1.5%	-	1.5%		2.6%			-	0%	1.2%	0% 0%			0% 0%)%	- 1.4%
Articulated Trucks	0		0	0	7	-	0	0		0	0	-	0	5	0 0			0 (0	- 12
% Articulated Trucks	0%	0.2%		0%	0.2%	-	0%	0%	0%		0%	-	0%		0% 0%			0% 0%			0%	- 0.2%
Buses	0	56		0	56	-	1	0		0	1	-	0	22	0 0	22		0 (0 0	0	0	- 79
% Buses	0%	1.4%	0%	0%	1.4%	-	0.2%	0%	0%	0%	0.2%	-	0%	0.7%	0% 0%	0.7%	-	0% 0%	6 0% 0	% ()%	- 1.0%
Bicycles on Road	0	3	0	0	3	-	2	1	0	0	3	-	0	2	0 0	2	! -	0 (0 0	0	0	- 8
% Bicycles on Road	0%	0.1%	0%	0%	0.1%	-	0.4%	25.0%	0%	0%	0.5%	-	0%	0.1%	0% 0%	0.1%	-	0% 0%	6 0% 0°	% ()%	- 0.1%
Pedestrians	-	-	-	-	-	9	-	-	-	-	-	56	-	-			- 9	-		-	- 4	5
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	- 9	98.2%	-	-			- 100%	-		-	- 95.79	%
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-		-	- 0	-		-	-	2
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	1.8%	-	-			- 0%	-		-	- 4.39	%

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-6 North St (Rt 114) @ Lynde St TMC - TMC

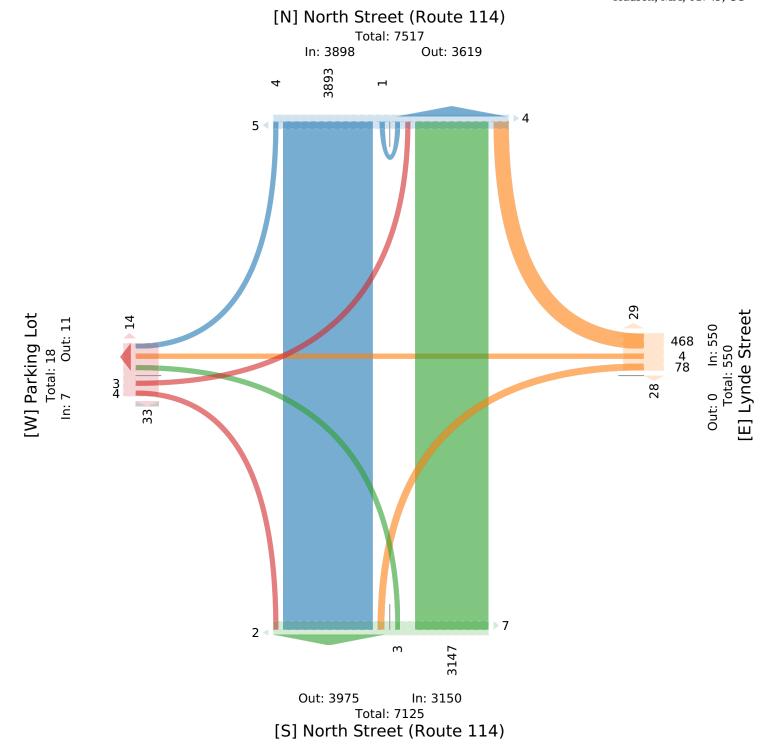
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765



250511- 6 North St (Rt 114) @ Lynde St TMC - TMC

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765

Leg	Nort	th Stree	et (R	oute	114)		Lynde :	Street					Nor	th Stree	t (Ro	oute	114)		Parking	Lot					
Direction	Sout	thboun	d				Westbo	und					Nor	thbound	l				Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App P	ed*	R	T	L	U	App	Ped*	Int
2025-03-27 7:15AM	0	166	0	0	166	1	13	1	4	0	18	1	0	165	0	0	165	0	1	0	1	0	2	4	351
7:30AM	0	151	0	0	151	0	22	0	2	0	24	2	0	161	0	0	161	0	0	0	0	0	0	2	336
7:45AM	0	154	0	0	154	0	19	0	1	0	20	1	0	153	0	0	153	0	0	0	0	0	0	2	327
8:00AM	0	155	0	0	155	0	16	0	3	0	19	2	0	156	0	0	156	0	0	0	0	0	0	2	330
Total	0	626	0	0	626	1	70	1	10	0	81	6	0	635	0	0	635	0	1	0	1	0	2	10	1344
% Approach	0%	100%	0%	0%	-	-	86.4%	1.2%	12.3% ()%	-	-	0%	100% (0 %0)%	-	-	50.0% (0% 5	50.0% ()%	-	-	-
% Total	0% -	46.6%	0%	0% 4	6.6%	-	5.2%	0.1%	0.7% ()%	6.0%	-	0%	47.2% (0 %0)% 4	17.2%	-	0.1% (0%	0.1% ()%	0.1%	-	-
PHF	-	0.943	-	-	0.943	-	0.795	0.250	0.625	-	0.844	-	-	0.966	-	-	0.966	-	0.250	-	0.250	- ().250	-	0.959
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	2
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0.3% (0 %0)%	0.3%	-	0% (0%	0% ()%	0%	-	0.1%
Lights	0	603	0	0	603	-	69	0	9	0	78	-	0	618	0	0	618	-	1	0	1	0	2	-	1301
% Lights	0% :	96.3%	0%	0% 9	6.3%	-	98.6%	0%	90.0% ()% 9	96.3%	-	0%	97.3% (0 %0)% 9	97.3%	-	100% (0%	100% ()% 1	100%	-	96.8%
Single-Unit Trucks	0	15	0	0	15	-	1	1	1	0	3	-	0	11	0	0	11	-	0	0	0	0	0	-	29
% Single-Unit Trucks	0%	2.4%	0%	0%	2.4%	-	1.4%	100%	10.0% ()%	3.7%	-	0%	1.7% (0 %0)%	1.7%	-	0% (0%	0% ()%	0%	-	2.2%
Articulated Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Articulated Trucks	0%	0.3%	0%	0%	0.3%	-	0%	0%	0% ()%	0%	-	0%	0% (0 %0)%	0%	-	0% (0%	0% ()%	0%	-	0.1%
Buses	0	6	0	0	6	-	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	9
% Buses	0%	1.0%	0%	0%	1.0%	-	0%	0%	0% ()%	0%	-	0%	0.5% (0 %0)%	0.5%	-	0% (0%	0% ()%	0%	-	0.7%
Bicycles on Road	0	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	1
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0.2%	0 %0)%	0.2%	-	0% (0%	0% ()%	0%	-	0.1%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	6	-	-	-	-	-	0	-	-	-	-	-	9	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	_	-	-	-	-	- 9	90.0%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	
% Bicycles on Crosswalk		-		-	-	0%	-	-	-	-	-	0%	-	-	-	-	-		-	-	-	-	- 1	10.0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-6 North St (Rt 114) @ Lynde St TMC - TMC

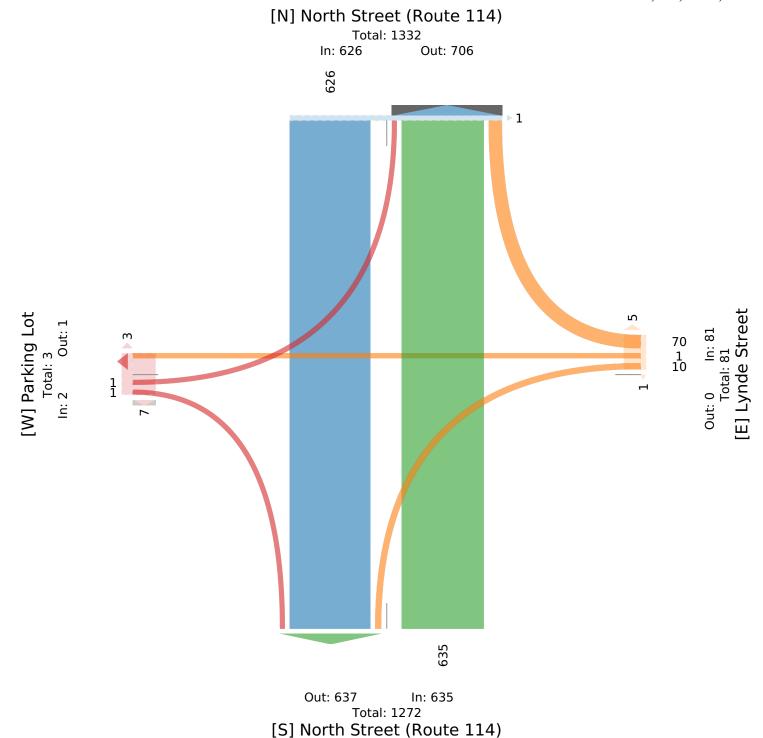
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765



250511- 6 North St (Rt 114) @ Lynde St TMC - TMC

Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765

Leg	North	Street (Rout	e 11	4)		Lynde S	Stree	et				Nor	h Street	t (Ro	ute	114)		Parl	king	Lot				
Direction	Southb	oound					Westbo	und					Nor	hbound	l				East	tbour	ıd				
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U.	Арр	Ped*	Int
2025-03-27 4:30PM	1	211	0	0	212	0	29	0	2	0	31	4	0	158	0	0	158	3	0	0	0	0	0	2	401
4:45PM	0	191	0	0	191	0	23	0	5	0	28	2	0	128	0	0	128	0	0	0	0	0	0	4	347
5:00PM	0	169	0	0	169	0	35	0	8	0	43	7	0	146	0	0	146	0	0	0	0	0	0	1	358
5:15PM	0	186	0	0	186	2	27	0	4	0	31	8	0	156	0	0	156	0	0	0	0	0	0	0	373
Total	1	757	0	0	758	2	114	0	19	0	133	21	0	588	0	0	588	3	0	0	0	0	0	7	1479
% Approach	0.1%	99.9%	0%	0%	-	-	85.7%	0%	14.3%	0%	-	-	0%	100%	0%	0%	-	-	0%	0%	0%	0%	-	-	-
% Total	0.1%	51.2%	0%	0%	51.3%	-	7.7%	0%	1.3%	0%	9.0%	-	0%	39.8%	0%	0%	39.8%	-	0%	0%	0%	0%	0%	-	-
PHF	0.250	0.896	-	-	0.893	-	0.814	-	0.594	-	0.773	-	-	0.930	-	-	0.930	-	-	-	-	-	-	-	0.921
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	-	-	0%
Lights	1	744	0	0	745	-	112	0	19	0	131	-	0	581	0	0	581	-	0	0	0	0	0	-	1457
% Lights	100%	98.3%	0%	0%	98.3%	-	98.2%	0%	100%	0%	98.5%	-	0%	98.8%	0%	0%	98.8%	-	0%	0%	0%	0%	-	-	98.5%
Single-Unit Trucks	0	2	0	0	2	-	2	0	0	0	2	-	0	5	0	0	5	-	0	0	0	0	0	-	9
% Single-Unit Trucks	0%	0.3%	0%	0%	0.3%	-	1.8%	0%	0%	0%	1.5%	-	0%	0.9%	0%	0%	0.9%	-	0%	0%	0%	0%	-	-	0.6%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	-	-	0%
Buses	0	10	0	0	10	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	12
% Buses	0%	1.3%	0%	0%	1.3%	-	0%	0%	0%	0%	0%	-	0%	0.3%	0%	0%	0.3%	-	0%	0%	0%	0%	-	-	0.8%
Bicycles on Road	0	1	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Bicycles on Road	0%	0.1%	0%	0%	0.1%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	-	-	0.1%
Pedestrians	-	-	-	-	-	2	-	-	-	-	-	21	-	-	-	-	-	3	-	-	-	-	-	7	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 1	.00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-6 North St (Rt 114) @ Lynde St TMC - TMC

Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

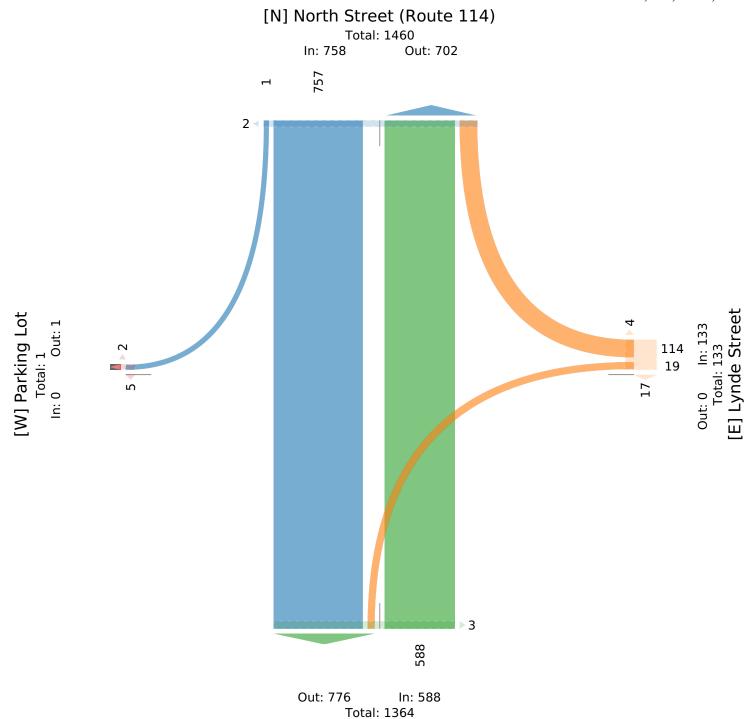
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279724, Location: 42.522553, -70.898765

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



[S] North Street (Route 114)

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642

																				uason,	17171	, 01	745,	05
Leg Direction	North Southb	,	Route 1	14)			Essex S Westbo					Summe Northb		t (Route	11	4)		Essex S Eastboo						
Time	R	T	L	U	App 1	Ped*			L U	Арр	Ped*	R	Т	L	U	App	Ped*	R	Т	L I	IJ A	App	Ped* 1	 Int
2025-03-27 6:00AM		45	3	0	53	2	0		0 (1	34	0	0	35	0	2	4		0	14	0	102
6:15AM	9	61	6	0	76	3	0		0 (2	51	0	0	53	1	3	4		0	20	1	149
6:30AM	6	100	5	0	111	3	0		0 (4	80	0	0	84	4	9	18		0	37	2	232
6:45AM	19	118	9	0	146	5	0		0 (3	123	0	0	126	3	6	25		0	46	1	318
Hourly Total	. 39	324	23	0	386	13	0		0 (288	0	0	298	8	20	51			117	4	801
7:00AM	9	109	16	0	134	1	0	0	0 (0	0	6	99	0	0	105	4	7	22	9	0	38	0	277
7:15AM	16	127	19	0	162	8	0		0 (144	0	0	147	4	8	27		0	61	3	370
7:30AM	17	116	26	0	159	4	0	0	0 (0	2	6	143	0	0	149	3	5	27	24	0	56	1	364
7:45AM	11	126	23	0	160	3	1	0	0 (13	135	0	0	148	4	10	35		0	66	2	375
Hourly Total	. 53	478	84	0	615	16	1	0	0 (28	521	0	0	549	15	30	111			221	6	1386
8:00AM	9	111	38	0	158	4	0		0 (13	128	0	0	141	2	9	31		0	69	4	368
8:15AM	6	99	39	0	144	13	0	0	0 (11	113	0	0	124	5	5	50		0	66	1	334
8:30AM	14	139	43	0	196	5	0		0 (118	0	0	126	2	9	30		0	63	2	385
8:45AM	15	116	46	0	177	6	0		0 (10	110	0	0	120	7	13	31		0	61	2	358
Hourly Total	44	465	166	0	675	28	0		0 (469	0	0	511	16	36	142			259	9	1445
3:00PM	10	144	35	0	189	34	0		0 (8	112	0	0	120	14	9	23		0	53	10	362
3:15PM	14	164	34	0	212	29	0		0 (11	121	0	0	132	12	13	19		0	59	4	403
3:30PM	16	128	30	0	174	20	0		0 (11	103	0	0	114	15	21	28		0	72	2	360
3:45PM	13	123	32	0	168	27	0		0 (9	126	0	0	135	7	12	20		0	61	3	364
Hourly Total	53	559	131	0	743	110	0		0 (39	462	0	0	501	48	55	90			245	19	1489
4:00PM	_	145	29	0	189	27	0		0 (11	124	1	0	136	10	15	18		0	51	1	376
4:15PM	16	147	35	0	198	37	0		0 (13	104	0	0	117	19	11	20		0	49	7	364
4:30PM	19	157	34	0	210	16	0		0 (6	130	0	0	136	6	12	29		0	68	8	414
4:45PM	15	154	35	0	204	35	0		0 (10	107	0	0	117	14	10	23		0	56	11	377
Hourly Total	65	603	133	0	801	115	0		0 (40	465	1	0	506	49	48	90			224	27	1531
5:00PM	17	121	32	0	170	113	0		0 (10	122	0	0	132	17	7	27		0	55	2	357
5:15PM	19	146	34	0	199	21	0		0 (17	124	0	0	141	9	10	22		0	65	3	405
5:30PM	15	160	28	0	203	9	0		0 (17	107	1	0	125	13	10	22		0	65	2	393
5:45PM	13	138	30	0	181	17	0		0 (13	98	0	0	111	10	13	28		0	65	5	357
Hourly Total	64	565	124	0	753	58	-		0 (57	451	1		509	49	40	99			250	12	1512
- v																								
Total	318	2994	661	0	3973	340	1		0 (216	2656	2	0	2874	185	229	583		0 1	316	77	8164
% Approach	_		16.6%		-	-	100% 0							0.1% 0		-	-			38.3% 09		-	-	
% Total	_	36.7%	8.1%				0% 0						32.5%			35.2%	-	2.8%	7.1%	6.2% 09			-	
Motorcycles	2	3	0	0	5	-	0		0 (1	2	0	0	3	-	2	1		0	3	-	11
% Motorcycles	+				0.1%		0% 0					0.5%	0.1%	0% 0		0.1%	-	0.9%	0.2%	0% 09		.2%	-	0.1%
Lights	1		651		3836	-	0		0 (210		2	0	2815	-	205	569			259	-	7910
% Lights	1						0% 0							100% 0			-			96.2% 09			- !	96.9%
Single-Unit Trucks		48		0	62		_		0 (3	32		0	35	-	7	6		0	22	-	119
% Single-Unit Trucks	+		0.8%				0% 0						1.2%			1.2%	-		1.0%				-	1.5%
Articulated Trucks	1	6		0	7	-	0		0 (0	4	0		4	-	1	0	1		2	-	13
% Articulated Trucks					0.2%		0% 0						0.2%			0.1%	-	0.4%					-	0.2%
Buses		40		0	57	-			0 (2	13	0		15	-	11	3	9		23	-	95
% Buses	_		0.6%				0% 0					0.9%				0.5%	-	4.8%	0.5%	1.8% 09			-	1.2%
Bicycles on Road	0.200	4	1 0.20/	0	6	-			0 (0	2	0		2	-	3	4		0	7	-	0.20
% Bicycles on Road	+	0.1%	0.2%			- D.15	100% 0					0%				0.1%	405		0.7%	0% 09			-	0.2%
Pedestrians	-		-		-	340			-			-	-	-	-	-	183	-	-	-		- 4	77	
% Pedestrians	-	-		_	- 1	00%	-		-		98.6%	-	-	-		- 9	98.9%	-	-	-			.00%	
Bicycles on Crosswalk	_	-	-		-	0	-		-		. 1	-	-	-	-	-	2	-	-	-		-	0	
% Bicycles on Crosswalk	_	-	-	-	-	0%	-	-	-		1.4%	-	-	-	-	-	1.1%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

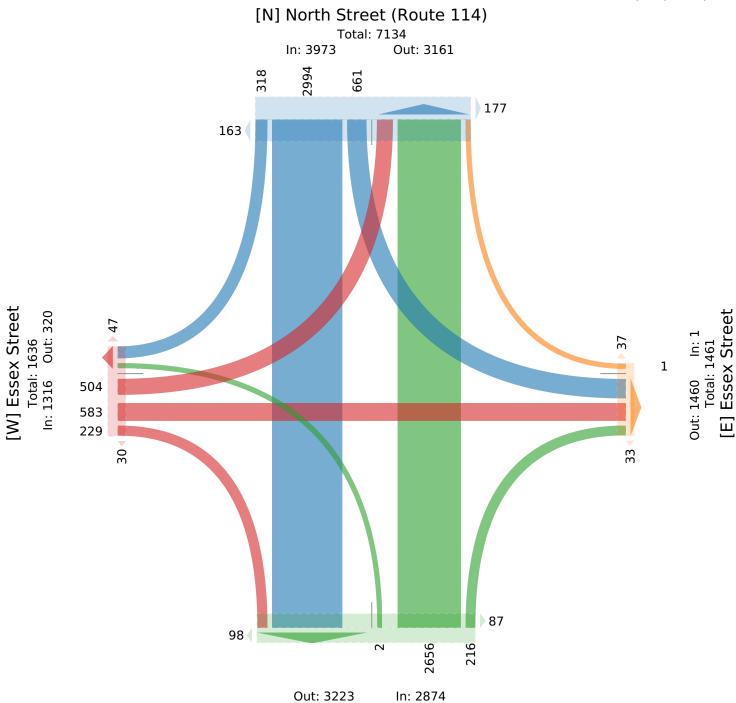
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



Total: 6097 [S] Summer Street (Route 114)

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642

Leg	North S	Street (F	Route 1	14)			Essex	Stre	et				Summe	r Street	(Ro	ute	114)		Essex S	Street					
Direction	Southb	ound					Westb	ounc	l				Northb	ound					Eastbo	und					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:15AM	16	127	19	0	162	8	0	0	0	0	0	1	3	144	0	0	147	4	8	27	26	0	61	3	370
7:30AM	17	116	26	0	159	4	0	0	0	0	0	2	6	143	0	0	149	3	5	27	24	0	56	1	364
7:45AM	11	126	23	0	160	3	1	0	0	0	1	1	13	135	0	0	148	4	10	35	21	0	66	2	375
8:00AM	9	111	38	0	158	4	0	0	0	0	0	1	13	128	0	0	141	2	9	31	29	0	69	4	368
Total	53	480	106	0	639	19	1	0	0	0	1	5	35	550	0	0	585	13	32	120	100	0	252	10	1477
% Approach	8.3%	75.1%	16.6%	0%	-	-	100%)%(0% ()%	-	-	6.0%	94.0% (0% ()%	-	-	12.7%	47.6%	39.7%	0%	-	-	-
% Total	3.6%	32.5%	7.2%	0%	43.3%	-	0.1%)%(0% ()%	0.1%	-	2.4%	37.2% (0% ()% 3	39.6%	-	2.2%	8.1%	6.8%	0% 1	17.1%	-	-
PHF	0.779	0.950	0.697	-	0.991	-	-	-	-	-	-	-	0.673	0.955	-	-	0.982	-	0.861	0.850	0.862	-	0.906	-	0.987
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	1	1	0	0	2	-	0	0	0	0	0	-	2
% Motorcycles	0%	0%	0%	0%	0%	-	0% ()%(0% ()%	0%	-	2.9%	0.2%	0% ()%	0.3%	-	0%	0%	0%	0%	0%	-	0.1%
Lights	49	458	104	0	611	-	0	0	0	0	0	-	33	536	0	0	569	-	30	116	98	0	244	-	1424
% Lights	92.5%	95.4%	98.1%	0% 9	95.6%	-	0%)%(0% ()%	0%	-	94.3%	97.5% (0% ()% 9	97.3%	-	93.8%	96.7%	98.0%	0% 9	96.8%	-	96.4%
Single-Unit Trucks	2	16	1	0	19	-	0	0	0	0	0	-	1	10	0	0	11	-	0	3	2	0	5	-	35
% Single-Unit Trucks	3.8%	3.3%	0.9%	0%	3.0%	-	0%)%(0% ()%	0%	-	2.9%	1.8%	0% ()%	1.9%	-	0%	2.5%	2.0%	0%	2.0%	-	2.4%
Articulated Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Articulated Trucks	0%	0.4%	0%	0%	0.3%	-	0%)%(0% ()%	0%	-	0%	0% (0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Buses	2	3	1	0	6	-	0	0	0	0	0	-	0	3	0	0	3	-	1	0	0	0	1	-	10
% Buses	3.8%	0.6%	0.9%	0%	0.9%	-	0%)%(0% ()%	0%	-	0%	0.5%	0% ()%	0.5%	-	3.1%	0%	0%	0%	0.4%	-	0.7%
Bicycles on Road	0	1	0	0	1	-	1	0	0	0	1	-	0	0	0	0	0	-	1	1	0	0	2	-	4
% Bicycles on Road	0%	0.2%	0%	0%	0.2%	-	100%)% (0% ()% 1	100%	-	0%	0% (0% ()%	0%	-	3.1%	0.8%	0%	0%	0.8%	-	0.3%
Pedestrians	-	-	-	-	-	19	-	-	-	-	-	4	-	-	-	-	-	12	-	-	-	-	_	10	
% Pedestrians	-	-	-	-	- :	100%	-	-	-	-	- 8	30.0%	-	-	-	-	-	92.3%	-	-	-	-	- 1	.00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	- 2	20.0%	-	-	-	-	-	7.7%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

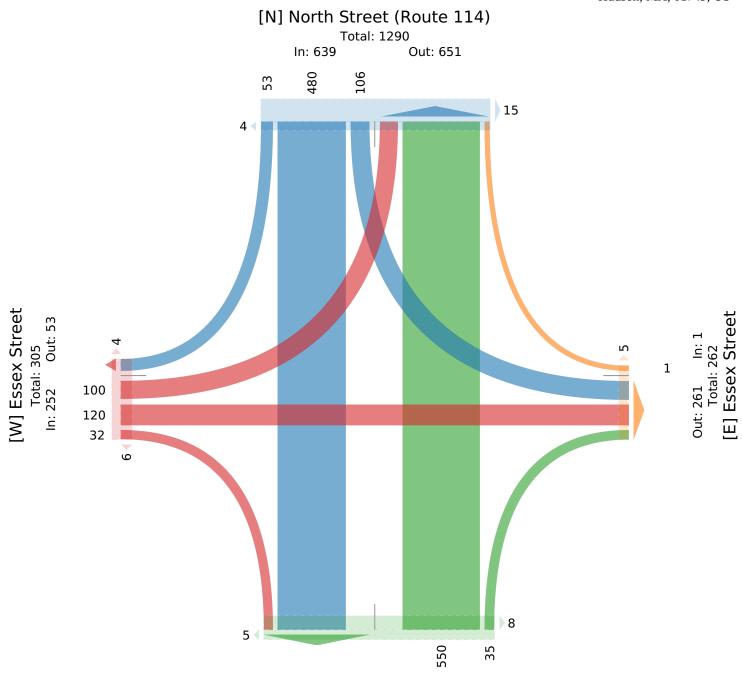
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642



Out: 512 In: 585
Total: 1097
[S] Summer Street (Route 114)

Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642

Leg	North S	Street (I	Route 1	14)			Esse	x St	reet				Summe	r Street	(Ro	ute	114)		Essex S	treet					
Direction	Southb	ound					Wes	tbou	ınd				Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U A	pp	Ped*	R	T	L	U	Арр	Ped*	R	Т	L	U	App	Ped*	Int
2025-03-27 4:30PM	19	157	34	0	210	16	0		0	0	0	1	6	130	0	0	136	6	12	29	27	0	68	8	414
4:45PM	15	154	35	0	204	35	0	0	0	0	0	10	10	107	0	0	117	14	10	23	23	0	56	11	377
5:00PM	17	121	32	0	170	11	0	0	0	0	0	1	10	122	0	0	132	17	7	27	21	0	55	2	357
5:15PM	19	146	34	0	199	21	0	0	0	0	0	1	17	124	0	0	141	9	10	22	33	0	65	3	405
Total	70	578	135	0	783	83	0	0	0	0	0	13	43	483	0	0	526	46	39	101	104	0	244	24	1553
% Approach	8.9%	73.8%	17.2%	0%	-	-	0% ()% (0% ()%	-	-	8.2%	91.8%)%()%	-	-	16.0%	41.4%	42.6%	0%		-	-
% Total	4.5%	37.2%	8.7%	0% 5	50.4%	-	0% ()% (0% ()% (0%	-	2.8%	31.1%)%()% 3	33.9%	-	2.5%	6.5%	6.7%	0% 1	15.7%	-	-
PHF	0.921	0.919	0.964	-	0.931	-	-	-	-	-	-	-	0.632	0.929	-	-	0.933	-	0.813	0.862	0.788	-	0.893	-	0.937
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0% ()% (0% ()%	-	-	0%	0% ()% ()%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	69	566	134	0	769	-	0	0	0	0	0	-	42	479	0	0	521	-	37	100	101	0	238	-	1528
% Lights	98.6%	97.9%	99.3%	0% 9	98.2%	-	0% ()%(0% ()%	-	-	97.7%	99.2% ()%()% 9	99.0%	-	94.9%	99.0%	97.1%	0% 9	97.5%	-	98.4%
Single-Unit Trucks	0	1	1	0	2	-	0	0	0	0	0	-	1	3	0	0	4	-	1	0	2	0	3	-	9
% Single-Unit Trucks	0%	0.2%	0.7%	0%	0.3%	-	0% ()%(0% ()%	-	-	2.3%	0.6%)%()%	0.8%	-	2.6%	0%	1.9%	0%	1.2%	-	0.6%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Articulated Trucks	0%	0%	0%	0%	0%	-	0% ()%(0% ()%	-	-	0%	0% ()%()%	0%	-	0%	0%	0%	0%	0%	-	0%
Buses	1	10	0	0	11	-	0	0	0	0	0	-	0	1	0	0	1	-	1	0	1	0	2	-	14
% Buses	1.4%	1.7%	0%	0%	1.4%	-	0% ()%(0% ()%	-	-	0%	0.2%)%()%	0.2%	-	2.6%	0%	1.0%	0%	0.8%	-	0.9%
Bicycles on Road	0	1	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	1	-	2
% Bicycles on Road	0%	0.2%	0%	0%	0.1%	-	0% ()%(0% ()%	-	-	0%	0% ()%()%	0%	-	0%	1.0%	0%	0%	0.4%	-	0.1%
Pedestrians	-	-	-	-	-	83	_	-	-	-	-	13	-	-	-	-	-	46	-	-	-	-	-	24	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

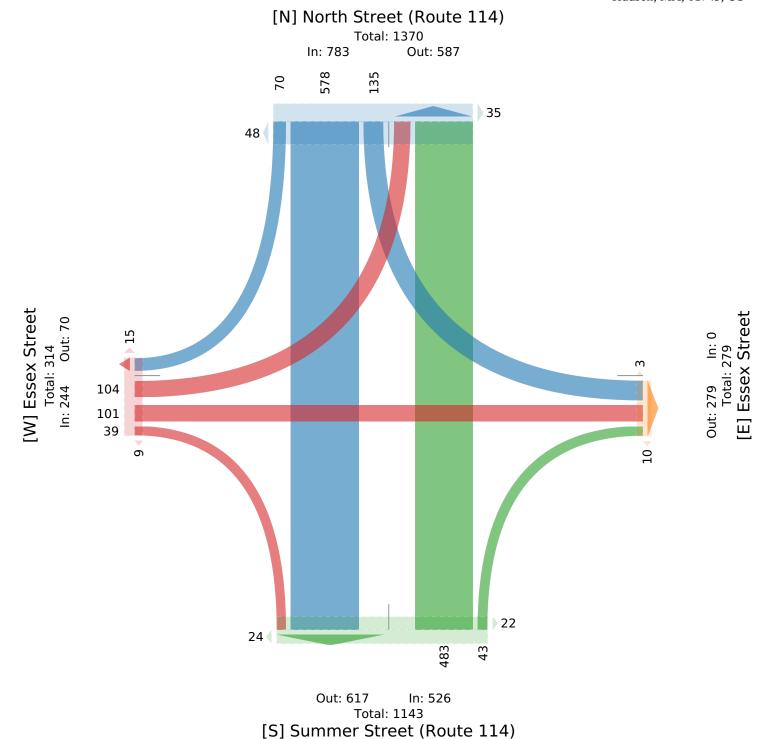
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

 $All\ Classes\ (Motorcycles,\ Lights,\ Single-Unit\ Trucks,\ Articulated\ Trucks,\ Buses,\ Pedestrians,$

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279725, Location: 42.5214, -70.898642



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

157 Washington Street, 2, Hudson, MA, 01749, US

																						,	A, 01	,	
Leg	Summe	er Stre	et				Norman	Street					Summe	r Street	t				Chestnu	t Street					
Direction	Southb	ound					Westbo	und					Northb	ound					Eastbou	nd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T			App	Ped* I	ĺnt
2025-03-27 6:00AM	0	7	37	0	44	0	24	0	1	0	25	0	3	15	0	0	18	0	0	2	0	0	2	0	89
6:15AM	0	14	52	0	66	1	35	0	1	0	36	0	1	19	0	0	20	0	1	2	0	0	3	0	125
6:30AM	0	29	76	1	106	0	52	0	3	0	55	0	3	30	0	0	33	0	0	3	0	0	3	1	197
6:45AM	0	29	94	0	123	5	76	0	4	0	80	0	13	51	0	0	64	1	0	4	2	0	6	1	27 3
Hourly Total	0	79	259	1	339	6	187	0	9	0	196	0	20	115	0	0	135	1	1	11	2	0	14	2	684
7:00AM	0	29	82	1	112	0	63	0	2	0	65	0	12	36	0	0	48	1	1	14	1	0	16	0	241
7:15AM	0	43	86	0	129	3	88	1	3	0	92	0	10	63	0	0	73	0	3	16	2	0	21	2	315
7:30AM	0	41	83	0	124	1	92	0	4	0	96	0	4	54	0	0	58	1	5	16	0	0	21	3	299
7:45AM	0	47	91	0	138	3	81	0	8	0	89	0	9	54	0	0	63	2	3	25	5	0	33	0	323
Hourly Total	0	160	342	1	503	7	324	1	17	0	342	0	35	207	0	0	242	4	12	71	8	0	91	5	1178
8:00AM	0	35	82	0	117	3	80	0	4	0	84	0	15	63	0	1	79	1	2	31	1	0	34	0	314
8:15AM	0	32	77	1	110	5	73	0	3	0	76	0	13	45	0	0	58	0	3	30	7	0	40	1	284
8:30AM	0	33	106	1	140	4	79	0	5	0	84	0	17	48	0	0	65	1	11	20	1	0	32	6	321
8:45AM	0	34	97	0	131	5	63	1	7	1	72	0	8	42	0	0	50	0	4	23	4	0	31	1	284
Hourly Total	0	134	362	2	498	17	295	1	19	1	316	0	53	198	0	1	252	2	20	104	13	0	137	8	1203
3:00PM	0	47	109	1	157	7	82	0	5	1	88	0	9	31	0	0	40	6	2	26	2	0	30	2	315
3:15PM	0	52	123	1	176	9	74	0	13	1	88	0	3	51	0	0	54	5	5	21		0	27	2	345
3:30PM	0	46	98	0	144	4	-	0	5	0	69	0	4	58	0	0	62	10	7	19		0	28	3	303
3:45PM	0	45	91	0	136	4	80	0	4	0	84	0	7	54	0	1	62	3	5	27		0	34	3	316
Hourly Total	0	190	421	2	613	24		0	27	2	329	0	23	194	0	1	218	24	19	93		0	119	10	1279
4:00PM	0	45	118	0	163	2		0	9	0	92	0	9	46	0	0	55	3	3	26		0	30	1	340
4:15PM	0	49	110	0	159	10	_	0	11	0	77	0	5	44	0	0	49	2	3	23		0	28	7	313
4:30PM	0	52	112	0	164	3		0	5	0	98	0	12	41	0	0	53	0	2	22		0	24	1	339
4:45PM	0	63	107	0	170	9		0	11	2	89	0	14	36	0	0	50	1	4	14		0	20	0	329
Hourly Total	0	209	447	0	656	24		0	36	2	356	0	40	167	0	0	207	6	12	85			102	9	1321
5:00PM	0	45	85	0	130	17	96	0	9	0	105	0	7	47	0	0	54	2	3	34		0	37	6	326
5:15PM	1	62	95	1	159	12	91	0	5	0	96	0	5	44	0	0	49	2	3	24	0	0	27	7	331
5:30PM	0	42	121	1	164	8		0	8	0	86	0	7	48	0	0	55	2	3	18	0	0	21	7	326
5:45PM	0	36	123	1	160	9	_	1	13	0	82	0	9	43	0	0	52	4	5	21	0	0	26	6	320
Hourly Total	1	185	424	3	613	46		1	35	0	369	0	28	182	0	0	210	10	14	97	0	0	111	26	1303
Total	1	957	2255	9	3222	124	1757	3	143	5	1908	0	199	1063	0	2	1264	47	78	461	35	0	574	60	6968
% Approach			70.0%		-	12-7	92.1%	0.2%		0.3%	-			84.1% (-		13.6% 8				-	-	
% Total	_		32.4%		16 2%		25.2%	0%		0.1% 2	27.4%	_		15.3%			18.1%	_			0.5% 0		3.2%	_	
Motorcycles	0	0	3	0.170	3		0	0	0	0.1702	0	_	0	3		0	3	_	0	2		0	2		
% Motorcycles	0%	0%			0.1%		0%	0%	0%	0%	0%	_	0%	0.3%			0.2%	_		0.4%	0% 0		0.3%	-	0.1%
Lights	1	937	2149	9	3096		1722	1	140	5	1868	_	194	1040	0	2	1236	_	76	452			563		6763
% Lights			95.3%				98.0% 3							97.8%					97.4% 9						97.1%
Single-Unit Trucks	0	10	48	0	58		22	0	2	0	24	_	1	11	0 /0 1	00 /0 2	12		1	3		0	4		98
% Single-Unit Trucks		1.0%	2.1%		1.8%		1.3%	0%	1.4%		1.3%	-	0.5%	1.0%			0.9%			0.7%	0% 0).7%	-	1.4%
Articulated Trucks	0	2	5	0	7		6	0	1.470	0 70	7		0.570	0		0	0.570		0	0.770		0	0	\exists	1.47
% Articulated Trucks		0.2%			0.2%		0.3%	0%			0.4%		0%	0% (0%	0%		0%	0%	0% 0		0%	\exists	0.2%
Buses	_	7	42	0 76	49		5	0 78	0.7%	0 76	5		4		0	0 %	13		1	2	0 % 0		3		70
% Buses		0.7%			1.5%		0.3%	0%	0%		0.3%	=	2.0%	0.8%			1.0%	-		0.4%	0% 0				1.0%
Bicycles on Road		1	8	0 76	9		0.5%	2	0 78	0 76	4		0		0	0 %	0		0	2		0	2		1.0%
% Bicycles on Road		0.1%			0.3%		0.1% 6		0%		0.2%		0%	0% (0%	0%			0.4%	0% 0				0.2%
Pedestrians	370	0.170	0.470	-	-	122		-	- 070	-	-	0	- 0 /0	370	-	-		46	-	-		- U	-	59	0.2/
% Pedestrians	-					98.4%	H-					U						97.9%				_		8.3%	
Bicycles on Crosswalk	-				-	20.470	_					0					-	1				_	- 30	0.5%	
% Bicycles on Crosswalk	-					1.6%						U						2.1%				-		1.7%	
10 DICYCIES OII CIUSSWAIK	1 -	-	-	-	-	1.070	i -	_	-	-	-	-	-	-	-	_	_	∠.170	_	-	-	-	-	1./ /0	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

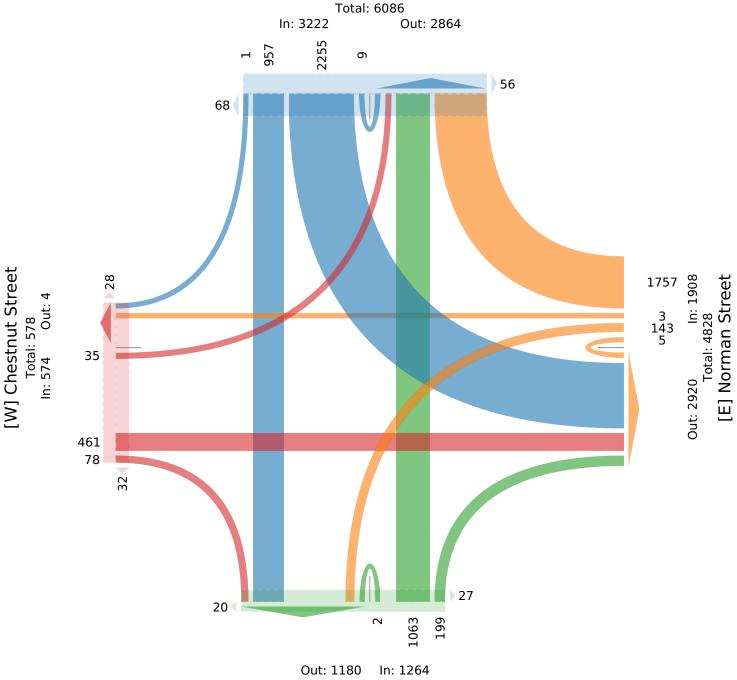
Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US





Out: 1180 In: 1264 Total: 2444 [S] Summer Street

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456

Leg	Sum	mer St	reet				Normai	n Stree	t				Summe	r Street					Chestnu	ıt Stree	t				
Direction	Sout	hboun	d				Westbo	und					Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App I	ed*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:15AM	0	43	86	0	129	3	88	1	3	0	92	0	10	63	0	0	73	0	3	16	2	0	21	2	315
7:30AM	0	41	83	0	124	1	92	0	4	0	96	0	4	54	0	0	58	1	5	16	0	0	21	3	299
7:45AM	0	47	91	0	138	3	81	0	8	0	89	0	9	54	0	0	63	2	3	25	5	0	33	0	323
8:00AM	0	35	82	0	117	3	80	0	4	0	84	0	15	63	0	1	79	1	2	31	1	0	34	0	314
Total	0	166	342	0	508	10	341	1	19	0	361	0	38	234	0	1	273	4	13	88	8	0	109	5	1251
% Approach	0%	32.7%	67.3%	0%	-	-	94.5%	0.3%	5.3% 0)%	-	-	13.9%	85.7%	0% ().4%	-	-	11.9% 8	80.7%	7.3%	0%	-	-	-
% Total	0%	13.3%	27.3%	0% 4	40.6%	-	27.3%	0.1%	1.5% 0)% 2	28.9%	-	3.0%	18.7%	0% (0.1%	21.8%	-	1.0%	7.0%	0.6%	0%	8.7%	-	-
PHF	-	0.883	0.944	-	0.923	-	0.927	0.250	0.594	-	0.940	-	0.633	0.929	- 0	.250	0.864	-	0.650	0.702	0.400	-	0.794	-	0.969
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	2	0	0	2	-	0	1	0	0	1	-	3
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% 0)%	0%	-	0%	0.9%	0%	0%	0.7%	-	0%	1.1%	0% (0%	0.9%	-	0.2%
Lights	0	163	321	0	484	-	336	1	18	0	355	-	38	225	0	1	264	-	13	85	8	0	106	-	1209
% Lights	0%	98.2%	93.9%	0% 9	95.3%	-	98.5%	100%	94.7% 0)% 9	98.3%	-	100%	96.2%	0% 1	00%	96.7%	-	100% 9	96.6%	100% (0% 9	97.2%	-	96.6%
Single-Unit Trucks	0	2	14	0	16	-	4	0	1	0	5	-	0	5	0	0	5	-	0	0	0	0	0	-	26
% Single-Unit Trucks	0%	1.2%	4.1%	0%	3.1%	-	1.2%	0%	5.3% 0)%	1.4%	-	0%	2.1%	0%	0%	1.8%	-	0%	0%	0% (0%	0%	-	2.1%
Articulated Trucks	0	1	2	0	3	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	3
% Articulated Trucks	0%	0.6%	0.6%	0%	0.6%	-	0%	0%	0% 0)%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0% (0%	0%	-	0.2%
Buses	0	0	3	0	3	-	1	0	0	0	1	-	0	2	0	0	2	-	0	1	0	0	1	-	7
% Buses	0%	0%	0.9%	0%	0.6%	-	0.3%	0%	0% 0)%	0.3%	-	0%	0.9%	0%	0%	0.7%	-	0%	1.1%	0% (0%	0.9%	-	0.6%
Bicycles on Road	0	0	2	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	1	-	3
% Bicycles on Road	0%	0%	0.6%	0%	0.4%	-	0%	0%	0% 0)%	0%	-	0%	0%	0%	0%	0%	-	0%	1.1%	0% (0%	0.9%	-	0.2%
Pedestrians	-	-	-	-	-	10	-	-	-	-	-	0	-	-	-	-	-	4	-	-	-	-	-	5	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	_	-	100%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

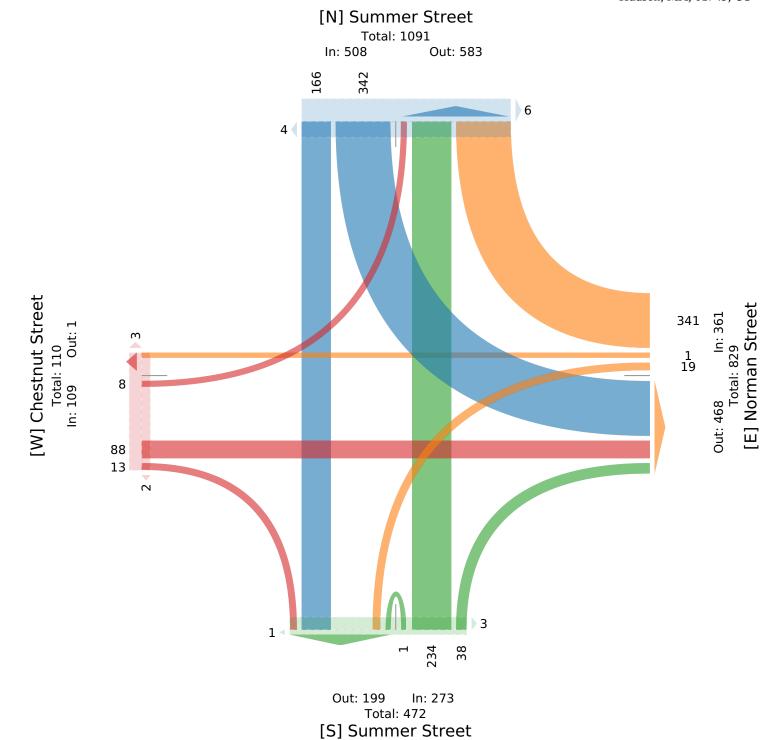
Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456



Thu Mar 27, 2025

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

 $All\ Classes\ (Motorcycles,\ Lights,\ Single-Unit\ Trucks,\ Articulated\ Trucks,\ Buses,\ Pedestrians,$

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456

Leg	Summ	er Stree	et .				Normar	Stre	eet				Summe	r Stree	:				Chestn	ut Stree					
Direction	Southb	oound					Westbo	und					Northbo	ound					Eastbo	und					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 4:30PM	0	52	112	0	164	3	93	0	5	0	98	0	12	41	0	0	53	0	2	22	0	0	24	1	339
4:45PM	0	63	107	0	170	9	76	0	11	2	89	0	14	36	0	0	50	1	4	14	2	0	20	0	329
5:00PM	0	45	85	0	130	17	96	0	9	0	105	0	7	47	0	0	54	2	3	34	0	0	37	6	326
5:15PM	1	62	95	1	159	12	91	0	5	0	96	0	5	44	0	0	49	2	3	24	0	0	27	7	331
Total	1	222	399	1	623	41	356	0	30	2	388	0	38	168	0	0	206	5	12	94	2	0	108	14	1325
% Approach	0.2%	35.6%	64.0%	0.2%	-	-	91.8% (0% 7	7.7%	0.5%	-	-	18.4%	81.6%	0% ()%	-	-	11.1%	87.0%	1.9%	0%	-	-	-
% Total	0.1%	16.8%	30.1%	0.1%	47.0%	-	26.9% (0% 2	2.3%	0.2% 2	29.3%	-	2.9%	12.7%	0% ()% 1	5.5%	-	0.9%	7.1%	0.2%	0%	8.2%	-	-
PHF	0.250	0.881	0.886	0.250	0.913	-	0.927	- 0	.682	0.250	0.924	-	0.679	0.894	-	-	0.954	-	0.750	0.691).250	- (0.730	-	0.976
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0% (0%	0%	0%	0%	-	0%	0%	0% (0%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	1	220	387	1	609	-	352	0	30	2	384	-	38	167	0	0	205	-	12	94	2	0	108	-	1306
% Lights	100%	99.1%	97.0%	100% 9	97.8%	-	98.9% (0% 1	00%	100% 9	99.0%	-	100%	99.4%	0% ()% 9	9.5%	-	100%	100%	100%	0% 1	100%	-	98.6%
Single-Unit Trucks	0	0	3	0	3	-	4	0	0	0	4	-	0	0	0	0	0	-	0	0	0	0	0	-	7
% Single-Unit Trucks	0%	0%	0.8%	0%	0.5%	-	1.1%	0%	0%	0%	1.0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.5%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Articulated Trucks	0%	0%	0%	0%	0%	-	0% (0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0%
Buses	0	2	7	0	9	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	10
% Buses	0%	0.9%	1.8%	0%	1.4%	-	0% (0%	0%	0%	0%	-	0%	0.6%	0% ()%	0.5%	-	0%	0%	0%	0%	0%	-	0.8%
Bicycles on Road	0	0	2	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Bicycles on Road	0%	0%	0.5%	0%	0.3%	-	0% (0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	-	40	-	-	-	-	-	0	-	-	-	-	-	5	-	-	-	-	-	14	
% Pedestrians	-	-	-	-	- 9	97.6%	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	2.4%	-	-	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

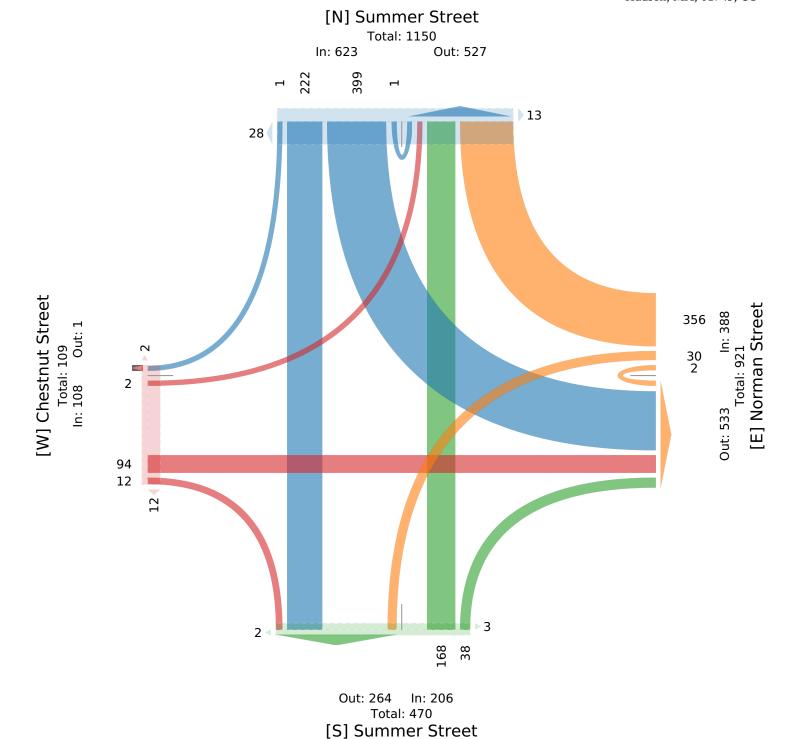
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279729, Location: 42.520028, -70.898456



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

 $All\ Classes\ (Motorcycles,\ Lights,\ Single-Unit\ Trucks,\ Articulated\ Trucks,\ Buses,\ Pedestrians,\ Bicycles\ on$

Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494

Leg	Washir	ngton S	treet				New De	erby Sti	reet				Washir	gton St	reet				Normar	Street	:				
Direction	Southb	ound					Westbo	und					Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 6:00AM	9	20	1	0	30	0	10	17	6	0	33	1	4	83	18	0	105	0	21	14	1	0	36	1	204
6:15AM	16	25	3	0	44	0	12	13	5	0	30	3	10	92	32	0	134	2	29	17	1	0	47	2	255
6:30AM	20	28	7	0	55	0	15	20	10	0	45	4	11	98	51	1	161	0	47	17	2	0	66	0	327
6:45AM	23	48	4	0	75	1	9	32	13	0	54	5	20	151	60	0	231	2	52	26	5	0	83	2	443
Hourly Total	. 68	121	15	0	204	1	46	82	34	0	162	13	45	424	161	1	631	4	149	74	9	0	232	5	1229
7:00AM	14	33	11	0	58	7	18	33	18	0	69	6	26	119	34	0	179	4	49	36	12	0	97	1	403
7:15AM	13	58	10	0	81	3	23	41	14	0	78	8	42	172	66	0	280	0	39	30	4	0	73	0	512
7:30AM	25	39	20	0	84	3	22	64	19	0	105	5	39	144	61	0	244	1	49	51	7	0	107	3	540
7:45AM	17	44	12	0	73	3	19	68	12	1	100	6	35	148	63	1	247	3	50	47	9	0	106	2	526
Hourly Total	69	174	53	0	296	16	82	206	63	1	352	25	142	583	224	1	950	8	187	164	32	0	383	6	1981
8:00AM	14	55	20	0	89	5	11	52	18	0	81	11	49	132	60	0	241	5	52	57	10	0	119	2	530
8:15AM	12	56	16	0	84	0	24	53	15	0	92	11	40	131	48	0	219	4	35	74	5	0	114	3	509
8:30AM	12	58	19	0	89	1	17	45	25	0	87	11	39	126	64	0	229	2	50	72	7	0	129	2	534
8:45AM	13	49	9	0	71	3	13	57	25	0	95	9	42	106	47	0	195	3	70	40	5	0	115	2	476
Hourly Total	. 51	218	64	0	333	9	65	207	83	0	355	42	170	495	219	0	884	14	207	243	27	0	477	9	2049
3:00PM	29	55	16	0	100	15	9	66	16	0	91	26	31	133	53	1	218	8	61	43	4	0	108	1	517
3:15PM	21	53	18	0	92	11	17	72	23	0	112	15	28	113	42	0	183	11	57	51	3	1	112	3	499
3:30PM	27	64	15	0	106	7	15	28	16	0	59	6	33	138	52	0	223	8	46	59	12	0	117	7	505
3:45PM	19	61	18	0	98	13	16	84	24	0	124	10	32	113	44	0	189	6	46	55	6	0	107	4	518
Hourly Total	. 96	233	67	0	396	46	57	250	79	0	386	57	124	497	191	1	813	33	210	208	25	1	444	15	2039
4:00PM	30	46	16	0	92	9	16	84	21	0	121	9	39	109	28	0	176	5	65	47	6	0	118	6	507
4:15PM	13	59	14	0	86	4	20	62	20	0	102	9	43	93	44	0	180	15	56	57	6	0	119	10	487
4:30PM	25	67	22	0	114	4	19	60	20	0	99	11	41	113	49	1	204	5	46	43	3	0	92	10	509
4:45PM	21	57	21	0	99	11	16	87	16	1	120	12	37	98	50	0	185	5	54	68	8	0	130	2	534
Hourly Total	. 89	229	73	0	391	28	71	293	77	1	442	41	160	413	171	1	745	30	221	215	23	0	459	28	2037
5:00PM	17	81	12	0	110	4	10	81	22	0	113	14	42	118	43	0	203	1	45	50	9	0	104	11	530
5:15PM	12	54	18	2	86	7	14	82	28	0	124	23	47	103	39	1	190	10	43	44	13	0	100	10	500
5:30PM	17	61	23	2	103	3	14	61	23	0	98	17	34	120	55	0	209	5	69	54	7	0	130	6	540
5:45PM	26	51	10	1	88	8	11	80	14	0	105	11	38	102	34	0	174	9	63	52	8	0	123	6	490
Hourly Total	. 72	247	63	5	387	22	49	304	87	0	440	65	161	443	171	1	776	25	220	200	37	0	457	33	2060
Total	445	1222	335	5	2007	122	370	1342	423	2	2137	243	802	2855	1137	5	4799	114	1194	1104	153	1	2452	96	11395
% Approach	22.2%	60.9%	16.7%	0.2%	-	-	17.3% 6	52.8%	19.8%	0.1%	-	-	16.7%	59.5%	23.7%	0.1%	-	-	48.7%	45.0%	6.2%	0%	-	-	-
% Total	3.9%	10.7%	2.9%	0%	17.6%	-	3.2%	11.8%	3.7%	0%	18.8%	-	7.0%	25.1%	10.0%	0% 4	2.1%	-	10.5%	9.7%	1.3%	0%	21.5%	-	-
Motorcycles	0	1	1	0	2	-	2	1	1	0	4	-	2	2	1	0	5	-	2	2	0	0	4	-	15
% Motorcycles	0%	0.1%	0.3%	0%	0.1%	-	0.5%	0.1%	0.2%	0%	0.2%	-	0.2%	0.1%	0.1%	0%	0.1%	-	0.2%	0.2%	0%	0%	0.2%	-	0.1%
Lights	431	1191	315	5	1942	-	334	1306	415	2	2057	-	781	2774	1116	5	4676	-	1157	1054	142	1	2354	-	11029
% Lights	96.9%	97.5%	94.0%	100% 9	96.8%	-	90.3%	97.3%	98.1%	100% 9	96.3%	-	97.4%	97.2% 9	98.2%	100% 9	7.4%	-	96.9%	95.5%	92.8%	100% 9	96.0%	-	96.8%
Single-Unit Trucks	9	17	11	0	37	-	12	17	4	0	33	-	12	45	13	0	70	-	18	19	3	0	40	-	180
% Single-Unit Trucks	2.0%	1.4%	3.3%	0%	1.8%	-	3.2%	1.3%	0.9%	0%	1.5%	-	1.5%	1.6%	1.1%	0%	1.5%	-	1.5%	1.7%	2.0%	0%	1.6%	-	1.6%
Articulated Trucks	1	2	3	0	6	-	0	4	1	0	5	-	2	12	6	0	20	-	6	0	0	0	6	-	37
% Articulated Trucks	0.2%	0.2%	0.9%	0%	0.3%	-	0%	0.3%	0.2%	0%	0.2%	-	0.2%	0.4%	0.5%	0%	0.4%	-	0.5%	0%	0%	0%	0.2%	-	0.3%
Buses	3	4	1	0	8	-	17	12	1	0	30	-	5	13	1	0	19	-	8	27	8	0	43	-	100
% Buses	0.7%	0.3%	0.3%	0%	0.4%	-	4.6%	0.9%	0.2%	0%	1.4%	-	0.6%	0.5%	0.1%	0%	0.4%	-	0.7%	2.4%	5.2%	0%	1.8%	-	0.9%
Bicycles on Road	1	7	4	0	12	-	5	2	1	0	8	-	0	9	0	0	9	-	3	2	0	0	5	-	34
% Bicycles on Road	0.2%	0.6%	1.2%	0%	0.6%	-	1.4%	0.1%	0.2%	0%	0.4%	-	0%	0.3%	0%	0%	0.2%	-	0.3%	0.2%	0%	0%	0.2%	-	0.3%
Pedestrians	-	-	-	-	-	122	-	-	-	-	-	241	-	-	-	-	-	108	-	-	-	-	-	95	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	99.2%	-	-	-	-	- !	94.7%	-	-	-	-	- 6	99.0%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	6	-	-	-	-	-	1	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

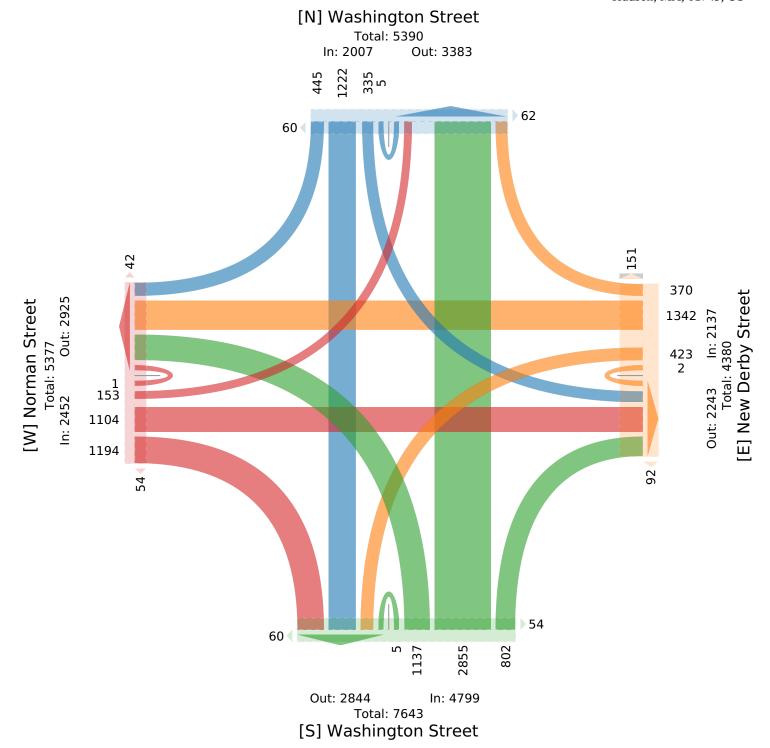
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494



Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

157 Washington Street, 2, Hudson, MA, 01749, US

Leg	Washin	gton S	treet				New De	erby St	reet				Washin	ngton St	reet				Norma	n Street					
"	Southb	0					Westbo	,					Northb	_					Eastbou						
Time	R	Т	L	U	Арр	Ped*	R	Т	L	U	Арр	Ped*	R	T	L	U	Арр	Ped*	R	Т	L	U	App 1	Ped*	Int
2025-03-27 7:15AM	13	58	10	0	81	3	23	41	14	0	78	8	42	172	66	0	280	0	39	30	4	0	73	0	512
7:30AM	25	39	20	0	84	3	22	64	19	0	105	5	39	144	61	0	244	1	49	51	7	0	107	3	540
7:45AM	17	44	12	0	73	3	19	68	12	1	100	6	35	148	63	1	247	3	50	47	9	0	106	2	526
8:00AM	14	55	20	0	89	5	11	52	18	0	81	11	49	132	60	0	241	5	52	57	10	0	119	2	530
Total	69	196	62	0	327	14	75	225	63	1	364	30	165	596	250	1	1012	9	190	185	30	0	405	7	2108
% Approach	21.1%	59.9%	19.0%	0%	-	-	20.6%	61.8%	17.3%	0.3%	-	-	16.3%	58.9%	24.7%	0.1%	-	-	46.9%	45.7%	7.4%	0%	-	-	-
% Total	3.3%	9.3%	2.9%	0%	15.5%	-	3.6%	10.7%	3.0%	0%	17.3%	-	7.8%	28.3%	11.9%	0% 4	48.0%	-	9.0%	8.8%	1.4%	0% 1	19.2%	-	-
PHF	0.690	0.841	0.763	-	0.923	-	0.815	0.824	0.829	0.250	0.864	-	0.842	0.863	0.947	0.250	0.902	-	0.904	0.807	0.750	- 1	0.845	-	0.974
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	66	191	56	0	313	-	70	217	61	1	349	-	158	575	246	1	980	-	180	175	28	0	383	-	2025
% Lights	95.7%	97.4%	90.3%	0% 9	95.7%	-	93.3%	96.4%	96.8%	100% 9	95.9%	-	95.8%	96.5%	98.4%	100% 9	96.8%	-	94.7%	94.6%	93.3%	0% 9	94.6%	-	96.1%
Single-Unit Trucks	2	1	4	0	7	-	3	5	1	0	9	-	6	17	3	0	26	-	4	4	1	0	9	-	51
% Single-Unit Trucks	2.9%	0.5%	6.5%	0%	2.1%	-	4.0%	2.2%	1.6%	0%	2.5%	-	3.6%	2.9%	1.2%	0%	2.6%	-	2.1%	2.2%	3.3%	0%	2.2%	-	2.4%
Articulated Trucks	1	0	1	0	2	-	0	0	1	0	1	-	1	0	1	0	2	-	4	0	0	0	4	-	9
% Articulated Trucks	1.4%	0%	1.6%	0%	0.6%	-	0%	0%	1.6%	0%	0.3%	-	0.6%	0%	0.4%	0%	0.2%	-	2.1%	0%	0%	0%	1.0%	-	0.4%
Buses	0	3	0	0	3	-	2	2	0	0	4	-	0	2	0	0	2	-	0	5	1	0	6	-	15
% Buses	0%	1.5%	0%	0%	0.9%	-	2.7%	0.9%	0%	0%	1.1%	-	0%	0.3%	0%	0%	0.2%	-	0%	2.7%	3.3%	0%	1.5%	-	0.7%
Bicycles on Road	0	1	1	0	2	-	0	1	0	0	1	-	0	2	0	0	2	-	2	1	0	0	3	-	8
% Bicycles on Road	0%	0.5%	1.6%	0%	0.6%	-	0%	0.4%	0%	0%	0.3%	-	0%	0.3%	0%	0%	0.2%	-	1.1%	0.5%	0%	0%	0.7%	-	0.4%
Pedestrians	-	-	-	-	-	14	-	-	-	-	-	30	-	-	-	-	-	9	-	-	-	-	-	7	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 1	00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

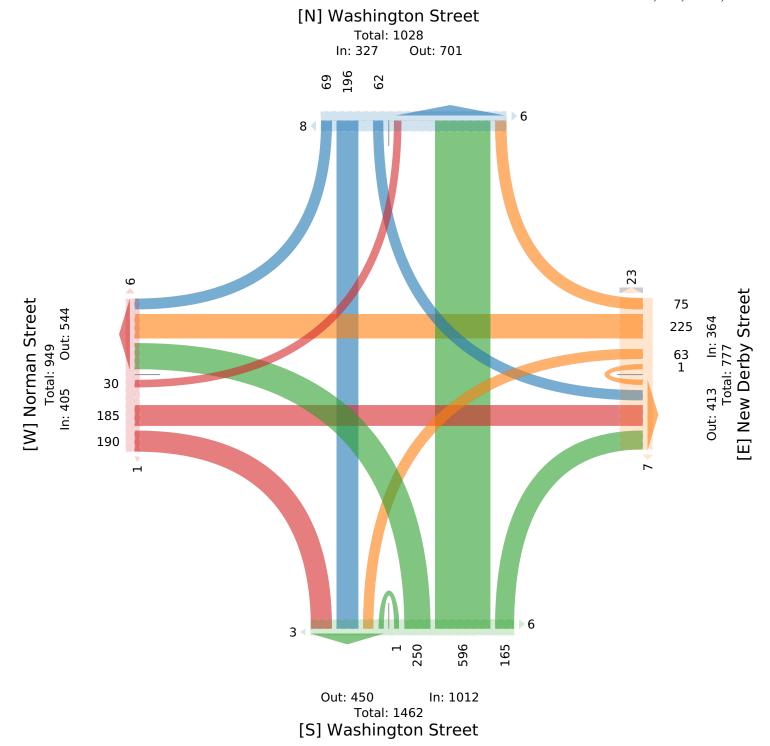
AM Peak (7:15 AM - 8:15 AM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494



Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494

Leg	Washir	gton S	treet				New D	erby St	reet				Washir	ngton St	reet				Normai	n Street					
Direction	Southb	ound					Westbo	ound					Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	Т	L	U	App	Ped*	Int
2025-03-27 4:45PM	21	57	21	0	99	11	16	87	16	1	120	12	37	98	50	0	185	5	54	68	8	0	130	2	534
5:00PM	17	81	12	0	110	4	10	81	22	0	113	14	42	118	43	0	203	1	45	50	9	0	104	11	530
5:15PM	12	54	18	2	86	7	14	82	28	0	124	23	47	103	39	1	190	10	43	44	13	0	100	10	500
5:30PM	17	61	23	2	103	3	14	61	23	0	98	17	34	120	55	0	209	5	69	54	7	0	130	6	540
Total	67	253	74	4	398	25	54	311	89	1	455	66	160	439	187	1	787	21	211	216	37	0	464	29	2104
% Approach	16.8%	63.6%	18.6%	1.0%	-	-	11.9%	68.4%	19.6%	0.2%	-	-	20.3%	55.8%	23.8%	0.1%	-	-	45.5%	46.6%	8.0% ()%	-	-	-
% Total	3.2%	12.0%	3.5%	0.2%	18.9%	-	2.6%	14.8%	4.2%	0%	21.6%	-	7.6%	20.9%	8.9%	0%:	37.4%	-	10.0%	10.3%	1.8% ()% 2 2	2.1%	-	-
PHF	0.798	0.791	0.804	0.500	0.914	-	0.828	0.901	0.795 (0.250	0.913	-	0.851	0.920	0.850	0.250	0.945	-	0.761	0.794	0.712	- 0	.890	-	0.974
Motorcycles	0	0	0	0	0	-	1	1	1	0	3	-	1	1	0	0	2	-	0	0	0	0	0	-	5
% Motorcycles	0%	0%	0%	0%	0%	-	1.9%	0.3%	1.1%	0%	0.7%	-	0.6%	0.2%	0%	0%	0.3%	-	0%	0%	0% ()%	0%	-	0.2%
Lights	65	248	74	4	391	-	50	306	88	1	445	-	159	428	186	1	774	-	207	211	36	0	454	-	2064
% Lights	97.0%	98.0%	100%	100%	98.2%	-	92.6%	98.4%	98.9%	100% 9	97.8%	-	99.4%	97.5%	99.5%	100% 9	98.3%	-	98.1%	97.7%	97.3% ()% 97	7.8%	-	98.1%
Single-Unit Trucks	0	2	0	0	2	-	0	2	0	0	2	-	0	4	1	0	5	-	1	2	0	0	3	-	12
% Single-Unit Trucks	0%	0.8%	0%	0%	0.5%	-	0%	0.6%	0%	0%	0.4%	-	0%	0.9%	0.5%	0%	0.6%	-	0.5%	0.9%	0% ()% ().6%	-	0.6%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	3
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0.7%	0%	0%	0.4%	-	0%	0%	0% ()%	0%	-	0.1%
Buses	2	0	0	0	2	-	2	1	0	0	3	-	0	2	0	0	2	-	2	3	1	0	6	-	13
% Buses	3.0%	0%	0%	0%	0.5%	-	3.7%	0.3%	0%	0%	0.7%	-	0%	0.5%	0%	0%	0.3%	-	0.9%	1.4%	2.7% ()% 1	1.3%	-	0.6%
Bicycles on Road	0	3	0	0	3	-	1	1	0	0	2	-	0	1	0	0	1	-	1	0	0	0	1	-	7
% Bicycles on Road	0%	1.2%	0%	0%	0.8%	-	1.9%	0.3%	0%	0%	0.4%	-	0%	0.2%	0%	0%	0.1%	-	0.5%	0%	0% ()% ().2%	-	0.3%
Pedestrians	-	-	-		-	25	-	-	-			65	-	-	-			20	-	-	-	-	_	29	
% Pedestrians	-	-	-		-	100%	-	-	-		-	98.5%	-	-	-		-	95.2%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	1.5%	-	-	-	-	-	4.8%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

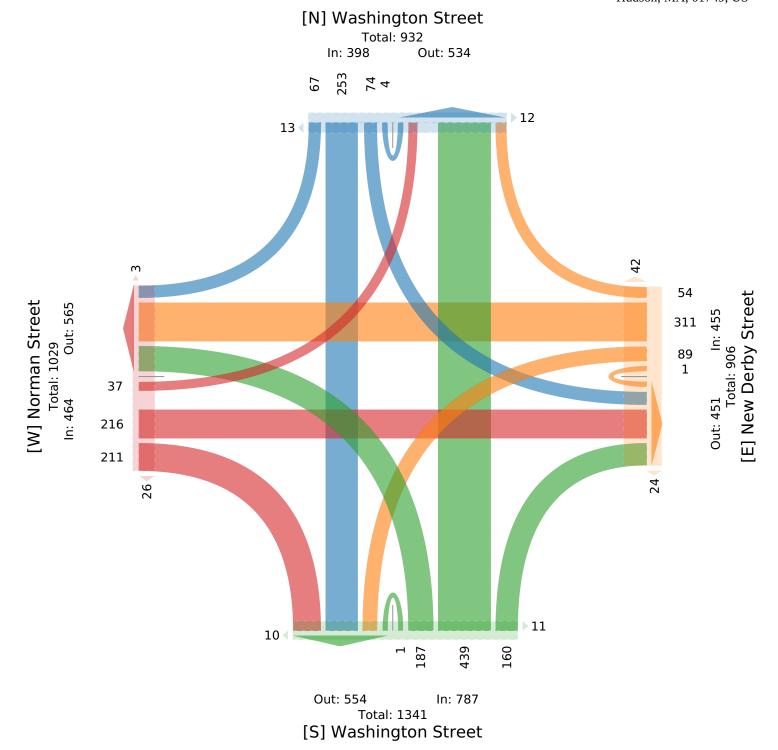
Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279733, Location: 42.519774, -70.895494



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

Hudson, MA, 01749, US

T	X471-:	C					X 4.7 l- :	C+	(D -	4-	114)		C1 C						M:II Ca		uuson				
Leg Direction	Washir Southb	_	reet				Washin Westbo	_	reet (Ro	ute	114)		Canal S Northbo						Mill Str Eastbou						
Time	R	T	L	U	Арр	Ped*	R	T	L	Ιī	Арр	Dod*	R	T	L	ΙI	Арр	Ped*	R	Т	L	U	Арр	Ped* 1	Ínt
2025-03-27 6:00AM	0	38	10	0	48	0	38	8		0	46	0	1	51	10	0	62	0	10	9		0	25	0	181
6:15AM	3	41	16	0	60	2	50	13	1	_	64	4	2	66		0	81	0	22	11		0	46	1	251
6:30AM	1	49	31	1	82	0		19		0	95	4	4	88		0	107	0	25	25		0	61	0	345
6:45AM	6	57	43	0	106	2	77	23		0	104	1	2	116	20	0	138	0	42	15	22	0	79	2	427
Hourly Total	10	185	100	1	296	4	241	63		0	309	9	9	321		0	388	0	99	60		0	211	3	1204
7:00AM	2	57	50	0	109	0	65	19		0	85	3	2	143		0	164	1	35	33	18	0	86	2	444
7:15AM	4	74	34	0	112	0	101	26		0	128	4	2	130	28	0	160	1	59	40		0	130	4	530
7:30AM	8	66	33	0	107	2	80	47		0	130	4	5	136	25	0	166	4	59	56	38	0	153	1	556
7:45AM	7	76	36	0	119	0	72	45		0	122	2	2	161	41	0	204	10	61	59	23	0	143	4	588
Hourly Total	21	273	153	0	447	2	318	137		0	465	13	11	570		0	694	16	214	188		0	512	11	2118
8:00AM	8	71	47	2	128	5	64	42		0	113	13	8	131	41	0	180	3	70	77	42	0	189	4	610
8:15AM	12	70	25	1	108	0		57		0	111	6	6	149		0	181	2	71	64		0	176	2	576
8:30AM	4	65	44	1	114	1	60	38		0	100	3	7	117		0	155	1	58	60	31	0	149	4	518
8:45AM	7	99	50	0	156	6		26		0	84	0	_	120		0	158	1	59	67		0	161	2	559
Hourly Total	31	305	166	4	506	12	232	163		0	408	10	29	517		0	674	7	258	268	149	0	675	12	2263
3:00PM	5	78	39	1	123	3		34		0	101	2	10	104	29	0	143	1	84	72	40	0	196	0	563
3:15PM	2	99	45	0	146	5	61	58		0	124	3	12	109		0	148	9	98	62	32	0	192	6	610
3:30PM	6	80	24	0	110	6	_	47		0	113	2	13	113		0	164	16	98	64		0	204	7	591
3:45PM	10	93	37	0	140	2	51	34		0	88	5	8	91	32	0	131	8	84	71	42	0	197	1	556
Hourly Total	23	350	145	1	519	16	235	173		0	426	12	43	417	126	0	586	34	364	269	156	0	789	14	2320
4:00PM	13	98	31	0	142	0	74	57		0	133	3	12	131		0	175	3	90	64	37	0	191	9	641
4:15PM	7	92	21	0	120	6	57	47		0	105	1	7	91	35	0	133	4	77	61	35	0	173	1	531
4:30PM	17	92	35	0	144	3		47		0	105	5	14	117	29	0	160	4	94	71	31	0	196	3	605
4:45PM	9	76	43	2	130	3	56	53		0	118	1	17	113	39	0	169	5	81	70	44	0	195	3	612
Hourly Total	46	358	130	2	536	12	232	204		0	461	10	50	452		0	637	16	342	266		0	755	16	2389
5:00PM	12	87	35	0	134	3	67	55		0	127	7	8	103		0	145	10	71	65	37	0	173	6	579
5:15PM	8	88	35	1	132	3		57		0	127	3	8	117		0	156	1	84	70		0	186	3	601
5:30PM	14	89	41	2	146	4	58	48		0	110	4	20	94		0	145	3	87	54	30	0	171	1	572
5:45PM	7	92	40	0	139	2	60	46		0	107	3	9	85		0	124	1	58	59		0	158	7	528
Hourly Total	41	356	151	3	551	12	247	206		0	471	17	45	399		0	570	6	300	248		0	688	17	2280
Total	-	1827	845	11	2855	58	1505	946			2540	71	187	2676	686	0	3549	79	1577	1299	754		3630	73	12574
% Approach	-	64.0%			-		59.3%		3.5% 09		-		_		19.3% 0		-	-	43.4% 3				-		
% Total	_	14.5%		0.1%			12.0%		0.7% 09				_		5.5% 0			-	12.5%		6.0% 0				
Motorcycles	1	3	2	0	6		1	1		0	2		0	3	1	0	4	-	2	2		0	7		19
% Motorcycles	_	0.2%	0.2%	0%	0.2%		0.1%	0.1%	0% 09		0.1%		0%	0.1%	0.1% 0		0.1%	-	0.1%	0.2%	0.4% 0		0.2%		0.2%
Lights	166		807		2774	-	1468	913			2470	-	184	2613	671		3468	-	1552	1260			3533	\rightarrow	12245
% Lights	96.5%					-	97.5%					-	_		97.8% 0			-			95.6% 0			- 9	97.4%
Single-Unit Trucks	3	19	25	0	47	-	25	11		0	36	-	1	42	8	0	51	-	13	13	15	0	41	-	175
% Single-Unit Trucks	.	1.0%	3.0%		1.6%	-	1.7%	1.2%	0% 09		1.4%	-	0.5%		1.2% 0		1.4%	-		1.0%	2.0% 0		1.1%	-	1.4%
Articulated Trucks	1	3	3	0	7		4	0		0	4		0	7		0	7	-	2	6		0	14	-	32
% Articulated Trucks	_	0.2%	0.4%		0.2%		0.3%	0%	0% 09				0%	0.3%	0% 0		0.2%	-			0.8% 0				0.3%
Buses	_	9	4	0	13	-	4	20	0		24	-	2	11		0	19	-	8	17		0	31	-	87
% Buses	_	0.5%	0.5%		0.5%		_	2.1%	0% 09				1.1%		0.9% 0			-			0.8% 0			-	0.7%
Bicycles on Road	_	3	4	0	8	-	3	1		0	4	-	0	0		0	0	-	0	1	3		4		16
% Bicycles on Road	0.6%	0.2%	0.5%	0%	0.3%		0.2%	0.1%	0% 09	%	0.2%		0%	0%	0% 0	%	0%	-	0%	0.1%	0.4% 0	% (U.1%	-	0.1%
Pedestrians	-	-	-	-	-	51	-	-	-	-	-	70	-	-	-	-	-	74	-	-	-	-	-	65	
% Pedestrians	-	-	-			37.9%	-	-	-		- 8	98.6%	-	-	-		- (93.7%	-	-	-		- 8	9.0%	
Bicycles on Crosswalk	-	-	-		-	7	-	-		-	-	1	-	-	-	-	-	5	-	-	-		-	8	
% Bicycles on Crosswalk	-	-	-	-	- 1	12.1%	-	-	-	-	-	1.4%	-	-	-	-	-	6.3%	-	-	-	-	- 1	1.0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

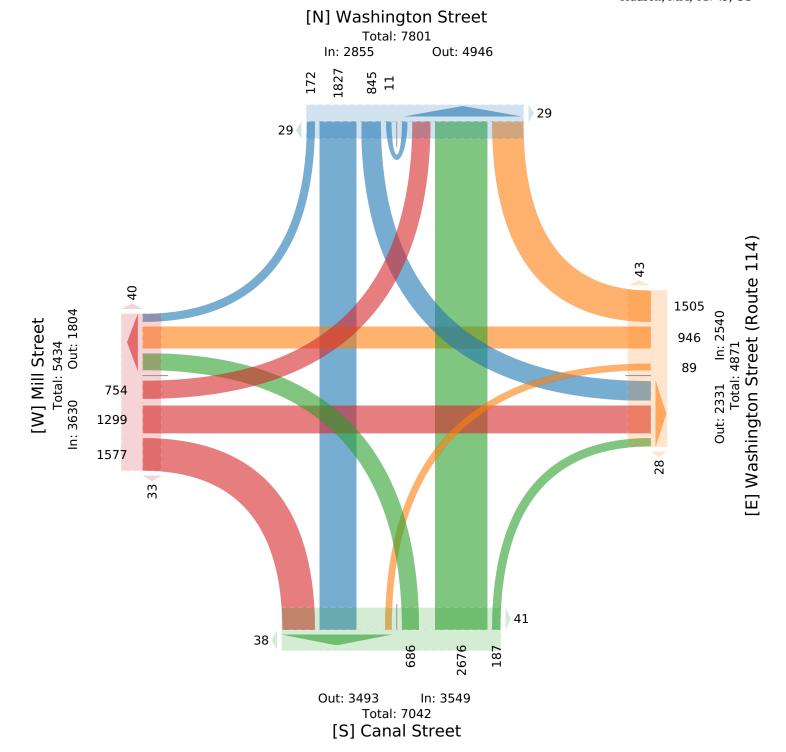
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215



Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215

Provided by: Precision Data Industries, LLC (PDI)

157 Washington Street, 2, Hudson, MA, 01749, US

Leg	Washii	ngton S	treet				Washin	gton St	reet (Re	oute	114)		Canal S	treet					Mill St	reet					
Direction	Southb	ound					Westbo	und					Northbo	ound					Eastbou	und					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	Арр	Ped*	Int
2025-03-27 7:30AM	8	66	33	0	107	2	80	47	3	0	130	4	5	136	25	0	166	4	59	56	38	0	153	1	556
7:45AM	7	76	36	0	119	0	72	45	5	0	122	2	2	161	41	0	204	10	61	59	23	0	143	4	588
8:00AM	8	71	47	2	128	5	64	42	7	0	113	1	8	131	41	0	180	3	70	77	42	0	189	4	610
8:15AM	12	70	25	1	108	0	52	57	2	0	111	6	6	149	26	0	181	2	71	64	41	0	176	2	576
Total	35	283	141	3	462	7	268	191	17	0	476	13	21	577	133	0	731	19	261	256	144	0	661	11	2330
% Approach	7.6%	61.3%	30.5%	0.6%	-	-	56.3%	40.1%	3.6% 0	%	-	-	2.9%	78.9%	18.2% ()%	-	-	39.5%	38.7%	21.8%	0%	-	-	-
% Total	1.5%	12.1%	6.1%	0.1%	19.8%	-	11.5%	8.2%	0.7% 0	% 2	0.4%	-	0.9%	24.8%	5.7% ()% 3	1.4%	-	11.2%	11.0%	6.2%	0% 2	28.4%	-	-
PHF	0.729	0.928	0.750	0.375	0.900	-	0.845	0.833	0.607	-	0.926	-	0.656	0.896	0.811	- (0.896	-	0.919	0.831	0.857	-	0.874	-	0.954
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	1	-	0	0	0	0	0	-	1
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% 0	%	0%	-	0%	0%	0.8% ()%	0.1%	-	0%	0%	0%	0%	0%	-	0%
Lights	35	276	135	3	449	-	261	184	17	0	462	-	20	565	128	0	713	-	255	252	134	0	641	-	2265
% Lights	100% 9	97.5%	95.7%	100%	97.2%	-	97.4% 9	96.3%	100% 0	% 5	7.1%	-	95.2%	97.9%	96.2% ()% 9	7.5%	-	97.7%	98.4%	93.1%	0% S	97.0%	-	97.2%
Single-Unit Trucks	0	2	5	0	7	-	6	2	0	0	8	-	0	8	2	0	10	-	4	1	7	0	12	-	37
% Single-Unit Trucks	0%	0.7%	3.5%	0%	1.5%	-	2.2%	1.0%	0% 0	%	1.7%	-	0%	1.4%	1.5% ()%	1.4%	-	1.5%	0.4%	4.9%	0%	1.8%	-	1.6%
Articulated Trucks	0	3	0	0	3	-	0	0	0	0	0	-	0	1	0	0	1	-	0	1	2	0	3	-	7
% Articulated Trucks	0%	1.1%	0%	0%	0.6%	-	0%	0%	0% 0	%	0%	-	0%	0.2%	0% ()%	0.1%	-	0%	0.4%	1.4%	0%	0.5%	-	0.3%
Buses	0	1	1	0	2	-	0	4	0	0	4	-	1	3	2	0	6	-	2	2	1	0	5	-	17
% Buses	0%	0.4%	0.7%	0%	0.4%	-	0%	2.1%	0% 0	%	0.8%	-	4.8%	0.5%	1.5% ()%	0.8%	-	0.8%	0.8%	0.7%	0%	0.8%	-	0.7%
Bicycles on Road	0	1	0	0	1	-	1	1	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	3
% Bicycles on Road	0%	0.4%	0%	0%	0.2%	-	0.4%	0.5%	0% 0	%	0.4%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Pedestrians	-	-	-	-	-	7	-	-	-	-	-	13	-	-	-	-	-	17	-	-	-	-	-	8	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 8	89.5%	-	-	-	-	- 7	72.7%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	3	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	- 1	10.5%	-	-	-	-	- 2	27.3%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

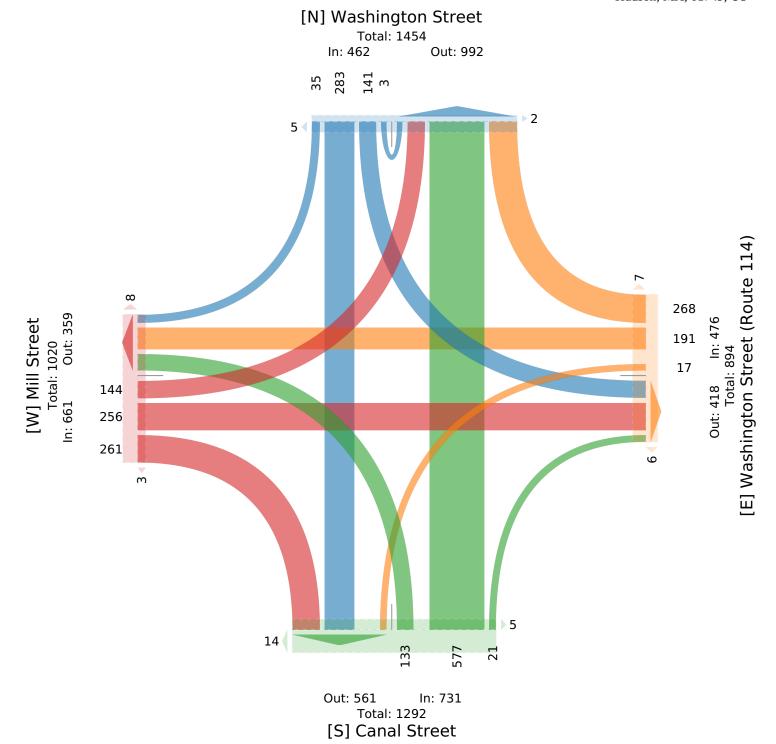
Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215



Thu Mar 27, 2025

PM Peak (3:15 PM - 4:15 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215

Provided by: Precision Data Industries, LLC (PDI)

157 Washington Street, 2, Hudson, MA, 01749, US

																	_							
	0	reet					0	reet (Ro	oute	114)														
Southbo	ound					Westbo	ound					Northb	ound					Eastbou	und					
R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2	99	45	0	146	5	61	58	5	0	124	3	12	109	27	0	148	9	98	62	32	0	192	6	610
6	80	24	0	110	6	61	47	5	0	113	2	13	113	38	0	164	16	98	64	42	0	204	7	591
10	93	37	0	140	2	51	34	3	0	88	5	8	91	32	0	131	8	84	71	42	0	197	1	556
13	98	31	0	142	0	74	57	2	0	133	3	12	131	32	0	175	3	90	64	37	0	191	9	641
31	370	137	0	538	13	247	196	15	0	458	13	45	444	129	0	618	36	370	261	153	0	784	23	2398
5.8%	68.8%	25.5%	0%	-	-	53.9%	42.8%	3.3% 0	%	-	-	7.3%	71.8%	20.9% ()%	-	-	47.2%	33.3%	19.5%	0%	-	-	
1.3%	15.4%	5.7%	0% 2	22.4%	-	10.3%	8.2%	0.6% 0	% 1	9.1%	-	1.9%	18.5%	5.4% ()% 2	5.8%	-	15.4%	10.9%	6.4%	0% 3	32.7%	-	
0.596	0.934	0.761	-	0.921	-	0.831	0.845	0.750	-	0.859	-	0.865	0.847	0.849	- 1	0.883	-	0.944	0.919	0.905	-	0.960	-	0.934
1	0	1	0	2	-	0	0	0	0	0	-	0	2	0	0	2	-	0	2	1	0	3	-	7
3.2%	0%	0.7%	0%	0.4%	-	0%	0%	0% 0	%	0%	-	0%	0.5%	0% ()%	0.3%	-	0%	0.8%	0.7%	0%	0.4%	-	0.3%
28	368	134	0	530	-	239	186	15	0	440	-	44	431	126	0	601	-	362	254	150	0	766	-	2337
90.3%	99.5%	97.8%	0% S	98.5%	-	96.8%	94.9%	100% 0	% <u>9</u>	6.1%	-	97.8%	97.1%	97.7% ()% 9	7.2%	-	97.8%	97.3%	98.0%	0% 9	7.7%	-	97.5%
2	1	2	0	5	-	6	3	0	0	9	-	0	8	0	0	8	-	5	2	0	0	7	-	29
6.5%	0.3%	1.5%	0%	0.9%	-	2.4%	1.5%	0% 0	%	2.0%	-	0%	1.8%	0% ()%	1.3%	-	1.4%	0.8%	0%	0%	0.9%	-	1.2%
0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1	0	0	0	1	-	1
0%	0%	0%	0%	0%	-	0%	0%	0% 0	%	0%	-	0%	0%	0% ()%	0%	-	0.3%	0%	0%	0%	0.1%	-	0%
0	1	0	0	1	-	1	7	0	0	8	-	1	3	3	0	7	-	2	3	1	0	6	-	22
0%	0.3%	0%	0%	0.2%	-	0.4%	3.6%	0% 0	%	1.7%	-	2.2%	0.7%	2.3% ()%	1.1%	-	0.5%	1.1%	0.7%	0%	0.8%	-	0.9%
0	0	0	0	0	-	1	0	0	0	1	-	0	0	0	0	0	-	0	0	1	0	1	-	2
0%	0%	0%	0%	0%	-	0.4%	0%	0% 0	%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0%	0.7%	0%	0.1%	-	0.1%
-	-	-	-	-	9	-	-	-	-	-	13	-	-	-	-	-	35	-	-	-	-	-	21	
-	-	-	-	- (69.2%	-	-	-	-	-	100%	-	-	-	-	- 9	97.2%	-	-	-	-	- 9	91.3%	
-	-	-	-	-	4	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	2	
-	-	-	-	- 3	30.8%	-	-	-	-	-	0%	-	-	-	-	-	2.8%	-	-	-	-	-	8.7%	
	Southbook R 2 6 10 13 31 5.8% 1.3% 0.596 1 3.2% 28 90.3% 0 0% 0 0% 0 0%	Southbound R T 2 99 6 80 10 93 13 98 31 370 5.8% 68.8% 1.3% 15.4% 0.596 0.934 1 0 3.2% 0% 2 368 90.3% 99.5% 2 1 6.5% 0.3% 0 0 0% 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R T L 2 99 45 6 80 24 10 93 37 13 98 31 5.8% 68.8% 25.5% 1.3% 15.4% 5.7% 0.596 0.934 0.761 1 0 1 3.2% 0% 0.7% 28 368 134 90.3% 99.5% 97.8% 2 1 2 6.5% 0.3% 1.5% 0 0 0 0% 0% 0% 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Southbound R T L U 2 99 45 0 6 80 24 0 10 93 37 0 13 98 31 0 5.8% 68.8% 25.5% 0% 1.3% 15.4% 5.7% 0% 2 0.596 0.934 0.761 - 1 0 1 0 3.2% 0% 0.7% 0% 28 368 134 0 90.3% 99.5% 97.8% 0% 2 2 1 2 0 6.5% 0.3% 1.5% 0% 0 0 0 0 0 0% 0% 0% 0 1 0 0 0% 0% 0% 0 0 0 0 0% 0% 0% 0 0 0 0 0% 0% 0 0 0 0 0% 0% 0 0 0 0 0% 0% 0 0 0 0	Southbound R T L U App 2 99 45 0 146 6 80 24 0 110 10 93 37 0 140 13 98 31 0 142 31 370 137 0 538 5.8% 68.8% 25.5% 0% 1.3% 15.4% 5.7% 0% 22.4% 0.596 0.934 0.761 - 0.921 1 0 1 0 2 3.2% 0% 0.7% 0% 0.4% 28 368 134 0 530 90.3% 99.5% 97.8% 0% 98.5% 6.5% 0.3% 1.5% 0% 0.9% 0 0 0 0 0 0 0 0 0 0 0 0<	Southbound R T L U App Ped* 2 99 45 0 146 5 6 80 24 0 110 6 10 93 37 0 140 2 13 98 31 0 142 0 31 370 137 0 538 13 5.8% 68.8% 25.5% 0% - - 1.3% 15.4% 5.7% 0% 22.4% - 0.596 0.934 0.761 - 0.921 - 3.2% 0.9 0.761 - 0.921 - 3.28 134 0 230 - 28 368 134 0 530 - 90.3% 99.5% 97.8% 0% 98.5% - 0 0 0 0 0 0 0.5	Southbound Westbox R T L U App Ped** R 2 99 45 0 146 5 61 6 80 24 0 110 6 61 10 93 37 0 140 2 51 13 98 31 0 142 0 74 5.8% 68.8% 25.5% 0% - - 53.9% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 0.596 0.934 0.761 - 0.921 - 0.831 1 0 1 0 2 - 0 0 3.28 0.96 0.7% 0% 0.4% - 0% 28 368 134 0 530 - 239 90.3% 95.5% 97.8% 0.9% 9.5% - <	Southbound Westbound R T L U App Ped* R T 2 99 45 0 146 5 61 58 6 80 24 0 110 6 61 47 10 93 37 0 140 2 51 34 13 98 31 0 142 0 74 57 31 370 137 0 538 13 247 196 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.596 0.934 0.761 - 0.921 - 0 0 3.2% 0% 0.760 0 2.29 186 90.3% 95.5% 97.8% 0 98.5% - 96.8% <td>Southbound Westbound R T L U App Ped* R T L 2 99 45 0 146 5 61 58 5 6 80 24 0 110 6 61 47 5 10 93 37 0 140 2 51 34 3 13 98 31 0 142 0 74 57 2 31 370 137 0 538 13 247 196 15 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0 0 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0 0 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 1 0 1 0 2</td> <td>Southbound Westbound R T L U App Ped* R T L U 2 99 45 0 146 5 61 58 5 0 10 93 37 0 140 2 51 34 3 0 13 98 31 0 142 0 74 57 2 0 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 1 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 - 1 0 1 0 2 - 0 0 0 0 0 2.28 368 134 0 530 -</td> <td>Southbound Westbound R T L U App Ped* R T L U App 2 99 45 0 146 5 61 58 5 0 124 6 80 24 0 110 6 61 47 5 0 113 10 93 37 0 140 2 51 34 3 0 88 13 98 31 0 142 0 74 57 2 0 133 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% 0.596 0.934 0.761 - 0.921 - 0 0 0 0 0 0</td> <td>Southbound Westbound R T L U App Ped* R T L U App Ped* 2 99 45 0 146 5 61 58 5 0 124 3 6 80 24 0 110 6 61 47 5 0 113 2 10 93 37 0 140 2 51 34 3 0 88 5 13 98 31 0 142 0 74 57 2 0 133 3 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - - - 13.3% 42.8% 3.3% 0% - - - 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% - - 0.831 0.845 0.750 0 0.859 0 - 1 0 1 0 2 - 0</td> <td>Southbound Westbound Northbound R T L U App Ped* R T L U App Ped* R 2 99 45 0 146 5 61 58 5 0 124 3 12 6 80 24 0 140 2 51 34 3 0 88 5 8 13 98 31 0 142 0 74 57 2 0 133 3 12 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - - 7.3% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% - 1.9% 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 - 0.859 - 0.865 1 0 1 0 2 - 0 0 0 0 0 0 0 0 <t< td=""><td>Southbound Westbound Northbound R T L U App Ped** R T L U App Ped** R T 2 99 45 0 146 5 61 58 5 0 124 3 12 109 6 80 24 0 140 2 51 34 3 0 88 5 8 91 13 98 31 0 142 0 74 57 2 0 133 3 12 131 31 370 137 0 538 13 247 196 15 0 458 13 45 444 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - 7.3% 71.8% 1.3% 15.4% 5.7% 0% 22.4% - 10.3%</td><td>Southbould Westbould R T L U App Ped* R T L D D D D D D D D D D D</td><td>Southbould Westbould R T L U App Ped* R T L U 2 99 45 0 110 6 61 47 5 0 113 2 13 113 38 0 10 93 37 0 140 2 51 34 3 0 88 5 8 91 32 0 31 370 137 0 538 13 247 196 15 0 458 13 45 444 129 0 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% -</td><td> Northburned Northburned </td><td> Northe-name</td><td>Southbours Westburs Northburs Eastboth R T L U App Ped* R T L U App Ped* R R R L U App Ped* R R R L U App Ped* R R R L U App Ped* R R L U App Ped* R R T L U App Ped* R R T L U App Ped* R T L U App Ped* R D L D <th< td=""><td> Solition</td><td> Note</td><td> Solition</td><td> Solition</td><td> Solition</td></th<></td></t<></td>	Southbound Westbound R T L U App Ped* R T L 2 99 45 0 146 5 61 58 5 6 80 24 0 110 6 61 47 5 10 93 37 0 140 2 51 34 3 13 98 31 0 142 0 74 57 2 31 370 137 0 538 13 247 196 15 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0 0 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0 0 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 1 0 1 0 2	Southbound Westbound R T L U App Ped* R T L U 2 99 45 0 146 5 61 58 5 0 10 93 37 0 140 2 51 34 3 0 13 98 31 0 142 0 74 57 2 0 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 1 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 - 1 0 1 0 2 - 0 0 0 0 0 2.28 368 134 0 530 -	Southbound Westbound R T L U App Ped* R T L U App 2 99 45 0 146 5 61 58 5 0 124 6 80 24 0 110 6 61 47 5 0 113 10 93 37 0 140 2 51 34 3 0 88 13 98 31 0 142 0 74 57 2 0 133 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% 0.596 0.934 0.761 - 0.921 - 0 0 0 0 0 0	Southbound Westbound R T L U App Ped* R T L U App Ped* 2 99 45 0 146 5 61 58 5 0 124 3 6 80 24 0 110 6 61 47 5 0 113 2 10 93 37 0 140 2 51 34 3 0 88 5 13 98 31 0 142 0 74 57 2 0 133 3 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - - - 13.3% 42.8% 3.3% 0% - - - 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% - - 0.831 0.845 0.750 0 0.859 0 - 1 0 1 0 2 - 0	Southbound Westbound Northbound R T L U App Ped* R T L U App Ped* R 2 99 45 0 146 5 61 58 5 0 124 3 12 6 80 24 0 140 2 51 34 3 0 88 5 8 13 98 31 0 142 0 74 57 2 0 133 3 12 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - - 7.3% 1.3% 15.4% 5.7% 0% 22.4% - 10.3% 8.2% 0.6% 0% 19.1% - 1.9% 0.596 0.934 0.761 - 0.921 - 0.831 0.845 0.750 - 0.859 - 0.865 1 0 1 0 2 - 0 0 0 0 0 0 0 0 <t< td=""><td>Southbound Westbound Northbound R T L U App Ped** R T L U App Ped** R T 2 99 45 0 146 5 61 58 5 0 124 3 12 109 6 80 24 0 140 2 51 34 3 0 88 5 8 91 13 98 31 0 142 0 74 57 2 0 133 3 12 131 31 370 137 0 538 13 247 196 15 0 458 13 45 444 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - 7.3% 71.8% 1.3% 15.4% 5.7% 0% 22.4% - 10.3%</td><td>Southbould Westbould R T L U App Ped* R T L D D D D D D D D D D D</td><td>Southbould Westbould R T L U App Ped* R T L U 2 99 45 0 110 6 61 47 5 0 113 2 13 113 38 0 10 93 37 0 140 2 51 34 3 0 88 5 8 91 32 0 31 370 137 0 538 13 247 196 15 0 458 13 45 444 129 0 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% -</td><td> Northburned Northburned </td><td> Northe-name</td><td>Southbours Westburs Northburs Eastboth R T L U App Ped* R T L U App Ped* R R R L U App Ped* R R R L U App Ped* R R R L U App Ped* R R L U App Ped* R R T L U App Ped* R R T L U App Ped* R T L U App Ped* R D L D <th< td=""><td> Solition</td><td> Note</td><td> Solition</td><td> Solition</td><td> Solition</td></th<></td></t<>	Southbound Westbound Northbound R T L U App Ped** R T L U App Ped** R T 2 99 45 0 146 5 61 58 5 0 124 3 12 109 6 80 24 0 140 2 51 34 3 0 88 5 8 91 13 98 31 0 142 0 74 57 2 0 133 3 12 131 31 370 137 0 538 13 247 196 15 0 458 13 45 444 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% - 7.3% 71.8% 1.3% 15.4% 5.7% 0% 22.4% - 10.3%	Southbould Westbould R T L U App Ped* R T L D D D D D D D D D D D	Southbould Westbould R T L U App Ped* R T L U 2 99 45 0 110 6 61 47 5 0 113 2 13 113 38 0 10 93 37 0 140 2 51 34 3 0 88 5 8 91 32 0 31 370 137 0 538 13 247 196 15 0 458 13 45 444 129 0 5.8% 68.8% 25.5% 0% - - 53.9% 42.8% 3.3% 0% -	Northburned Northburned	Northe-name	Southbours Westburs Northburs Eastboth R T L U App Ped* R T L U App Ped* R R R L U App Ped* R R R L U App Ped* R R R L U App Ped* R R L U App Ped* R R T L U App Ped* R R T L U App Ped* R T L U App Ped* R D L D <th< td=""><td> Solition</td><td> Note</td><td> Solition</td><td> Solition</td><td> Solition</td></th<>	Solition	Note	Solition	Solition	Solition

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

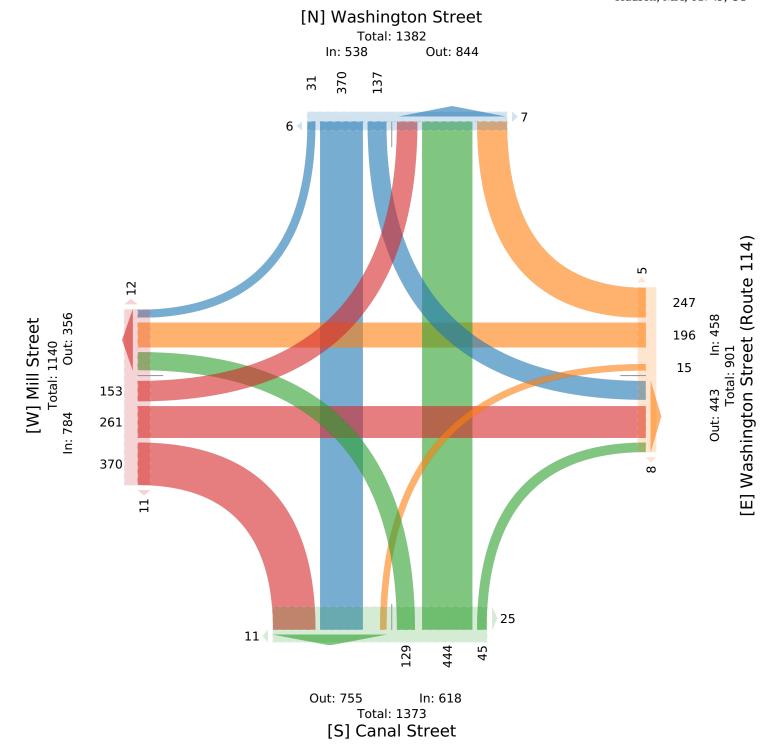
PM Peak (3:15 PM - 4:15 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279736, Location: 42.518106, -70.895215



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

																Hua	SOI	1, IV	/lΑ,	01749	9, US
Leg	Lafaye	tte Stree	t					Parking	Lot						Dow	Street					
Direction	Southb	ound						Southwe	estbounc	i					Wes	tbound					
Time	R	Т	L	HL	U	App	Ped*	HR	BR	BL	HL	U	App	Ped*	HR	R	T	L	U	App	Ped*
2025-03-27 6:00AM	1	14	5	0	0	20	1	0	2	0	0	0	2	2	0	0	0	0	0	0	
6:15AM	0	19	2	0	0	21	1	0	1	0	0	0	1	2	0	0	0	0	0	0	
6:30AM	2	32	3	0	0	37	0	0	1	0	0	0	1	5	0	0	0	0	0	0	
6:45AM	0	52	3	1	0	56	0	0	1	0	0	0	1	0	0	0	0	0	0	0	-
Hourly Total	3	117	13	1	0	134	2	0	5	0	0	0	5	9	0	0	0	0	0	0	8
7:00AM	2	51	3	0	1	57	0	0	0	0	0	0	0	5	0	0	0	0	0	0	
7:15AM	1	68	1	0	0	70	0	0	0	1	0	0	1	0	0	0	0	0	0	0	
7:30AM	1	66	0	1	0	68	2	1	1	1	0	0	3	3	0	0	0	0	0	0	
7:45AM	1	68	4	0	0	73	5	0	1	1	1	0	3	8	0	0	0	0	0	0	1
Hourly Total	5	253	8	1	1	268	7	1	2	3	1	0	7	16	0	0	0	0	0	0	20
8:00AM	2	69	3	2	0	76	2	1	1	0	1	0	3	6	0	0	0	0	0	0	
8:15AM	0	84	4	2	0	90	4	0	1	1	0	0	2	7	0	0	0	0	0	0	
8:30AM	1	82	6	1	0	90	0	1	0	1	0	0	2	8	0	0	0	0	0	0	
8:45AM	1		2	4	0	74	0	1	2	2		0	5	7	0	0	0	0	0	0	(
Hourly Total	4	302	15	9	0	330	6	3	4	4		0	12	28	0	0	0	0	0	0	29
3:00PM	0	105	7	5	0	117	8	1	0	2	1	0	4	9	0	0	0	0	0	0	9
3:15PM	2	86	6	2	2	98	7	3	1	1		0	5	25	0	0	0	0	0	0	20
3:30PM	0		11	2	0	110	4	1	2	2			5	22	0	1	0	0	0	1	2
3:45PM	2		7	6	0	111	5	2	0	1			4	6	0	0	0	0	0	0	
Hourly Total	4		31	15	2	436	24	7	3	6		_	18	62	0	1	0	0	0	1	6
4:00PM			9	2	0	90	1	1	2	2			7	9	0	0	0	0	0	0	
4:15PM			8	5	0	110	3	2	1	2			6	20	0	0	0	0	0	0	2
4:30PM	_		12	3	0	131	5	4	0	1			5	14	0	0	0	0	0	0	1
4:45PM	1	107	10	4	0	122	3	0	1	3			5	6	0	0	0	0	0	0	1.
Hourly Total	5	395	39	14	0	453	12	7	4	8		0	23	49	0	0	0	0	0	0	4
5:00PM	_		11	11	0	130	3	2	0	2			5	8	0	0	0	0	0	0	
5:15PM	1	107	9	10	0	127	8	4	0	1		0	5	21	0	0	0	0	0	0	19
5:30PM	3		10	10	0	113	3	1	1	3			5	6	0	0	0	0	0	0	1.
5:45PM	_		5	5	0	119	1	1	0	2			4	14	0	0	0	0	0	0	10
Hourly Total	6		35	27	0	489	15	8	1	8			19	49	0	0	0	0	0	0	40
Total	_		6.7%	67	0.1%	2110	66	26	19	29	11 00/	0	84	213	0	1000/ 0	0	0	0	1 -	214
% Approach	_			3.2%		27.6%		31.0%	22.6%	34.5%			1 10/		_						
% Total	0.4%		1.8%	0.9%			-	0.3%	0.2%	0.4%	0.1%		1.1%		0%	0% 0				0%	
Motorcycles			0	0	0	2	-	0	0	0			0		0	0	0	0	0	0	
% Motorcycles			0%	0%	0%	0.1%	-	0%	0%	0%	0%		0%		0%	0% 0				0%	
Lights	_		136	66	3		-	26	19	29		0	83		0	0	0	0	0	0	
% Lights							-	100%			90.0%				0%	0% 0				0%	
Single-Unit Trucks	0		2	1 504	0	32	-	0	0	0		0	1	-	0	0	0	0	0	0	
% Single-Unit Trucks			1.4%	1.5%	0%		-	0%	0%		10.0%		1.2%	-	0%	0% 0				0%	
Articulated Trucks			0	0	0	3	-	0	0	0		0	0	-	0		0	0		0	
% Articulated Trucks	-		0%	0%	0%	0.1%	-	0%	0%	0%			0%	-	0%	0% 0				0%	
Buses			3	0	0	35	-	0	0	0		0	0	-	0		0	0	0	0	
% Buses	_		2.1%	0%	0%	1.7%	-	0%	0%	0%	0%		0%	-	0%	0% 0				0%	
Bicycles on Road	1		0	0	0	5	-	0	0	0		0	0	-	0	1	0	0	0	1	
% Bicycles on Road			0%	0%	0%	0.2%	-	0%	0%	0%			0%	-	0%	100% 0		0%	0%		
Pedestrians	-		-	-	-	-	63	-	-	-		-	-	210	-		-	-	-	-	21
% Pedestrians	-		-	-	-	-	95.5%	-	-	-				98.6%	-	-	-	-	-		99.5%
Bicycles on Crosswalk		-	-	-	-	-	3	-	-	-	-	-	-	3	-	-	-	-	-	-	
% Bicycles on Crosswalk	-	-	-	-	-	-	4.5%	-	-	-	-	-	-	1.4%	-	-	-	-	-	-	0.5%

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

												п	udson, N	/IA, U1	749, 03
Leg	Lafayette	Street (Ro	ute 1A)					Washingto	n Street (I	Route 114	1)				
Direction	Northbour	nd						Eastbound							
Time	R	BR	T	L	U	App	Ped*	R	T	BL	L	U	App	Ped*	Int
2025-03-27 6:00A	M 1	0	9	44	0	54	1	15	2	0	0	0	17	0	93
6:15A	M 4	0	23	57	0	84	1	17	2	0	0	0	19	1	125
6:30A	M 2	0	36	86	0	124	0	46	1	0	0	0	47	0	209
6:45A	M 2	0	41	82	0	125	0	67	0	0	0	0	67	1	249
Hourly Tot	al 9	0	109	269	0	387	2	145	5	0	0	0	150	2	676
7:00A	М 3	0	54	70	0	127	0	76	0	0	0	0	76	0	260
7:15A	M 4	0	98	100	0	202	0	64	1	0	0	0	65	0	338
7:30A	M 7	1	79	107	0	194	0	73	1	0	0	0	74	0	339
7:45A	М 3	1	65	88	0	157	3	87	0	0	0	0	87	0	320
Hourly Tot	al 17	2	296	365	0	680	3	300	2	0	0	0	302	0	1257
8:00A	M 12	0	75	82	0	169	2	98	5	0	0	0	103	0	351
8:15A	M 13	0	85	78	0	176	1	63	9	0	0	0	72	0	340
8:30A	M 12	1	68	72	0	153	2	71	7	0	0	0	78	0	323
8:45A	M 8	0	54	68	0	130	0	92	4	0	0	0	96	1	305
Hourly Tot		1	282	300	0	628	5	324	25	0	0	0	349	1	1319
3:00P		3	58	75	0	147	1	82	3	0	0	0	85	0	353
3:15P	M 8	1	75	88	0	172	4	84	7	0	0	0	91	2	366
3:30P	м 9	4	94	74	0	181	3	59	5	0	0	0	64	2	361
3:45P	_	2	67	86	0	165	5	80	5	0	1	0	86	4	366
Hourly Tot		10	294	323	0	665	13	305	20	0	1	0	326	8	1446
4:00P		5	70	88	0	165	0	70	0	1	0	0	71	0	333
4:15P	_	3	92	87	0	187	1	80	3	0	0	0	83	1	386
4:30P	_	1	74	56	0	135	0	87	9	0	0	0	96	2	367
4:45P	_	3	54	83	0	147	0	82	3	1	1	0	87	2	361
Hourly Tot		12	290	314	0	634	1	319	15	2	1	0	337	5	1447
5:00P		4	76	87	0	174	5	65	2	0	0	0	67	5	376
5:15P		2	72	76	0	159	2	94	3	0	0	0	97	5	388
5:30P	_	2	76	86	0	171	3	82	4	0	0	0	86	4	375
5:45P		0	62	74	0	142	3	82	0	1	1	0	84	3	349
Hourly Tot		8	286	323	0	646	13	323	9	1	1	0	334	17	1488
•							37							33	
Tot	_	33	1557	1894	0	3640	3/	1716	76	3	3	0	1798	33	7633
% Approac		0.9%	42.8%	52.0%	0%	47.70/	_	95.4%	4.2%	0.2%	0.2%	0%		-	
% Tot		0.4%	20.4%	24.8%	0%	47.7%	-	22.5%	1.0%	0%	0%	0%	23.6%	-	-
Motorcycle		0	2	1	0	3	-	3	0	0	0	0	3	-	8
% Motorcycle		0%	0.1%	0.1%	0%	0.1%	-	0.2%	0%	0%	0%	0%	0.2%	-	0.1%
Ligh	_	32	1487	1852	0	3523	-	1649	74	3	3	0	1729	-	7368
% Ligh	_	97.0%	95.5%	97.8%	0%	96.8%	-	96.1%	97.4%	100%	100%	0%	96.2%	-	96.5%
Single-Unit Truck	_	2.00/	23	28	0	53	-	32	1 20/	0	0	0	33	-	119
% Single-Unit Truck		3.0%	1.5%	1.5%	0%	1.5%	-	1.9%	1.3%	0%	0%	0%	1.8%	-	1.6%
Articulated Truck		0	8	3	0	11	-	9	0	0	0	0	9	-	23
% Articulated Truck	_	0%	0.5%	0.2%	0%	0.3%	-	0.5%	0%	0%	0%	0%	0.5%	-	0.3%
Buse		0	30	10	0	43	-	20	1	0	0	0	21	-	99
% Bus	_	0%	1.9%	0.5%	0%	1.2%	-	1.2%	1.3%	0%	0%	0%	1.2%	-	1.3%
Bicycles on Roa		0	7	0	0	7	-	3	0	0	0	0	3	-	16
% Bicycles on Roa		0%	0.4%	0%	0%	0.2%	-	0.2%	0%	0%	0%	0%	0.2%	-	0.2%
Pedestria	_	-	-	-	-	-	37	-	-	-	-	-	-	32	
% Pedestria		-	-	-	-	-	100%	-	-	-	-	-	-	97.0%	
Bicycles on Crosswa	_	-	-		-	-	0	-	-	-	-	-	-	1	
% Bicycles on Crosswa	k -	-	-	-	-	-	0%	-	-	-	-	-	-	3.0%	-

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

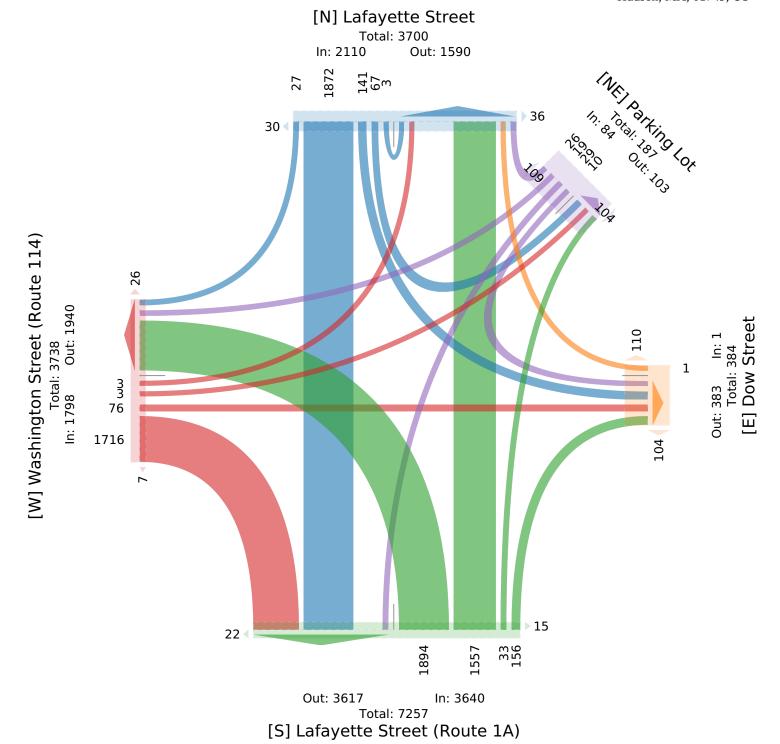
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289



Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

Leg	Lafayet	te Street						Parking	Lot						Dow	Stre	et				
Direction	Southbo	ound						Southwe	estbound	l					West	bour	nd				
Time	R	T	L	HL	U	App	Ped*	HR	BR	BL	HL	U	App	Ped*	HR	R	T	L	U	App	Ped*
2025-03-27 7:30AM	1	66	0	1	0	68	2	1	1	1	0	0	3	3	0	0	0	0	0	0	3
7:45AM	1	68	4	0	0	73	5	0	1	1	1	0	3	8	0	0	0	0	0	0	10
8:00AM	2	69	3	2	0	76	2	1	1	0	1	0	3	6	0	0	0	0	0	0	8
8:15AM	0	84	4	2	0	90	4	0	1	1	0	0	2	7	0	0	0	0	0	0	7
Total	4	287	11	5	0	307	13	2	4	3	2	0	11	24	0	0	0	0	0	0	28
% Approach	1.3%	93.5%	3.6%	1.6%	0%	-	-	18.2%	36.4%	27.3%	18.2%	0%	-	-	0%	0%	0%	0%	0%	-	-
% Total	0.3%	21.3%	0.8%	0.4%	0%	22.7%	-	0.1%	0.3%	0.2%	0.1%	0%	0.8%	-	0%	0%	0%	0%	0%	0%	-
PHF	0.500	0.848	0.688	0.625	-	0.847	-	0.500	1.000	0.750	0.500	-	0.917	-	-	-	-	-	-	-	-
Motorcycles	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	0	0	0	0	-
% Motorcycles	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	-
Lights	4	270	9	5	0	288	-	2	4	3	2	0	11	-	0	0	0	0	0	0	-
% Lights	100%	94.1%	81.8%	100%	0%	93.8%	-	100%	100%	100%	100%	0%	100%	-	0%	0%	0%	0%	0%	-	-
Single-Unit Trucks	0	8	2	0	0	10	-	0	0	0	0	0	0	-	0	0	0	0	0	0	-
% Single-Unit Trucks	0%	2.8%	18.2%	0%	0%	3.3%	-	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	-
Articulated Trucks	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	0	0	0	0	-
% Articulated Trucks	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	-
Buses	0	7	0	0	0	7	-	0	0	0	0	0	0	-	0	0	0	0	0	0	-
% Buses	0%	2.4%	0%	0%	0%	2.3%	-	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	-
Bicycles on Road	0	2	0	0	0	2	-	0	0	0	0	0	0	-	0	0	0	0	0	0	-
% Bicycles on Road	0%	0.7%	0%	0%	0%	0.7%	-	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	-
Pedestrians	-	-	-	-	-	-	11	-	-	-	-	-	-	22	-	-	-	-	-	-	27
% Pedestrians	-	-	-	-	-	-	84.6%	-	-	-	-	-	-	91.7%	-	-	-	-	-	-	96.4%
Bicycles on Crosswalk	-	-	-	-	-	-	2	-	-	-	-	-	-	2	-	-	-	-	-	-	1
% Bicycles on Crosswalk	-	-	-	-	-	-	15.4%	-	-	-	-	-	-	8.3%	-	-	-	-	-	-	3.6%

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

Leg	Lafayette S	treet (Rou	ite 1A)					Washington	Street (F	Route	114)				
Direction	Northbound	1						Eastbound							
Time	R	BR	T	L	U	App	Ped*	R	T	BL	L	U	App	Ped*	Int
2025-03-27 7:30AI	M 7	1	79	107	0	194	0	73	1	0	0	0	74	0	339
7:45AI	M 3	1	65	88	0	157	3	87	0	0	0	0	87	0	320
8:00AI	И 12	0	75	82	0	169	2	98	5	0	0	0	103	0	351
8:15AI	И 13	0	85	78	0	176	1	63	9	0	0	0	72	0	340
Total	al 35	2	304	355	0	696	6	321	15	0	0	0	336	0	1350
% Approac	h 5.0%	0.3%	43.7%	51.0%	0%	-	-	95.5%	4.5%	0%	0%	0%	_	-	-
% Tota	al 2.6%	0.1%	22.5%	26.3%	0%	51.6%	-	23.8%	1.1%	0%	0%	0%	24.9%	-	-
PH	F 0.673	0.500	0.891	0.829	-	0.900	-	0.819	0.417	-	-	-	0.816	-	0.962
Motorcycle	es 0	0	0	0	0	0	-	0	0	0	0	0	0	-	0
% Motorcycle	es 0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	-	0%
Light	s 32	2	290	347	0	671	-	309	15	0	0	0	324	-	1294
% Light	s 91.4%	100%	95.4%	97.7%	0%	96.4%	-	96.3%	100%	0%	0%	0%	96.4%	-	95.9%
Single-Unit Truck	s 1	0	5	7	0	13	-	5	0	0	0	0	5	-	28
% Single-Unit Truck	s 2.9%	0%	1.6%	2.0%	0%	1.9%	-	1.6%	0%	0%	0%	0%	1.5%	-	2.1%
Articulated Truck	s 0	0	1	0	0	1	-	1	0	0	0	0	1	-	2
% Articulated Truck	s 0%	0%	0.3%	0%	0%	0.1%	-	0.3%	0%	0%	0%	0%	0.3%	-	0.1%
Buse	es 2	0	7	1	0	10	-	6	0	0	0	0	6	-	23
% Buse	s 5.7%	0%	2.3%	0.3%	0%	1.4%	-	1.9%	0%	0%	0%	0%	1.8%	-	1.7%
Bicycles on Roa	d 0	0	1	0	0	1	-	0	0	0	0	0	0	-	3
% Bicycles on Roa	d 0%	0%	0.3%	0%	0%	0.1%	-	0%	0%	0%	0%	0%	0%	-	0.2%
Pedestriar	ıs -	-	-	-	-	-	6	-	-	-	-	-	-	0	
% Pedestriar	s -	-	-	-	-	-	100%	-	-	-	-	-	-	-	-
Bicycles on Crosswal	k -	-	-	-	-	-	0	-	-	-	-	-	-	0	
% Bicycles on Crosswal	k -	-	-	-	-	-	0%	-	-	-	-	-	-	-	-

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

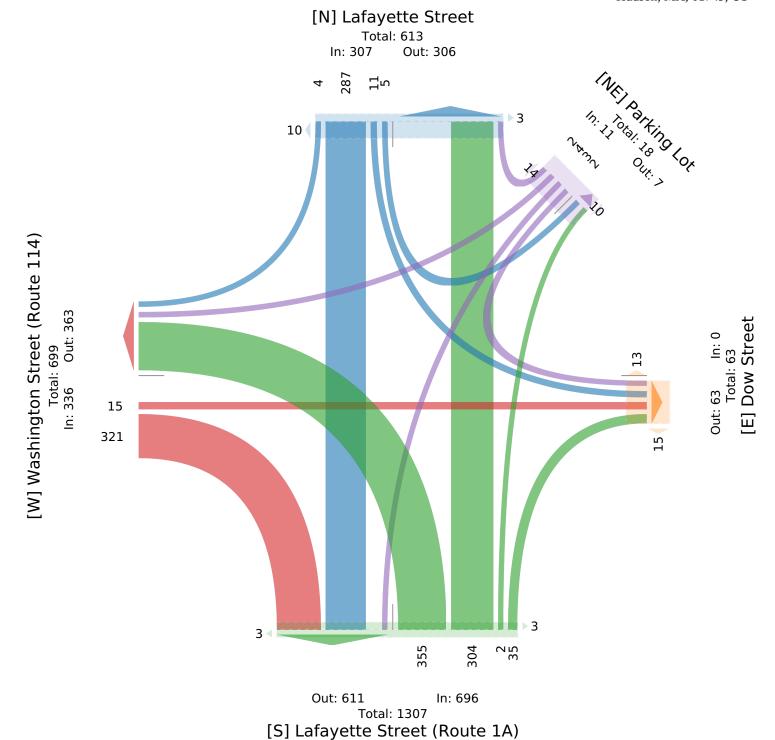
Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289



Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

Leg	Lafayett	e Street						Parking 1	Lot					Dow	Stree	et				
Direction	Southbo	und						Southwe	stbound					West	boun	ıd				
Time	R	T	L	HL	U	App	Ped*	HR	BR	BL	HL U	Арр Арр	Ped*	HR	R	T	L	U.	App	Ped*
2025-03-27 4:45PM	1	107	10	4	0	122	3	0	1	3	1 () 5	6	0	0	0	0	0	0	6
5:00PM	2	106	11	11	0	130	3	2	0	2	1 () 5	8	0	0	0	0	0	0	5
5:15PM	1	107	9	10	0	127	8	4	0	1	0 () 5	21	0	0	0	0	0	0	19
5:30PM	3	99	10	1	0	113	3	1	1	3	0 () 5	6	0	0	0	0	0	0	6
Total	7	419	40	26	0	492	17	7	2	9	2 (20	41	0	0	0	0	0	0	36
% Approach	1.4%	85.2%	8.1%	5.3%	0%	-	-	35.0%	10.0%	45.0%	10.0% 0%	, -	-	0%	0%	0%	0%	0%	-	-
% Total	0.5%	27.9%	2.7%	1.7%	0%	32.8%	-	0.5%	0.1%	0.6%	0.1% 0%	1.3%	-	0%	0%	0%	0%	0%	0%	-
PHF	0.500	0.977	0.909	0.591	-	0.950	-	0.438	0.500	0.750	0.500	1.000	-	-	-	-	-	-		-
Motorcycles	0	0	0	0	0	0	-	0	0	0	0 (0	-	0	0	0	0	0	0	-
% Motorcycles	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0% 0%	0%	-	0%	0%	0%	0%	0%	-	-
Lights	6	414	40	26	0	486	-	7	2	9	1 (19	-	0	0	0	0	0	0	-
% Lights	85.7%	98.8%	100%	100%	0%	98.8%	-	100%	100%	100%	50.0% 0%	95.0%	-	0%	0%	0%	0%	0%	-	-
Single-Unit Trucks	0	0	0	0	0	0	-	0	0	0	1 () 1	-	0	0	0	0	0	0	-
% Single-Unit Trucks	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	50.0% 0%	5.0%	-	0%	0%	0%	0%	0%	-	-
Articulated Trucks	0	0	0	0	0	0	-	0	0	0	0 (0	-	0	0	0	0	0	0	-
% Articulated Trucks	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0% 0%	0%	-	0%	0%	0%	0%	0%	-	-
Buses	0	4	0	0	0	4	-	0	0	0	0 (0	-	0	0	0	0	0	0	-
% Buses	0%	1.0%	0%	0%	0%	0.8%	-	0%	0%	0%	0% 0%	0%	-	0%	0%	0%	0%	0%	-	-
Bicycles on Road	1	1	0	0	0	2	-	0	0	0	0 (0	-	0	0	0	0	0	0	-
% Bicycles on Road	14.3%	0.2%	0%	0%	0%	0.4%	-	0%	0%	0%	0% 0%	0%	-	0%	0%	0%	0%	0%	-	-
Pedestrians	-	-	-	-	-	-	17	-	-	-			41	-	-	-	-	-	-	36
% Pedestrians	-	-	-	-	-	-	100%	-	-	-			100%	-	-	-	-	-	-	100%
Bicycles on Crosswalk	-	-	-	-	-	-	0	-	-	-		-	0	-	-	-	-	-	-	0
% Bicycles on Crosswalk	-	-	-	-	-	-	0%	-	-	-	-		0%	-	-	-	-	-	-	0%

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289

Leg	Lafayette S	Street (Rou	ite 1A)					Washingto	n Street (Route 11	4)				
Direction	Northboun	d						Eastbound							
Time	R	BR	T	L	U	App	Ped*	R	T	BL	L	U	Арр	Ped*	Int
2025-03-27 4:45PM	7	3	54	83	0	147	0	82	3	1	1	0	87	2	361
5:00PM	7	4	76	87	0	174	5	65	2	0	0	0	67	5	376
5:15PM	9	2	72	76	0	159	2	94	3	0	0	0	97	5	388
5:30PM	7	2	76	86	0	171	3	82	4	0	0	0	86	4	375
Total	30	11	278	332	0	651	10	323	12	1	1	0	337	16	1500
% Approach	4.6%	1.7%	42.7%	51.0%	0%	-	-	95.8%	3.6%	0.3%	0.3%	0%	_	-	-
% Total	2.0%	0.7%	18.5%	22.1%	0%	43.4%	-	21.5%	0.8%	0.1%	0.1%	0%	22.5%	-	-
PHF	0.833	0.688	0.914	0.954	-	0.935	-	0.854	0.750	0.250	0.250	-	0.863	-	0.964
Motorcycles	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	0%	-	0%
Lights	29	10	273	323	0	635	-	317	12	1	1	0	331	-	1471
% Lights	96.7%	90.9%	98.2%	97.3%	0%	97.5%	-	98.1%	100%	100%	100%	0%	98.2%	-	98.1%
Single-Unit Trucks	0	1	0	7	0	8	-	2	0	0	0	0	2	-	11
% Single-Unit Trucks	0%	9.1%	0%	2.1%	0%	1.2%	-	0.6%	0%	0%	0%	0%	0.6%	-	0.7%
Articulated Trucks	0	0	1	1	0	2	-	0	0	0	0	0	0	-	2
% Articulated Trucks	0%	0%	0.4%	0.3%	0%	0.3%	-	0%	0%	0%	0%	0%	0%	-	0.1%
Buses	1	0	4	1	0	6	-	2	0	0	0	0	2	-	12
% Buses	3.3%	0%	1.4%	0.3%	0%	0.9%	-	0.6%	0%	0%	0%	0%	0.6%	-	0.8%
Bicycles on Road	0	0	0	0	0	0	-	2	0	0	0	0	2	-	4
% Bicycles on Road	0%	0%	0%	0%	0%	0%	-	0.6%	0%	0%	0%	0%	0.6%	-	0.3%
Pedestrians	-	-	-	-	-	-	10	-	-	-	-	-	-	16	
% Pedestrians	-	-	-	-	-	-	100%	-	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	-	0	-	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	0%	-	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

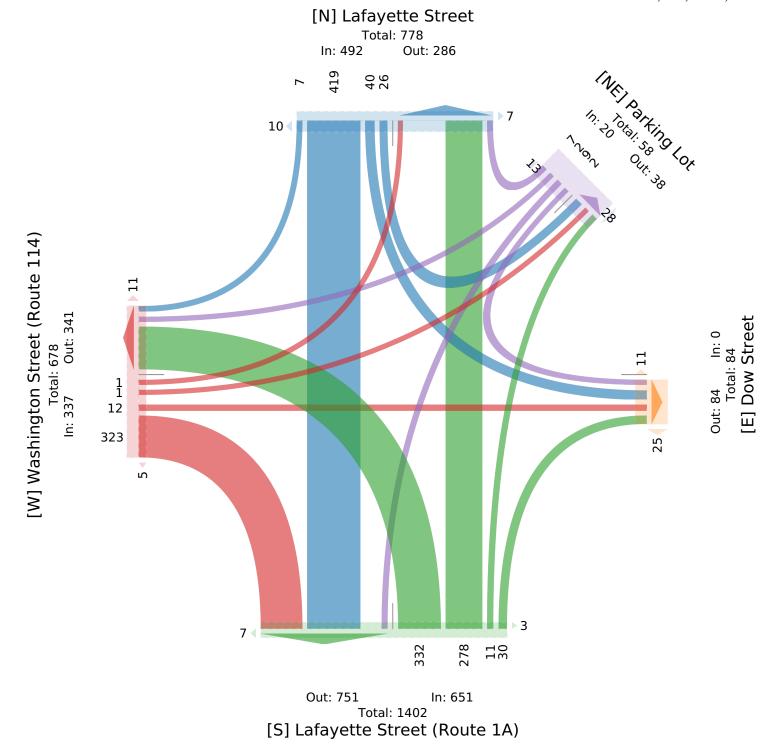
PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279740, Location: 42.516513, -70.89289



250511-12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267

T	T £	tto Ctuo	-+ (D	1 A	/1 1 4)		Dalman	Ctunnt					т "С"	tt C	tue et (De		. 1 A /11	4)	Daulaina	T			1/49,	
Leg Direction	South	ette Stre	et (Rot	ite 1A	/114)		Palmer Westbo						l	yette S hbound	treet (Ro	oute	2 1A/11	.4)	Parking Eastbou					
Time	R	T	L	U	App	Dod*	R	T	L	ΙT	App	Ped*	R	Т		U	App	Dod*			L U	Арр	Ped*	Int
2025-03-27 6:00AM	1	27	0	0	28	1	5	0	8	0	13	1	0	47		0	47	1			0 0		2	8
6:15AM	1	34	0	0	35	1	9	0	7	0	16	2	0	74		0	74	0	1		$\frac{0}{0}$ 0		4	12
6:30AM	0	76	0	0	76	0	11	0	19	0	30	4	-	112		0	113	0	0		$\frac{0}{0}$ 0		4	21
6:45AM	0	115	0	0	115	2	10	0	17	0	27	1	-	113		0	113	0	1		$\frac{0}{0}$ 0		3	25
Hourly Total	2	252	0	0	254	4	35	0	51		86	8		346		0	347	1	2		$\frac{0}{0}$		13	68
7:00AM	1	122	0	0	123	1	10	0	14	0	24	3	0	123		0	123	1	0		$\frac{0}{0}$ 0		3	27
7:15AM	0	132	0	0	132	2	20	0	8	0	28	0	<u> </u>	190		0	190	0	1		$\frac{0}{0}$ 0		3	35
7:30AM	0	142	0	0	142	0	24	0	17	0	41	3	-	177		0	177	0	0		1 0		5	36
7:45AM	1	147	0	0	148	0	21	0	24	0	45	7	0	147		0	148	0	3		0 0		7	34
Hourly Total	2	543	0	0	545	3		0		0	138	13	_	637		0	638	1	4		$\frac{0}{1}$ 0		18	132
8:00AM	1	165	0	0	166	1	21	0	23	0	44	5	0	148		0	148	0	0		0 0		2	35
8:15AM	1	139	0	1	141	5	20	0	29	0	49	4	<u> </u>	151		0	152	1	2		0 0		13	34
8:30AM	3	151	0	0	154	3	15	0	40	0	55	5	_	139		0	139	0	3		0 0		10	35
8:45AM	1	157	0	0	158	1	14	0	30	0	44	6	0	119		0	119	0	1		$\frac{0}{1}$ 0		3	32
Hourly Total	6	612	0	1	619	10	70	0	122	0	192	20	_	557		0	558	1	6		1 0		28	137
3:00PM	2	176	0	0	178	0	18	0	27	0	45	5	_	139		0	139	0	2		0 0		9	36
3:15PM	1	166	0	0	167	4	14	1	25	0	40	19	0	152		0	153	0	2		$\frac{0}{1}$ 0		15	36
3:30PM	2	154	1	0	157	6	19	0	36	0	55	11	0	160		0	161	0	0		1 0		16	37
3:45PM	1	167	0	0	168	2	27	0	44	0	71	7	0	145		0	145	0			1 0		13	38
Hourly Total	6	663	1	0	670	12	78	1	132	0	211	42	0	596		0	598	0	5		3 0		53	148
4:00PM	3	149	0	0	152	2	30	0	53	0	83	3	0	128		0	129	2	0		2 0		11	36
4:15PM	0	175	0	0	175	2	23	0	40	0	63	4	<u> </u>	170		0	170	2	0		$\frac{2}{1} = 0$		4	40
4:30PM	3	193	1	0	197	4	19	0	42	0	61	1	0	119		0	121	0	3		$\frac{1}{0}$		13	38
4:45PM	3	191	0	0	194	4	27	0	39	0	66	5	0	133		0	133	0	2		0 0		9	39
Hourly Total	9	708	1	0	718	12	99	0	174	0	273	13	_	550		0	553	4	5		3 0		37	155
5:00PM	2	170	0	0	172	2	19	0	39	0	58	5	0	160		0	160	0	4		$\frac{0}{0}$		5	39
5:15PM	1	192	0	0	193	3	20	0	29	0	49	8	-	138		0	140	1	5		0 0		15	38
5:30PM	2	178	0	0	180	2	18	0		0	49	5	_	153		0	153	1	2		0 0		6	38
5:45PM	3	186	0	0	189	3	22	1	23	0	46	12	0	119		0	119	0	2		2 0		16	35
Hourly Total	8	726	0	0	734	10	79	1	122	0	202	30	_	570		0	572	2	13		2 0		42	152
Ţ.																								
Total	33	3504	2	0%	3540	51	436	2	664 60.3% (1102	126	0	3256	10 0.3% 0%		3266	9	35 77.8% 0		0 0	45	191	795
% Approach	_	99.0%											-				1 10/					0.00/	_	
% Total	0.4%		0%		44.5%		5.5%	0%	8.3% (0.1% 09	% 4 .			0.4% 0			0.6%	-	
Motorcycles	0%	0.1%	0%	0%	0.1%		0.5%	0%	0.2% (0	0.3%		0 0%	0%	0% 0%		1 0%		0 0% 0		0 0 % 0%	0%	_	0.19
% Motorcycles	33	3368	2	1	3404		421	2	638		1061		0	3156			3166				0 0			767
Lights % Lights	_						96.6%						<u> </u>		100% 09				100% 0	_				96.59
Single-Unit Trucks	0	62	0	0	62		4	0	7	0	11		0 /8 .	49		0	49				0 0			12
% Single-Unit Trucks	0%	1.8%	0%	0%	1.8%		0.9%		1.1% (1.0%		_	1.5%	0% 0%				0% 0		6 0%			1.59
Articulated Trucks	0 /8	12	0 /8	0 / 0	12		0.576	0 / 0	0	0	0		0	9		0	9		0 / 0		0 0			2
% Articulated Trucks	0%	0.3%	0%	0%	0.3%		0%	0%	0% (0%		0%	0.3%	0% 0%				0% 0		6 0%			0.39
% Articulated Trucks Buses	0%	48	0%	0%	48		8	0%	18		26		0%	33	0% 0%		33		0% 0		0 0%			10
% Buses	0%		0%		1.4%		1.8%	0%	2.7% (-	1.0%	0% 0%				0% 0		6 0%			1.39
Bicycles on Road	0%	1.4%	0%	0%	1.476		1.0%	0%	0		2.470		0 %	1.0%	0% 0%		8		0% 0		$\frac{60\%}{0}$			1.57
% Bicycles on Road	0%		0%		0.3%		0.2%	0%			0.1%		-	0.2%	0% 0%				0% 0		6 0%			0.29
Pedestrians	0 /0	0.570	0 /0	-	-	51	0.2 /0	-	- 076 (J70 -	J.1 /0	125	0 /0	J.2 /0	-	- 1	U.4 /0	9		- -	~ U70 		189	0.27
% Pedestrians	-					100%	-			-	-	9.2%	-			-	- 1	.00%	-				99.0%	
/o Pedesuldils	_					100%	_											.00%	-				99.0%	-
Bicycles on Crosswalk	-	-	-	-	-			_		-	-	1	-		-		-					_		

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

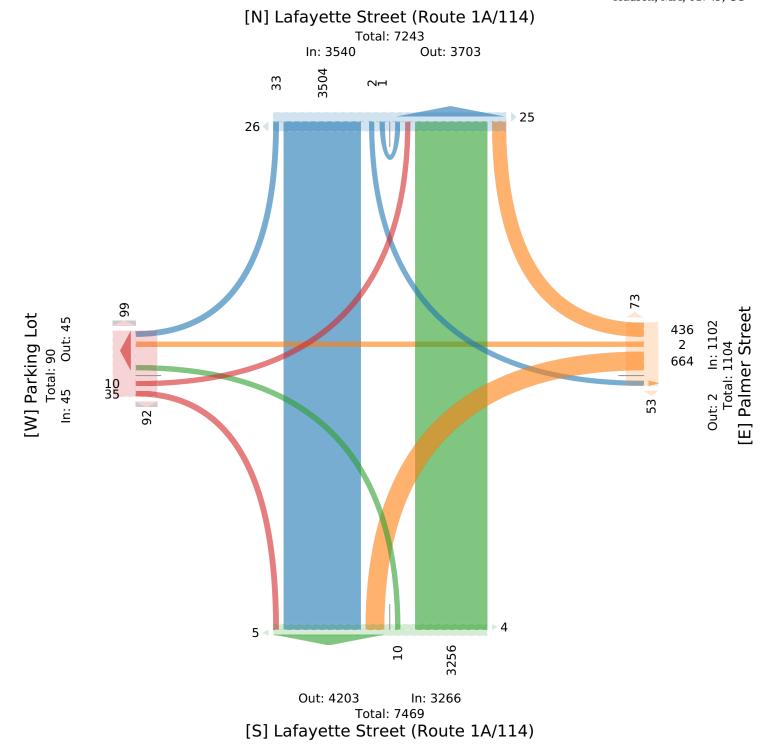
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267



250511- 12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267

Leg	Lafaye	tte Stre	eet (I	Rout	e 1A/1	14)	Palmer	Stre	et				Lafa	yette S	treet (R	out	e 1A/11	4)	Parking	Lot	:				
Direction	Southb	ound					Westbo	und					Nort	hbound	l				Eastbou	ınd					
Time	R	Т	L	U	App	Ped*	R	Т	L	U	App	Ped*	R	Т	L	U	App P	ed*	R	Т	L	U	Арр	Ped*	Int
2025-03-27 7:15AM	0	132	0	0	132	2	20	0	8	0	28	0	0	190	0	0	190	0	1	0	0	0	1	3	351
7:30AM	0	142	0	0	142	0	24	0	17	0	41	3	0	177	0	0	177	0	0	0	1	0	1	5	361
7:45AM	1	147	0	0	148	0	21	0	24	0	45	7	0	147	1	0	148	0	3	0	0	0	3	7	344
8:00AM	1	165	0	0	166	1	21	0	23	0	44	5	0	148	0	0	148	0	0	0	0	0	0	2	358
Total	2	586	0	0	588	3	86	0	72	0	158	15	0	662	1	0	663	0	4	0	1	0	5	17	1414
% Approach	0.3%	99.7%	0%	0%	-	-	54.4%	0%	45.6%	0%	-	-	0% 9	99.8%	0.2% 0)%	-	-	80.0%	0%	20.0% ()%	-	-	-
% Total	0.1%	41.4%	0%	0% 4	1.6%	-	6.1%	0%	5.1%	0%	11.2%	-	0% 4	46.8%	0.1% 0)% 4	6.9%	-	0.3%	0%	0.1% ()% (0.4%	-	-
PHF	0.500	0.889	-	-	0.886	-	0.896	-	0.750	-	0.878	-	-	0.870 (0.250	-	0.871	-	0.333	-	0.250	- 0).417	-	0.979
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0% 0)%	0%	-	0%	0%	0% ()%	0%	-	0%
Lights	2	555	0	0	557	-	84	0	67	0	151	-	0	636	1	0	637	-	4	0	1	0	5	-	1350
% Lights	100%	94.7%	0%	0% 9	4.7%	-	97.7%	0%	93.1%	0% :	95.6%	-	0% 9	96.1%	100% 0)% 9	6.1%	-	100%	0%	100% ()% 1	100%	-	95.5%
Single-Unit Trucks	0	16	0	0	16	-	1	0	1	0	2	-	0	15	0	0	15	-	0	0	0	0	0	-	33
% Single-Unit Trucks	0%	2.7%	0%	0%	2.7%	-	1.2%	0%	1.4%	0%	1.3%	-	0%	2.3%	0% 0)%	2.3%	-	0%	0%	0% ()%	0%	-	2.3%
Articulated Trucks	0	4	0	0	4	-	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	7
% Articulated Trucks	0%	0.7%	0%	0%	0.7%	-	0%	0%	0%	0%	0%	-	0%	0.5%	0% 0)%	0.5%	-	0%	0%	0% ()%	0%	-	0.5%
Buses	0	8	0	0	8	-	1	0	4	0	5	-	0	7	0	0	7	-	0	0	0	0	0	-	20
% Buses	0%	1.4%	0%	0%	1.4%	-	1.2%	0%	5.6%	0%	3.2%	-	0%	1.1%	0% 0)%	1.1%	-	0%	0%	0% ()%	0%	-	1.4%
Bicycles on Road	0	3	0	0	3	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	4
% Bicycles on Road	0%	0.5%	0%	0%	0.5%	-	0%	0%	0%	0%	0%	-	0%	0.2%	0% 0)%	0.2%	-	0%	0%	0% ()%	0%	-	0.3%
Pedestrians	-	-	-	-	-	3	-	-	-	-	-	15	_	-	-	-	-	0	-	-	-	-	-	17	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	_	-	-	-	-	-	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

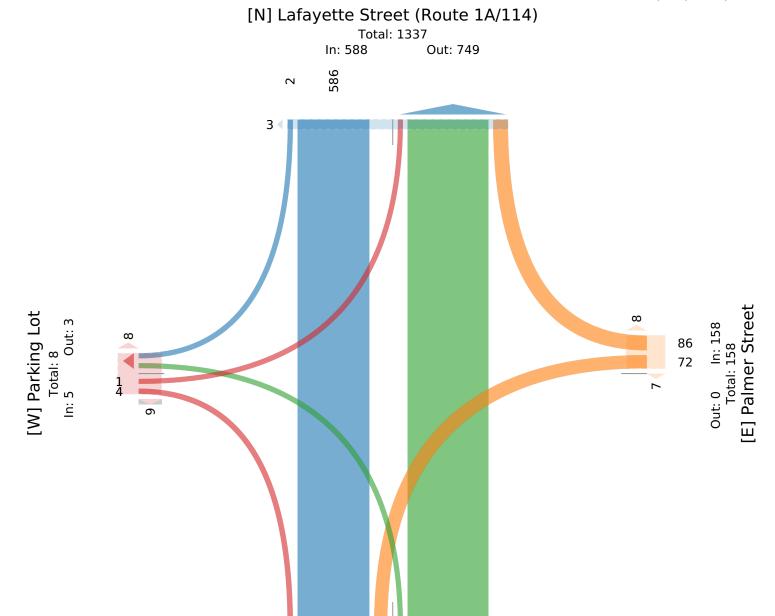
AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



Out: 662 In: 663
Total: 1325
[S] Lafayette Street (Route 1A/114)

662

250511- 12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267

Leg	Lafaye	ette Stre	et (Ro	ute 1	IA/114)		Palmer	Stre	eet				Lafa	ayette S	treet (F	lout	e 1A/1	14)	Parking	Lo	i				
Direction	South	oound					Westbo	ound	l				Nor	thbound	d				Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 4:15PM	0	175	0	0	175	2	23	0	40	0	63	4	0	170	0	0	170	2	0	0	1	0	1	4	409
4:30PM	3	193	1	0	197	4	19	0	42	0	61	1	0	119	2	0	121	0	3	0	0	0	3	13	382
4:45PM	3	191	0	0	194	4	27	0	39	0	66	5	0	133	0	0	133	0	2	0	0	0	2	9	395
5:00PM	2	170	0	0	172	2	19	0	39	0	58	5	0	160	0	0	160	0	4	0	0	0	4	5	394
Total	8	729	1	0	738	12	88	0	160	0	248	15	0	582	2	0	584	2	9	0	1	0	10	31	1580
% Approach	1.1%	98.8%	0.1%	0%	-	-	35.5%	0%	64.5%	0%	-	-	0%	99.7%	0.3% ()%	-	-	90.0%	0%	10.0% (0%	-		-
% Total	0.5%	46.1%	0.1%	0% 4	46.7%	-	5.6%	0%	10.1%	0%	15.7%	-	0%	36.8%	0.1% ()% 3	37.0%	-	0.6%	0%	0.1%	0% (0.6%	-	-
PHF	0.667	0.943	0.250	-	0.935	-	0.815	-	0.952	-	0.939	-	-	0.858	0.250	-	0.861	-	0.563	-	0.250	- 0).625	-	0.966
Motorcycles	0	0	0	0	0	-	0	0	1	0	1	-	0	0	0	0	0	-	0	0	0	0	0		1
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0.6%	0%	0.4%	-	0%	0%	0% 0)%	0%	-	0%	0%	0% (0%	0%		0.1%
Lights	8	713	1	0	722	-	85	0	153	0	238	-	0	569	2	0	571	-	9	0	1	0	10		1541
% Lights	100%	97.8%	100%	0% 9	97.8%	-	96.6%	0%	95.6%	0% 9	96.0%	-	0%	97.8%	100% ()% 9	97.8%	-	100%	0%	100% (0% 1	100%	-[97.5%
Single-Unit Trucks	0	4	0	0	4	-	1	0	2	0	3	-	0	4	0	0	4	-	0	0	0	0	0	-	11
% Single-Unit Trucks	0%	0.5%	0%	0%	0.5%	-	1.1%	0%	1.3%	0%	1.2%	-	0%	0.7%	0% 0)%	0.7%	-	0%	0%	0% (0%	0%		0.7%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	3
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0.5%	0% 0)%	0.5%	-	0%	0%	0% (0%	0%	-	0.2%
Buses	0	7	0	0	7	-	2	0	4	0	6	-	0	4	0	0	4	-	0	0	0	0	0	-	17
% Buses	0%	1.0%	0%	0%	0.9%	-	2.3%	0%	2.5%	0%	2.4%	-	0%	0.7%	0% 0)%	0.7%	-	0%	0%	0% (0%	0%	-	1.1%
Bicycles on Road	0	5	0	0	5	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	7
% Bicycles on Road	0%	0.7%	0%	0%	0.7%	-	0%	0%	0%	0%	0%	-	0%	0.3%	0% 0)%	0.3%	-	0%	0%	0% (0%	0%	-	0.4%
Pedestrians	-	-	-	-	-	12	-	-	-	-	-	15	-	-	-	-	-	2	-	-	-	-	-	31	
% Pedestrians	-	-	-	-	- 1	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 1	.00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511-12 Lafayette St @ Palmer St TMC - TMC

Thu Mar 27, 2025

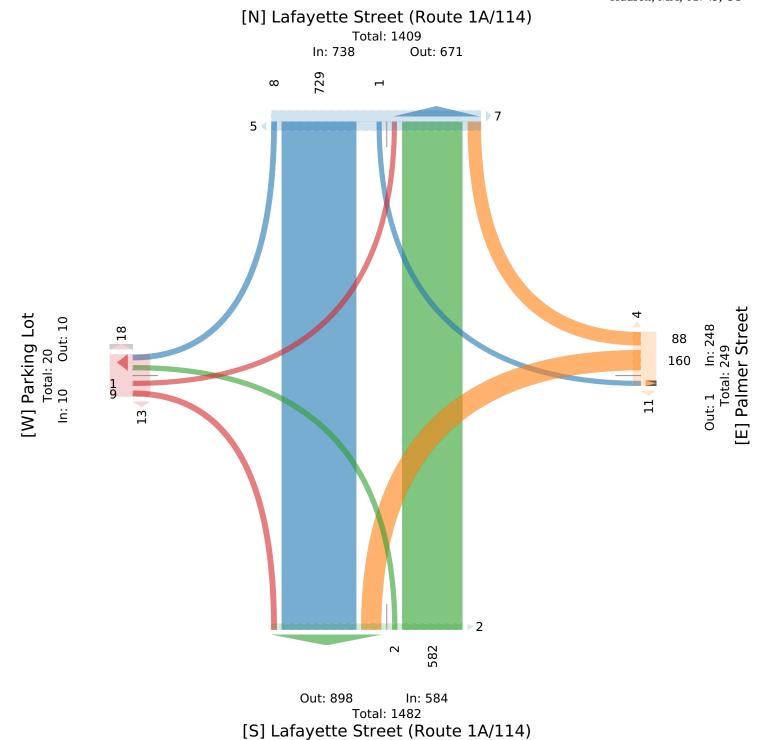
PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

 $All\ Classes\ (Motorcycles,\ Lights,\ Single-Unit\ Trucks,\ Articulated\ Trucks,\ Buses,\ Pedestrians,$

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279741, Location: 42.51547, -70.89267



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506

	1																				uason	1, 1	171, 01	, , ,	
Leg Direction	Lafayet Southb		et (Rout	te 1/	\/114)	- 1	Leavitt Westbo		et			- 1	Lafayet Northbo		et (Rou	te 1	A/114)		Fairfield Eastbou						
Time	R	Т	L	U	App Pe	d*	R	T	L	U	App	Ped*	R	Т	L	U	App F	ed*	R	Т	L	U	Арр	Ped*	Int
2025-03-27 6:00AM	0	34	0	0	34	0	0	0		0	0	0	8	46	0	0	54	0	0	0	0	0	0	1	88
6:15AM	0	38	4	0	42	0	0	0	0	0	0	2	14	81	0	0	95	0	0	1	0	0	1	3	138
6:30AM	0	89	10	0	99	0	0	0		0	0	6	27	108	0	0	135	1	0	1	0	0	1	2	235
6:45AM	0	125	14	0	139	0	0	0		0	0	9	27	111	0	0	138	1	1	3	0	0	4	1	281
Hourly Total	0	286	28	0	314	0	0	0		0	0	17	76	346	0	0	422	2	1	5	0	0	6	7	742
7:00AM	5	110	22	0	137	11	0	0	0	0	0	1	30	124	0	0	154	0	0	2	2	0	4	1	295
7:15AM	1	134	13	0	148	1	0	0		0	0	2	33	186	1	0	220	2	1	5	1	0	7	5	375
7:30AM	0	147	15	0	162	0	0	0		0	0	6	55	172	1	0	228	0		4	0	0	4	3	394
7:45AM	0	134	33	0	167	0	0	0		0	0	13	61	141	1	0	203	0	1	5	1	0	7	2	377
Hourly Total	6	525	83	0		12	0	0		0	0	22	179	623	3	0	805	2	2	16	4	0	22	11	1441
8:00AM	4	156	39	0	199	1	0	0		0	0	17	57	150	0	0	207	5	1	8	1	0	10	15	416
8:15AM	2	142	25	0	169	0	0	0		0	0	8	72	140	4	0	216	1	0	11	0	0	11	4	396
8:30AM	1	176	13	0	190	0	0	0		0	0	5	59	139	0	0	198	2	0	7	1	0	8	3	396
8:45AM	0	170	20	0	190	0	0	0		0	0	8	54	117	1	0	172	1	1	5	0	0	6	2	368
Hourly Total	7	644	97	0	748	1	0	0		0	0	38	242	546	5	0	793	9	2	31	2	0	35	24	1576
3:00PM	4	171	24	0	199	0	0	0		0	0	6	54	142	0	0	196	0	1	0	1	0	2	11	397
3:15PM	1	158	23	0	182	0	0	0		0	0	39	28	154	2	0	184	8	2	2	3	0	7	19	373
3:30PM	5	167	22	0	194	0	1	0		0	1	6	67	163	1	0	231	1	1	6	1	0	8	10	434
3:45PM	6	178	28	0	212	0	0	0		0	0	3	55	148	0	0	203	1	2	8	1	0	11	5	426
Hourly Total	16	674	97	0	787	0	1	0		0	1	54	204	607	3	0	814	10	6	16	6	0	28	45	1630
4:00PM	1	181	22	0	204	0	0	0		0	0	3	43	127	0	0	170	0	2	1	0	0	3	3	377
4:15PM	1	180	25	0	206	0	0	0		0	0	12	57	167	1	0	225	2	1	1	2	0	4	2	435
4:30PM	4	208	21	0	233	0	0	0		0	0	3	46	115	1	0	162	4	1	4	1	0	6	10	401
4:45PM	3	197	29	0	229	0	0	0		0	0	4	55	137	2	0	194	2	0	3	0	0	3	8	426
Hourly Total	9	766	97	0	872	0	0	0		0	0	22	201	546	4	0	751	8	4	9	3	0	16	23	1639
5:00PM	3	185	14	0	202	0	0	0		0	0	5	48	156	3	0	207	0	1	5	3	0	9	2	418
5:15PM	2	205	20	0	227	0	0	0		0	0	9	49	135	0	0	184	2	2	4	0	0	6	5	417
5:30PM	2	196	17	0	215	0	0	0		0	0	5	48	144	0	0	192	0	1	4	2	0	7	3	414
5:45PM	2	197	15	0	214	0	0	0		0	0	12	56	115	2	0	173	1	2	2	1	0		13	392
Hourly Total	9	783	66	0	858	0	0	0		0	0	31	201	550	5	0	756	3	6	15	6	0	27	23	1641
5						-																			
Total	47	3678	468	0	4193	13	1	0		0	1	184	1103	3218	20	0	4341	34	21	92	21	0	134	133	8669
% Approach	_		11.2%		-		100% 0				-	\rightarrow	25.4%				-	-	15.7% 6				4.50/	-	-
% Total	_	42.4%	5.4%			-	0% 0				0%	-	12.7%						0.2%	1.1%	0.2% (1.5%	-	- 11
Motorcycles	0	5	1	0	6	-	0	0		0	0	-	3	2	0	0	5	-	0	0		0	0	-	11
% Motorcycles	0%	0.1%			0.1%	-	0% 0				0%	-	0.3%	0.1%	0% (0.1%		0%	0%	0% (0%		0.1%
Lights		3537	452	0	4032	-	0	0		0	0	-	1071	3117	20	0	4208		21	90		0	132	-	8372
% Lights						-	0% 0				0%	-	97.1%								100% (96.6%
Single-Unit Trucks		63		0	68	-		0			0	-	9	51	0	0	60		0	0		0	0	-	128
% Single-Unit Trucks			0.9%			-	0% 0				0%	-	0.8%				1.4%	-	0%	0%	0% (0%	-	1.5%
Articulated Trucks	-	10		0	11	-		0			0	-	0	9	0		9	-	0	0	0		0	-	20
% Articulated Trucks	0%					-	0% 0				0%	-		0.3%			0.2%	-	0%	0%	0% (0%	-	0.2%
Buses	_	53	10		66	-		0			0	-	17	31	0		48	-	0	2	0		2	-	116
% Buses		1.4%	2.1%			-	0% 0				0%	-		1.0%			1.1%	-	_	2.2%	0% (1.5%	-	1.3%
Bicycles on Road	0	10	0		10	-		0			1	-	3	8	0	0	0.20/	-	0	0	0		0	-	22
% Bicycles on Road	0%	0.3%			0.2%	\rightarrow	100% 0					4.00	0.3%	0.2%			0.3%	-	0%	0%	0% (0%	-	0.3%
Pedestrians	-	-	-			13	-		-		-	182	-	-		-	-	34	-	-		-	-	130	
% Pedestrians	-	-		-	- 100	\rightarrow	-	-			- 98	3.9%	-	-		-	- 10		-	-		-		7.7%	
Bicycles on Crosswalk	_	-	-	-	-	0	-		-		-	2	-	-	-	-	-	0	-	-	-	-	-	3	
% Bicycles on Crosswalk	-	-	-	-	- (%	-	-	-	-	- 1	1.1%	-	-	-	-	-	0%	-	-	-	-	-	2.3%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

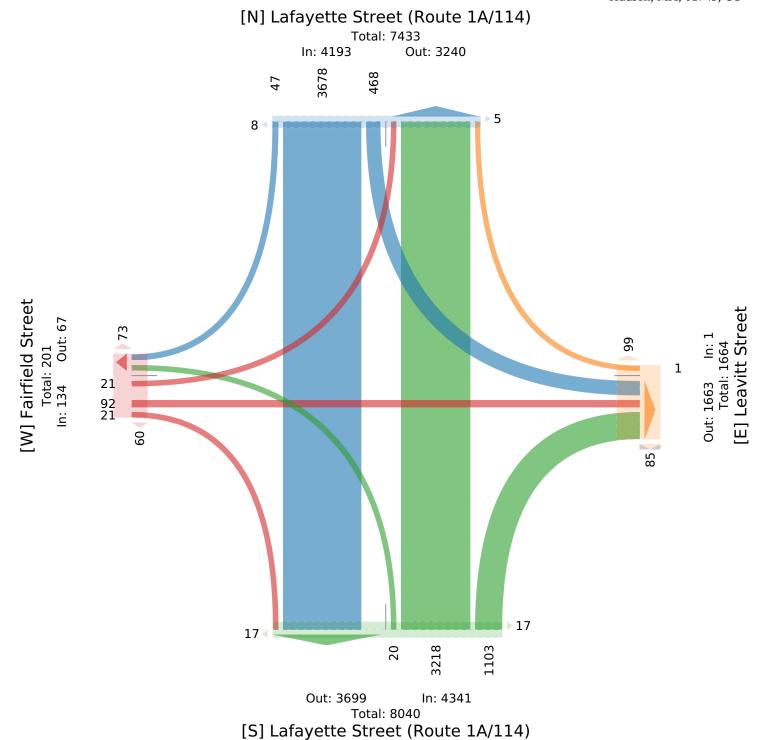
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506



Thu Mar 27, 2025

AM Peak (7:45 AM - 8:45 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506

Leg	Lafayet	te Stre	et (Rou	te 1/	1/114)		Lea	vitt	Street				Lafaye	te Stre	et (Rou	te 1.	A/114)		Fairfie	ld Stree	et				
Direction	Southbo	ound					Wes	stbo	und				Northb	ound					Eastbo	und					
Time	R	T	L	U	App	Ped*	R	T	L	U A	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:45AM	0	134	33	0	167	0	0	0	0	0	0	13	61	141	1	0	203	0	1	5	1	0	7	2	377
8:00AM	4	156	39	0	199	1	0	0	0	0	0	17	57	150	0	0	207	5	1	8	1	0	10	15	416
8:15AM	2	142	25	0	169	0	0	0	0	0	0	8	72	140	4	0	216	1	0	11	0	0	11	4	396
8:30AM	1	176	13	0	190	0	0	0	0	0	0	5	59	139	0	0	198	2	0	7	1	0	8	3	396
Total	7	608	110	0	725	1	0	0	0	0	0	43	249	570	5	0	824	8	2	31	3	0	36	24	1585
% Approach	1.0%	83.9%	15.2%	0%	-	-	0%	0%	0% 0	%	-	-	30.2%	69.2%	0.6% ()%	-	-	5.6%	86.1%	8.3%	0%	-	-	-
% Total	0.4%	38.4%	6.9%	0% 4	45.7%	-	0%	0%	0% 0	%	0%	-	15.7%	36.0%	0.3% ()% 5	52.0%	-	0.1%	2.0%	0.2%	0%	2.3%	-	-
PHF	0.438	0.861	0.705	-	0.913	-	-	-	-	-	-	-	0.865	0.950	0.313	-	0.954	-	0.500	0.705	0.750	- ().818	-	0.954
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% 0	%	-	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	6	577	106	0	689	-	0	0	0	0	0	-	243	554	5	0	802	-	2	31	3	0	36	-	1527
% Lights	85.7%	94.9%	96.4%	0% 9	95.0%	-	0%	0%	0% 0	%	-	-	97.6%	97.2%	100% ()% 9	97.3%	-	100%	100%	100%	0% 1	100%	-	96.3%
Single-Unit Trucks	0	17	1	0	18	-	0	0	0	0	0	-	1	9	0	0	10	-	0	0	0	0	0	-	28
% Single-Unit Trucks	0%	2.8%	0.9%	0%	2.5%	-	0%	0%	0% 0	%	-	-	0.4%	1.6%	0% ()%	1.2%	-	0%	0%	0%	0%	0%	-	1.8%
Articulated Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	3
% Articulated Trucks	0%	0.3%	0%	0%	0.3%	-	0%	0%	0% 0	%	-	-	0%	0.2%	0% ()%	0.1%	-	0%	0%	0%	0%	0%	-	0.2%
Buses	1	10	3	0	14	-	0	0	0	0	0	-	5	6	0	0	11	-	0	0	0	0	0	-	25
% Buses	14.3%	1.6%	2.7%	0%	1.9%	-	0%	0%	0% 0	%	-	-	2.0%	1.1%	0% ()%	1.3%	-	0%	0%	0%	0%	0%	-	1.6%
Bicycles on Road	0	2	0	0	2	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Bicycles on Road	0%	0.3%	0%	0%	0.3%	-	0%	0%	0% 0	%	-	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	41	-	-	-	-	-	8	-	-	-	-	-	24	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	- 9	95.3%	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	4.7%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

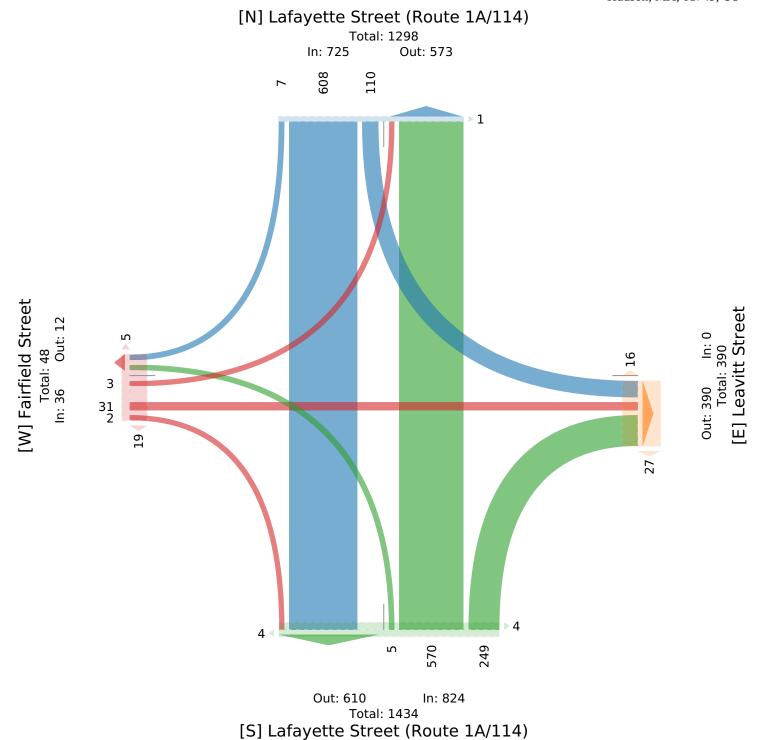
Thu Mar 27, 2025

AM Peak (7:45 AM - 8:45 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506



Thu Mar 27, 2025

PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506

Leg	Lafaye	ette Stre	eet (Rou	ıte 1	A/114)		Leav	/itt	Stre	et			Lafaye	tte Stre	et (Rou	te 1	A/114))	Fairfiel	d Stree	t			$\neg \neg$	
Direction	South	oound					Wes	tbo	und				Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App P	ed*	R	Т	L	U A	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 4:15PM	1	180	25	0	206	0	0	0	0	0	0	12	57	167	1	0	225	2	1	1	2	0	4	2	435
4:30PM	4	208	21	0	233	0	0	0	0	0	0	3	46	115	1	0	162	4	1	4	1	0	6	10	401
4:45PM	3	197	29	0	229	0	0	0	0	0	0	4	55	137	2	0	194	2	0	3	0	0	3	8	426
5:00PM	3	185	14	0	202	0	0	0	0	0	0	5	48	156	3	0	207	0	1	5	3	0	9	2	418
Total	11	770	89	0	870	0	0	0	0	0	0	24	206	575	7	0	788	8	3	13	6	0	22	22	1680
% Approach	1.3%	88.5%	10.2%	0%	-	-	0% ()%	0%	0%	-	-	26.1%	73.0%	0.9%	0%	-	-	13.6%	59.1%	27.3%	0%	-	-	-
% Total	0.7%	45.8%	5.3%	0%	51.8%	-	0% ()%	0%	0%	0%	-	12.3%	34.2%	0.4%	0% -	46.9%	-	0.2%	0.8%	0.4%	0%	1.3%	-	-
PHF	0.688	0.924	0.767	-	0.932	-	-	-	-	-	-	-	0.899	0.863	0.583	-	0.876	-	0.750	0.650	0.500	- (0.611	-	0.965
Motorcycles	0	1	0	0	1	-	0	0	0	0	0	-	2	0	0	0	2	-	0	0	0	0	0	-	3
% Motorcycles	0%	0.1%	0%	0%	0.1%	-	0% ()%	0%	0%	-	-	1.0%	0%	0%	0%	0.3%	-	0%	0%	0%	0%	0%		0.2%
Lights	11	748	88	0	847	-	0	0	0	0	0	-	200	561	7	0	768	-	3	13	6	0	22		1637
% Lights	100%	97.1%	98.9%	0%	97.4%	-	0% ()%	0%	0%	-	-	97.1%	97.6%	100%	0% 9	97.5%	-	100%	100%	100%	0% 1	100%	-	97.4%
Single-Unit Trucks	0	7	0	0	7	-	0	0	0	0	0	-	2	7	0	0	9	-	0	0	0	0	0	-	16
% Single-Unit Trucks	0%	0.9%	0%	0%	0.8%	-	0% ()%	0%	0%	-	-	1.0%	1.2%	0%	0%	1.1%	-	0%	0%	0%	0%	0%		1.0%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	1
% Articulated Trucks	0%	0%	0%	0%	0%	-	0% ()%	0%	0%	-	-	0%	0.2%	0%	0%	0.1%	-	0%	0%	0%	0%	0%	-	0.1%
Buses	0	9	1	0	10	-	0	0	0	0	0	-	1	4	0	0	5	-	0	0	0	0	0		15
% Buses	0%	1.2%	1.1%	0%	1.1%	-	0% ()%	0%	0%	-	-	0.5%	0.7%	0%	0%	0.6%	-	0%	0%	0%	0%	0%	-	0.9%
Bicycles on Road	0	5	0	0	5	-	0	0	0	0	0	-	1	2	0	0	3	-	0	0	0	0	0	-	8
% Bicycles on Road	0%	0.6%	0%	0%	0.6%	-	0% ()%	0%	0%	-	-	0.5%	0.3%	0%	0%	0.4%	-	0%	0%	0%	0%	0%	-	0.5%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	24	-	-	-	-	-	8	-	-	-	-	-	21	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 9	5.5%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	
% Bicycles on Crosswalk	-	-	-	-	-	-	-		-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	4.5%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

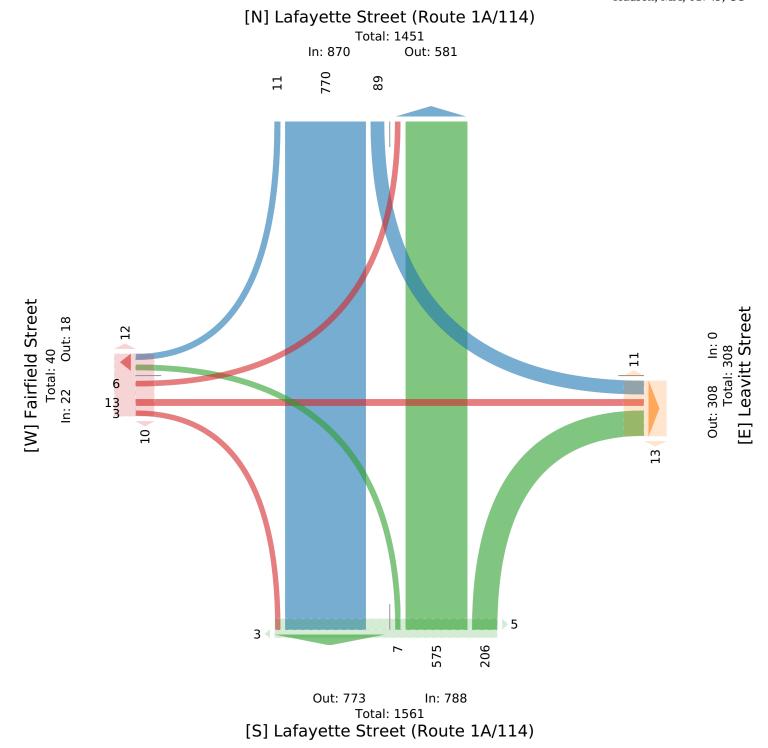
PM Peak (4:15 PM - 5:15 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279742, Location: 42.51453, -70.892506



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869

Provided by: Precision Data Industries, LLC (PDI)

157 Washington Street, 2, Hudson, MA, 01749, US

Leg Direction	Lafaye	tte Stree	et (Rout	e 1A/1	114)		Leach S Westboo					Lafaye Northb		et (Rout	e 17	A/114)		Holly Stre						
Time	R	Т	L	U	App P	ed*	R	Т	L U	J App	Ped*	R	Т	L	ΙI	App	Pod*		T	L	U	App	Ped*	Int
2025-03-27 6:00AM	0	31	0	0	31	2	3	0	2 (0	0	48		0	48	0	+	0		0	1	0	85
6:15AM	0	39	0	0	39	0	5	0		0 7	0	0	84		0	84	0		0		0	0	0	130
6:30AM	1	88	0	0	89	0	7	0		0 11	2	0	116		0	116	0		0		0	0	1	216
6:45AM	1	113	1	0	115	8	5	0	2 (2	1	126		0	127	1		0		0	3	0	252
Hourly Total	2	271	1	0	274	10	20	0	10 (4	1	374		0	375	1		0		0	4	1	683
7:00AM	0	101	2	0	103	6	5	0	1 (0	0	153		0	153	5		0		0	2	2	264
7:15AM	0	133	2	0	135	7	9	0	1 (4	1	184		0	188	6		0		0	2	3	335
7:30AM	2	136	4	0	142	2	7	0		0 9	2	2	205		0	207	2		0		0	3	0	361
7:45AM	2	121	4	0	127	3	6	0		0 7	4	4	187		0	191	2		0		0	2	2	327
Hourly Total	4	491	12	0	507	18	27	0		0 32	10	7	729		0	739	15		0		0	9	7	1287
8:00AM	0	134	1	0	135	4	3	0	2 (5	8	183		0	193	6		0		0	3	4	336
8:15AM	0	139	2	0	141	3	10	0	1 (7	4	151		0	157	7		1		0	5	1	314
8:30AM	3	166	4	1	174	0	6	0	2 (1	1	176		0	179	0		0		0	1	1	362
8:45AM	2	163	3	0	168	0	2	0		0 3	4	1	166		0	167	0		0		0	1	5	339
Hourly Total	5	602	10	1	618	7	21	0	6 (17	14	676		0	696	13		1		0	10	11	1351
3:00PM	3	142	6	0	151	3	6	0		0 7	0	6	194		0	200	13		0		0	2	9	360
3:15PM	5	136	5	0	146	10	5	0	1 (0	5	133		0	139	1		1		0	2	11	293
3:30PM	1	167	4	0	172	10	7	0		0 10	13	2	181		0	184	2		0		0	2	2	368
3:45PM	4	163	4	0	171	6	4	0	2 (5	6	166		0	173	0		0		0	2	7	352
Hourly Total	13	608	19	0	640	29	22	0	7 (18	19	674	3	_	696	4		1		0	8	29	1373
4:00PM	3	157	7	0	167	1	7	1	3 (4	4	149		0	155	1		0		0	3	23	336
4:15PM	7	152	7	0	166	2	8	0	1 (8	6	210		0	217	0		0		0	2	5	394
4:30PM	6	148	15	0	169	0	6	1	0 (4	5	145		0	152	0		0		0	2	3	330
4:45PM	5	159	20	0	184	2	4	0	1 (2	3	183		0	186	0		1		0	2	3	377
Hourly Total	21	616	49	0	686	5	25	2	5 (18	18	687		0	710	1	3	1		0	9	13	1437
5:00PM	4	173	49	0	181	3	10	0		0 12	7	3	194		0	199	1		0		0	2	4	394
5:15PM	2	176	14	0	192	2	6	0	0 (4	3	169		0	175	2		1		0	3	4	376
5:30PM	4	171	5	1	181	7	5	0	5 (6	3	170		0	173	6		1		0	3	9	367
5:45PM	4	188	8	0	200	4	5	0	4 (7	3	162		0	166	2		0		0	2	9	377
Hourly Total	14	708	31	1	754	16	26	0	11 (24	12	695		0	713	11		2		0	10	26	1514
Total	59		122	2	3479	85	141	2		0 187	91	71	3835		0	3929	45		5		0	50	87	7645
% Approach		94.7%	3.5%		-	-			23.5% 0%				97.6%			-		30.0% 10.				-		_
% Total		43.1%	1.6%		45.5%	-	1.8%	0%	0.6% 0%			_		0.3% 0						0.4% 0		0.7%		-
Motorcycles	0	6	0	0	6	-	0	0	0 (0	3		0	3		0	0		0	0		9
% Motorcycles		0.2%	0%		0.2%	-	0%	0%	0% 0%			0%	0.1%			0.1%		0%	0%	0% 0		0%		0.1%
Lights	56	3162	120	2	3340	-	139	2		0 185		68	3714	23	0	3805		12	5		0	44		7374
% Lights						-	98.6% 1		100% 0%			95.8%		100% 0						90.0% 0				96.5%
Single-Unit Trucks	1 70/	65	1.6%	0	2.0%	-	1.4%	0%		0 2		2.8%	59 1.5%	0% 0	0	61 1.6%		20.0%	0%		0	4 8.0%		135 1.8%
% Single-Unit Trucks				0%	2.0%	_			0% 0%											3.3% 0				
Articulated Trucks	0	8	0	0	8	-	0	00/	0 (000/	13		0	13		0	0	0 00/ 01		0		21
% Articulated Trucks	0%		0%		0.2%	-	0%	0%	0% 0%			0%	0.3%	0% 0		0.3%		0%	0%	0% 0		0%		0.3%
Buses 9/ Pages	2 40/	47	0	0	49	_	0	00/	0 (1 40/	38			39		0	0	2		2		90
% Buses	3.4%	1.4%	0%	0%	1.4%		0%	0%	0% 0%		-	1.4%	1.0%			1.0%		0%		6.7% 0	0			1.2%
Bicycles on Road			0			-		_					8		0				0			0		16
% Bicycles on Road	0%	0.2%	0%	υ%	0.2%	0.4	0%	0%	0% 0%		-	0%			70	0.2%	4 =		0%	0% 0		0%	-	0.2%
Pedestrians	-	-	-		- 00	84	-		-		90	-	-	-	-	-	45		-	-		- 07	85 7 70/	
% Pedestrians	-	-	-		- 98	_	-				98.9%	-	-		-	-	100%		-		-	- 97	7.7%	_
Bicycles on Crosswalk	-	-	-			1	-				1 10/	-	-		-	-	00/		-		-	-	2	
% Bicycles on Crosswalk	-	-	-	-	- 1	.2%	-	-	-		1.1%	-	-	-	-	-	0%	-	-	-	-	- 2	2.3%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

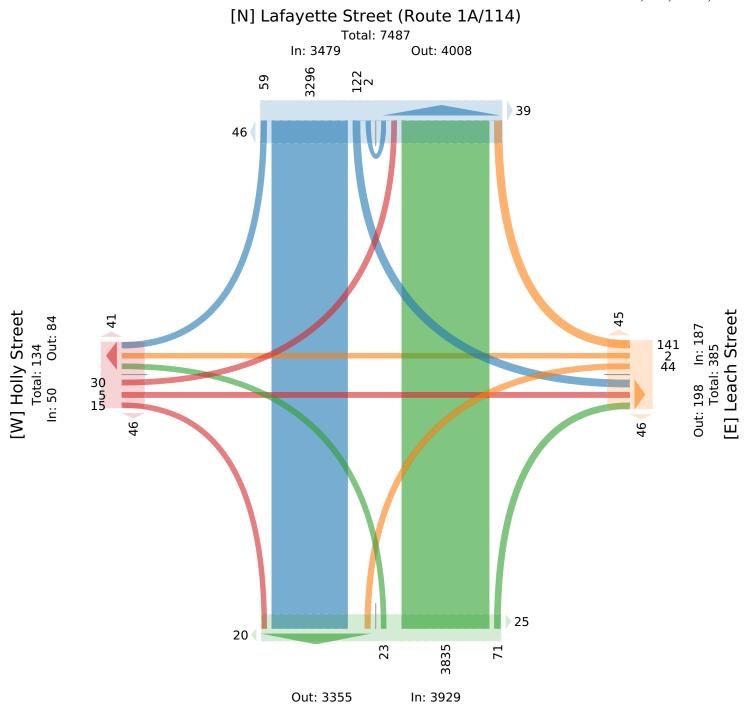
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



Total: 7284
[S] Lafayette Street (Route 1A/114)

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869

Leg	Lafaye	tte Stre	et (Ro	ute 1	1A/114	4)	Leach S	Stree	et				Lafaye	tte Stree	et (Rou	te 1	A/114))	Holly S	Stree	t				
Direction	Southb	ound	-				Westbo	und					Northb	ound					Eastbo	und					
Time	R	Т	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:15AM	0	133	2	0	135	7	9	0	1	0	10	4	1	184	3	0	188	6	2	0	0	0	2	3	335
7:30AM	2	136	4	0	142	2	7	0	2	0	9	2	2	205	0	0	207	2	0	0	3	0	3	0	361
7:45AM	2	121	4	0	127	3	6	0	1	0	7	4	4	187	0	0	191	2	1	0	1	0	2	2	327
8:00AM	0	134	1	0	135	4	3	0	2	0	5	5	8	183	2	0	193	6	1	0	2	0	3	4	336
Total	4	524	11	0	539	16	25	0	6	0	31	15	15	759	5	0	779	16	4	0	6	0	10	9	1359
% Approach	0.7%	97.2%	2.0%	0%	-	-	80.6%	0%	19.4% ()%	-	-	1.9%	97.4%	0.6% ()%	-	-	40.0%	0% (60.0% ()%	-	-	-
% Total	0.3%	38.6%	0.8%	0% 3	39.7%	-	1.8%	0%	0.4% ()%	2.3%	-	1.1%	55.8%	0.4% ()% 5	57.3%	-	0.3%	0%	0.4% ()%	0.7%	-	-
PHF	0.500	0.960	0.688	-	0.945	-	0.694	-	0.750	- (0.775	-	0.469	0.928	0.417	-	0.943	-	0.500	-	0.500	-	0.833	-	0.941
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0)%	0%	-	0%
Lights	4	491	11	0	506	-	25	0	6	0	31	-	13	730	5	0	748	-	3	0	5	0	8	-	1293
% Lights	100%	93.7%	100%	0% 9	93.9%	-	100%	0%	100% ()% :	100%	-	86.7%	96.2%	100% ()% 9	96.0%	-	75.0%	0% 8	83.3% ()% E	30.0%	-	95.1%
Single-Unit Trucks	0	19	0	0	19	-	0	0	0	0	0	-	1	16	0	0	17	-	1	0	0	0	1	-	37
% Single-Unit Trucks	0%	3.6%	0%	0%	3.5%	-	0%	0%	0% ()%	0%	-	6.7%	2.1%	0% ()%	2.2%	-	25.0%	0%	0% 0)% 1	10.0%	-	2.7%
Articulated Trucks	0	2	0	0	2	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	4
% Articulated Trucks	0%	0.4%	0%	0%	0.4%	-	0%	0%	0% ()%	0%	-	0%	0.3%	0% ()%	0.3%	-	0%	0%	0% 0)%	0%	-	0.3%
Buses	0	10	0	0	10	-	0	0	0	0	0	-	1	9	0	0	10	-	0	0	1	0	1	-	21
% Buses	0%	1.9%	0%	0%	1.9%	-	0%	0%	0% ()%	0%	-	6.7%	1.2%	0% ()%	1.3%	-	0%	0%	16.7% ()% 1	10.0%	-	1.5%
Bicycles on Road	0	2	0	0	2	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	4
% Bicycles on Road	0%	0.4%	0%	0%	0.4%	-	0%	0%	0% ()%	0%	-	0%	0.3%	0% ()%	0.3%	-	0%	0%	0% 0)%	0%	-	0.3%
Pedestrians	-	-	-	-	-	16	-	-	-	-	-	15	-	-	-	-	-	16	-	-	-	-	-	9	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 1	.00%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

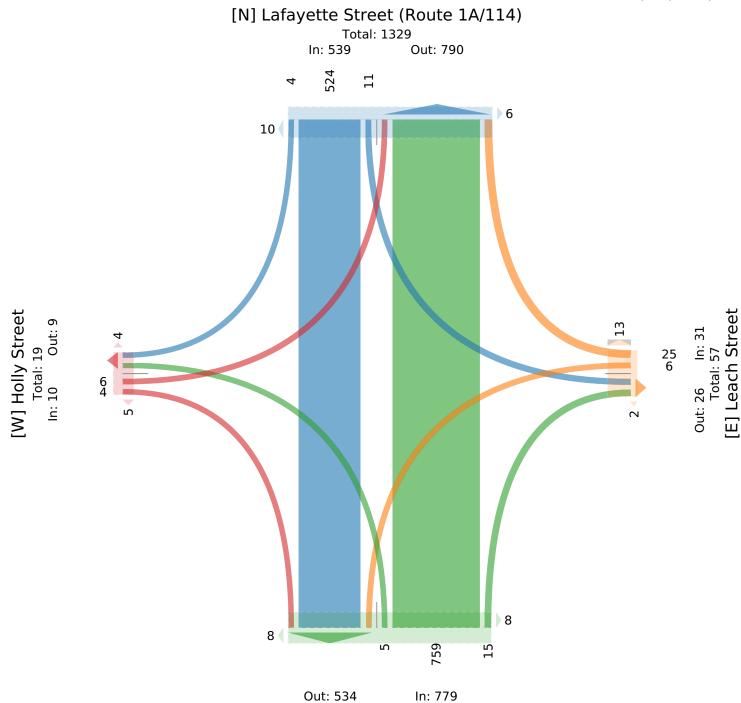
AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



Total: 1313 [S] Lafayette Street (Route 1A/114)

Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869

Leg	Lafayet	te Stre	et (Rou	ite 1A/	114)		Leach S	tree	et .				Lafay	ette Stre	et (Ro	ute 1	IA/114)	Holly S	treet					
Direction	Southb	ound					Westbo	und					North	oound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 4:45PM	5	159	20	0	184	2	4	0	1	0	5	2	3	183	0	0	186	0	1	1	0	0	2	3	377
5:00PM	4	173	4	0	181	3	10	0	2	0	12	7	3	194	2	0	199	1	0	0	2	0	2	4	394
5:15PM	2	176	14	0	192	2	6	0	0	0	6	4	3	169	3	0	175	2	1	1	1	0	3	4	376
5:30PM	4	171	5	1	181	7	5	0	5	0	10	6	3	170	0	0	173	6	1	1	1	0	3	9	367
Total	15	679	43	1	738	14	25	0	8	0	33	19	12	716	5	0	733	9	3	3	4	0	10	20	1514
% Approach	2.0%	92.0%	5.8%	0.1%	-	-	75.8% ()% :	24.2% ()%	-	-	1.6%	97.7%	0.7%	0%	-	-	30.0%	30.0% 4	40.0%	0%	-	-	-
% Total	1.0%	44.8%	2.8%	0.1%	48.7%	-	1.7% ()%	0.5% ()%	2.2%	-	0.8%	47.3%	0.3%	0% 4	48.4%	-	0.2%	0.2%	0.3%	0%	0.7%	-	-
PHF	0.750	0.960	0.538	0.250	0.957	-	0.625	-	0.400	- (0.688	-	1.000	0.930	0.417	-	0.928	-	0.750	0.750	0.500	-	0.833	-	0.967
Motorcycles	0	2	0	0	2	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	4
% Motorcycles	0%	0.3%	0%	0%	0.3%	-	0% 0)%	0% ()%	0%	-	0%	0.3%	0%	0%	0.3%	-	0%	0%	0%	0%	0%	-	0.3%
Lights	14	665	43	1	723	-	25	0	8	0	33	-	12	694	5	0	711	-	2	3	4	0	9	-	1476
% Lights	93.3%	97.9%	100%	100%	98.0%	-	100% ()%	100% ()% :	100%	-	100%	96.9%	100%	0% 9	97.0%	-	66.7%	100%	100%	0% 9	90.0%	-	97.5%
Single-Unit Trucks	1	4	0	0	5	-	0	0	0	0	0	-	0	9	0	0	9	-	1	0	0	0	1	-	15
% Single-Unit Trucks	6.7%	0.6%	0%	0%	0.7%	-	0% 0)%	0% ()%	0%	-	0%	1.3%	0%	0%	1.2%	-	33.3%	0%	0%	0% 1	10.0%	-	1.0%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	3	0	0	3	-	0	0	0	0	0	-	3
% Articulated Trucks	0%	0%	0%	0%	0%	-	0% 0)%	0% ()%	0%	-	0%	0.4%	0%	0%	0.4%	-	0%	0%	0%	0%	0%	-	0.2%
Buses	0	5	0	0	5	-	0	0	0	0	0	-	0	6	0	0	6	-	0	0	0	0	0	-	11
% Buses	0%	0.7%	0%	0%	0.7%	-	0% 0)%	0% ()%	0%	-	0%	0.8%	0%	0%	0.8%	-	0%	0%	0%	0%	0%	-	0.7%
Bicycles on Road	0	3	0	0	3	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	5
% Bicycles on Road	0%	0.4%	0%	0%	0.4%	-	0% 0)%	0% ()%	0%	-	0%	0.3%	0%	0%	0.3%	-	0%	0%	0%	0%	0%	-	0.3%
Pedestrians	-	-	-	-	-	14	-	-	-	-	-	18	-	-	-	-	-	9	-	-	-	-	-	20	
% Pedestrians	-	-	-	-	- :	100%	-	-	-	-	-	94.7%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	5.3%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

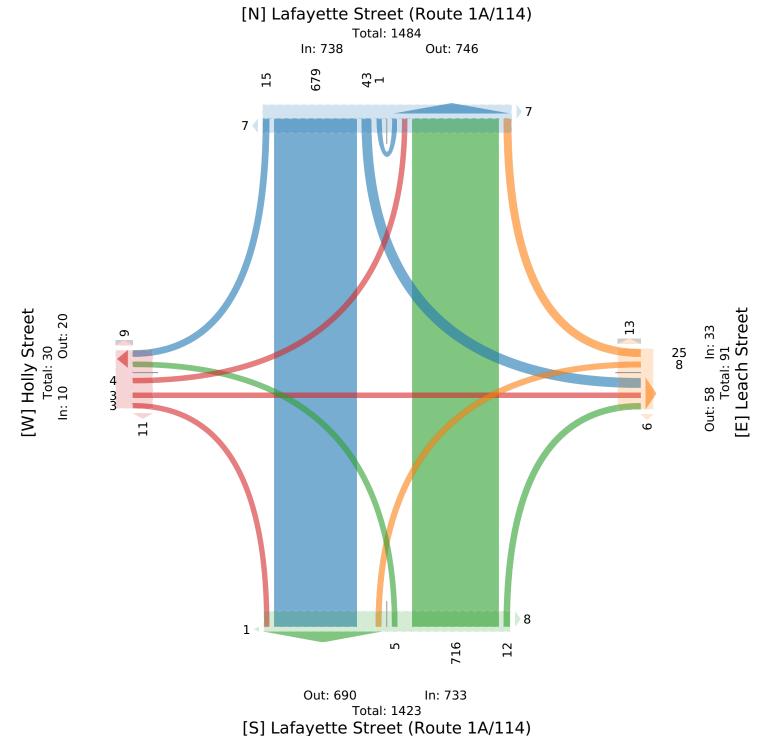
PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279744, Location: 42.511167, -70.891869



Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279747, Location: 42.508325, -70.89133

T																					luason	, 141	11 1, 01	., 10,	
Leg	1 -	tte Stre	et (Rou	ite 1	A/114))	Ocean A		2				1 -		et (Route	1A/	114)		Ocean A		!				
Direction	Southb						Westbo						Northb			_			Eastboui						
Time	R	Т		U		Ped*	R	T		U		Ped*	R	T	LU		App	Ped*	R	Т		U		Ped*	
2025-03-27 6:00AM	0	38	0	0	38	0	0	2	1	0	3	0	_	43		00	45	1	1	0	1	0	2	0	88
6:15AM	1	37	1		39	0	_	0	0	0	3	1	_	78	2		80	0	2	0	0	0	2	0	124
6:30AM	3	90	2		95	1	5	2	0	0	7	0		102	3 (106	1	0	2	4	0	6	0	214
6:45AM	5	111	0	0	116	0		0	0	0	3	0	_	109			115	2	3	1	4	0	8	1	242
Hourly Total	9	276	3	0	288	1	11	4	1	0	16	1	5	332	9 (346	4	6	3	9	0	18	1	668
7:00AM	1	101	1	0	103	2		2	2	0	7	1		160	1 (162	0	6	1	3	0	10	0	282
7:15AM	4	133	0	0	137	0		0	1	0	5	3	-	172	4 (179	1	8	0	3	0	11	3	332
7:30AM	5	143	0	0	148	0		2	0	0	9	1	_	184	5		193	0	7	0	6	0	13	1	363
7:45AM	3	116	1		120	0		0	0	0	4	1	_	187		0	190	4	5	3	3	0	11	5	325
Hourly Total	13	493	2		508	2	18	4	3	0	25	6		703	13		724	5	26	4	15	0	45	9	1302
8:00AM	3	122	1		126	0		3	3	0	9	7	_	182	1 (184	1	4	2	6	0	12	3	331
8:15AM	9	120	2	0	131	2	2	3	1	0	6	6	-	152	9 (163	3	5	3	4	0	12	4	312
8:30AM	6	153	4		163	1	3	1	2	0	6	2		161	4 (170	5	5	3	7	0	15	1	354
8:45AM	10	143	1	0	154	0		0	0	0	3	4		158	3 (163	3	4	0	4	0	8	9	328
Hourly Total	28	538	8	0	574	3		7	6	0	24	19	_	653	17		680	12	18	8	21	0	47	17	1325
3:00PM	1	135	5	0	141	0	4	0	0	0	4	3	-	204		0	209	0	4	0	6	0	10	9	364
3:15PM	4	143	2	0	149	0	_	1	1	0	7	1	-	145	2		150	0	3	1	1	0	5	3	311
3:30PM	1	145	8	0	154	0		2	2	0	8	4		169	8		185	0	3	1	2	0	6	4	353
3:45PM	5	157	3		165	1	5	1	4	0	10	3	_	162	1 (165	3	3	1	3	0	7	4	347
Hourly Total	11	580	18	0	609	1	18	4	7	0	29	11	_	680	15		709	3	13	3	12	0	28	20	1375
4:00PM	9	133	5	0	147	2	3	2	1	0	6	7		152	3 (158	11	5	0	6	0	11	6	322
4:15PM	12	130	2		144	4	2	2	0	0	4	15	_	196		0	209	7	5	2	2	0	9	11	366
4:30PM	4	109	7	0	120	1	2	1	1	0	4	4	_	147	3 (153	2	10	3	1	0	14	7	291
4:45PM	3	149	7		159	0		3	0	0	7	1		175	4 (_	180	3	9	1	3	0	13	1	359
Hourly Total	28	521	21	0	570	7	11	8	2	0	21	27	_	670		0	700	23	29	6	12	0	47	25	1338
5:00PM	10	148	2		160	4	4	0	0	0	4	5		181	5		188	2	5	7	5	0	17	4	369
5:15PM	10	146	8	0	164	1	2	0	1	0	3	6		164	3		169	5	5	4	4	0	13	5	349
5:30PM	6	152	4		162	1	2	2	0	0	4	6	_	172	4 (181	3	3	4	1	0	8	5	355
5:45PM	5	162	6	0	173	4	2	3	0	0	5	8	_	142	6		150	6	3	1	6	0	10	6	338
Hourly Total	31	608	20	0	659	10	10	5	1	0	16	25	11	659	18	0	688	16	16	16	16	0	48	20	1411
Total	120	3016	72	0	3208	24	79	32	20	0	131	89	60	3697	90	0 3	3847	63	108	40	85	0	233	92	7419
% Approach	3.7%	94.0%	2.2%	0%	-	-	60.3%	24.4%	15.3% ()%	-	-	1.6%	96.1%	2.3% 0%	6	-	-	46.4% 1	7.2%	36.5% 0	%	-	-	
% Total	1.6%	40.7%	1.0%	0% -	43.2%	-	1.1%	0.4%	0.3% ()%	1.8%	-	0.8%	49.8%	1.2% 0%	6 51	.9%	-	1.5%	0.5%	1.1% 0	%	3.1%	-	
Motorcycles	1	6	0	0	7	-	0	0	0	0	0	-	0	2	0	0	2	-	1	2	0	0	3	-	12
% Motorcycles	0.8%	0.2%	0%	0%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0.1%	0% 0%	6 0).1%	-	0.9%	5.0%	0% 0	%	1.3%	-	0.2%
Lights	118	2884	72	0	3074	-	79	30	20	0	129	-	58				3714	-	104	37	83	0	224	-	7141
% Lights	98.3%	95.6%				-			100% (-	96.7%		90.0% 0%			-	96.3% 9					-	96.3%
Single-Unit Trucks	1	67	0	0	68	-	0	0	0	0	0	-	1	63	3		67	-	2	0	2	0	4	-	139
% Single-Unit Trucks	0.8%				2.1%	-	0%	0%	0% (_	0%	-	1.7%	1.7%	3.3% 0%			-	1.9%	0%	2.4% 0	_		-	1.9%
Articulated Trucks	0	11		0	11	-	0	0		0	0	-	0	10	2		12	-	0	0	0		0	-	23
% Articulated Trucks		0.4%			0.3%	-	0%	0%	0% (0%	-	_					-	0%	0%	0% 0	_	0%	-	0.3%
Buses	0	44	0		44	-	0	2	0	0	2	-	0	39	4 (43	-	1	1		0	2	-	91
% Buses	0%				1.4%	-	0%	6.3%			1.5%	-	_		4.4% 0%			-		2.5%			0.9%	-	1.2%
Bicycles on Road	0	4		0	4	-	0	0		0	0	-	1	8	0		9	-	0	0	0		0	-	13
% Bicycles on Road	0%	0.1%	0%	0%	0.1%	-	0%	0%	0% (0%		_	0.2%	0% 0%	6 0).2%	-	0%	0%	0% 0		0%	-	0.2%
Pedestrians	-	-	-	-	-	24	-	-	-	-	-		_	-	-	-	-	63	-	-	-	-	-	91	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%		-	-	-	- :	100%	-	-	-	-	- 9	8.9%	
Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0		-	-	-	-	0	-	-	-	-	-	1	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	1.1%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

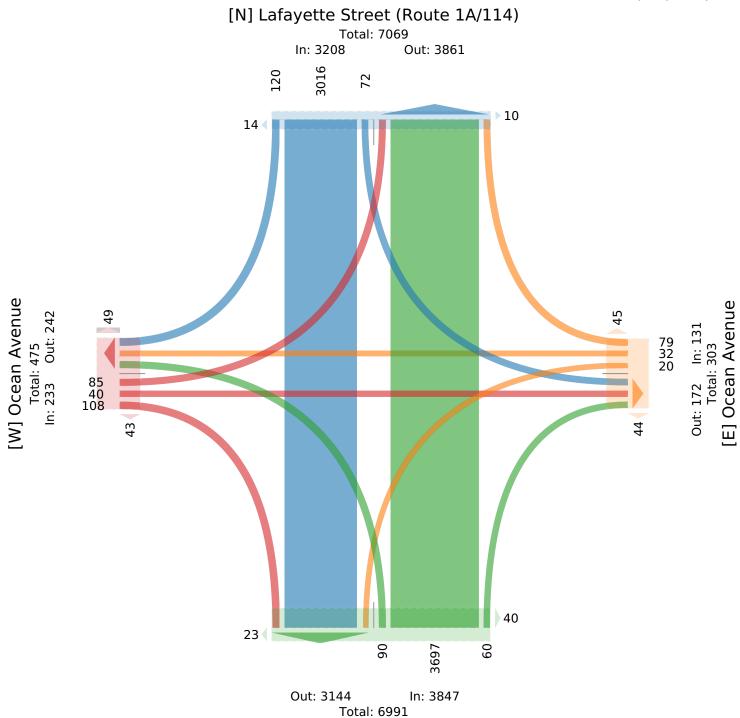
Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279747, Location: 42.508325, -70.89133

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



[S] Lafayette Street (Route 1A/114)

Thu Mar 27, 2025

AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279747, Location: 42.508325, -70.89133

Leg	Lafaye	tte Str	eet (Ro	ute 1	A/114)	Ocean .	Avenue					Lafaye	tte Stree	et (Route	1A	/114)		Ocean A	Avenue	!				
Direction	Southb	ound					Westbo	und					Northb	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:15AM	4	133	0	0	137	0	4	0	1	0	5	3	3	172	4	0	179	1	8	0	3	0	11	3	332
7:30AM	5	143	0	0	148	0	7	2	0	0	9	1	4	184	5	0	193	0	7	0	6	0	13	1	363
7:45AM	3	116	1	0	120	0	4	0	0	0	4	1	0	187	3	0	190	4	5	3	3	0	11	5	325
8:00AM	3	122	1	0	126	0	3	3	3	0	9	7	1	182	1	0	184	1	4	2	6	0	12	3	331
Total	15	514	2	0	531	0	18	5	4	0	27	12	8	725	13	0	746	6	24	5	18	0	47	12	1351
% Approach	2.8% 9	96.8%	0.4%	0%	-	-	66.7%	18.5%	14.8% ()%	-	-	1.1%	97.2%	1.7% 0)%	-	-	51.1%	10.6%	38.3%	0%	-	-	-
% Total	1.1%	38.0%	0.1%	0% 3	39.3%	-	1.3%	0.4%	0.3% ()%	2.0%	-	0.6%	53.7%	1.0% 0)% 5	5.2%	-	1.8%	0.4%	1.3%	0%	3.5%	-	-
PHF	0.750	0.897	0.500	-	0.895	-	0.643	0.417	0.333	- (0.750	-	0.500	0.967	0.650	-	0.969	-	0.750	0.417	0.750	-	0.904	-	0.931
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0)%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	15	480	2	0	497	-	18	5	4	0	27	-	7	690	11	0	708	-	22	5	17	0	44	-	1276
% Lights	100% 9	93.4%	100%	0% 9	93.6%	-	100%	100%	100% ()% :	100%	-	87.5%	95.2%	84.6% 0	% S	4.9%	-	91.7%	100%	94.4%	0% 9	93.6%	-	94.4%
Single-Unit Trucks	0	19	0	0	19	-	0	0	0	0	0	-	1	24	1	0	26	-	2	0	1	0	3	-	48
% Single-Unit Trucks	0%	3.7%	0%	0%	3.6%	-	0%	0%	0% ()%	0%	-	12.5%	3.3%	7.7% 0)%	3.5%	-	8.3%	0%	5.6%	0%	6.4%	-	3.6%
Articulated Trucks	0	4	0	0	4	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	4
% Articulated Trucks	0%	0.8%	0%	0%	0.8%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0)%	0%	-	0%	0%	0%	0%	0%	-	0.3%
Buses	0	10	0	0	10	-	0	0	0	0	0	-	0	9	1	0	10	-	0	0	0	0	0	-	20
% Buses	0%	1.9%	0%	0%	1.9%	-	0%	0%	0% ()%	0%	-	0%	1.2%	7.7% 0)%	1.3%	-	0%	0%	0%	0%	0%	-	1.5%
Bicycles on Road	0	1	0	0	1	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	3
% Bicycles on Road	0%	0.2%	0%	0%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0.3%	0% 0)%	0.3%	-	0%	0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	12	-	-	-	-	-	6	-	-	-	-	-	12	
% Pedestrians	-	-		-	-	-	-	-	_	-	- 1	100%	-	-	_	-	-	100%		_	-	-	- :	100%	
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

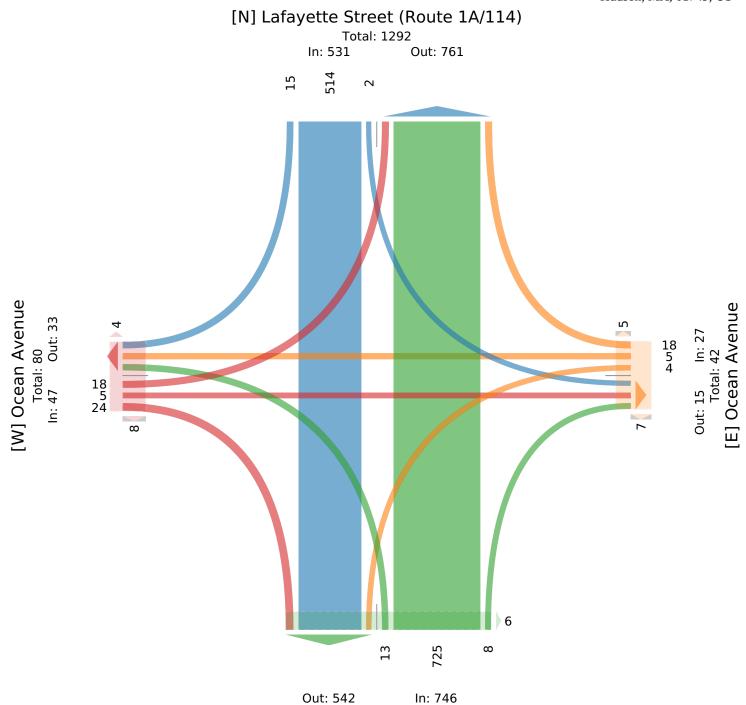
AM Peak (7:15 AM - 8:15 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279747, Location: 42.508325, -70.89133

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



Total: 1288 [S] Lafayette Street (Route 1A/114)

Thu Mar 27, 2025

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

Provided by: Precision Data Industries, LLC (PDI)

All Movements

ID: 1279747, Location: 42.508325, -70.89133

157 Washington Street, 2, Hudson, MA, 01749, US

Leg	Lafaye	tte Stre	et (Roı	ite 1	A/114)		Ocean .		e				1 ,		et (Rou	te 1.	A/114)		Ocean A		!				
Direction	Southb	ound					Westbo	ound					Northl	ound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 4:45PM	3	149	7	0	159	0	4	3	0	0	7	1	1	175	4	0	180	3	9	1	3	0	13	1	359
5:00PM	10	148	2	0	160	4	4	0	0	0	4	5	2	181	5	0	188	2	5	7	5	0	17	4	369
5:15PM	10	146	8	0	164	1	2	0	1	0	3	6	2	164	3	0	169	5	5	4	4	0	13	5	349
5:30PM	6	152	4	0	162	1	2	2	0	0	4	6	5	172	4	0	181	3	3	4	1	0	8	5	355
Total	29	595	21	0	645	6	12	5	1	0	18	18	10	692	16	0	718	13	22	16	13	0	51	15	1432
% Approach	4.5%	92.2%	3.3%	0%	-	-	66.7%	27.8%	5.6%	0%	-	-	1.4%	96.4%	2.2% ()%	-	-	43.1%	31.4%	25.5%	0%	-	-	-
% Total	2.0%	41.6%	1.5%	0%	45.0%	-	0.8%	0.3%	0.1%	0%	1.3%	-	0.7%	48.3%	1.1% ()% :	50.1%	-	1.5%	1.1%	0.9%	0%	3.6%	-	-
PHF	0.725	0.977	0.656	-	0.982	-	0.750	0.417	0.250	-	0.643	-	0.500	0.964	0.800	-	0.962	-	0.611	0.571	0.650	- (0.750	-	0.976
Motorcycles	1	2	0	0	3	-	0	0	0	0	0	-	0	1	0	0	1	-	0	2	0	0	2	-	6
% Motorcycles	3.4%	0.3%	0%	0%	0.5%	-	0%	0%	0%	0%	0%	-	0%	0.1%	0% ()%	0.1%	-	0%	12.5%	0%	0%	3.9%	-	0.4%
Lights	28	582	21	0	631	-	12	4	1	0	17	-	10	671	15	0	696	-	22	14	13	0	49	-	1393
% Lights	96.6%	97.8%	100%	0% 9	97.8%	-	100%	80.0%	100%	0% 9	94.4%	-	100%	97.0%	93.8% ()% 9	96.9%	-	100%	87.5%	100%	0% 9	6.1%	-	97.3%
Single-Unit Trucks	0	5	0	0	5	-	0	0	0	0	0	-	0	9	0	0	9	-	0	0	0	0	0	-	14
% Single-Unit Trucks	0%	0.8%	0%	0%	0.8%	-	0%	0%	0%	0%	0%	-	0%	1.3%	0% ()%	1.3%	-	0%	0%	0%	0%	0%	-	1.0%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	3	1	0	4	-	0	0	0	0	0	-	4
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0.4%	6.3% ()%	0.6%	-	0%	0%	0%	0%	0%	-	0.3%
Buses	0	5	0	0	5	-	0	1	0	0	1	-	0	6	0	0	6	-	0	0	0	0	0	-	12
% Buses	0%	0.8%	0%	0%	0.8%	-	0%	20.0%	0%	0%	5.6%	-	0%	0.9%	0% ()%	0.8%	-	0%	0%	0%	0%	0%	-	0.8%
Bicycles on Road	0	1	0	0	1	-	0	0	0	0	0	-	0	2	0	0	2	-	0	0	0	0	0	-	3
% Bicycles on Road	0%	0.2%	0%	0%	0.2%	-	0%	0%	0%	0%	0%	-	0%	0.3%	0% ()%	0.3%	-	0%	0%	0%	0%	0%	-	0.2%
Pedestrians	-	-	-	-	-	6	-	-	-	-	-	18	-	-	-	-	-	13	-	-	-	-	-	15	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 3	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Mar 27, 2025

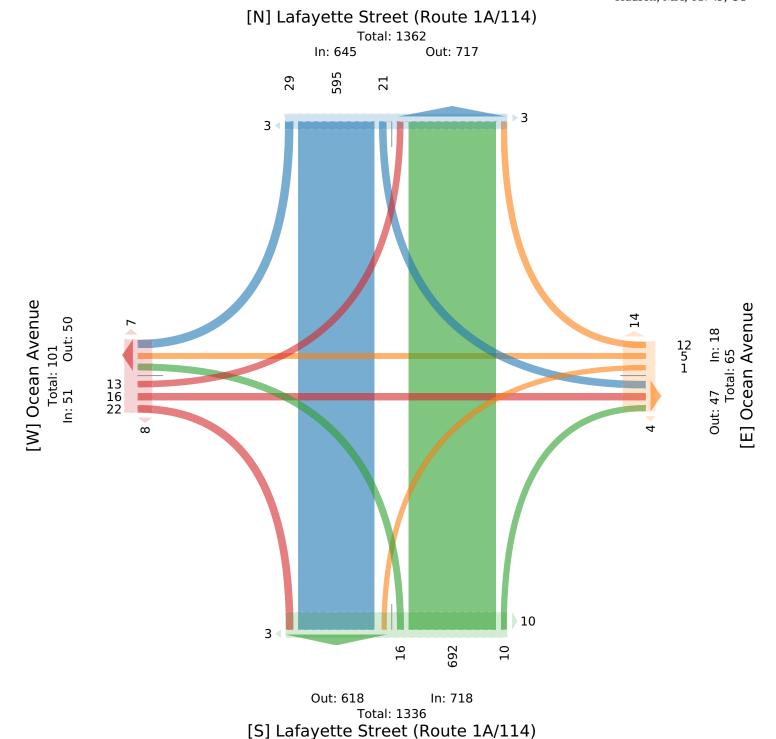
PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279747, Location: 42.508325, -70.89133



250511-16 Lafayette St @ West Ave TMC - TMC

Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279748, Location: 42.505204, -70.890772

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2,

Hudson, MA, 01749, US

Time	Leg	Lafaye	tte Stree	t (Rout	e 1A	/114)		West A	venue					Lafayet	tte Stree	et (Rout	e 11	4)		Loring A	Avenu	e (Rout	e 1A	r)	7 -13,	
2005-03-75 combon 9 22	Direction	Southb	ound					Westbo	und					Northb	ound					Eastbou	nd					
6.15AM B Z1	Time	R	T	L	U	App	Ped*	R	T	L U	U A	pp F	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
6-39AAN 38 54 0 0 52 1 2 6 2 0 10 2 3 92 15 0 110 3 6 5 12 0 2 3 0 2 2 2 6 4 0 10 2 3 9 2 15 0 110 3 6 5 12 0 2 3 0 2 2 2 6 4 0 10 1 1 1 1 1 1 1	2025-03-27 6:00AM	19	22	1	0	42	0		2	1			1	0	38	9	0		1	0	2		0		_	102
Hothy fortal 106 506 120 105 101 1	6:15AM	18	21	1	0	40	0		6		0 1	13			61	12	0	73				13	0	14	\rightarrow	140
Routy Total 106				0	0	92										15	0		3						_	235
7:90AM 24 106 0 130 0 3 4 5 0 122 0 0 131 20 0 135 20 159 2 11 2 24 0 37 3 3 3 3 3 3 3 3	6:45AM	31	72	2	0	105	0	2	2	2	0	6	0	1	94	23	0	118	1	17	0	22	0	39	0	268
7.755AM 38 110 0 0 148 0 4 7 8 0 159 0 0 151 27 0 178 1 9 2 29 0 40 3 34 37 34 37 34 37 34 37 34 37 34 37 34 37 34 35 32 34 34 37 34 34 34 34 34	Hourly Total	106	169	4	0	279	1	11	16			33	3	4	285	59	0	348	7	23	8	54	0	85	0	745
7-30.AM 34 127	7:00AM	24	106	0		130	0				0 1	12	0	0	131	28	0		2	11			0	37	1	338
Part	7:15AM	38		0	0	148	0	4	7	8			0	0		27	0		1		2		0		3	385
Hourly Tool 126 457 1 0 584 0 17 25 18 0 60 3 3 591 147 0 741 8 70 8 138 0 216 6 740 140	7:30AM	34	127	1	0	162			6	4	0 1	14			157	44	0	202		22					1	441
8.00AM 39 33 1 0 123 0 9 7 4 0 20 3 2 157 42 0 20 14 26 2 45 0 73 1 41 8.15AM 29 85 1 0 135 1 5 0 1 10 70 0 18 3 0 12 14 39 0 185 5 3 15 5 2 14 8.15AM 22 116 0 0 135 1 5 0 1 1 10 70 0 18 1 1 14 49 0 194 1 2 12 2 42 0 36 6 2 39 8.15AM 22 116 0 0 135 1 5 0 135 1 5 0 3 0 17 3 2 14 39 0 194 1 2 12 13 2 4 2 0 36 2 39 8.15AM 22 116 0 0 135 1 1 19 9 3 0 17 4 1 14 49 0 194 1 2 10 15 0 4 3 0 18 1 2 0 18 1 8.15AM 20 1 1 1 1 1 1 1 1 1	7:45AM	30	114	0	0	144	0		8	1 (0 1	15				48	0	202	2	28	3	45	0		1	437
815AM	Hourly Total	126	457	1	0		0	17		18	0 (60			591	147	0		8	70	8	138	0		6	1601
8.30AM	8:00AM	39	83	1	0		0				0 2	20	3		157	42	0	201				45	0		\rightarrow	417
845AM 22 116 0 0 138 0 4 9 4 0 17 4 1 14 49 0 194 1 38 4 39 0 81 3 44 18 18 18 18 18 18 18	8:15AM	29	85	1	0	115	0		10		0 1	18	0		144	39	0	185	5	31		49	0		6	403
Hourly Total 128	8:30AM	38	97	0	0	135	1	5	9	3	0 1	17	3	2	146	36	0	184	2	12	2	42	0	56	_	392
3:00PM 45 79 1 0 125 00 2 3 4 0 137 0 2 5 0 2 5 3 0 10 5 5 3 15 48 0 202 6 6 25 7 66 0 98 5 43 3:15PM 46 91 0 0 137 0 2 2 3 3 5 0 10 5 7 145 47 0 199 6 21 77 52 0 80 0 42 3:33PM 393 4 0 136 0 4 9 5 6 11 0 23 1 3 1 2 3 1	8:45AM	22	116	0	0	138	0	4	9	4	0 1	17	4	1	144	49	0	194	1	38	4	39	0	81	3	430
3:15PM 46 91 0 0 137 0 0 2 3 5 0 10 5 0 10 5 7 145 47 0 199 6 21 7 52 0 80 0 44 3 30 65 3 30 30 33 4 0 136 1 160 1 136 0 14 9 6 0 1 15 5 3 127 38 0 168 5 16 5 49 0 70 2 3 38 3 3 3 3 3 3 3 3 3 3 1 173 3 1 1 1 1 2 1 0 10 1 1 1 2 3 2 2 5 0 5 9 16 18 5 58 166 0 742 18 8 18 2 2 10 0 313 8 16 15 14 14 14 14 14 1 1 1 1 1 1 1 1 1 1 1	Hourly Total	128	381	2	0	511	1	19	35	18	0 7	72	10		591	166	0	764	12	107	13	175	0	295	12	1642
3:39PM 39 93 4 0 136 0 14 9 6 0 19 5 5 3 127 38 0 168 5 16 5 49 0 70 2 39 3:45PM 47 112 1 0 1 0 160 1 1 3 6 0 11 0 20 11 5 15 35 33 0 168 5 16 5 49 0 70 2 39 3:45PM 47 112 3 0 160 1588 1 1 1 23 25 0 59 1 1 5 18 588 1 1 1 1 9 1 2 1 0 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 2 3 2 1 1 1 1	3:00PM	45	79	1	0	125	0	2	5	3	0 1	10	5	3	151	48	0	202	6	25	7	66	0	98	5	435
345PM 47 112 1 0 160 1 1 3 6 6 1 1 0 20 14 1 1 0 20 14 1 1 0 20 14 1 1 0 20 20 14 1 1 0 20 20 14 1 1 0 20 20 14 1 1 0 20 20 14 1 1 0 20 20 20 16 1 0 1 0 20 20 14 1 1 0 20 20 20 16 1 0 1 0 20 20 20 16 1 0 1 0 20 20 20 20 20 20 20 20 20 20 20 20 2	3:15PM	46	91	0	0	137	0	2	3	5	0 1	10	5	7	145	47	0	199	6	21	7	52	0	80	0	426
Hourly Total 177 375 6 0 558 1 11 23 25 0 59 16 18 558 166 0 742 18 81 22 210 0 313 8 167 18 400PM 28 85 3 0 166 0 3 313 8 367 29 20 30 315 3 3 3 3 3 3 3 3 3	3:30PM	39	93	4	0	136	0	4	9	6	0 1	19	5	3	127	38	0	168	5	16	5	49	0	70	2	393
4-00PM 28	3:45PM	47	112	1	0	160	1	3	6	11	0 2	20	1	5	135	33	0	173	1	19	3	43	0	65	1	418
4:15PM 39 113 0 0 152 1 1 11 7 12 0 30 0 0 152 1 1 11 7 12 0 30 0 9 7 133 28 0 168 8 3 23 3 1 0 0 66 3 44 430 430 44 430 44 430 44 430 44 10 15 0 29 5 5 2 108 34 0 144 7 30 7 50 7 59 0 96 5 40 44 45PM 30 119 17 0 150 150 2 10 150 2 10 150 2 1 10 150 2 1 10 118 36 0 155 5 5 0 20 5 5 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Hourly Total	177	375	6	0	558	1	11	23	25	0 5	59	16	18	558	166	0	742	18	81	22	210	0	313	8	1672
4.30PM 4.43PM 4.30 101 2 0 136 3 4 0 1.0 2 0 136 3 4 0 10 9 14 0 33 7 1 11 118 36 0 145 7 10 15 0 14 10 10 10 10 10 10 10 10 10 10 10 10 10	4:00PM	28	85	3	0	116	0	3	13	9 (0 2	25	20	6	116	37	0	159	23	27	6	48	0	81	5	381
Hourly Total 130	4:15PM	39	113	0	0	152	1	11	7	12	0 3	30	9	7	133	28	0	168	8	32	3	51	0	86	3	436
Hourly Total 130 418 6 0 554 6 28 39 50 0 117 41 16 475 135 0 626 43 109 21 203 0 333 14 163 5:00PM 26 114 1 1 0 141 1 6 6 9 7 0 22 5 1 1 124 3 6 0 161 3 21 9 52 0 82 2 4 40 5:15PM 37 125 1 0 163 1 16 16 6 9 0 2 2 1 2 7 136 36 0 161 3 21 9 52 0 82 2 4 40 5:15PM 37 125 1 0 163 1 159 1 8 6 6 9 0 2 21 2 7 136 36 0 179 1 1 14 7 5 50 0 82 0 82 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4:30PM	33	101	2	0	136	3	4	10	15	0 2	29	5	2	108	34	0	144	7	30	7	59	0	96	5	405
5:00PM	4:45PM	30	119	1	0	150	2	10	9	14	0 3	33	7	1	118	36	0	155	5	20	5	45	0	70	1	408
5:15PM 37 125 1 0 163 1 6 6 6 9 0 21 2 7 136 36 0 179 1 14 7 55 0 76 2 43 5:30PM 52 104 3 0 159 1 8 7 7 7 0 22 4 4 3 123 43 0 169 3 13 8 51 0 72 0 42 5 5:45PM 51 97 4 0 152 4 2 7 5 0 144 5 2 7 5 0 144 5 2 9 7 30 0 129 4 18 3 52 0 73 0 3 0 36 14 16 6 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hourly Total	130	418	6	0	554	6	28	39	50	0 1	17	41	16	475	135	0	626	43	109	21	203	0	333	14	1630
530PM 52 104 3 0 159 1 4 8 7 7 0 12 4 8 7 0 150 1 4 8 7 7 0 12 4 8 3 123 43 0 169 3 13 8 51 0 72 0 42 54 54 55 54 55 6 14 5 2 97 3 0 12 9 4 18 3 52 0 73 0 36 14 16 16 16 16 16 16 16 16 16 16 16 16 16	5:00PM	26	114	1	0	141	1	6	9	7	0 2	22	5	1	124	36	0	161	3	21	9	52	0	82	2	406
5:45PM 51 97 4 0 152 4 2 7 5 0 14 5 2 2 97 30 0 129 4 18 3 52 0 73 0 36 4 16	5:15PM	37	125	1	0	163	1	6	6	9	0 2	21	2	7	136	36	0	179	1	14	7	55	0	76	2	439
Hourly Total 166 440 9 0 615 7 22 29 28 0 79 16 13 480 145 0 638 11 66 27 210 0 303 4 163	5:30PM	52	104	3	0	159	1	8	7	7	0 2	22	4	3	123	43	0	169	3	13	8	51	0	72	0	422
Mapproach Ray	5:45PM	51	97	4	0	152	4	2	7	5	0 1	14	5	2	97	30	0	129	4	18	3	52	0	73	0	368
% Approach 26.9% 72.2% 0.9% 0.% - - 25.7% 39.8% 34.5% 0.% - - 1.6% 77.2% 21.2% 0.% - <t< td=""><td>Hourly Total</td><td>166</td><td>440</td><td>9</td><td>0</td><td>615</td><td>7</td><td>22</td><td>29</td><td>28</td><td>0 7</td><td>79</td><td>16</td><td>13</td><td>480</td><td>145</td><td>0</td><td>638</td><td>11</td><td>66</td><td>27</td><td>210</td><td>0</td><td>303</td><td>4</td><td>1635</td></t<>	Hourly Total	166	440	9	0	615	7	22	29	28	0 7	79	16	13	480	145	0	638	11	66	27	210	0	303	4	1635
Motorcycles	Total	833	2240	28	0	3101	16	108	167	145	0 42	20	89	61	2980	818	0	3859	99	456	99	990	0	1545	44	8925
Motorcycles 2 2 0 0 4 - 0 0 0 0 0 0 0 0 0	% Approach	26.9%	72.2%	0.9% ()%	-	-	25.7%	39.8%	34.5% 0%	%	-	-	1.6%	77.2%	21.2% ()%	-	-	29.5%	6.4% (64.1% (0%	-	-	-
Motorcycles 0.2% 0.1% 0.8% 0.1% 0.1% 0.9% 0.1% 0.9% 0.9% 0.9% 0.9% 0.9% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.2% 0.1% 0.2%	% Total	9.3%	25.1%	0.3% ()% 3	4.7%	-	1.2%	1.9%	1.6% 0%	% 4.7	%	-	0.7%	33.4%	9.2% ()% 4	43.2%	-	5.1%	1.1%	11.1% (0% 1	7.3%	-	-
Lights 785 2157 27 0 2969 - 107 164 141 0 412 - 57 2901 803 0 3761 - 431 99 930 0 1460 - 860 **New Communication** **New Communicatio	Motorcycles	2	2	0	0	4	-	0	0	0	0	0	-	0	2	0	0	2	-	1	0	2	0	3	-	9
% Lights 94.2% 96.3% 96.4% 0% 95.7% - 991.% 98.2% 97.2% 0% 98.1% - 93.4% 97.3% 98.2% 0% 97.5% - 94.5% 10% 93.5% 0% 98.2% - 96.4% Single-Unit Trucks 17 50 1 0 68 - 0% 1.2% 1.4% 0% 1.5% 1.1 0 57 - 11 0 17 0 28 - 1.5% % Single-Unit Trucks 2.0% 2.2% 3.6% 0% 2.2% - 0% 1.2% 1.4% 0% 1.6% 1.5% 1.3% 0% 0 1.8% - 1.8% Articulated Trucks 0% 0.5% 0.0% 0.4% 0 0 0 0 0 0 0 0.4% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% Motorcycles	0.2%	0.1%	0% ()% (0.1%	-	0%	0%	0% 0%	% 0	%	-	0%	0.1%	0% ()%	0.1%	-	0.2%	0%	0.2% (0%	0.2%	-	0.1%
Single-Unit Trucks	Lights	785	2157	27	0	2969	-	107	164	141	0 4	12	-	57	2901	803	0	3761	-	431	99	930	0	1460	-	8602
% Single-Unit Trucks 2.0% 2.2% 3.6% 0% 2.2% - 0% 1.2% 1.4% 0% 1.0% - 1.6% 1.5% 1.3% 0% 1.5% - 2.4% 0% 1.7% 0% 1.8% - 1.8% Articulated Trucks 0 12 0 12 0	% Lights	94.2%	96.3%	96.4% ()% 9	5.7%	-	99.1% 9	98.2% !	97.2% 0%	% 98.1	%	-	93.4%	97.3%	98.2% ()% 9	97.5%	-	94.5% 1	00% 9	93.9% (0% 9	4.5%	-	96.4%
% Single-Unit Trucks 2.0% 2.2% 3.6% 0% 2.2% - 0% 1.2% 1.4% 0% 1.0% - 1.6% 1.5% 1.3% 0% 1.5% - 2.4% 0% 1.7% 0% 1.8% - 1.8% Articulated Trucks 0 12 0 12 0		_					-						-	1	45	11	0	57	-	11	0	17	0	28	-	157
Articulated Trucks 0 12 0 0 12 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_					-	_					-	1.6%					-						-	1.8%
% Articulated Trucks 0% 0.5% 0% 0.4% - 0% 0% 0% 0% 0% 0% 0% 0% 0.4% 0.2% 0.4% 0.4% 0.2% 0.4% 0.4% 0.2% 0.2% 0.4% 0.2% 0.2% 0.2% 0.2% </td <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>33</td>	-	-					-						-						-	_					-	33
Buses 28 14 0 0 42 - 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-						-						-						-	_					-	0.4%
% Buses 3.4% 0.6% 0% 0% 1.4% - 0% 0.6% 0% 0% 0% 0.6% 0% 0% 0% 0.6% 0.2% - 0% 0.5% 0.2% 0% 0% 0.4% - 2.0% 0% 0% 0.2% - 1.29 Bicycles on Road 0.1% 0.2% 0.0% 0% 0% 0.2% - 0.9% 0% 0.4% 0% 0.7% - 4.9% 0.2% 0.2% 0% 0% 0.2% 0.2% 0.0% 0% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% - 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%		_					_						-						-	_					-	103
Bicycles on Road 0.1 5 0 0 6 - 1 0.9% 0% 1.4% 0% 0.7% - 4.9% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2		_					_						-						-						-	1.2%
% Bicycles on Road 0.1% 0.2% 0.8% 0.2% 0.9% 0.9% 0.8 1.4% 0.7% - 4.9% 0.2% 0.8% 0.2% </td <td>-</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>21</td>	-	_					_						-						-						-	21
Pedestrians - - - 16 - <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>0.2%</td></t<>		-					-						-						-						-	0.2%
% Pedestrians - <	<u> </u>	-			-	_	16		_		-	_	89	_				_	99		_	_	-	_	44	
Bicycles on Crosswalk 0 0 0 0		-	-	-	_	_		-	_		-	- 10	_	-	-			- 1		_	-	_	_	- 1	_	-
	-	-	_			_			_				_	-						-	_				-	
% Bicvcles on Crosswalk 0% 0% 0% 0%	% Bicycles on Crosswalk	-				-	0%	-		_			0%	_	_			_	0%	_	_			_	0%	_

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 16 Lafayette St @ West Ave TMC - TMC

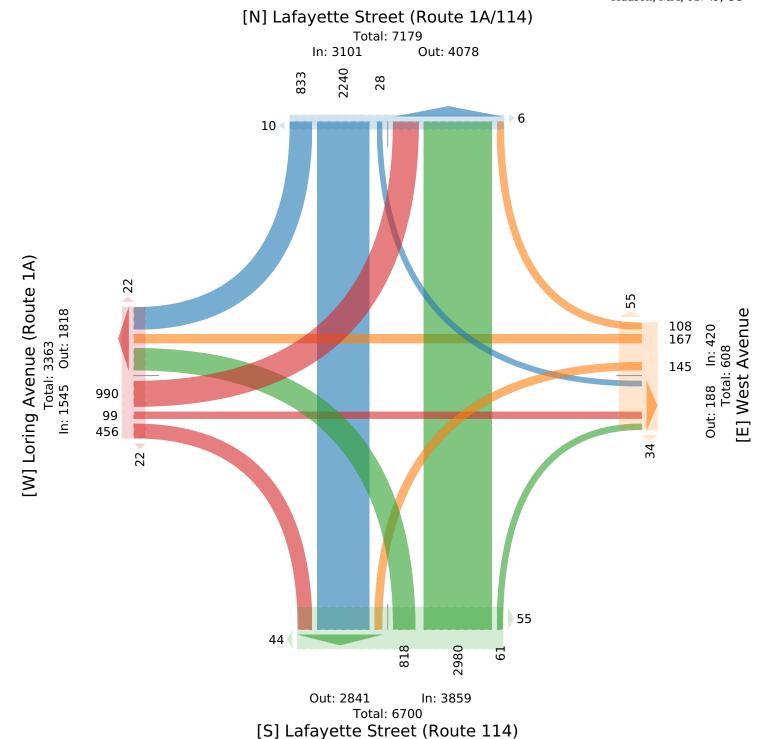
Thu Mar 27, 2025

Full Length (6 AM-9 AM, 3 PM-6 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279748, Location: 42.505204, -70.890772



250511- 16 Lafayette St @ West Ave TMC - TMC

Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

Provided by: Precision Data Industries, LLC (PDI)

157 Washington Street, 2, Hudson, MA, 01749, US

All Movements

ID: 1279748, Location: 42.505204, -70.890772

Leg	1 ,	tte Stree	et (Rou	ite 1 <i>P</i>	A/114)		West A						1 -	ette Stre	et (Rou	te 1	14)		Loring		e (Rou	te 1 <i>A</i>	A)		
Direction	Southb	ound					Westbo	ound					North	bound					Eastbou	und					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	Int
2025-03-27 7:30AM	34	127	1	0	162	0	4	6	4	0	14	0	1	157	44	0	202	3	22	1	40	0	63	1	441
7:45AM	30	114	0	0	144	0	6	8	1	0	15	3	2	152	48	0	202	2	28	3	45	0	76	1	437
8:00AM	39	83	1	0	123	0	9	7	4	0	20	3	2	157	42	0	201	4	26	2	45	0	73	1	417
8:15AM	29	85	1	0	115	0	1	10	7	0	18	0	2	144	39	0	185	5	31	5	49	0	85	6	403
Total	132	409	3	0	544	. 0	20	31	16	0	67	6	7	610	173	0	790	14	107	11	179	0	297	9	1698
% Approach	24.3%	75.2%	0.6%	0%	-	-	29.9%	46.3%	23.9% 0)%	-	-	0.9%	77.2%	21.9% ()%	-	-	36.0%	3.7%	60.3%	0%	-	-	-
% Total	7.8%	24.1%	0.2%	0% 3	32.0%	-	1.2%	1.8%	0.9% 0)%	3.9%	-	0.4%	35.9%	10.2% ()% 4	16.5%	-	6.3%	0.6%	10.5%	0% 1	17.5%	-	-
PHF	0.846	0.803	0.750	-	0.838	-	0.556	0.775	0.536	-	0.868	-	0.875	0.971	0.901	-	0.978	-	0.863	0.550	0.913	-	0.874	-	0.961
Motorcycles	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Motorcycles	0%	0%	0%	0%	0%	-	0%	0%	0% 0)%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0%
Lights	121	390	2	0	513	-	20	30	15	0	65	-	7	595	169	0	771	-	102	11	160	0	273	-	1622
% Lights	91.7%	95.4%	66.7%	0% 9	94.3%	-	100%	96.8%	93.8% 0	% 9	97.0%	-	100%	97.5%	97.7% ()% 9	97.6%	-	95.3%	100%	89.4%	0% 9	91.9%	-	95.5%
Single-Unit Trucks	3	14	1	0	18	-	0	1	0	0	1	-	0	10	2	0	12	-	1	0	7	0	8	-	39
% Single-Unit Trucks	2.3%	3.4%	33.3%	0%	3.3%	-	0%	3.2%	0% 0)%	1.5%	-	0%	1.6%	1.2% ()%	1.5%	-	0.9%	0%	3.9%	0%	2.7%	-	2.3%
Articulated Trucks	0	1	0	0	1	-	0	0	0	0	0	-	0	2	1	0	3	-	0	0	0	0	0	-	4
% Articulated Trucks	0%	0.2%	0%	0%	0.2%	-	0%	0%	0% 0)%	0%	-	0%	0.3%	0.6% ()%	0.4%	-	0%	0%	0%	0%	0%	-	0.2%
Buses	8	3	0	0	11	-	0	0	0	0	0	-	0	3	1	0	4	-	4	0	12	0	16	-	31
% Buses	6.1%	0.7%	0%	0%	2.0%	-	0%	0%	0% 0)%	0%	-	0%	0.5%	0.6% ()%	0.5%	-	3.7%	0%	6.7%	0%	5.4%	-	1.8%
Bicycles on Road	0	1	0	0	1	-	0	0	1	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	2
% Bicycles on Road	0%	0.2%	0%	0%	0.2%	-	0%	0%	6.3% 0)%	1.5%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Pedestrians	-	-	-	-	-	. 0	-	-	-	-	-	6	-	-	-	-	-	14	-	-	-	-	-	9	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	. 0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 16 Lafayette St @ West Ave TMC - TMC

Thu Mar 27, 2025

AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour

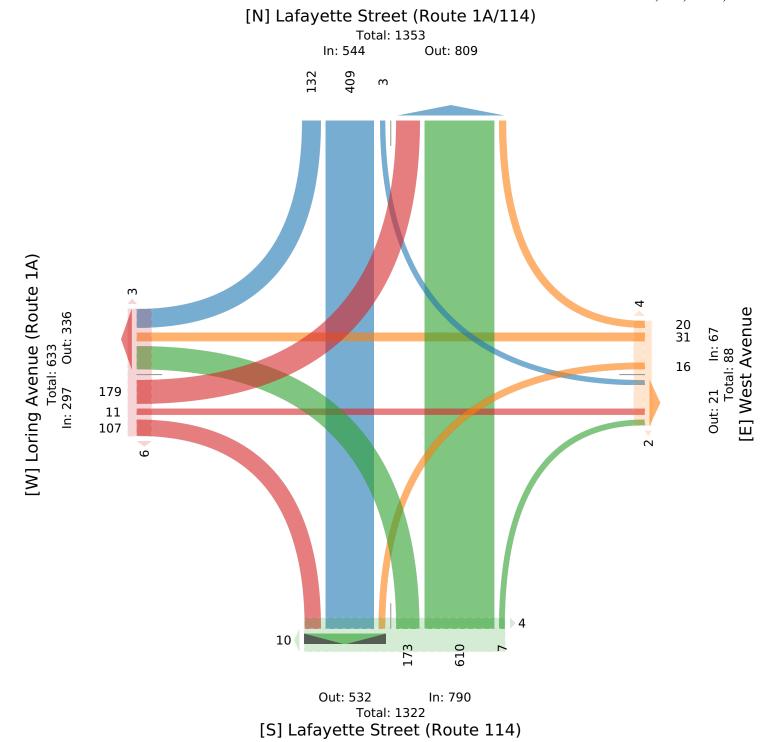
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,

Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279748, Location: 42.505204, -70.890772

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



250511- 16 Lafayette St @ West Ave TMC - TMC

Thu Mar 27, 2025

PM Peak (3 PM - 4 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279748, Location: 42.505204, -70.890772

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US

Leg	Lafaye	tte Stre	et (Rou	ite 1	A/114))	West A	venue					Lafaye	tte Stre	et (Rou	te 11	l4)		Loring	Avenu	ie (Rou	te 1A	1)		
Direction	Southb	ound					Westbo	und					Northb	oound					Eastbou	ınd					
Time	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	App	Ped*	R	T	L	U	Арр	Ped*	Int
2025-03-27 3:00PM	45	79	1	0	125	0	2	5	3	0	10	5	3	151	48	0	202	6	25	7	66	0	98	5	435
3:15PM	46	91	0	0	137	0	2	3	5	0	10	5	7	145	47	0	199	6	21	7	52	0	80	0	426
3:30PM	39	93	4	0	136	0	4	9	6	0	19	5	3	127	38	0	168	5	16	5	49	0	70	2	393
3:45PM	47	112	1	0	160	1	3	6	11	0	20	1	5	135	33	0	173	1	19	3	43	0	65	1	418
Total	177	375	6	0	558	1	11	23	25	0	59	16	18	558	166	0	742	18	81	22	210	0	313	8	1672
% Approach	31.7%	67.2%	1.1%	0%	-	-	18.6%	39.0%	42.4% ()%	-	-	2.4%	75.2%	22.4% ()%	-	-	25.9%	7.0%	67.1%	0%	-	-	-
% Total	10.6%	22.4%	0.4%	0% 3	33.4%	-	0.7%	1.4%	1.5% ()%	3.5%	-	1.1%	33.4%	9.9% ()% 4	4.4%	-	4.8%	1.3%	12.6%	0% 1	18.7%	-	-
PHF	0.941	0.837	0.375	-	0.872	-	0.688	0.639	0.568	- (0.738	-	0.643	0.924	0.865	-	0.918	-	0.833	0.786	0.795	-	0.804	-	0.963
Motorcycles	0	1	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Motorcycles	0%	0.3%	0%	0%	0.2%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0)%	0%	-	0%	0%	0%	0%	0%	-	0.1%
Lights	171	363	6	0	540	-	11	23	25	0	59	-	18	542	162	0	722	-	76	22	203	0	301	-	1622
% Lights	96.6%	96.8%	100%	0% 9	96.8%	-	100%	100%	100% ()% :	100%	-	100%	97.1%	97.6% ()% 9	7.3%	-	93.8%	100%	96.7%	0% 9	96.2%	-	97.0%
Single-Unit Trucks	1	7	0	0	8	-	0	0	0	0	0	-	0	8	3	0	11	-	2	0	0	0	2	-	21
% Single-Unit Trucks	0.6%	1.9%	0%	0%	1.4%	-	0%	0%	0% ()%	0%	-	0%	1.4%	1.8% ()%	1.5%	-	2.5%	0%	0%	0%	0.6%	-	1.3%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	1	-	0	0	0	0	0	-	1
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0.2%	0% 0)%	0.1%	-	0%	0%	0%	0%	0%	-	0.1%
Buses	5	4	0	0	9	-	0	0	0	0	0	-	0	7	1	0	8	-	2	0	7	0	9	-	26
% Buses	2.8%	1.1%	0%	0%	1.6%	-	0%	0%	0% ()%	0%	-	0%	1.3%	0.6% ()%	1.1%	-	2.5%	0%	3.3%	0%	2.9%	-	1.6%
Bicycles on Road	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1	0	0	0	1	-	1
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0% 0)%	0%	-	1.2%	0%	0%	0%	0.3%	-	0.1%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	16	-	-	-	-	-	18	-	-	-	-	-	8	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

250511- 16 Lafayette St @ West Ave TMC - TMC

Thu Mar 27, 2025

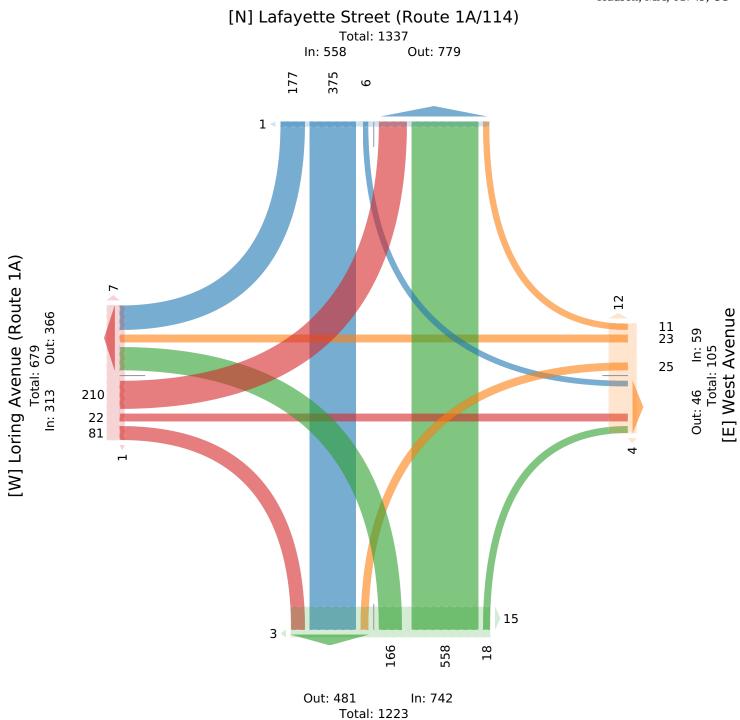
PM Peak (3 PM - 4 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road, Bicycles on Crosswalk)

All Movements

ID: 1279748, Location: 42.505204, -70.890772

Provided by: Precision Data Industries, LLC (PDI) 157 Washington Street, 2, Hudson, MA, 01749, US



[S] Lafayette Street (Route 114)

Part 2: Speed Data

SPEED SUMMARY Tue 3/25/2025

STA 1

File: D0325002.prn

City: Salem County: Speed

Station #: 250010000057 Site ID: 00000000103

Location: Rt.114/N. St EB, E of Nursery St

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
11:00	96	103	46	51	147	81	15	0	0	0	0	0	0	7	546
12:00	1	5	22	110	323	142	8	1	0	0	0	0	0	0	612
13:00	2	2	37	150	268	139	23	1	0	0	0	0	0	0	622
14:00	5	6	18	136	343	144	20	1	0	0	0	0	0	0	673
15:00	29	43	61	99	285	126	9	0	0	0	0	0	0	0	652
16:00	26	33	61	205	297	92	14	0	0	0	0	0	0	0	728
17:00	21	17	60	178	269	124	17	0	0	0	0	0	0	0	686
18:00	28	27	60	165	293	159	18	3	0	0	0	0	0	0	753
19:00	39	57	100	232	245	54	13	0	0	0	0	0	0	0	740
20:00	2	3	25	101	310	158	13	2	0	0	0	0	0	0	614
21:00	0	0	10	61	200	147	22	2	0	0	0	0	0	0	442
22:00	0	0	4	29	136	114	29	3	1	0	0	0	0	0	316
23:00	0	0	0	7	60	84	19	4	0	0	0	0	0	0	174
24:00	0	0	0	7	39	42	32	5	0	0	0	0	0	0	125
DAY TOTAL	249	296	504	1531	3215	1606	252	22	1	0	0	0	0	7	7683
PERCENTS	3.2%	3.9%	6.6%	19.9%	41.8%	20.9%	3.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 21.0 mph

Median Speed 27.2 mph

10 MPH Pace Speed 20 mph to 30 mph 3215 vehicles in pace Representing 43.3% of the total vehicles 85th Percentile Speed 32.4 mph

Average Speed 26.7 mph

SPEED SUMMARY Page: 2

File: D0325002.prn

City: Salem

County: Speed

Wed 3/26/2025

Station #: 250010000057 Site ID: 00000000103

Location: Rt.114/N. St EB, E of Nursery St

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	0	3	10	20	10	6	0	0	0	0	0	0	49
02:00	0	0	1	3	5	8	6	2	0	0	0	0	0	0	25
03:00	1	0	0	0	3	6	6	2	0	0	0	0	0	0	18
04:00	0	0	0	0	5	8	8	6	0	1	0	0	0	0	28
05:00	0	0	0	0	8	9	11	0	2	0	0	0	0	0	30
06:00	1	0	0	3	30	66	31	12	1	0	0	0	0	0	144
07:00	2	4	16	49	170	135	47	3	0	0	0	0	0	0	426
08:00	63	33	19	123	245	113	12	2	0	0	0	0	0	0	610
09:00	40	32	59	122	285	113	19	0	0	0	0	0	0	0	670
10:00	9	10	12	71	283	195	31	1	0	0	0	0	0	0	612
11:00	3	2	23	73	280	168	39	1	0	0	0	0	0	0	589
12:00	4	7	9	95	318	181	28	0	0	0	0	0	0	0	642
13:00	8	4	10	104	305	173	18	0	0	0	0	0	0	0	622
14:00	8	8	29	146	309	146	11	1	0	0	0	0	0	0	658
15:00	29	35	49	181	257	150	18	1	0	0	0	0	0	0	720
16:00	94	83	96	142	225	60	1	0	0	0	0	0	0	0	701
17:00	71	51	107	215	207	54	4	0	0	0	0	0	0	0	709
18:00	212	233	143	115	76	18	2	0	0	0	0	0	0	0	799
19:00	106	117	110	60	186	96	5	0	0	0	0	0	0	0	680
20:00	3	8	11	118	324	97	13	0	0	0	0	0	0	0	574
21:00	1	0	11	94	277	105	12	1	0	0	0	0	0	0	501
22:00	0	0	3	34	179	116	19	4	0	0	0	0	0	0	355
23:00	0	0	0	9	60	87	26	4	0	0	0	0	0	0	186
24:00	0	0	0	4	35	69	34	3	1	0	0	0	0	0	146
DAY TOTAL	655	627	708	1764	4082	2193	411	49	4	1	0	0	0	0	10494
PERCENTS	6.2%	6.0%	6.7%	16.8%	38.9%	20.9%	3.9%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 20.4 mph

Median Speed 27.2 mph

10 MPH Pace Speed 20 mph to 30 mph 4082 vehicles in pace Representing 41.5% of the total vehicles 85th Percentile Speed 32.7 mph

Average Speed 26.6 mph

SPEED SUMMARY Page: 3
Thu 3/27/2025

Station #: 250010000057 File: D0325002.prn
Site ID: 00000000103 City: Salem
Location: Rt.114/N. St EB, E of Nursery St County: Speed

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	< 50	<55	<60	<65	<70	<120	Total
01:00	0	0	3	3	9	18	9	3	0	0	0	0	0	0	45
02:00	0	0	0	4	7	15	3	0	1	0	0	0	0	0	30
03:00	0	0	0	0	1	5	9	0	0	0	0	0	0	0	15
04:00	0	0	0	2	4	6	9	1	1	0	0	0	0	0	23
05:00	0	0	1	1	3	15	9	2	0	0	0	0	0	0	31
06:00	0	0	0	4	45	53	28	9	1	0	0	0	0	0	140
07:00	1	0	3	48	144	146	28	2	0	0	0	0	0	0	372
08:00	25	19	44	183	216	98	12	0	0	0	0	0	0	0	597
09:00	211	147	122	91	50	21	6	0	0	0	0	0	0	0	648
10:00	9	10	48	271	285	87	11	0	0	0	0	0	0	0	721
11:00	39	47	63	141	270	104	13	1	0	0	0	0	0	0	678
12:00	8	22	9	120	354	119	6	2	0	1	0	0	0	0	641
13:00	12	17	28	110	369	149	16	2	0	0	0	0	0	0	703
14:00	45	55	63	149	271	98	9	1	0	0	0	0	0	0	691
15:00	77	68	127	211	194	63	5	0	0	0	0	0	0	0	745
16:00	65	57	83	146	246	102	19	1	0	0	0	0	0	0	719
17:00	144	84	125	143	173	57	8	0	0	0	0	0	0	0	734
18:00	153	167	129	72	97	60	7	1	0	0	0	0	0	0	686
19:00	92	68	72	112	250	110	18	0	0	0	0	0	0	0	722
20:00	6	14	38	167	279	126	12	1	0	0	0	0	0	0	643
21:00	3	4	11	63	252	154	30	1	0	0	0	0	0	0	518
22:00	1	3	2	50	167	125	28	1	2	0	0	0	0	0	379
23:00	0	0	0	14	96	111	38	1	0	0	0	0	0	0	260
24:00	0	0	0	4	34	63	30	2	1	0	0	0	0	0	134
DAY TOTAL	891	782	971	2109	3816	1905	363	31	6	1	0	0	0	0	10875
PERCENTS	8.2%	7.2%	8.9%	19.4%	35.1%	17.5%	3.3%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 18.7 mph

Median Speed 26.5 mph

10 MPH Pace Speed
20 mph to 30 mph
3816 vehicles in pace
Representing 38.2% of the total vehicles

85th Percentile Speed 32.1 mph

Average Speed 25.7 mph

SPEED SUMMARY Fri 3/28/2025

Station #: 250010000057 File: D0325002.prn
Site ID: 00000000103 City: Salem
Location: Rt.114/N. St EB, E of Nursery St County: Speed

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	1	0	0	1	15	28	17	2	0	1	0	0	0	0	65
02:00	0	0	0	2	5	13	7	1	1	0	0	0	0	0	29
03:00	0	0	0	1	10	5	4	3	0	0	0	0	0	0	23
04:00	0	0	0	0	2	8	4	1	0	0	0	0	0	0	15
05:00	0	0	0	2	9	15	8	5	2	0	0	0	0	0	41
06:00	0	0	2	1	29	70	33	7	0	0	0	0	0	0	142
07:00	2	0	11	39	127	139	45	7	0	0	0	0	0	0	370
08:00	22	38	38	155	206	80	17	0	0	0	0	0	0	0	556
09:00	16	25	26	138	289	129	15	1	0	1	0	0	0	1	641
10:00	8	9	21	87	302	162	25	3	0	0	0	0	0	0	617
DAY TOTAL PERCENTS	49 2.0%	72 2.9%	98 3.9%	426 17.0%	994 39.8%	649 26.0%	175 7.0%	30 1.2%	3 0.1%	2 0.1%	0 0.0%	0 0.0%	0 0.0%	1 0.0%	2499 100.0%

Statistical Information...

15th Percentile Speed 22.3 mph

Median Speed 28.2 mph

10 MPH Pace Speed
20 mph to 30 mph
994 vehicles in pace
Representing 40.6% of the total vehicles

85th Percentile Speed 33.8 mph

Page: 4

Average Speed 28.1 mph

SPEED SUMMARY Tue 3/25/2025

> STA 1 WB

File: D0325004 (2).prn

City: Salem County: Speed

Station #: 250010000034 Site ID: 00000000104

Location: Rt.114/N. St WB, E of Nursery St

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
11:00	41	73	94	196	194	50	11	2	0	0	0	0	0	4	665
12:00	36	41	54	339	255	56	11	2	0	0	0	0	0	0	794
13:00	18	26	73	255	329	88	7	0	0	0	0	0	0	0	796
14:00	16	19	49	340	316	82	12	1	0	0	0	0	0	0	835
15:00	24	44	66	288	339	85	5	1	0	0	0	0	0	0	852
16:00	29	25	89	287	332	101	6	0	0	0	0	0	0	0	869
17:00	59	106	143	287	264	53	6	0	0	0	0	0	0	0	918
18:00	30	18	71	251	371	109	12	0	0	0	0	0	0	0	862
19:00	14	28	111	250	286	50	10	1	0	0	0	0	0	0	750
20:00	1	3	13	169	314	73	8	0	1	0	0	0	0	0	582
21:00	2	1	3	49	171	112	19	2	0	0	0	0	0	0	359
22:00	0	0	3	32	146	93	13	2	0	0	0	0	0	0	289
23:00	0	0	2	6	66	72	23	5	1	0	0	0	0	0	175
24:00	0	0	1	6	29	53	16	2	3	0	0	0	0	0	110
DAY TOTAL	270	384	772	2755	3412	1077	159	18	5	0	0	0	0	4	8856
PERCENTS	3.0%	4.3%	8.7%	31.1%	38.5%	12.2%	1.8%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 20.2 mph

Median Speed 25.6 mph

10 MPH Pace Speed
20 mph to 30 mph
3412 vehicles in pace
Representing 39.8% of the total vehicles

85th Percentile Speed 30.0 mph

Average Speed 25.2 mph

SPEED SUMMARY Page: 2

County: Speed

Wed 3/26/2025

Station #: 250010000034 File: D0325004 (2).prn Site ID: 000000000104 City: Salem

Location: Rt.114/N. St WB, E of Nursery St

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55 	<60	<65	<70	<120	Total
01:00	0	0	1	7	13	17	11	4	2	1	0	0	0	0	56
01:00	0	0	1	0	13	9	7	4 1	0	0	0	0	0	0	23
03:00	0	1	0	1	2	8	3	3	0	0	0	0	0	0	18
04:00	0	0	0	0	5	9	14	3	3	0	0	0	0	0	34
05:00	0	0	2	5	10	34	31	13	2	0	0	0	1	0	98
06:00	1	0	1	10	81	146	96	11	4	1	0	0	0	0	351
07:00	12	16	29	115	317	162	40	3	0	0	0	0	0	0	694
08:00	46	57	106	253	321	117	13	1	0	1	0	0	0	0	915
09:00	48	47	73	269	395	101	12	0	0	0	0	0	0	0	945
10:00	1	6	19	176	489	115	22	1	0	0	0	0	0	0	829
11:00	11	12	21	234	379	135	17	0	0	0	0	0	0	0	809
12:00	4	12	30	254	340	127	9	1	0	0	0	0	0	0	777
13:00	8	5	53	262	337	100	13	1	0	0	0	0	0	0	779
14:00	15	38	80	255	337	82	7	1	0	0	0	0	0	0	815
15:00	18	22	56	242	354	135	7	1	0	0	0	0	0	0	835
16:00	46	60	89	327	256	72	5	0	0	0	0	0	0	0	855
17:00	59	78	100	302	287	65	4	1	0	0	0	0	0	0	896
18:00	19	33	172	319	257	47	7	0	0	0	1	0	0	0	855
19:00	25	11	73	271	305	68	7	0	0	0	0	0	0	0	760
20:00	0	6	23	136	277	65	5	1	0	0	0	0	0	0	513
21:00	3	2	7	96	227	60	12	0	0	0	0	0	0	0	407
22:00	0	0	3	43	161	72	13	2	0	0	0	0	0	0	294
23:00	0	0	2	21	84	52	13	2	0	0	0	0	0	0	174
24:00	0	0	0	9	29	46	16	5	0	0	0	1	0	0	106
DAY TOTAL	316	406	940	3607	5269	1844	384	55	11	3	1	1	1	0	12838
PERCENTS	2.5%	3.2%	7.3%	28.1%	41.0%	14.4%	3.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 20.7 mph

Median Speed 26.3 mph

10 MPH Pace Speed
20 mph to 30 mph
5269 vehicles in pace
Representing 42.1% of the total vehicles

85th Percentile Speed 31.2 mph

Average Speed 26.0 mph

SPEED SUMMARY Thu 3/27/2025

County: Speed

Station #: 250010000034 File: D0325004 (2).prn Site ID: 000000000104 City: Salem

Location: Rt.114/N. St WB, E of Nursery St

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55 	<60	<65	<70	<120	Total
01:00	0	0	2	3	20	23	0	2	2	0	0	0	0	0	60
01:00	0	0	2	3 1	∠0 8	23 11	8 4	2 1	2 1	0	0	0	0	0	60 26
03:00	0	0	0	2	8	8	3	1	0	0	0	0	0	0	20
04:00	0	0	0	0	7	11	14	2	0	0	0	0	0	0	34
05:00	0	0	2	4	2	35	29	12	4	1	0	0	0	0	89
06:00	0	0	2	17	52	182	72	13	2	0	0	0	0	0	340
07:00	9	8	42	107	324	170	37	8	1	0	0	0	0	0	706
08:00	63	80	123	341	300	50	9	0	0	0	0	0	0	0	966
09:00	24	43	139	385	234	60	6	0	0	0	0	0	0	0	891
10:00	3	17	62	313	326	71	8	0	0	0	0	0	0	0	800
11:00	10	15	63	282	304	82	11	0	0	0	0	0	0	0	767
12:00	20	20	93	316	354	60	3	1	0	0	0	0	0	0	867
13:00	9	17	53	330	384	65	8	0	0	0	0	0	0	0	866
14:00	15	21	87	316	331	69	5	1	0	0	0	0	0	0	845
15:00	2	9	82	380	338	61	7	0	0	0	0	0	0	0	879
16:00	7	11	68	273	362	88	19	2	0	0	0	0	0	0	830
17:00	38	43	133	384	265	42	2	0	0	0	0	0	0	0	907
18:00	48	66	127	413	221	36	2	1	0	0	0	0	0	0	914
19:00	9	12	112	247	296	58	11	0	0	0	0	0	0	0	745
20:00	10	13	50	264	240	53	7	0	0	0	0	0	0	0	637
21:00	0	0	7	128	222	56	6	0	0	0	0	0	0	0	419
22:00	0	1	2	55	172	85	17	2	0	0	0	0	0	0	334
23:00	0	0	1	28	95	73	15	3	0	0	0	0	0	0	215
24:00	0	0	0	14	43	72	26	5	1	1	0	0	0	0	162
DAY TOTAL	267	376	1250	4603	4908	1521	329	54	11	2	0	0	0	0	13321
PERCENTS	2.0%	2.8%	9.4%	34.6%	36.8%	11.4%	2.5%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 20.4 mph

Median Speed 25.3 mph

10 MPH Pace Speed
20 mph to 30 mph
4908 vehicles in pace
Representing 37.6% of the total vehicles

85th Percentile Speed 30.0 mph

Page: 3

Average Speed 25.3 mph

SPEED SUMMARY Fri 3/28/2025

Station #: 250010000034 File: D0325004 (2).prn

Site ID: 000000000104 City: Salem Location: Rt.114/N. St WB, E of Nursery St County: Speed

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	1	0	2	2	12	28	13	6	0	0	0	0	1	0	65
02:00	0	0	0	1	7	16	7	0	1	0	0	0	0	0	32
03:00	0	0	1	2	10	7	10	3	0	0	0	0	0	0	33
04:00	0	0	0	0	2	7	3	2	2	0	0	0	0	0	16
05:00	1	0	0	7	15	36	21	13	3	0	0	0	0	0	96
06:00	0	0	1	5	70	145	83	20	1	0	1	0	0	0	326
07:00	16	12	24	123	317	123	33	1	0	0	0	0	0	0	649
08:00	49	55	123	313	318	69	4	2	1	0	0	0	0	0	934
09:00	20	11	44	219	399	143	15	2	0	0	0	0	0	0	853
10:00	12	17	27	309	330	123	14	0	0	0	0	0	0	0	832
DAY TOTAL PERCENTS	99 2.6%	95 2.5%	222 5.8%	981 25.6%	1480 38.6%	697 18.2%	203 5.3%	49 1.3%	8 0.2%	0 0.0%	1 0.0%	0 0.0%	1 0.0%	0 0.0%	3836 100.0%

Statistical Information...

15th Percentile Speed 21.3 mph

Median Speed 26.9 mph

10 MPH Pace Speed
20 mph to 30 mph
1480 vehicles in pace
Representing 39.6% of the total vehicles

85th Percentile Speed 32.9 mph

Page: 4

Average Speed 27.0 mph

SPEED SUMMARY Tue 3/25/2025

STA 8

File: D0325016 (2).prn

City: Salem County: Speed

Station #: 250010000109 Site ID: 000000000803

Location: Rt.114/N. St EB, S of Lynde St

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
13:00	92	48	106	138	71	9	1	0	0	0	0	0	0	0	465
14:00	59	79	110	183	100	18	7	1	3	0	0	0	0	2	562
15:00	90	75	120	131	130	15	5	0	0	0	0	0	0	0	566
16:00	151	176	166	98	43	8	2	1	0	0	0	0	0	0	645
17:00	111	97	174	167	8 4	13	4	0	0	0	0	0	0	0	650
18:00	117	131	198	122	43	15	1	0	0	0	0	0	0	0	627
19:00	117	102	141	134	8 4	25	3	0	0	0	0	0	0	0	606
20:00	50	68	90	148	118	30	3	1	0	0	0	0	0	3	511
21:00	49	40	74	106	98	24	4	0	0	0	0	0	0	2	397
22:00	2	4	15	54	126	53	13	1	0	0	0	0	0	2	270
23:00	0	1	9	44	66	25	9	1	0	0	0	0	0	0	155
24:00	0	0	3	14	39	36	11	0	0	0	0	0	0	2	105
DAY TOTAL	838	821	1206	1339	1002	271	63	5	3	0	0	0	0	11	5559
PERCENTS	15.1%	14.8%	21.7%	24.1%	18.0%	4.9%	1.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	100.0%

Statistical Information...

15th Percentile Speed 14.3 mph

Median Speed 21.2 mph

10 MPH Pace Speed
15 mph to 25 mph
1339 vehicles in pace
Representing 28.4% of the total vehicles

85th Percentile Speed 28.2 mph

Average Speed 21.4 mph

SPEED SUMMARY Page: 2 Wed 3/26/2025

City: Salem

County: Speed

File: D0325016 (2).prn

Station #: 250010000109 Site ID: 000000000803

Location: Rt.114/N. St EB, S of Lynde St

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
01.00	0	0	ā	2	0.7	0		0	0	0	0	0	0	0	4.0
01:00	0	0	4	3	27	9	6	0	0	0	0	0	0	0	49
02:00	0	0	3	1	6	8	3	0	0	0	0	0	0	0	21
03:00	0	0	1	3	7	6	1	0	0	0	0	0	0	0	18
04:00	0	0	0	2	6	12	1	1	0	0	0	0	0	0	22
05:00	0	1	2	4	8	10	2	1	0	0	0	0	0	0	28
06:00	0	0	2	14	50	44	16	3	1	0	0	0	0	0	130
07:00	19	20	62	97	122	54	9	1	0	0	0	0	0	0	384
08:00	66	72	77	163	124	34	8	1	0	0	0	0	0	0	545
09:00	60	77	134	174	100	19	2	1	0	0	0	0	0	0	567
10:00	84	74	124	135	77	17	3	0	0	0	0	0	0	0	514
11:00	69	68	116	155	76	20	8	1	0	0	0	0	0	2	515
12:00	53	72	109	166	105	17	3	1	0	0	0	0	0	0	526
13:00	115	95	109	95	63	11	1	0	0	0	0	0	0	0	489
14:00	79	75	129	163	69	20	4	0	0	0	0	0	0	0	539
15:00	112	109	102	175	82	14	5	2	0	0	0	0	0	0	601
16:00	114	129	162	133	63	19	3	0	0	0	0	0	0	0	623
17:00	127	169	171	102	43	5	0	0	0	0	0	0	0	0	617
18:00	89	65	157	203	83	17	3	0	0	0	0	0	0	0	617
19:00	73	98	129	167	63	21	2	0	0	0	0	0	0	0	553
20:00	32	48	73	141	98	32	3	0	0	0	0	0	0	0	427
21:00	12	17	41	115	188	35	7	1	0	0	0	0	0	0	416
22:00	0	1	23	77	144	45	13	0	0	0	0	0	0	0	303
23:00	0	0	4	38	75	29	10	4	0	0	0	0	0	0	160
24:00	0	0	1	17	45	37	16	2	0	0	0	0	0	0	118
DAY TOTAL	1104	1190	1735	2343	1724	535	129	19	1	0	0	0	0	2	8782
PERCENTS	12.6%	13.6%	19.8%	26.7%	19.6%	6.1%	1.5%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 14.8 mph

Median Speed 22.0 mph

10 MPH Pace Speed
 15 mph to 25 mph
 2343 vehicles in pace
 Representing 30.5% of the total vehicles

85th Percentile Speed 28.7 mph

Average Speed 22.0 mph

SPEED SUMMARY Page: 3
Thu 3/27/2025

Station #: 250010000109 File: D0325016 (2).prn Site ID: 000000000803 City: Salem

Location: Rt.114/N. St EB, S of Lynde St County: Speed

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	3	4	18	11	3	1	0	0	0	0	0	0	40
02:00	0	0	0	3	7	4	1	0	0	0	0	0	0	0	15
03:00	0	0	1	2	9	2	1	0	0	0	0	0	0	0	15
04:00	0	0	0	2	8	10	4	1	0	0	0	0	0	0	25
05:00	0	0	0	4	13	10	3	1	0	0	0	0	0	0	31
06:00	0	0	4	18	47	21	15	4	0	0	0	0	0	0	109
07:00	9	16	37	108	128	51	12	2	0	0	0	0	0	0	363
08:00	74	63	87	154	109	19	4	1	1	0	0	0	0	0	512
09:00	70	62	99	138	113	22	10	0	0	0	0	0	0	0	514
10:00	77	123	118	136	80	19	2	0	0	0	0	0	0	1	556
11:00	75	69	107	148	104	26	8	1	2	0	0	0	0	2	542
12:00	85	68	105	124	95	11	3	0	0	0	0	0	0	0	491
13:00	63	69	117	175	87	20	4	0	0	0	0	0	0	0	535
14:00	66	94	126	182	95	18	2	0	0	0	0	0	0	0	583
15:00	105	151	121	123	56	12	5	0	0	0	0	0	0	1	574
16:00	124	126	141	138	65	12	3	0	0	0	0	0	0	0	609
17:00	142	137	181	129	64	12	3	0	0	1	0	0	0	0	669
18:00	133	136	145	116	66	10	7	0	0	0	0	0	0	0	613
19:00	69	83	122	190	96	22	3	0	0	0	0	0	0	1	586
20:00	36	52	104	172	140	19	4	0	0	0	0	0	0	0	527
21:00	15	25	50	150	153	31	7	0	0	0	0	0	0	0	431
22:00	1	1	40	88	132	44	10	0	0	0	0	0	0	0	316
23:00	3	0	9	25	112	56	12	2	0	0	0	0	0	0	219
24:00	0	0	1	33	44	28	6	0	0	0	0	0	0	0	112
DAY TOTAL	1147	1275	1718	2362	1841	490	132	13	3	1	0	0	0	5	8987
PERCENTS	12.8%	14.2%	19.1%	26.3%	20.5%	5.5%	1.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 14.6 mph

Median Speed 22.0 mph

10 MPH Pace Speed 15 mph to 25 mph 2362 vehicles in pace Representing 30.1% of the total vehicles 85th Percentile Speed 28.6 mph

Average Speed 21.9 mph

SPEED SUMMARY Fri 3/28/2025

County: Speed

Station #: 250010000109 File: D0325016 (2).prn Site ID: 000000000803 City: Salem

Location: Rt.114/N. St EB, S of Lynde St

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	2	9	23	16	1	1	0	0	0	0	0	0	52
02:00	0	0	1	5	8	9	2	1	0	0	0	0	0	0	26
03:00	0	0	1	2	12	10	1	0	0	0	0	0	0	0	26
04:00	0	0	0	0	11	8	2	0	0	0	0	0	0	0	21
05:00	0	0	0	5	11	6	5	0	0	0	0	0	0	0	27
06:00	1	0	1	9	46	48	7	1	1	0	0	0	0	0	114
07:00	19	11	36	91	154	30	6	3	0	0	0	0	0	0	350
08:00	45	38	81	173	133	32	3	1	0	0	0	0	0	0	506
09:00	87	87	119	169	79	14	4	0	0	0	0	0	0	0	559
10:00	70	69	83	133	115	33	5	3	0	0	0	0	0	2	513
11:00	55	68	119	167	109	28	4	1	1	0	0	0	0	0	552
DAY TOTAL	277	273	443	763	701	234	40	11	2	0	0	0	0	2	2746
PERCENTS	10.1%	9.9%	16.1%	27.8%	25.5%	8.5%	1.5%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 16.1 mph

Median Speed 23.4 mph

10 MPH Pace Speed
15 mph to 25 mph
763 vehicles in pace
Representing 30.9% of the total vehicles

85th Percentile Speed 29.4 mph

Page: 4

Average Speed 23.2 mph

SPEED SUMMARY Tue 3/25/2025

STA 8 WB

Station #: 250010000141 Site ID: 000000000804

Location: Rt.114/N. St WB, S of Lynde St

Direction: WEST

Lane: 1

TIME <10 <15 <20 <25 <30 <35 <40 <45 <50 <55 <60 <65 <70 <120 Total 6 3
13 2
6 4
8 0
9 2
5 0
4 4
2 2
0 0
0 18 8 76 240 90 13 1 62 258 94 28 13 69 290 101 90 2 18 9 8 3 11 2 488 3 13:00 1 14 0 2 16 0 10 16 0 3 2 496 549 14:00 94 21 11 15:00 101 2 0 10 11 131 3 2 10 11 108 2 0 2 4 70 3 2 0 6 79 5 0 0 1 0 0 0 0 19 17 85 18 17 89 22 16 121 11 18 54 16:00 85 257 12 6 561 4 6 1 0 0 9 12 6 5 0 6 581 17:00 89 309 18:00 265 521 18 54 204 386 19:00 8 64 200 0 0 68 2 45 5 61 4 0 0 0 20:00 17 1 0 2 367 5 25 121 3 17 92 1 5 49 0 4 26 1 0 0 2 0 2 204 181 21:00 22:00 0 1 0 0 2 38 0 23:00 0 3 0 24:00 42 1 0 0 Ω 79 ______ DAY TOTAL 147 107 671 2311 927 35 11 42 69 64 47 55 19 2 4507 PERCENTS 3.3% 2.4% 14.9% 51.3% 20.6% 0.8% 0.2% 0.9% 1.5% 1.4% 1.0% 1.2% 0.4% 0.0% 100.0%

Statistical Information...

15th Percentile Speed 19.1 mph

Median Speed 23.0 mph

10 MPH Pace Speed
15 mph to 25 mph
2311 vehicles in pace
Representing 53.0% of the total vehicles

85th Percentile Speed 28.3 mph

Average Speed 24.8 mph

File: D0325019 (2).prn

City: Salem

County: Speed

File: D0325019 (2).prn

City: Salem

County: Speed

SPEED SUMMARY Wed 3/26/2025

Station #: 250010000141 Site ID: 00000000804

Location: Rt.114/N. St WB, S of Lynde St

Direction: WEST

Lane: 1

Lane: 1															
TIME	<10	<15	<20	<25	<30	<35	<40	< 45	< 50	<55	<60	<65	<70	<120	Total
01:00	0	1	1	12	16	2	0	0	0	0	0	0	0	0	32
02:00	0	0	2	10	7	1	0	0	0	0	0	0	0	0	20
03:00	0	0	1	3	5	1	0	0	0	0	0	0	0	0	10
04:00	0	0	0	3	8	2	1	0	0	0	0	0	0	0	14
05:00	0	0	5	7	20	3	1	1	0	0	0	0	0	0	37
06:00	0	0	5	40	53	13	3	0	0	0	0	0	0	0	114
07:00	0	1	27	143	167	12	0	0	0	0	0	2	2	0	354
08:00	8	6	71	325	142	10	0	0	0	0	2	0	0	0	564
09:00	3	5	75	308	136	5	0	0	0	0	0	5	0	0	537
10:00	4	8	58	269	122	1	1	0	0	0	1	0	0	0	464
11:00	4	10	61	257	91	5	0	2	0	0	0	7	2	0	439
12:00	8	5	61	268	97	1	0	2	2	1	3	2	0	1	451
13:00	13	3	83	243	108	6	1	5	12	3	10	2	0	0	489
14:00	34	13	118	225	105	8	0	7	16	19	3	12	4	0	564
15:00	28	17	50	270	106	4	0	11	20	8	7	16	1	0	538
16:00	26	14	92	290	130	1	1	9	13	4	6	6	0	0	592
17:00	11	14	71	334	86	4	1	1	5	8	3	3	4	0	545
18:00	3	7	72	321	126	1	0	0	0	0	4	2	4	0	540
19:00	12	12	50	231	94	3	0	0	0	0	0	5	4	0	411
20:00	6	8	79	201	67	3	0	0	0	0	0	0	0	0	364
21:00	0	4	24	137	85	5	0	0	0	0	0	0	2	0	257
22:00	0	1	10	78	75	6	0	0	0	0	0	0	0	0	170
23:00	0	1	8	41	44	6	0	0	0	0	0	0	0	0	100
24:00	0	0	4	23	41	6	2	0	0	1	0	0	0	0	77
DAY TOTAL	160	130	1028	4039	1931	109	11	38	68	44	39	62	23	1	7683
PERCENTS	2.1%	1.7%	13.4%	52.6%	25.1%	1.4%	0.1%	0.5%	0.9%	0.6%	0.5%	0.8%	0.3%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 19.9 mph

Median Speed 23.2 mph

10 MPH Pace Speed
 15 mph to 25 mph
 4039 vehicles in pace
 Representing 53.7% of the total vehicles

85th Percentile Speed 28.1 mph

Average Speed 24.3 mph

SPEED SUMMARY Page: 3

County: Speed

Thu 3/27/2025

Station #: 250010000141 File: D0325019 (2).prn Site ID: 000000000804 City: Salem

Location: Rt.114/N. St WB, S of Lynde St

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	1	23	16	3	0	0	0	0	0	0	0	0	43
02:00	0	0	2	8	7	0	0	0	0	0	0	0	0	0	17
03:00	0	0	0	2	11	1	1	0	0	0	0	0	0	0	15
04:00	0	0	0	3	7	4	0	0	0	0	0	0	0	0	14
05:00	0	0	3	10	16	1	0	0	0	0	0	0	0	0	30
06:00	0	0	12	33	65	19	2	1	0	0	0	0	0	0	132
07:00	8	10	40	142	118	7	0	0	0	0	0	0	0	0	325
08:00	19	20	84	308	121	8	1	0	0	0	0	0	0	0	561
09:00	7	14	93	331	74	8	0	0	0	0	0	2	0	0	529
10:00	14	20	78	255	89	2	0	2	0	0	2	0	0	0	462
11:00	15	12	72	228	100	5	2	2	2	2	2	6	0	4	452
12:00	10	19	58	295	104	2	0	0	3	2	3	3	0	0	499
13:00	10	23	82	266	106	4	0	2	5	3	7	12	4	2	526
14:00	21	21	78	304	100	3	0	4	5	4	4	7	2	0	553
15:00	25	19	71	287	141	4	0	3	3	7	4	5	0	2	571
16:00	9	14	66	326	121	7	0	4	7	4	16	10	2	0	586
17:00	9	17	68	344	80	0	1	0	6	2	4	3	0	0	534
18:00	15	14	110	282	118	5	0	0	5	0	4	7	3	0	563
19:00	6	18	60	262	111	4	0	0	0	0	1	3	2	0	467
20:00	12	10	79	176	64	4	2	0	0	0	1	2	0	0	350
21:00	2	4	61	143	58	1	0	0	0	0	0	2	0	0	271
22:00	2	1	22	110	79	2	0	0	1	0	0	1	0	0	218
23:00	0	1	7	45	55	9	0	0	0	0	0	0	0	0	117
24:00	0	0	10	42	42	12	1	1	0	0	0	0	0	0	108
DAY TOTAL	184	237	1157	4225	1803	115	10	19	37	24	48	63	13	8	7943
PERCENTS	2.3%	3.0%	14.6%	53.2%	22.7%	1.4%	0.1%	0.2%	0.5%	0.3%	0.6%	0.8%	0.2%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 19.0 mph

Median Speed 22.9 mph

10 MPH Pace Speed
 15 mph to 25 mph
 4225 vehicles in pace
 Representing 54.5% of the total vehicles

85th Percentile Speed 27.7 mph

Average Speed 23.7 mph

SPEED SUMMARY Fri 3/28/2025

Station #: 250010000141 File: D0325019 (2).prn Site ID: 000000000804 City: Salem

Location: Rt.114/N. St WB, S of Lynde St

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	< 50	<55	<60	<65	<70	<120	Total
01:00	0	0	4	17	10	4	1	0	0	0	0	0	0	0	36
02:00	0	0	0	9	9	0	1	0	0	0	0	0	0	0	19
03:00	0	0	1	8	8	0	0	0	0	0	0	0	0	0	17
04:00	0	0	1	4	4	3	0	0	0	0	0	0	0	0	12
05:00	1	1	2	3	20	3	0	0	0	0	0	0	0	0	30
06:00	0	0	2	37	54	16	0	0	0	0	0	0	0	0	109
07:00	0	0	22	121	174	16	3	0	0	0	1	0	0	0	337
08:00	32	27	68	277	144	5	0	0	0	0	1	0	0	2	556
09:00	20	24	72	303	95	5	0	0	0	2	0	0	0	0	521
10:00	13	19	74	286	82	1	1	2	2	1	0	2	2	2	487
11:00	14	13	74	244	115	5	0	2	7	15	2	4	2	2	499
DAY TOTAL PERCENTS	80 3.0%	84 3.2%		1309 49.9%	715 27.3%	58 2.2%	6 0.2%	4 0.2%	9	18 0.7%	4 0.2%	6 0.2%	4 0.2%	6 0.2%	2623 100.0%

Statistical Information...

15th Percentile Speed 19.6 mph

Median Speed 23.3 mph

10 MPH Pace Speed
15 mph to 25 mph
1309 vehicles in pace
Representing 51 6% of the total

Representing 51.6% of the total vehicles

85th Percentile Speed 28.1 mph

Page: 4

Average Speed 23.8 mph

County: Speed

Vehicles > 65 MPH $\frac{4}{0.2}$ %

SPEED SUMMARY Tue 3/25/2025

STA 18

File: D0325008.prn

City: Salem

County: Speed

Station #: 250010000140 Site ID: 00000001801

Location: Rt.1A/Lafayette St NB, N of Lafayette Pl

Direction: NORTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
12:00	22	38	29	79	176	125	10	2	0	0	0	0	0	0	481
13:00	2	3	37	84	233	178	36	4	0	0	0	0	0	4	581
14:00	4	13	24	113	287	126	37	5	1	0	0	0	0	2	612
15:00	24	21	62	130	245	107	26	1	2	0	0	0	0	2	620
16:00	18	40	142	246	191	24	3	0	0	0	0	0	0	0	664
17:00	38	57	68	156	300	79	10	2	1	0	0	0	0	0	711
18:00	87	79	141	204	223	62	8	1	0	0	0	0	0	0	805
19:00	16	19	46	137	273	110	22	1	0	0	0	0	0	0	624
20:00	1	2	11	81	249	123	17	2	0	0	0	0	0	0	486
21:00	1	2	14	48	146	133	27	2	1	0	0	0	0	0	374
22:00	0	0	4	27	56	99	37	3	0	0	0	0	0	0	226
23:00	0	2	3	9	44	53	30	3	1	0	1	0	0	0	146
24:00	0	0	0	3	19	37	23	5	1	0	0	0	0	0	88
DAY TOTAL	213	276	581	1317	2442	1256	286	31	7	0	1	0	0	8	6418
PERCENTS	3.3%	4.3%	9.1%	20.5%	38.0%	19.6%	4.5%	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 20.3 mph

Median Speed

26.9 mph 10 MPH Pace Speed

20 mph to 30 mph 2442 vehicles in pace

Representing 39.4% of the total vehicles

85th Percentile Speed 32.6 mph

Average Speed 26.4 mph

SPEED SUMMARY Page: 2

County: Speed

Wed 3/26/2025

Station #: 250010000140 File: D0325008.prn Site ID: 000000001801 City: Salem

Location: Rt.1A/Lafayette St NB, N of Lafayette Pl

Direction: NORTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
01:00	0	1	0	2	8	10	19	1	0	0	0	0	0	0	41
02:00	0	0	1	1	4	9	7	0	1	0	0	0	0	0	23
03:00	0	0	0	0	0	4	4	1	0	0	0	0	0	0	9
04:00	0	0	0	2	0	8	4	2	0	0	0	0	0	0	16
05:00	1	0	0	1	3	8	3	5	3	0	0	0	0	0	24
06:00	0	0	0	6	10	33	21	5	3	0	0	0	0	0	78
07:00	0	0	7	10	94	131	42	9	0	0	0	0	0	0	293
08:00	9	7	20	121	196	155	30	0	0	0	0	0	0	0	538
09:00	12	30	49	180	253	70	10	4	0	0	0	0	0	0	608
10:00	7	5	13	99	271	159	46	3	0	0	0	0	0	0	603
11:00	3	7	19	72	264	160	32	5	0	0	0	0	0	0	562
12:00	0	5	22	101	229	147	31	2	0	0	0	0	0	0	537
13:00	0	5	20	88	251	157	27	4	2	2	0	0	0	0	556
14:00	4	6	24	124	262	119	33	3	0	0	0	0	0	0	575
15:00	12	16	41	108	256	136	31	2	0	0	0	0	0	0	602
16:00	17	42	102	258	192	66	8	2	0	0	0	0	0	0	687
17:00	195	123	83	118	163	51	8	0	0	0	0	0	1	0	742
18:00	4	4	26	126	354	195	31	3	0	0	0	0	0	0	743
19:00	3	10	26	117	282	171	47	2	0	0	0	0	0	0	658
20:00	0	0	14	55	210	173	29	2	0	0	0	0	0	0	483
21:00	1	2	14	69	212	133	24	3	0	0	0	0	0	0	458
22:00	2	0	3	25	132	122	36	3	1	0	0	0	0	0	324
23:00	0	1	3	11	47	63	32	2	3	0	0	0	0	0	162
24:00	0	0	1	8	23	42	24	0	1	0	0	0	0	0	99
DAY TOTAL	270	264	488	1702	3716	2322	579	63	14	2	0	0	1	0	9421
PERCENTS	2.9%	2.8%	5.2%	18.1%	39.4%	24.6%	6.1%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 21.8 mph

Median Speed 27.9 mph

10 MPH Pace Speed
20 mph to 30 mph
3716 vehicles in pace
Representing 40.6% of the total vehicles

85th Percentile Speed 33.5 mph

Average Speed 27.7 mph

SPEED SUMMARY Page: 3
Thu 3/27/2025

Station #: 250010000140 File: D0325008.prn
Site ID: 000000001801 City: Salem
Location: Rt.1A/Lafayette St NB, N of Lafayette Pl County: Speed

Direction: NORTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	< 50	<55	<60	<65	<70	<120	Total
01:00	0	0	2	4	7	18	12	2	0	0	0	0	0	0	45
02:00	0	0	1	2	2	3	4	2	0	1	0	0	0	0	15
03:00	0	0	0	1	1	4	6	1	1	0	0	0	0	0	14
04:00	0	0	0	1	0	4	11	2	0	0	0	0	0	0	18
05:00	0	0	1	2	5	5	11	4	0	0	0	0	0	0	28
06:00	0	0	1	6	17	30	10	5	0	0	0	0	0	0	69
07:00	1	2	3	13	86	113	50	10	2	1	0	0	0	0	281
08:00	0	7	23	93	182	169	32	4	0	0	0	0	0	0	510
09:00	17	23	60	181	228	90	19	0	1	0	0	0	0	0	619
10:00	2	6	21	72	221	189	57	3	2	0	0	0	0	4	577
11:00	0	0	13	62	230	207	49	5	1	0	0	0	0	2	569
12:00	0	2	10	101	300	132	29	3	0	0	0	0	0	0	577
13:00	1	13	33	114	309	120	27	5	0	0	0	0	0	0	622
14:00	2	0	26	146	285	130	21	2	0	0	0	0	0	0	612
15:00	11	10	41	127	252	153	28	3	0	0	0	0	0	0	625
16:00	12	20	136	255	159	48	11	1	0	0	0	0	0	0	642
17:00	166	127	149	103	148	71	10	1	0	0	0	0	0	0	775
18:00	16	21	55	202	344	109	22	2	0	0	0	0	0	0	771
19:00	1	2	18	125	222	192	40	4	0	0	0	0	0	0	604
20:00	4	7	16	82	229	131	33	2	0	0	0	0	0	0	504
21:00	0	1	4	74	180	153	29	1	0	0	0	0	0	0	442
22:00	0	1	10	34	146	111	34	3	2	0	0	0	0	0	341
23:00	0	0	9	12	57	115	28	8	0	0	0	2	0	0	231
24:00	0	1	4	5	39	53	22	2	0	0	0	0	0	0	126
DAY TOTAL	233	243	636	1817	3649	2350	595	75	9	2	0	2	0	6	9617
PERCENTS	2.4%	2.5%	6.6%	18.9%	37.9%	24.4%	6.2%	0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 21.5 mph

Median Speed 27.7 mph

10 MPH Pace Speed
20 mph to 30 mph
3649 vehicles in pace
Representing 38.9% of the total vehicles

85th Percentile Speed 33.5 mph

Average Speed 27.5 mph

SPEED SUMMARY Fri 3/28/2025

County: Speed

Station #: 250010000140 File: D0325008.prn Site ID: 000000001801 City: Salem

Location: Rt.1A/Lafayette St NB, N of Lafayette Pl

Direction: NORTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	0	6	18	16	15	2	1	1	0	0	0	0	59
02:00	0	0	3	1	4	5	12	2	0	0	0	0	0	0	27
03:00	0	0	1	0	2	4	8	4	1	1	0	0	0	0	21
04:00	0	0	0	0	1	7	4	4	3	0	0	0	0	1	20
05:00	0	2	0	1	4	5	8	1	1	0	0	0	0	0	22
06:00	0	0	1	6	15	22	28	4	0	0	0	0	0	0	76
07:00	0	0	4	18	92	122	48	11	0	0	0	0	0	0	295
08:00	13	14	25	107	187	144	35	4	0	0	0	0	0	0	529
09:00	3	9	50	184	204	82	25	0	0	0	0	0	0	0	557
10:00	3	1	21	81	217	171	45	4	0	0	0	0	0	2	545
11:00	6	24	36	122	195	147	35	6	0	0	0	0	0	0	571
DAY TOTAL	25	50	141	526	939	725	263	42	6	2	0	0	0	3	2722
PERCENTS	0.9%	1.8%	5.2%	19.3%	34.5%	26.6%	9.7%	1.5%	0.2%	0.1%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 22.0 mph

Median Speed 28.4 mph

10 MPH Pace Speed 20 mph to 30 mph

939 vehicles in pace Representing 34.9% of the total vehicles 85th Percentile Speed 34.4 mph

Page: 4

Average Speed 28.4 mph

SPEED SUMMARY Tue 3/25/2025

STA 18

File: D0325010.prn

Station #: 250010000071

Lane: 1

Site ID: 00000001802
Location: Rt.1A/Lafayette St SB, N of Lafayette Pl SB Site ID: 00000001802 City: Salem County: Speed Direction: SOUTH

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
12:00	56	40	27	80	179	104	12	1	1	0	0	0	0	1	501
13:00	15	33	35	130	292	121	19	0	0	0	0	0	0	0	645
14:00	10	14	40	155	281	129	20	3	0	0	0	0	0	3	655
15:00	13	28	61	172	223	131	12	4	1	0	0	0	0	0	645
16:00	174	156	107	171	109	29	2	0	0	0	0	0	0	0	748
17:00	15	35	44	200	309	82	8	1	0	0	0	0	0	4	698
18:00	26	32	85	212	255	98	8	0	0	0	0	0	0	0	716
19:00	9	13	29	101	224	127	16	0	0	0	0	0	0	2	521
20:00	2	1	11	63	196	117	12	1	0	0	0	0	0	0	403
21:00	1	3	2	18	119	82	18	1	0	1	0	0	0	0	245
22:00	1	0	1	14	44	68	17	1	0	0	0	0	0	0	146
23:00	0	0	0	5	35	36	14	0	0	0	0	0	0	0	90
24:00	0	0	0	3	29	23	9	1	0	0	0	0	0	0	65
DAY TOTAL PERCENTS	322 5.3%	355 5.8%	442	1324 21.8%		1147 18.9%	167 2.7%	13 0.2%	2 0.0%	1 0.0%	0 0.0%	0 0.0%	0 0.0%	10 0.2%	6078 100.0%

Statistical Information...

15th Percentile Speed 20.3 mph

Median Speed 26.6 mph

10 MPH Pace Speed 20 mph to 30 mph 2295 vehicles in pace Representing 39.9% of the total vehicles 85th Percentile Speed 32.1 mph

Average Speed 26.0 mph

SPEED SUMMARY Page: 2 Wed 3/26/2025

File: D0325010.prn

Site ID: 000000001802 City: Salem Location: Rt.1A/Lafayette St SB, N of Lafayette Pl County: Speed

Direction: SOUTH

Station #: 250010000071

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
0.1			•		1.0	1.0	_						•		0.4
01:00	1	0	0	1	12	13	5	1	1	0	0	0	0	0	34
02:00	0	0	0	3	4	3	1	1	0	0	0	0	0	0	12
03:00	0	0	0	1	4	1	1	1	0	0	0	0	0	0	8
04:00	0	0	1	1	3	3	3	2	2	0	0	0	0	0	15
05:00	1	1	1	3	4	9	13	5	1	0	0	0	0	0	38
06:00	0	0	3	4	22	71	41	14	1	0	0	0	0	0	156
07:00	1	3	5	27	106	212	69	4	0	0	0	0	0	0	427
08:00	32	43	73	191	294	129	16	2	0	0	0	0	0	0	780
09:00	170	139	105	106	202	49	6	0	2	0	0	0	0	0	779
10:00	16	12	31	130	257	168	34	1	0	0	0	0	0	2	651
11:00	15	27	18	87	270	175	32	2	0	0	0	0	0	0	626
12:00	5	9	31	90	268	136	18	1	1	0	0	0	0	6	565
13:00	1	14	23	96	268	160	31	0	1	0	0	0	0	2	596
14:00	6	11	43	108	319	145	22	1	1	0	0	0	0	2	658
15:00	18	46	52	125	242	138	28	2	0	0	0	0	0	1	652
16:00	131	79	106	140	161	50	9	1	2	0	0	0	0	2	681
17:00	17	28	79	219	299	81	7	1	0	0	0	0	0	0	731
18:00	13	10	24	149	393	152	11	0	1	0	0	0	0	2	755
19:00	1	6	11	96	273	176	32	2	0	0	0	0	0	0	597
20:00	3	6	5	65	173	105	13	0	0	0	0	0	0	0	370
21:00	1	0	7	20	100	120	26	0	0	0	0	0	0	0	274
22:00	1	0	6	10	81	81	29	3	0	1	0	0	0	0	212
23:00	1	2	2	6	33	56	13	2	0	1	0	0	0	0	116
24:00	0	0	2	4	11	27	7	1	0	0	0	0	0	0	52
DAY TOTAL PERCENTS	434 4.4%	436 4.5%	628 6.4%	1682 17.2%	3799 38.8%	2260 23.1%	467 4.8%	47 0.5%	13 0.1%	2 0.0%	0 0.0%	0 0.0%	0 0.0%	17 0.2%	9785 100.0%

Statistical Information...

15th Percentile Speed 21.0 mph

Median Speed 27.5 mph

10 MPH Pace Speed
20 mph to 30 mph
3799 vehicles in pace
Representing 40.7% of the total vehicles

85th Percentile Speed 33.1 mph

Average Speed 27.1 mph

SPEED SUMMARY Page: 3

File: D0325010.prn

City: Salem

County: Speed

Thu 3/27/2025

Station #: 250010000071 Site ID: 00000001802

Location: Rt.1A/Lafayette St SB, N of Lafayette Pl

Direction: SOUTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50 	<55 	<60	<65	<70	<120	Total
01:00	1	0	0	3	10	12	5	2	0	0	0	0	0	0	33
02:00	0	0	1	2	4	6	2	0	1	0	0	0	0	0	16
03:00	0	0	2	0	1	4	3	1	0	0	0	0	0	0	11
04:00	0	0	1	0	2	3	6	3	0	0	0	0	0	0	15
05:00	0	1	0	3	1	13	14	10	0	0	0	0	0	0	42
06:00	0	0	3	3	37	61	38	4	0	0	0	0	0	0	146
07:00	2	6	9	29	123	160	75	8	2	0	0	0	0	0	414
08:00	37	66	69	166	312	108	13	1	0	0	0	0	0	0	772
09:00	144	120	59	128	193	99	7	0	0	0	0	0	0	0	750
10:00	2	29	14	118	310	172	24	2	0	0	0	0	0	0	671
11:00	13	13	42	108	289	179	16	0	0	0	0	0	0	0	660
12:00	4	9	37	129	285	141	26	2	0	0	0	0	0	2	635
13:00	5	5	30	145	276	144	29	0	0	1	0	0	0	0	635
14:00	6	14	55	166	283	118	15	0	0	0	0	0	1	0	658
15:00	11	34	26	136	295	126	18	2	0	0	0	0	0	0	648
16:00	189	111	90	169	160	38	10	1	0	0	0	0	0	0	768
17:00	11	12	48	175	302	153	6	0	0	0	0	0	0	5	712
18:00	20	25	50	206	323	88	5	2	0	0	0	1	0	0	720
19:00	3	0	13	80	288	163	31	2	0	0	0	0	0	0	580
20:00	3	5	11	80	200	102	24	0	0	0	0	0	0	2	427
21:00	0	0	6	20	152	116	30	1	0	0	0	0	0	0	325
22:00	1	0	2	14	95	94	27	2	0	0	0	0	0	0	235
23:00	0	0	1	12	50	52	12	3	0	0	0	0	0	0	130
24:00	0	0	1	7	27	37	13	2	0	0	0	0	0	0	87
DAY TOTAL	452	450	570	1899	4018	2189	449	48	3	1	0	1	1	9	10090
PERCENTS	4.5%	4.5%	5.6%	18.8%	39.8%	21.7%	4.4%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	100.0%

Statistical Information...

15th Percentile Speed 21.1 mph

Median Speed 27.4 mph

10 MPH Pace Speed 20 mph to 30 mph 4018 vehicles in pace
Representing 41.7% of the total vehicles 85th Percentile Speed 32.9 mph

Average Speed 26.9 mph

SPEED SUMMARY Fri 3/28/2025

Station #: 250010000071 File: D0325010.prn Site ID: 000000001802 City: Salem

Location: Rt.1A/Lafayette St SB, N of Lafayette Pl County: Speed

Direction: SOUTH

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	1	0	1	11	23	15	2	0	0	0	0	0	0	53
02:00	0	0	1	2	4	7	10	2	0	0	0	0	0	0	26
03:00	0	0	0	1	1	5	3	2	0	0	0	0	0	0	12
04:00	0	0	1	4	2	5	2	2	0	1	0	0	0	0	17
05:00	0	1	0	1	4	10	15	6	0	0	0	0	0	0	37
06:00	1	0	0	11	31	64	53	12	0	0	0	0	0	0	172
07:00	8	14	10	25	88	163	60	6	0	0	0	0	0	2	376
08:00	37	42	73	144	264	125	24	0	0	0	0	0	0	1	710
09:00	208	104	84	113	139	69	11	1	0	0	0	0	0	0	729
10:00	10	14	29	131	380	132	25	1	0	0	0	0	0	0	722
11:00	7	12	43	118	273	180	24	0	0	0	0	0	0	4	661
DAY TOTAL PERCENTS	271 7.7%	188 5.3%	241 6.9%	551 15.7%	1197 34.1%	783 22.3%	242 6.9%	34 1.0%	0 0.0%	1 0.0%	0 0.0%	0 0.0%	0 0.0%	7 0.2%	3515 100.0%

Statistical Information...

15th Percentile Speed 20.5 mph

Median Speed 27.7 mph

10 MPH Pace Speed
20 mph to 30 mph

1197 vehicles in pace Representing 37.0% of the total vehicles 85th Percentile Speed 33.7 mph

Page: 4

Average Speed 27.2 mph

SPEED SUMMARY Tue 3/25/2025

STA 24

File: D0325016.prn

City: Salem

County: Speed

Station #: 250010000096 Site ID: 000000002403

Lane: 1

Site ID: 000000002403

Location: Rt.114/Lafayette St EB,W of Rosedale Ave Direction: EAST

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
12:00	6	0	2	17	115	279	110	16	0	1	0	0	3	12	561
13:00	4	0	11	20	122	277	130	7	1	0	0	1	0	14	587
14:00	3	0	5	11	72	266	140	6	0	1	0	2	4	8	518
15:00	7	0	6	14	103	264	166	10	1	0	2	1	3	15	592
16:00	3	0	7	54	165	295	169	4	1	2	0	0	5	12	717
17:00	6	0	4	18	104	275	182	14	1	0	0	4	6	6	620
18:00	5	1	21	39	78	270	149	17	0	0	0	3	6	25	614
19:00	2	0	5	30	71	160	98	13	0	0	0	2	1	3	385
20:00	0	0	0	3	39	140	73	10	0	0	0	0	0	2	267
21:00	0	0	0	0	25	65	53	11	1	0	0	0	2	2	159
22:00	1	0	1	0	13	44	32	1	1	0	0	0	0	1	94
23:00	0	0	0	3	9	16	20	6	0	0	0	0	0	0	54
24:00	0	0	0	0	3	14	13	6	1	0	0	0	0	0	37
DAY TOTAL	37	1	62	209	919	2365	1335	121		4	2	13	30	100	5205
PERCENTS	0.7%	0.0%	1.2%	4.0%	17.7%	45.4%	25.6%	2.3%	0.1%	0.1%	0.0%	0.2%	0.6%	1.9%	100.0%

Statistical Information...

15th Percentile Speed 27.7 mph

Median Speed 32.8 mph

10 MPH Pace Speed 25 mph to 35 mph 2365 vehicles in pace Representing 46.7% of the total vehicles

85th Percentile Speed 37.8 mph

Average Speed 32.9 mph

SPEED SUMMARY Wed 3/26/2025

File: D0325016.prn

City: Salem

County: Speed

Station #: 250010000096 Site ID: 000000002403

Location: Rt.114/Lafayette St EB,W of Rosedale Ave

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	< 50	<55	<60	<65	<70	<120	Total
01:00	0	0	1	0	1	6	4	3	1	0	0	0	0	0	16
02:00	0	0	0	0	0	3	1	2	1	0	0	0	0	0	7
03:00	0	0	0	0	2	2	0	1	0	0	0	0	0	0	5
04:00	0	0	0	2	0	2	3	2	0	1	0	0	0	0	10
05:00	0	0	0	0	1	6	10	6	0	1	0	0	0	0	24
06:00	0	0	0	2	6	36	57	26	5	0	0	0	0	0	132
07:00	0	0	0	2	18	148	147	30	1	0	0	0	0	0	346
08:00	3	1	3	16	122	385	177	11	0	1	0	1	0	2	722
09:00	3	0	8	21	141	394	173	8	1	0	0	2	2	1	754
10:00	2	0	7	27	118	294	125	10	0	0	0	3	0	7	593
11:00	2	0	1	12	84	284	175	5	0	0	0	2	3	5	573
12:00	3	0	1	17	128	239	121	12	1	0	0	2	1	8	533
13:00	5	1	10	20	97	244	139	5	2	0	0	1	2	12	538
14:00	2	1	8	27	103	255	135	15	0	1	0	4	2	5	558
15:00	4	0	11	32	82	295	138	11	0	0	0	6	2	14	595
16:00	6	1	9	20	116	301	153	14	0	0	2	0	5	12	639
17:00	6	0	8	21	125	285	193	15	0	0	0	1	11	14	679
18:00	2	0	4	46	154	275	139	13	0	0	0	2	0	10	645
19:00	0	0	10	21	81	192	124	11	0	0	0	0	0	2	441
20:00	2	0	1	10	49	115	85	5	0	0	0	0	1	3	271
21:00	0	0	0	1	23	76	38	10	1	0	0	0	2	4	155
22:00	0	0	0	1	22	54	48	9	2	0	0	0	0	2	138
23:00	0	0	0	1	2	28	25	8	0	0	0	0	0	0	64
24:00	0	0	0	2	0	14	12	7	1	0	0	0	0	0	36
DAY TOTAL PERCENTS	40 0.5%	4 0.0%	82 1.0%	301 3.6%	1475 17.4%	3933 46.4%	2222 26.2%	239	16 0.2%	4 0.0%	2 0.0%	24 0.3%	31 0.4%	101 1.2%	8474 100.0%

Statistical Information...

15th Percentile Speed 27.9 mph

Median Speed 32.9 mph

10 MPH Pace Speed 25 mph to 35 mph 3933 vehicles in pace
Representing 47.2% of the total vehicles 85th Percentile Speed 37.9 mph

Average Speed 33.0 mph

SPEED SUMMARY Page: 3
Thu 3/27/2025

City: Salem

County: Speed

Station #: 250010000096 File: D0325016.prn

Location: Rt.114/Lafayette St EB,W of Rosedale Ave

Direction: EAST

Site ID: 000000002403

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	0	1	3	5	3	1	0	0	0	0	0	0	13
02:00	0	0	0	0	0	3	8	1	0	0	0	0	0	0	12
03:00	0	0	0	0	0	4	2	0	0	0	0	0	0	0	6
04:00	0	0	0	1	0	0	4	3	0	0	0	0	0	0	8
05:00	0	0	0	1	2	10	11	7	1	0	0	0	0	0	32
06:00	0	0	0	1	5	23	52	12	3	0	0	0	0	0	96
07:00	0	0	1	5	29	135	146	26	1	1	0	0	0	0	344
08:00	0	1	4	26	70	323	267	26	0	0	0	0	0	2	719
09:00	3	0	2	16	135	366	211	12	0	0	0	0	1	4	750
10:00	9	1	6	19	84	249	168	19	0	2	0	1	1	11	570
11:00	1	0	0	14	145	301	131	15	0	0	0	0	0	9	616
12:00	2	0	1	13	126	274	138	11	0	1	0	0	0	8	574
13:00	5	0	4	17	124	259	142	7	0	1	0	2	7	4	572
14:00	3	0	6	28	96	266	111	15	0	0	0	2	8	14	549
15:00	2	0	5	39	110	246	158	17	0	0	0	0	6	6	589
16:00	5	0	11	38	170	324	136	5	0	0	0	4	1	7	701
17:00	5	1	7	33	96	272	170	11	0	0	0	1	6	10	612
18:00	2	0	13	48	104	248	180	21	0	0	0	4	0	20	640
19:00	6	0	7	12	75	211	132	13	3	0	0	5	4	9	477
20:00	0	0	1	8	63	131	74	15	1	0	0	0	0	6	299
21:00	0	0	0	2	22	86	67	8	0	0	2	0	0	2	189
22:00	0	0	2	2	16	69	35	11	0	0	0	0	0	0	135
23:00	0	0	0	2	19	21	29	5	1	0	0	0	0	0	77
24:00	0	0	0	0	7	16	21	5	1	0	0	0	0	0	50
DAY TOTAL	43	3	70	326	1501	3842	2396	266	11	5	2	19	34	112	8630
PERCENTS	0.5%	0.0%	0.8%	3.8%	17.4%	44.5%	21.8%	3.1%	0.1%	0.1%	0.0%	0.2%	0.4%	1.3%	100.0%

Statistical Information...

15th Percentile Speed 27.9 mph

Median Speed 33.1 mph

10 MPH Pace Speed
25 mph to 35 mph
3842 vehicles in pace
Representing 45.3% of the total vehicles

85th Percentile Speed 38.1 mph

Average Speed 33.1 mph

SPEED SUMMARY Page: 4
Fri 3/28/2025

County: Speed

Station #: 250010000096 File: D0325016.prn Site ID: 000000002403 City: Salem

Location: Rt.114/Lafayette St EB,W of Rosedale Ave

Direction: EAST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	0	0	3	13	8	3	0	1	0	0	0	0	28
02:00	0	0	0	0	1	4	6	1	1	1	0	0	0	1	15
03:00	0	0	0	0	0	1	5	1	0	0	0	0	0	0	7
04:00	0	0	0	0	4	1	2	0	0	0	0	0	0	0	7
05:00	0	0	0	0	0	4	14	8	0	0	0	0	0	0	26
06:00	0	0	0	1	3	19	42	30	9	0	0	0	0	0	104
07:00	0	0	0	0	33	147	125	34	1	0	0	0	0	2	342
08:00	1	0	7	27	105	352	191	14	2	0	0	0	2	3	704
09:00	3	0	0	27	147	298	160	13	0	0	1	1	0	9	659
10:00	2	0	0	7	75	374	178	13	0	0	0	2	4	14	669
DAY TOTAL PERCENTS	6 0.2%	0	7 0.3%	62 2.4%	371 14.5%	1213 47.4%	731 28.5%	117 4.6%	13 0.5%	2 0.1%	1 0.0%	3 0.1%	6 0.2%	29 1.1%	2561 100.0%

Statistical Information...

15th Percentile Speed 29.2 mph

Median Speed 33.4 mph

10 MPH Pace Speed
25 mph to 35 mph
1213 vehicles in pace
Representing 48.0% of the total vehicles

85th Percentile Speed 38.4 mph

Average Speed 33.6 mph

SPEED SUMMARY Tue 3/25/2025

STA 24

Station #: 250010000045 Site ID: 000000002404

Site ID: 000000002404 Location: Rt.114/Lafayette St WB,W of Rosedale Ave

Direction: WEST

Lane: 1

22:00

23:00 24:00

TIME <10 <15 <20 <25 <30 <35 <40 <45 <50 <55 <60 <65 <70 <120 Total

 201
 142
 34
 4
 0
 0
 0
 0
 505

 247
 183
 40
 4
 0
 0
 0
 0
 0
 609

 201
 154
 30
 4
 1
 0
 0
 0
 0
 519

 206
 197
 54
 2
 1
 0
 0
 0
 0
 586

 254
 231
 40
 6
 0
 0
 0
 0
 0
 678

 285
 275
 58
 4
 0
 0
 0
 0
 0
 763

 267
 240
 50
 3
 0
 0
 0
 0
 0
 735

 192
 179
 41
 1
 0
 0
 0
 0
 0
 562

 111
 122
 30
 3
 0
 0
 0
 0
 332

 101
 118
 14
 3
 1
 0
 0
 0
 0
 263

 59
 70
 18
 2
 0
 0 7 1 7 32 8 11 13 24 12 6 15 19 8 4 11 32 16 12 17 22 12 14 16 22 17 13 15 31 77 201 142 12:00 13:00 79 79 77 14:00 71 206 197 54 32 15:00 80 77 22 16:00 17:00 99 267 240 50 31 18:00 19:00 14 3 0 20:00 21:00

______ DAY TOTAL 97 83 114 256 687 2153 1979 437 42 3 2 1 0 0 5854 PERCENTS 1.7% 1.4% 1.9% 4.4% 11.7% 36.8% 33.8% 7.5% 0.7% 0.1% 0.0% 0.0% 0.0% 0.0% 100.0% PERCENTS

Statistical Information...

15th Percentile Speed 28.0 mph

0

0

0

Median Speed 34.0 mph

10 MPH Pace Speed 25 mph to 35 mph 2153 vehicles in pace Representing 37.4% of the total vehicles 85th Percentile Speed 39.1 mph

Average Speed 33.5 mph

File: D0325018.prn

City: Salem

County: Speed

File: D0325018.prn

City: Salem

County: Speed

SPEED SUMMARY Wed 3/26/2025

Station #: 250010000045 Site ID: 000000002404

Location: Rt.114/Lafayette St WB,W of Rosedale Ave

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	<45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	1	0	1	3	6	8	1	0	0	1	0	1	22
02:00	0	0	0	0	0	4	2	4	0	0	0	0	0	0	10
03:00	0	0	0	0	1	1	0	3	1	0	0	0	0	0	6
04:00	0	0	0	0	2	1	5	3	0	0	0	0	0	0	11
05:00	0	0	0	0	2	2	10	3	0	0	0	0	0	0	17
06:00	0	1	0	1	3	10	28	18	1	1	0	0	0	0	63
07:00	0	0	0	0	22	66	122	40	3	0	1	0	0	0	254
08:00	4	6	6	27	90	206	245	43	6	0	0	0	0	0	633
09:00	7	3	7	14	48	196	220	52	8	0	1	0	0	0	556
10:00	6	1	5	14	51	205	210	39	5	1	0	0	0	0	537
11:00	4	2	8	27	40	175	182	33	2	0	0	0	0	0	473
12:00	10	2	12	18	72	197	183	39	4	1	1	0	0	0	539
13:00	9	5	11	24	59	168	185	39	4	1	0	0	0	0	505
14:00	11	7	2	17	70	211	181	27	1	0	0	0	0	0	527
15:00	21	11	19	25	91	223	161	43	4	1	0	0	0	0	599
16:00	29	13	24	41	81	244	236	36	4	0	0	0	0	0	708
17:00	15	8	19	36	78	262	257	39	3	1	0	0	0	0	718
18:00	10	15	27	32	73	258	280	39	0	1	0	0	0	0	735
19:00	13	9	9	35	49	194	176	46	4	0	0	0	0	0	535
20:00	1	4	3	6	29	156	153	31	4	0	1	0	0	0	388
21:00	0	0	0	1	24	123	154	30	0	0	0	0	0	0	332
22:00	0	0	0	1	20	60	87	38	1	0	0	0	0	0	207
23:00	0	0	0	1	7	24	42	21	3	0	0	1	0	0	99
24:00	0	0	1	1	1	14	25	13	5	1	0	0	0	0	61
DAY TOTAL	140	87	154	321	914	3003	3150	687	64	8	4	2	0	1	8535
PERCENTS	1.6%	1.0%	1.8%	3.8%	10.7%	35.2%	36.9%	8.0%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 28.8 mph

Median Speed 34.5 mph

10 MPH Pace Speed 30 mph to 40 mph 3150 vehicles in pace
Representing 37.5% of the total vehicles 85th Percentile Speed 39.2 mph

Average Speed 33.9 mph

SPEED SUMMARY Page: 3 Thu 3/27/2025

Station #: 250010000045 File: D0325018.prn Site ID: 000000002404 City: Salem County: Speed

Location: Rt.114/Lafayette St WB,W of Rosedale Ave

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	< 40	< 45	<50	<55	<60	<65	<70	<120	Total
0.1							•						•		0.0
01:00	1	0	0	1	2	4	8	4	2	1	0	0	0	0	23
02:00	0	0	0	0	0	2	3	3	0	0	0	0	0	0	8
03:00	0	0	0	0	1	0	2	4	3	0	0	0	0	0	10
04:00	0	0	0	0	Ţ	2	3	4	1	0	0	0	0	0	11
05:00	0	Ι	0	0	3	2	5	4	0	0	0	0	0	0	15
06:00	0	0	1	0	3	16	24	9	3	0	0	0	0	0	56
07:00	1	2	0	5	15	77	89	39	10	0	0	0	0	0	238
08:00	6	4	14	26	59	207	227	58	13	1	0	0	0	0	615
09:00	7	3	2	25	38	157	211	75	7	0	0	0	0	0	525
10:00	4	0	6	8	62	173	181	51	4	0	1	0	0	0	490
11:00	8	2	0	7	57	189	179	44	4	1	Ι	0	0	0	492
12:00	5	8	4	10	51	195	183	44	6	0	0	0	0	0	506
13:00	4	3	11	33	88	210	201	34	3	0	Ι	0	0	0	588
14:00	15	5	9	14	57	192	199	34	7	0	0	0	0	0	532
15:00	12	8	10	33	8 4	203	199	43	6	0	0	0	0	0	598
16:00	18	5	12	22	95	215	229	49	1	2	0	0	0	0	648
17:00	30	20	39	28	83	267	220	59	3	2	0	0	0	0	751
18:00	32	18	28	55	98	228	197	51	9	0	0	0	0	0	716
19:00	6	1	7	9	43	187	229	46	4	0	0	0	0	0	532
20:00	4	0	2	26	53	149	133	33	1	0	0	0	0	0	401
21:00	0	0	0	1	10	110	142	26	5	1	2	0	0	0	297
22:00	0	0	0	4	28	73	93	25	6	1	0	1	0	0	231
23:00	0	0	0	1	4	27	69	22	3	0	0	0	0	0	126
24:00	0	0	0	3	3	21	21	10	2	0	0	0	1	0	61
DAY TOTAL	153	80	145	311	938	2906	3047	771	103	9	5	1	1	0	8470
PERCENTS	1.8%	0.9%	1.7%	3.7%	11.1%	34.3%	36.0%	9.1%	1.2%	0.1%	0.1%	0.0%	0.0%	0.0%	100.0%

Statistical Information...

15th Percentile Speed 28.8 mph

Median Speed 34.6 mph

10 MPH Pace Speed 30 mph to 40 mph 3047 vehicles in pace Representing 36.6% of the total vehicles 85th Percentile Speed 39.4 mph

Average Speed 34.1 mph

SPEED SUMMARY Fri 3/28/2025

Station #: 250010000045 File: D0325018.prn
Site ID: 000000002404 City: Salem
Location: Rt.114/Lafayette St WB,W of Rosedale Ave County: Speed

Direction: WEST

Lane: 1

TIME	<10	<15	<20	<25	<30	<35	<40	< 45	<50	<55	<60	<65	<70	<120	Total
01:00	0	0	0	3	4	7	13	4	2	0	0	0	1	0	34
02:00	0	0	0	0	0	1	11	2	0	0	1	0	0	1	16
03:00	0	0	0	0	0	1	2	4	1	0	0	1	0	0	9
04:00	0	0	0	0	0	3	5	3	0	2	0	0	0	0	13
05:00	0	0	0	0	0	5	3	4	1	0	0	0	0	0	13
06:00	0	0	1	1	1	10	22	13	1	0	0	0	0	0	49
07:00	4	0	0	1	22	74	113	34	8	2	1	0	0	0	259
08:00	7	12	17	21	77	209	249	45	3	0	0	0	0	0	640
09:00	8	0	4	12	71	194	223	38	8	1	0	0	0	0	559
10:00	4	2	2	5	27	135	209	61	11	0	0	0	0	0	456
DAY TOTAL PERCENTS	23 1.1%	14 0.7%	24 1.2%	43 2.1%	202 9.9%	639 31.2%	850 41.5%	208 10.2%	35 1.7%	5 0.2%	2 0.1%	1 0.0%	1 0.0%	1 0.0%	2048 100.0%

Statistical Information...

15th Percentile Speed 30.2 mph

Median Speed 35.5 mph

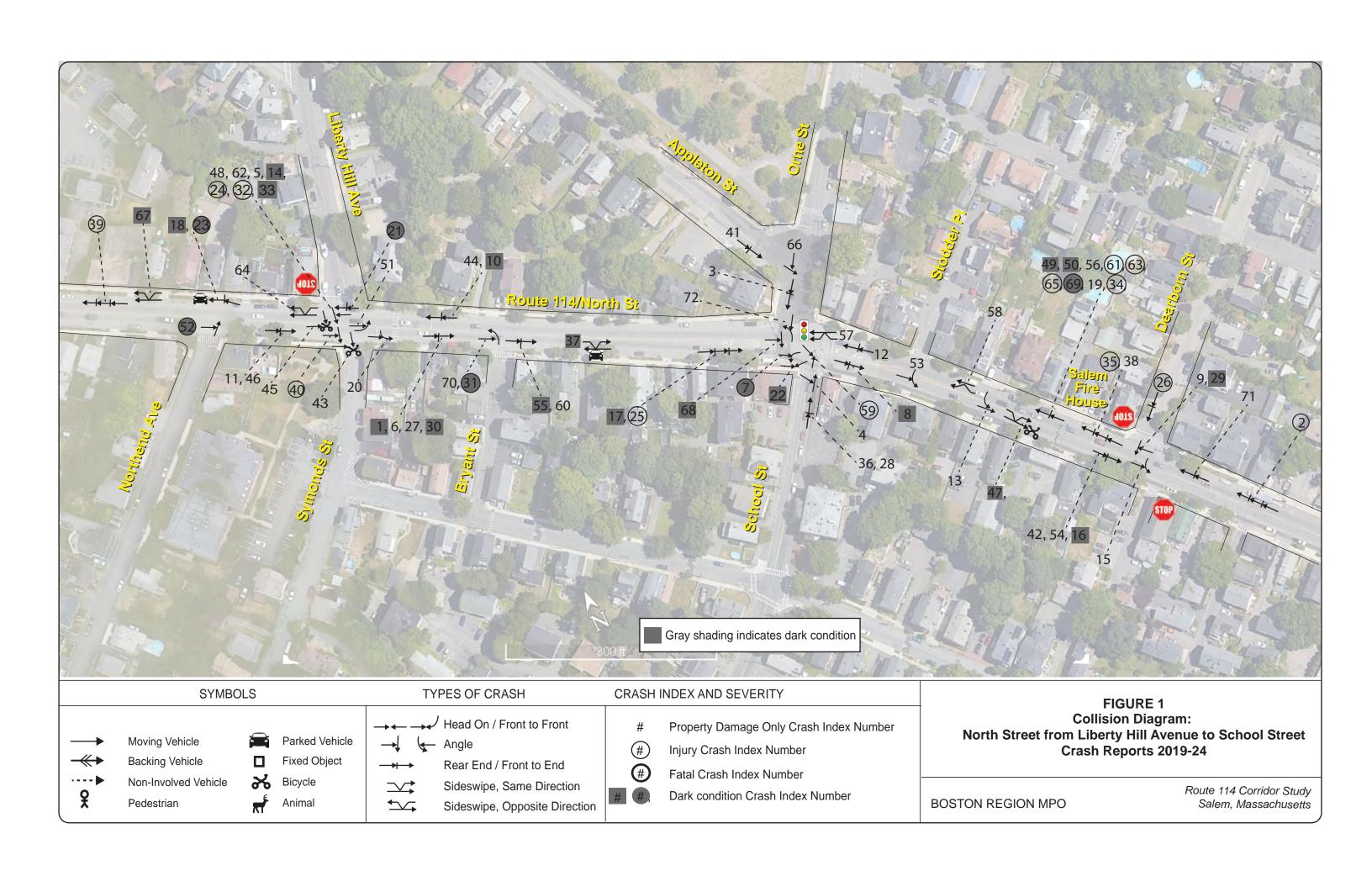
10 MPH Pace Speed
30 mph to 40 mph
850 vehicles in pace
Representing 42.0% of the total vehicles

85th Percentile Speed 39.7 mph

Page: 4

Average Speed 35.0 mph

Appendix C Traffic Safety Data



Collision Diagram North Street from Liberty Hill Avenue to School Street: Crash Reports 2019-24

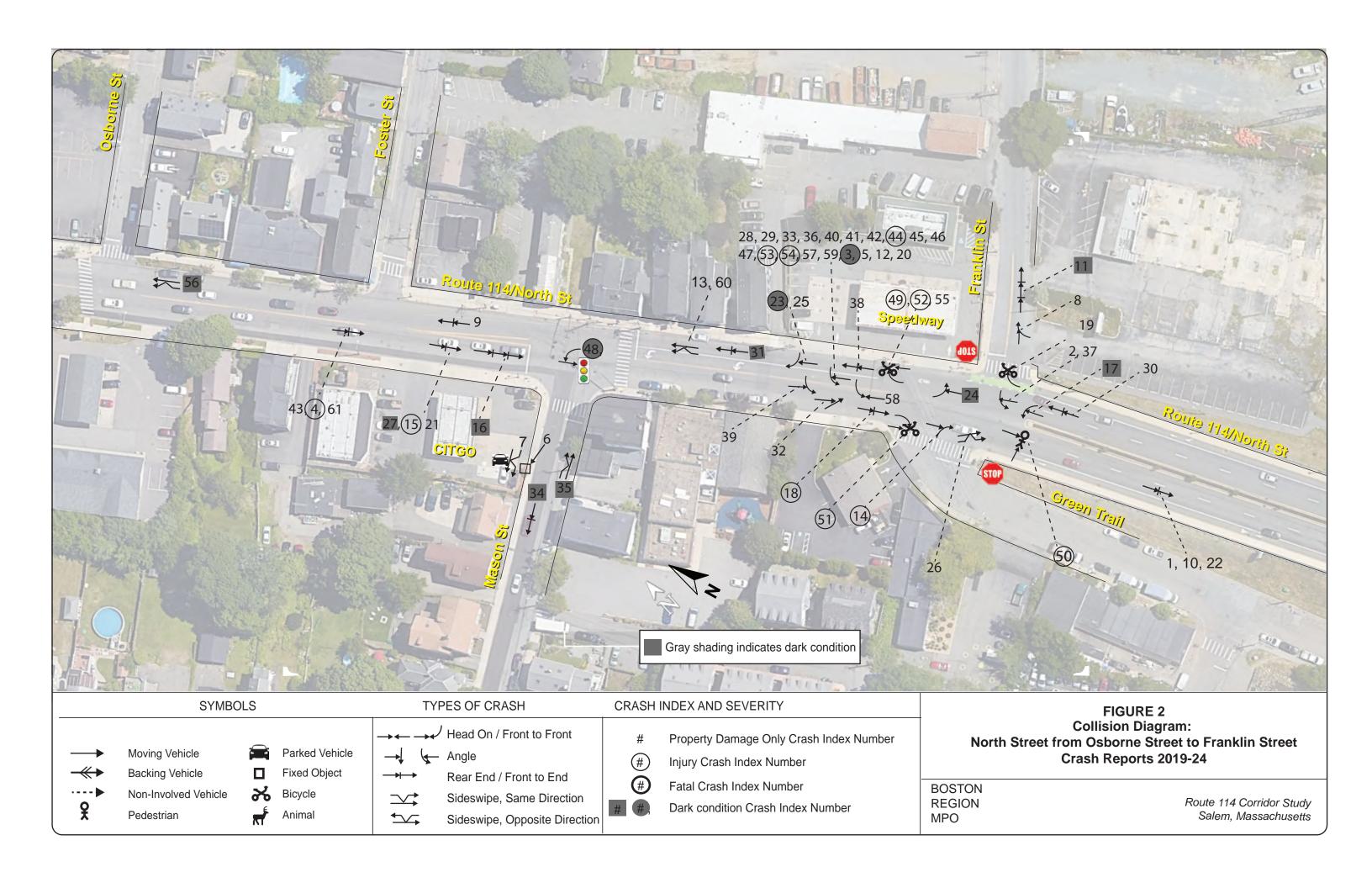
REFERENCE	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4649970	01/12/2019 Property damage only		Rear-end	Dark - lighted roadway	Clear/Clear	Dry
2	4651130	01/14/2019 Non-fatal injury	Non-fatal injury - Possible	Rear-end	Daylight	Clear/Clear	Dry
3	4665031	02/16/2019 Property damage only	<u> </u>	Rear-end	Daylight	Clear/Reported bu	,
4	4674727	03/11/2019 Property damage only		Angle	Daylight	Other/Other	Ice
5	4687856	04/05/2019 Property damage only	No injury	Angle	Daylight	Clear/Clear	Dry
6	4686078	04/07/2019 Property damage only	No injury	Rear-end	Daylight	Clear/Clear	Dry
7	4689569	04/16/2019 Unknown	Non-fatal injury - Possible	Angle	Dark - lighted roadway	Clear/Clear	Dry
8	4692145	04/22/2019 Property damage only	No injury	Rear-end	Dark - lighted roadway	Rain/Rain	Wet
9	4695218	04/29/2019 Property damage only	No injury	Angle	Daylight	Clear/Clear	Dry
10	4714106	06/18/2019 Property damage only	No injury	Rear-end	Dusk	Clear/Clear	Dry
11	4726173	07/01/2019 Property damage only	No injury	Rear-end	Daylight	Clear/Clear	
12	4722626	07/10/2019 Property damage only	No injury	Rear-end	Daylight	Clear/Clear	Dry
13	4723981	07/15/2019 Property damage only	No injury	Angle	Daylight	Clear/Clear	
14	4729546	07/27/2019 Property damage only	No injury	Angle	Dark - lighted roadway	Clear/Clear	
15	4730064	07/29/2019 Property damage only	No injury	Angle	Daylight	Clear/Clear	
16	4746346	09/03/2019 Property damage only	No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
17	4752535	09/23/2019 Property damage only	No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
18	4754677	09/29/2019 Property damage only	No Apparent Injury (O)	Front to Real	r Dark - lighted roadway	Clear/Clear	Dry
19	4762549	10/15/2019 Property damage only	No Apparent Injury (O)	Front to Real	r Daylight	Cloudy/Clear	Dry
20	4768657	10/31/2019 Property damage only	No Apparent Injury (O)	Angle	Daylight	Rain/Rain	Wet
21	4781446	11/29/2019 Non-fatal injury	Suspected Minor Injury (B)	Front to Real	r Dark - lighted roadway	Clear/Clear	Dry
22	4787997	12/13/2019 Property damage only	No Apparent Injury (O)	Head-on	Dark - lighted roadway	Rain/Rain	Wet
23	4820013	02/23/2020 Non-fatal injury	Suspected Minor Injury (B)	Front to Real	r Dark - lighted roadway	Clear/Clear	Dry
24	4820655	02/24/2020 Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Clear/Clear	Dry
25	4844798	05/12/2020 Non-fatal injury	Possible Injury (C)	Rear-end	Daylight	Clear/Clear	Dry
26	4848893	06/03/2020 Non-fatal injury	Possible Injury (C)	Front to Rea	r Daylight	Clear/Clear	Dry
27	4862424	07/24/2020 Unknown	Unknown	Front to Real	r Daylight	Clear/Clear	Dry
28	4864441	07/29/2020 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
29	4869919	08/13/2020 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
30	4887527	10/18/2020 Property damage only	No Apparent Injury (O)	Front to Real	r Dark - lighted roadway	Clear/Clear	Dry

Collision Diagram North Street from Liberty Hill Avenue to School Street: Crash Reports 2019-24

31	REFERENCE ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
33 4907292 12/11/2020 Property damage only No Apparent Injury (O) Angle Dark- lighted roadway Clear/Clear Dry 34 4907873 12/13/2020 Non-fatal injury Suspected Minor Injury (B) Front to Rear Daylight Cloudy/Clear Dry 35 4910455 12/20/2020 Non-fatal injury Suspected Minor Injury (B) Front to Rear Daylight Cloudy/Clear Dry 36 4928168 02/07/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Snow/Snow Snow 37 4938033 02/25/2021 Property damage only No Apparent Injury (O) Sideswipe, cp Dark - lighted roadway Clear/Clear Dry 38 4823012 02/27/2020 Property damage only No Apparent Injury (O) Front to Rear Daylight Rain/Rain Wet 39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4946377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 44 4964261 05/19/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 48 5068463 10/30/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 50 5068568 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 51 5068686 10/30/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 52 5068688 01/20/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 53 5068385 01/20/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 54 5072645 02/21/2	31	4889604	10/24/2020 Non-fatal injury	Possible Injury (C)	Angle	Dark - lighted roadway	Clear/Clear	Dry
34 4907873 12/13/2020 Non-fatal injury Suspected Minor Injury (B) Front to Rear Daylight Cloudy/Clear Dry 35 4910455 12/20/2020 Non-fatal injury Suspected Minor Injury (B) Front to Rear Daylight Rain/Rain Wet 36 4928168 02/07/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Snow/Snow Snow 37 4936023 02/25/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Rain/Rain Wet 39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-e	32	4889606	10/25/2020 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
35 4910455 12/20/2020 Non-fatal injury Suspected Minor Injury (B) Front to Rear Daylight Raim/Raim Wet 36 4928168 02/07/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Snow/Snow Snow 37 4936023 02/25/2021 Property damage only No Apparent Injury (O) Sideswipe, or Dark - lighted roadway Clear/Clear Dry 38 4823012 02/27/2020 Property damage only No Apparent Injury (O) Front to Rear Daylight Raim/Raim Wet 39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 46 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 48 5068481 10/31/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Raim/Raim Wet 5068588 10/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 51 50685786 01/14/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 52 5068588 01/20/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 53 5068385	33	4907292	12/11/2020 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
36 4928168 02/07/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Snow/Snow Snow 37 4936023 02/25/2021 Property damage only No Apparent Injury (O) Sideswipe, or Dark - lighted roadway Clear/Clear Dry 38 4823012 02/27/2020 Property damage only No Apparent Injury (O) Front to Rear Daylight Rain/Rain Wet 39 4940900 03/16/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 494537 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 50508366 10/30/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 50508366 10/30/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 50508368 10/31/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 50508368 10/31/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 50508368 10/31/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 50508368 10/31/2021 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51508688 10/31/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51508688 10/31/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 51508688 10/31/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 51508688 10/31/2022 Property damage only No App	34	4907873	12/13/2020 Non-fatal injury	Suspected Minor Injury (B)	Front to Rea	r Daylight	Cloudy/Clear	Dry
37 4936023 02/25/2021 Property damage only No Apparent Injury (O) Sideswipe, or Dark - lighted roadway Clear/Clear Dry 38 4823012 02/27/2020 Property damage only No Apparent Injury (O) Front to Rear Daylight Rain/Rain Wet 39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 495930 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 496461 05/18/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 48 5068368 10/31/2021 Property damage only No Apparent Injury (O) Sideswipe, sc Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 52 5068588 01/20/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 53 5068586 01/20/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5066161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage	35	4910455	12/20/2020 Non-fatal injury	Suspected Minor Injury (B)	Front to Rea	r Daylight	Rain/Rain	Wet
38 4823012 02/27/2020 Property damage only No Apparent Injury (O) Front to Rear Daylight Rain/Rain Wet 39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, sa Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 51 5068568 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 52 5068588 01/20/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 50686161 03/26/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 509046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property d	36	4928168	02/07/2021 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Snow/Snow	Snow
39 4940900 03/15/2021 Non-fatal injury Possible Injury (C) Front to Rear Daylight Clear/Clear Dry 40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 44 4964281 05/18/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5065756 08/15/2021 Property damage only No Apparent Injury (O) Sideswipe, se Dark - lighted roadway Rain/Rain Wet 48 5068368	37	4936023	02/25/2021 Property damage only	No Apparent Injury (O)	Sideswipe, o	r Dark - lighted roadway	Clear/Clear	Dry
40 4942334 03/19/2021 Non-fatal injury Possible Injury (C) Angle Daylight Clear Dry 41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, se Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 51 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 52 5068568 01/20/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 53 5068368 01/20/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (O) Front to Front Daylight Clea	38	4823012	02/27/2020 Property damage only	No Apparent Injury (O)	Front to Rea	r Daylight	Rain/Rain	Wet
41 4946869 03/26/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, s≳ Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (O) Angle Daylight Clear/Clear Dry 53 5068386 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (O) Front to Front Daylight Clear/Clear Dry	39	4940900	03/15/2021 Non-fatal injury	Possible Injury (C)	Front to Rea	r Daylight	Clear/Clear	Dry
42 4945377 03/27/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, se Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, se Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (O) Sideswipe, se Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (O) Front to Front Daylight Clear/Clear Dry	40	4942334	03/19/2021 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear	Dry
43 4959307 05/10/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, sa Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	41	4946869	03/26/2021 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
44 4964261 05/18/2021 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, sa Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (O) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear Dry	42	4945377	03/27/2021 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
45 4963707 05/20/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, sa Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (O) Front to Front Daylight Clear/Clear Dry	43	4959307	05/10/2021 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
46 5055756 08/15/2021 Property damage only No Apparent Injury (O) Front to Rear Daylight Clear/Clear Dry 47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, sa Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 51 5068766 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	44	4964261	05/18/2021 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
47 5068366 10/30/2021 Property damage only No Apparent Injury (O) Sideswipe, se Dark - lighted roadway Rain/Rain Wet 48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Daylight Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, se Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, se Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	45	4963707	05/20/2021 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
48 5068348 10/31/2021 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Wet 49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Dark - lighted roadway Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	46	5055756	08/15/2021 Property damage only	No Apparent Injury (O)	Front to Rea	r Daylight	Clear/Clear	Dry
49 5068453 12/20/2021 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear Dry 50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Dark - lighted roadway Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	47	5068366	10/30/2021 Property damage only	No Apparent Injury (O)	Sideswipe, s	a Dark - lighted roadway	Rain/Rain	Wet
50 5068576 01/10/2022 Property damage only No Apparent Injury (O) Rear-end Dawn Clear/Clear Dry 51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Dark - lighted roadway Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	48	5068348	10/31/2021 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Wet
51 5068786 01/14/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Dark - lighted roadway Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	49	5068453	12/20/2021 Property damage only	No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear	Dry
52 5068588 01/20/2022 Non-fatal injury Possible Injury (C) Angle Dark - lighted roadway Clear/Clear Dry 53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	50	5068576	01/10/2022 Property damage only	No Apparent Injury (O)	Rear-end	Dawn	Clear/Clear	Dry
53 5068385 01/23/2022 Property damage only No Apparent Injury (O) Angle Daylight Clear/Clear Dry 54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	51	5068786	01/14/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
54 5072645 02/21/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry 55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	52	5068588	01/20/2022 Non-fatal injury	Possible Injury (C)	Angle	Dark - lighted roadway	Clear/Clear	Dry
55 5086161 03/29/2022 Property damage only No Apparent Injury (O) Rear-end Dark - lighted roadway Clear/Clear Dry 56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	53	5068385	01/23/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
56 5090046 04/06/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Rain/Rain Wet 57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	54	5072645	02/21/2022 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
57 5113311 06/10/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear/Clear Dry 58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	55	5086161	03/29/2022 Property damage only	No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
58 5130350 06/18/2022 Property damage only No Apparent Injury (O) Sideswipe, sa Daylight Clear Dry 59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	56	5090046	04/06/2022 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Rain/Rain	Wet
59 5142569 08/25/2022 Non-fatal injury Possible Injury (C) Front to Front Daylight Clear/Clear Dry	57	5113311	06/10/2022 Property damage only	No Apparent Injury (O)	Sideswipe, s	a Daylight	Clear/Clear	Dry
	58	5130350	06/18/2022 Property damage only	No Apparent Injury (O)	Sideswipe, s	a Daylight	Clear	Dry
60 5156752 09/27/2022 Property damage only No Apparent Injury (O) Rear-end Daylight Clear/Clear Dry	59	5142569	08/25/2022 Non-fatal injury	Possible Injury (C)	Front to Fron	t Daylight	Clear/Clear	Dry
	60	5156752	09/27/2022 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry

Collision Diagram North Street from Liberty Hill Avenue to School Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
61	5156113	09/29/2022 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
62	5174195	11/10/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
63	5201130	01/11/2023 Non-fatal injury	Possible Injury (C)	Rear-end	Daylight	Clear/Clear	Dry
64	5249453	04/14/2023 Property damage only	Unknown	Sideswipe, sa	Daylight	Clear/Clear	Dry
65	5245605	04/21/2023 Non-fatal injury	Suspected Minor Injury (B)	Front to Rear	Daylight	Clear/Clear	Dry
66	5274802	07/12/2023 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
67	5323916	09/21/2023 Unknown	Not reported	Sideswipe, sa	Dark - lighted roadway	Clear/Clear	Dry
68	5327378	11/28/2023 Property damage only	Unknown	Angle	Dark - lighted roadway	Clear/Clear	Dry
69	5333571	12/08/2023 Non-fatal injury	Possible Injury (C)	Rear-end	Dark - lighted roadway	Clear	Dry
70	5347819	01/12/2024 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
71	5386428	04/24/2024 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
72	5422748	08/06/2024 Unknown	Unknown	Angle	Daylight	Clear/Clear	Dry

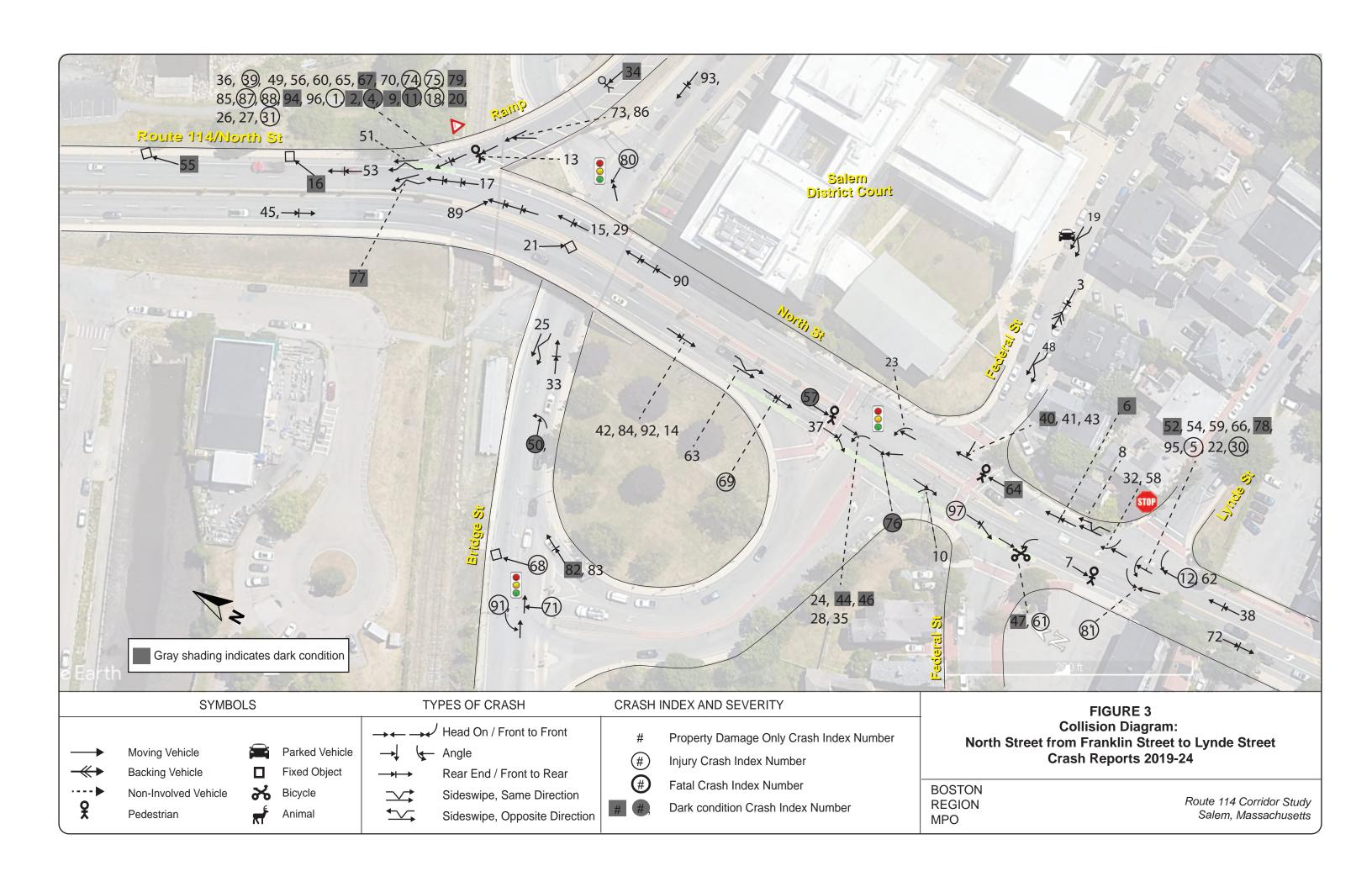


Collision Diagram North Street from Osborne Street to Franklin Street: Crash Reports 2019-24

	CRASH						
ERENCE ID	NUMBER CRASH DATE	CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION		WEATHER CONDITION	ROAD SURFURE
1	4657987 01/28/2019	Property damage only		Rear-end	Daylight	Clear/Clear	Dry
2	4657398 01/30/2019	Property damage only		Angle	Daylight	Clear/Clear	Dry
3	4665254 02/19/2019	Non-fatal injury	Non-fatal injury - Possible	Angle	Dark - lighted road		Dry
4	4689047 04/05/2019	Non-fatal injury	Non-fatal injury - Non-incapacitating	Rear-end	Daylight	Clear/Clear	Dry
5	4695305 04/29/2019	Property damage only	No injury	Angle	Daylight	Clear/Clear	Dry
6	4695884 05/01/2019	Property damage only	No injury	Single vehicle crash	Daylight	Clear/Clear	Dry
7	4699081 05/11/2019	Property damage only	No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
8	4735942 08/12/2019	Property damage only	No injury	Angle	Daylight	Clear/Reported but invalid	Dry
9	4760261 10/08/2019		No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
10	4772479 11/08/2019	Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
11	4815717 02/10/2020		No Apparent Injury (O)	Front to Rear	Dark - lighted road	v Cloudy/Cloudy	Dry
12	4817811 02/12/2020	Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
13	4828557 03/13/2020	Property damage only	No Apparent Injury (O)	Sideswipe, same direction	Daylight	Rain/Rain	Wet
14	4854903 07/01/2020	Property damage only	No Apparent Injury (O)	Angle	Daylight	Cloudy/Cloudy	Other
15	4864114 07/18/2020	Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
16	4868430 08/11/2020	Property damage only	No Apparent Injury (O)	Front to Rear	Dark - lighted road	v Clear/Clear	Dry
17	4877025 09/12/2020	Property damage only	No Apparent Injury (O)	Angle	Dark - lighted road	v Clear/Clear	Dry
18	4878727 09/15/2020	Non-fatal injury	Suspected Minor Injury (B)	Front to Rear	Daylight	Clear/Clear	Dry
19	4885465 10/09/2020	Property damage only	No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
20	4885432 10/10/2020		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
21	4893672 10/12/2020		No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
22	4889602 10/23/2020	. , , ,	No Apparent Injury (O)	Rear-end	Daylight	Clear/Cloudy	Dry
23	4900946 11/24/2020	Non-fatal injury	Possible Injury (C)	Angle	Dark - lighted road	-	Dry
24	4906649 12/09/2020	, ,	No Apparent Injury (O)	Angle	Dark - lighted road		Dry
25	4927750 02/05/2021		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
26	4929148 02/10/2021		No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
27	4931907 02/16/2021		No Apparent Injury (O)	Rear-end	Dark - lighted road		Wet
28	4967401 06/01/2021		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
29	4969864 06/04/2021		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
30	4969865 06/04/2021		No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
31	5068379 12/14/2021		No Apparent Injury (O)	Front to Rear	Dusk	Clear	Dry
32	5068362 01/20/2022		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
33	5068424 02/01/2022		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
34	5087975 04/02/2022	<u> </u>	No Apparent Injury (O)	Rear-end	Dark - lighted road		Dry
35	5096010 04/24/2022		No Apparent Injury (O)	Sideswipe, same direction	Dark - lighted road		Dry
36	5122446 07/06/2022	<u> </u>	No Apparent Injury (O)	Angle	Daylight Daylight	Clear/Clear	Dry
37	5183816 12/05/2022		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
38	5189900 12/17/2022	<u> </u>	No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
39	5207964 01/15/2023		No Apparent Injury (O)		Daylight	Snow/Snow	Snow
	5259289 05/09/2023		11 1 (0)	Angle		01 (01	_
40 41	5260187 05/30/2023		No Apparent Injury (O)	Angle Angle	Daylight	Clear/Clear Clear/Clear	Dry
			No Apparent Injury (O)	<u> </u>	Daylight		•
42	5261169 06/02/2023		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
43	5262314 06/03/2023		No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
44	5270028 06/23/2023	Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Clear	Dry
45	5323824 08/04/2023		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
46	5323897 08/21/2023		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
47	5323924 09/01/2023		No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
48	5323886 09/15/2023	Non-fatal injury	Suspected Minor Injury (B)	Unknown	Dark - lighted road		Dry
49	5323896 09/21/2023	Non-fatal injury	Suspected Minor Injury (B)	Unknown	Daylight	Clear/Clear	Dry

North Street from Osbourne Street to Franklin Street: Crash Reports 2019-24

	CRASH						
FERENCE ID	NUMBER CRASH DATE	CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
50	5323934 10/09/2023	Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Clear/Clear	Dry
51	5380276 04/05/2024	Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Wet
52	5387300 04/30/2024	Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear	Dry
53	5398559 05/30/2024	Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Wet
54	5398583 05/31/2024	Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Clear/Clear	Dry
55	5401852 06/08/2024	Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
56	5412874 07/07/2024	Unknown	Unknown	Sideswipe, same direction	Dark - lighted road	v Clear/Clear	Dry
57	5420612 07/10/2024	Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
58	5424534 08/12/2024	Property damage only	Unknown	Front to Front	Daylight	Clear/Clear	Dry
59	5431902 08/29/2024	Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
60	5434585 09/06/2024	Property damage only	No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry



North Street from Franklin Street to Lynde Street: Crash Reports 2019-24

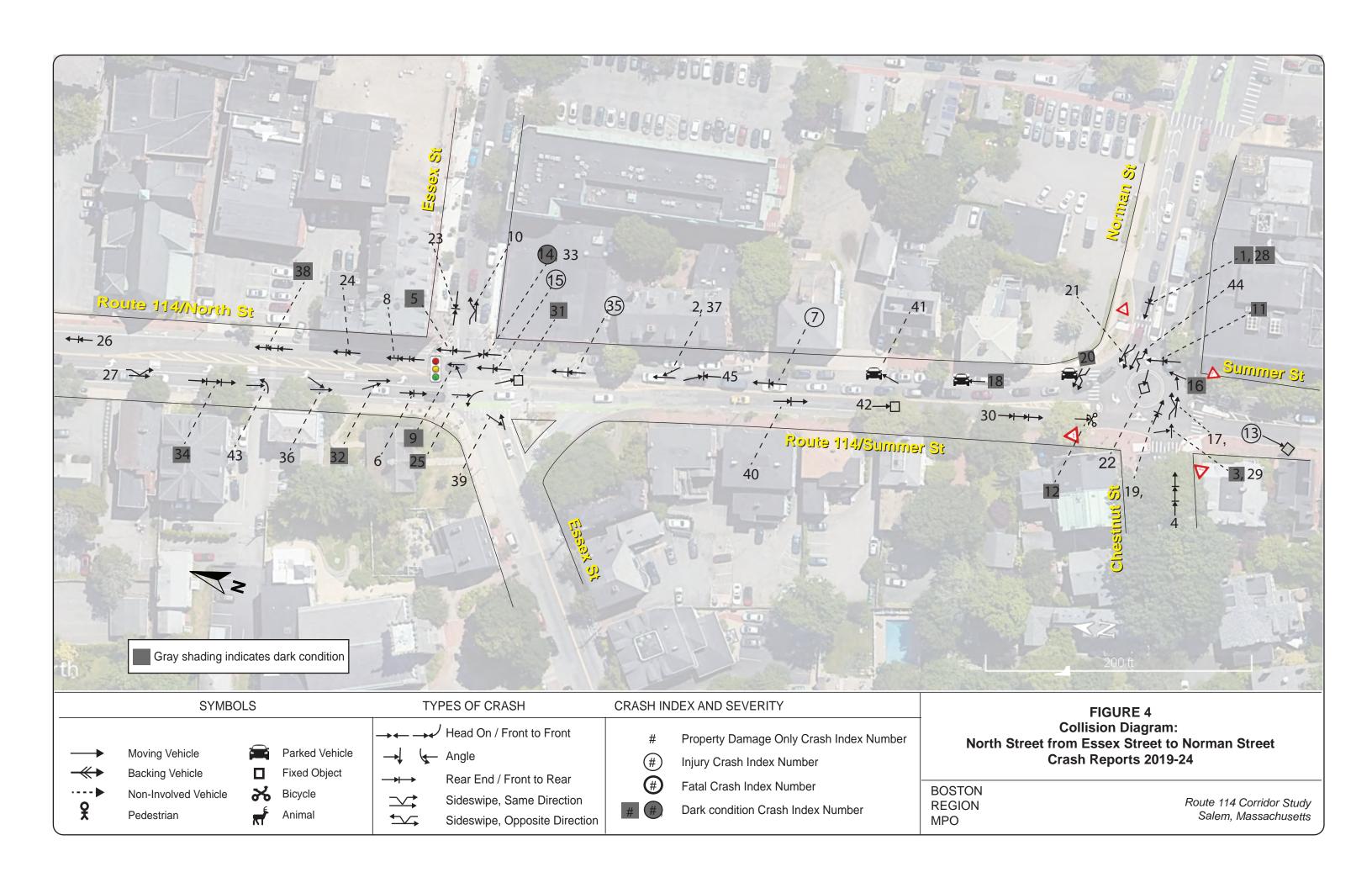
REFERENCE ID CRAS	SH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSIC	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4651489	01/16/2019 Non-fatal injury	Non-fatal injury - Possible	Rear-end	Daylight	Clear/Clear	Dry
2	4651491	01/16/2019 Property damage only	No injury	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
3	4670839	02/27/2019 Property damage only		Rear-end	Daylight	Clear/Clear	Dry
4	4676484	03/17/2019 Non-fatal injury	Non-fatal injury - Possible		Dark - lighted roadway	Clear/Clear	Dry
5	4678793	03/21/2019 Non-fatal injury	Non-fatal injury - Possible	Angle	Daylight	Clear/Clear	Dry
6	4687857	04/10/2019 Property damage only	No injury	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
7	4688946	04/12/2019 Property damage only	No injury	Single vehicle crash	Daylight	Cloudy/Cloudy	Dry
8	4692640	04/23/2019 Property damage only		Sideswipe, same direct	i Daylight	Rain/Cloudy	Wet
9	4707499	05/30/2019 Property damage only	No injury	Rear-end	Dawn	Clear/Clear	Dry
10	4711930	06/11/2019 Property damage only	No injury	Angle	Daylight	Rain/Cloudy	Wet
11	4720683	07/06/2019 Non-fatal injury	No injury	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
12	4744015	09/02/2019 Non-fatal injury	Possible Injury (C)	Front to Front	Daylight	Clear/Clear	Dry
13	4762000	10/17/2019 Property damage only	No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
14	4763242	10/20/2019 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
15	4767041	10/28/2019 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Cloudy/Cloudy	Wet
16	4781449	12/02/2019 Property damage only	No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Snow/Snow	Snow
17	4787995	12/13/2019 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Cloudy/Cloudy	Dry
18	4799166	01/07/2020 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
19	4805385	01/07/2020 Property damage only	No Apparent Injury (O)	Sideswipe, same direct	i Daylight	Clear/Clear	Dry
20	4800734	01/10/2020 Property damage only		Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
21	4811245	01/24/2020 Unknown	Unknown	Head-on	Daylight	Clear/Clear	Dry
22	4816176	02/11/2020 Property damage only	No Apparent Injury (O)	Angle	Daylight	Cloudy/Rain	Water (standing, moving
23	4822410	02/27/2020 Property damage only		Angle	Daylight	Rain/Rain	Wet
24	4827885	03/11/2020 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
25	4847141	05/28/2020 Property damage only		Sideswipe, same direct		Clear/Clear	Dry
26	4848895	06/09/2020 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
27	4850750	06/11/2020 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
28	4851729	06/19/2020 Property damage only		Angle	Daylight	Clear/Clear	Dry
29	4874119	08/31/2020 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
30	4876674	09/07/2020 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
31	4879345	09/13/2020 Non-fatal injury	Suspected Minor Injury (B)		Daylight	Clear/Clear	Dry
32	4887523	10/16/2020 Property damage only		Angle	Daylight	Cloudy/Cloudy	Wet
33	4890458	10/21/2020 Property damage only		Front to Rear	Daylight	Cloudy/Rain	Wet
34	4891714	10/31/2020 Property damage only		Head-on	Dark - lighted roadway	Cloudy/Cloudy	Slush
35	4906784	12/10/2020 Property damage only		Angle	Daylight	Clear/Clear	Dry
36	4916922	01/06/2021 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
37	4929147	02/09/2021 Property damage only	, , , ,	Front to Rear	Daylight	Snow/Snow	Slush
38	4939349	03/10/2021 Property damage only	, , , ,	Front to Rear	Daylight	Clear/Clear	Dry
39	4951376	04/17/2021 Non-fatal injury	Possible Injury (C)	Rear-end	Daylight	Cloudy/Cloudy	Dry
40	4961048	05/13/2021 Property damage only		Angle	Dark - lighted roadway	Clear/Clear	Dry
41	4964265	05/24/2021 Property damage only		Angle	Daylight	Clear/Clear	Dry
42	4971153	06/14/2021 Property damage only		Rear-end	Daylight	Clear/Clear	Dry
43	5055893	06/26/2021 Property damage only		Angle	Daylight	Clear/Clear	Dry
44	5066236	10/05/2021 Property damage only		Angle	Dark - lighted roadway	Clear/Clear	Dry
45	5066564	10/10/2021 Property damage only	,,,,	Front to Rear	Daylight Daylight	Clear/Clear	Dry
46	5068485	11/26/2021 Property damage only		Angle	Dark - lighted roadway	Snow	Wet
	5068598	11/26/2021 Property damage only		Single vehicle crash	Dark - lighted roadway	Rain/Rain	Wet
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North Street from Franklin Street to Lynde Street: Crash Reports 2019-24

REFERENCE ID CRAS	SH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSIC		WEATHER CONDITION	ROAD SURFURE
49	5068483	12/18/2021 Property damage only		Rear-end	Daylight	Clear/Clear	Dry
50	5068438	12/20/2021 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Clear/Clear	Dry
51	5068622	12/25/2021 Property damage only	No Apparent Injury (O)	Sideswipe, same direct	i Daylight	Rain/Sleet, hail (freez	ilce
52	5068255	01/13/2022 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
53	5068488	01/13/2022 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear	Dry
54	5074241	02/23/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
55	5080323	03/10/2022 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Ice
56	5087070	03/31/2022 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
57	5092040	04/12/2022 Non-fatal injury	Deceased not caused by co	r Head-on	Dark - lighted roadway	Clear/Clear	Dry
58	5104808	05/13/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear	Dry
59	5103899	05/17/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
60	5120324	06/24/2022 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear	Dry
61	5129510	07/21/2022 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
62	5145642	09/02/2022 Property damage only	No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
63	5148935	09/12/2022 Property damage only	No Apparent Injury (O)	Sideswipe, same direct	i Daylight	Clear/Clear	Dry
64	5170404	10/31/2022 Unknown	Not reported	Unknown	Dark - lighted roadway	Clear/Clear	Dry
65	5184247	12/05/2022 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
66	5188156	12/13/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
67	5189899	12/17/2022 Unknown	Unknown	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
68	5193172	12/23/2022 Non-fatal injury	Possible Injury (C)	Head-on	Daylight	Rain/Rain	Water (standing, moving
69	5227108	02/21/2023 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Cloudy/Cloudy	Dry
70	5227107	02/22/2023 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
71	5250889	05/05/2023 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Rain	Wet
72	5251362	05/08/2023 Property damage only	, , , ,	Rear-end	Daylight	Clear/Clear	Dry
73	5264077	06/10/2023 Property damage only		Angle	Daylight	Clear/Clear	Dry
74	5275255	07/07/2023 Non-fatal injury	Possible Injury (C)	Rear-end	Daylight	Clear/Clear	Dry
75	5280632	07/27/2023 Non-fatal injury	Suspected Minor Injury (B)		Daylight	Clear/Clear	Dry
76	5323986	09/30/2023 Non-fatal injury	Suspected Minor Injury (B)		Dark - lighted roadway	Rain/Rain	Wet
77	5323971	10/29/2023 Unknown	Unknown		i Dark - lighted roadway	Rain/Rain	Wet
78	5323991	11/09/2023 Property damage only		Angle	Dark - lighted roadway	Rain	Wet
79	5325781	11/21/2023 Property damage only		Rear-end	Dark - lighted roadway	Clear	Dry
80	5325415	11/22/2023 Non-fatal injury	Suspected Minor Injury (B)		Daylight	Rain/Rain	Wet
81	5345042	12/27/2023 Non-fatal injury	Possible Injury (C)	Front to Front	Daylight	Clear/Clear	Dry
82	5350772	01/12/2024 Property damage only	, , , ,	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
83	5348430	01/14/2024 Property damage only		Front to Rear	Daylight Daylight	Cloudy/Clear	Dry
84	5351626	01/18/2024 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
85	5360144	02/06/2024 Property damage only	., , , ,	Front to Rear	Daylight	Clear/Clear	Dry
86	5367008	02/16/2024 Property damage only		Angle		Clear/Clear	Dry
87	5375630	03/27/2024 Non-fatal injury	Suspected Minor Injury (B)		Daylight Daylight	Rain/Rain	Wet
88	5376371	03/30/2024 Non-fatal injury	Suspected Minor Injury (B)			Clear/Clear	Dry
			11.1		Daylight		14/
89	5378267	04/03/2024 Unknown	Unknown	Head-on	Daylight	Rain/Rain	Wet
90	5387704	05/02/2024 Unknown	Unknown	Rear-end	Daylight	Clear/Clear	Dry
91	5409526	07/01/2024 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
92	5414446	07/12/2024 Property damage only	11 / /	Front to Rear	Daylight	Clear/Clear	Dry
93	5415928	07/17/2024 Property damage only		Front to Rear	Daylight Parks disable	Clear	Dry
94	5421024	07/31/2024 Unknown	Unknown	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
95	5421023	08/01/2024 Property damage only		Angle	Daylight	Clear/Clear	Dry
96	5424532	08/12/2024 Unknown	Unknown	Front to Rear	Daylight	Clear/Clear	Dry

North Street from Franklin Street to Lynde Street: Crash Reports 2019-24

REFERENCE ID CRASI	H NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLL	SIO AMBIENT LIGHT	WEATHER CON	DITI(ROAD SURFURE
97	5429849	08/27/2024 Non-fatal injury	Suspected Minor Injury (B)	Front to Rear	Daylight	Clear/Clear	Dry

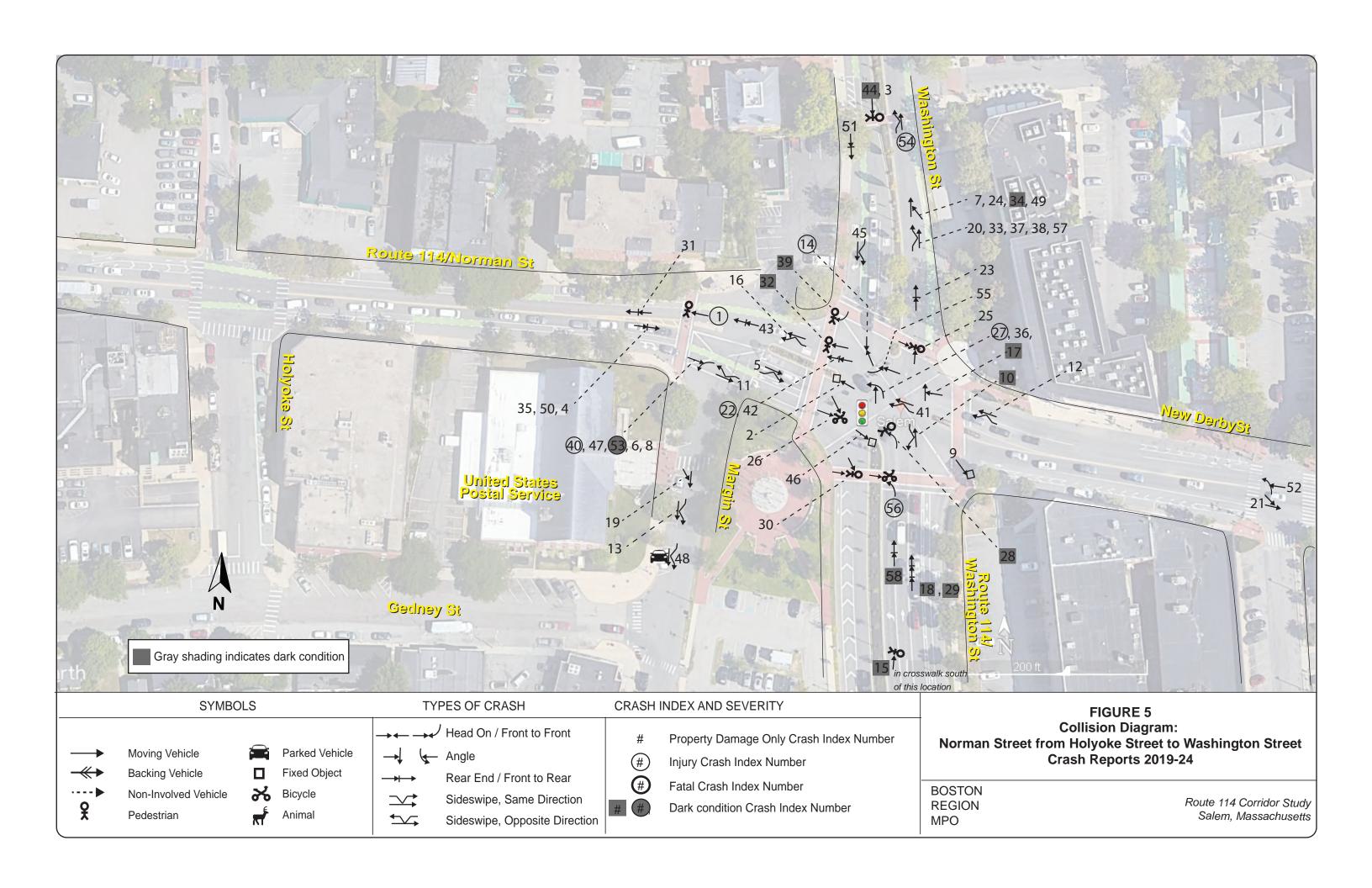


North Street from Essex Street to Norman Street: Crash Reports 2019-24

REFERENC E ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4661808	02/03/2019 Property damage only	(No injury	Rear-end	Dusk	Clear/Clear	Dry
2	4673936	03/08/2019 Property damage only	(No injury	Angle	Daylight	Clear/Clear	Dry
3	4694096	04/27/2019 Property damage only	(No injury	Angle	Dark - lighted roadway	Clear/Clear	Dry
4	4702718	05/20/2019 Property damage only	(No injury	Rear-end	Daylight	Clear/Clear	Dry
5	4723636	07/12/2019 Property damage only	(No injury	Front to Rear	Dark - lighted roadway	Clear/Clear	
6	4731141	07/31/2019 Property damage only	(No injury	Rear-end	Daylight	Clear/Clear	
7	4735334	08/10/2019 Non-fatal injury	Non-fatal injury - Possible	Rear-end	Daylight	Clear/Clear	Dry
8	4748986	09/13/2019 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
9	4761996	10/16/2019 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
10	4764326	10/17/2019 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
11	4765282	10/22/2019 Property damage only	(No Apparent Injury (O)	Front to Rear	Dusk	Rain/Rain	Wet
12	4790909	12/19/2019 Property damage only	(No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
13	4808326	12/24/2019 Non-fatal injury	Suspected Minor Injury (B)	Head-on	Daylight	Clear/Clear	Dry
14	4804531	01/13/2020 Non-fatal injury	Suspected Minor Injury (B)	Front to Front	Dark - lighted roadway	Clear/Clear	Dry
15	4805390	01/18/2020 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
16	4927755	02/07/2021 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Snow/Snow	Snow
17	4930462	02/13/2021 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
18	4936024	02/28/2021 Property damage only	(No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
19	4962094	05/18/2021 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
20	4963712	05/22/2021 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
21	5055808	08/04/2021 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Cloudy/Cloudy	Dry
22	5068418	09/08/2021 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
23	5068384	10/15/2021 Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
24	5068619	10/19/2021 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
25	5068575	11/06/2021 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
26	5068639	11/20/2021 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
27	5068504	12/04/2021 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
28	5068490	01/05/2022 Property damage only	(No Apparent Injury (O)	Rear-end	Dawn	Cloudy/Sleet, hai	Wet
29	5068249	01/31/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Snow
30	5069463	02/11/2022 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
31	5071777	02/16/2022 Property damage only	(No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
32	5086780	03/30/2022 Property damage only	(No Apparent Injury (O)	Angle	Dusk	Clear/Clear	Dry
33	5093390	04/08/2022 Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
34	5116290	06/12/2022 Property damage only	(No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear	Dry
35	5124145	07/05/2022 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
36	5129512	07/21/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
37	5134854	08/08/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear	Dry
38	5160312	10/06/2022 Unknown	Unknown	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
39	5172744	11/07/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
40	5185600	12/07/2022 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Rain/Cloudy	Wet
41	5261194	05/23/2023 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
42	5323944	10/22/2023 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Unknown	Unknown/Unknow	vı Unknown

North Street from Essex Street to Norman Street: Crash Reports 2019-24

R	EFERENC	CRASH					WEATHER	ROAD
	E ID	NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	CONDITION	SURFURE
	43	5367024	02/22/2024 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
	44	5410340	06/28/2024 Property damage only	(No Apparent Injury (O)	Sideswipe, opposite direction	Daylight	Clear/Clear	Dry
	45	5414554	07/13/2024 Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Clear	Dry



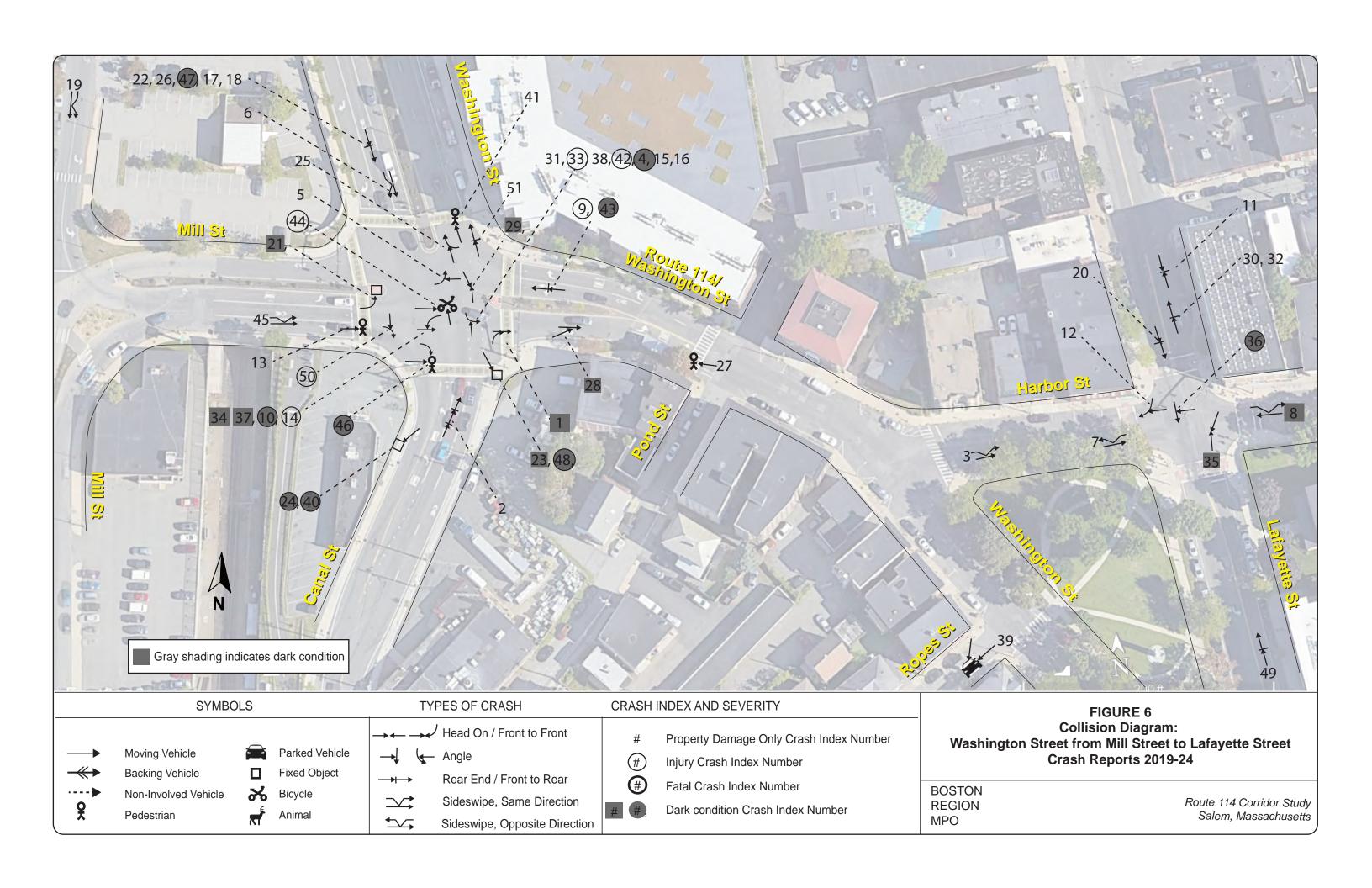
Collision Diagram Norman Street from Holyoke Street to Washington Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER CRASH DATE	CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4646447 01/04/2019	Non-fatal injury	Non-fatal injury - Non-incapacitating	Head-on	Daylight	Clear/Clear	Dry
2	4679189 03/22/2019	Property damage only	(No injury	Head-on	Daylight	Rain/Cloudy	Wet
3	4689200 04/11/2019	Property damage only	(No injury	Head-on	Daylight	Clear/Clear	Dry
4	4694093 04/27/2019	Property damage only	(No injury	Rear-end	Daylight	Cloudy/Clear	Dry
5	4701496 05/15/2019	Property damage only	(No injury	Sideswipe, same direction	Daylight	Clear/Reported but invalid	Dry
6	4713922 06/18/2019	Property damage only	(No injury	Angle	Daylight	Rain/Rain	Wet
7	4731137 07/30/2019	Property damage only	(No injury	Angle	Daylight	Clear/Clear	
8	4731138 07/31/2019	Property damage only	(No injury	Angle	Daylight	Clear/Clear	
9	4769174 11/01/2019	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
10	4797347 01/02/2020	Property damage only	(No Apparent Injury (O)	Sideswipe, opposite direction	Dark - lighted roadway	Clear/Clear	Dry
11	4804034 01/12/2020	Property damage only	(No Apparent Injury (O)	Sideswipe, opposite direction	Daylight	Clear/Clear	Dry
12	4824194 03/01/2020	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
13	4832788 03/27/2020	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
14	4842642 05/13/2020	Non-fatal injury	Suspected Minor Injury (B)	Front to Front	Daylight	Clear/Clear	Dry
15	4889979 10/26/2020	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Rain/Rain	Wet
16	4904302 12/04/2020	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Cloudy	Dry
17	4938521 03/04/2021	Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
18	4947701 04/02/2021	Property damage only	(No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
19	4948966 04/06/2021	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
20	4954288 04/07/2021	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
21	4956529 05/01/2021	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
22	4975059 06/24/2021	Non-fatal injury	Suspected Minor Injury (B)	Front to Rear	Daylight	Clear/Clear	Dry
23	5055739 06/24/2021	Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
24	5055743 08/26/2021	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
25	5055759 09/03/2021	Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
26	5060215 09/27/2021	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
27	5066565 10/07/2021	Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
28	5068463 10/29/2021	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Clear/Clear	Dry
29	5068775 01/08/2022	Property damage only	(No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear	Dry
30	5068427 02/03/2022	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Wet
31	5068370 02/05/2022	Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Sleet, hail (freezing rain or	Slush
32	5077673 03/05/2022	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Clear/Clear	Dry
33	5083222 03/21/2022	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
34	5098089 04/09/2022	Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear	Dry

Collision Diagram

Norman Street from Holyoke Street to Washington Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER CRASH DATE	CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
35	5095681 04/23/2022	Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
36	5114411 06/13/2022	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
37	5119118 06/27/2022	Unknown	Unknown	Sideswipe, same direction	Daylight	Rain/Rain	Wet
38	5136517 07/28/2022	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
39	5143649 08/23/2022	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dawn	Clear/Cloudy	Dry
40	5142249 08/24/2022	Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
41	5143926 08/28/2022	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
42	5146341 09/06/2022	Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Rain/Rain	Water (standing, movir
43	5178193 11/17/2022	Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
44	5180351 11/27/2022	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dark - roadway not light	e Rain/Rain	Wet
45	5184246 12/06/2022	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Cloudy/Clear	Dry
46	5227748 02/27/2023	Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
47	5258574 05/26/2023	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
48	5260179 05/31/2023	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
49	5323850 08/02/2023	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
50	5323822 08/03/2023	Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
51	5323894 08/29/2023	Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear	Dry
52	5323931 10/04/2023	Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
53	5325377 11/12/2023	Non-fatal injury	Possible Injury (C)	Angle	Dark - lighted roadway	Clear/Clear	Dry
54	5387207 04/30/2024	Non-fatal injury	Possible Injury (C)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
55	5393423 05/18/2024	Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Rain/Rain	Wet
56	5397681 05/29/2024	Non-fatal injury	Suspected Serious Injury (A)	Angle	Daylight	Clear/Clear	Dry
57	5415469 06/14/2024	Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
58	5426517 08/18/2024	Property damage only	(No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Fog, smog, smoke/Cloudy	Dry

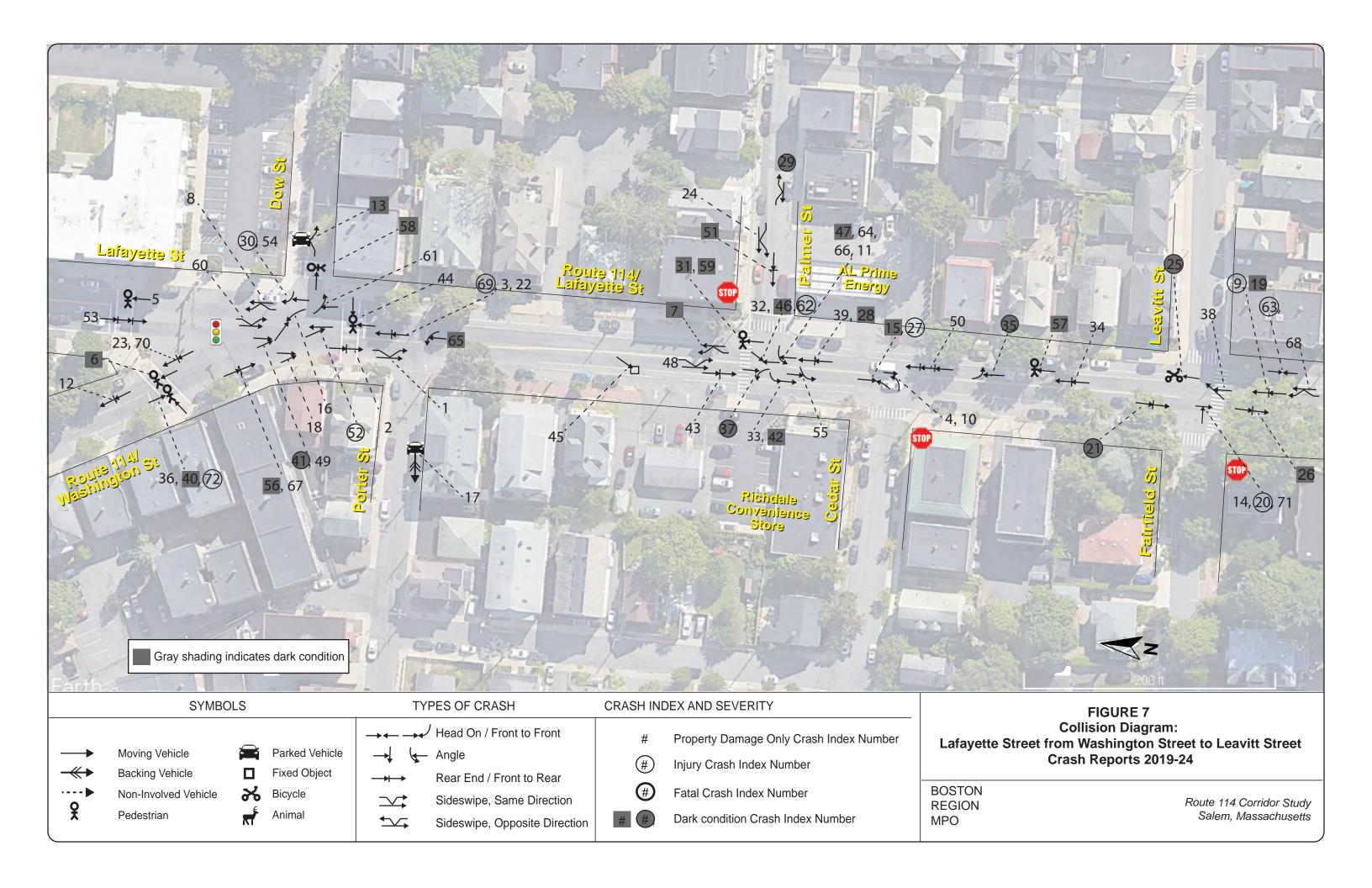


Collision Diagram Washington Street from Mill Street to Lafayette Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4670844	03/03/2019 Property damage only	(No injury	Angle	Dark - lighted roadway	Clear/Clear	Wet
2	4674728	03/11/2019 Property damage only	(No injury	Rear-end	Daylight	Clear/Clear	Dry
3	4699077	04/25/2019 Property damage only	(No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
4	4713433	06/15/2019 Non-fatal injury	No injury	Angle	Dark - lighted roadway	Clear/Clear	Dry
5	4745271	09/01/2019 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
6	4748987	09/14/2019 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Cloudy/Cloudy	Dry
7	4751603	09/17/2019 Property damage only	(No Apparent Injury (O)	Sideswipe, opposite direction	Daylight	Clear/Clear	Dry
8	4755911	09/25/2019 Unknown	Not reported	Sideswipe, opposite direction	Dark - lighted roadway	Clear/Clear	Dry
9	4755125	09/28/2019 Non-fatal injury	Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
10	4775182	11/15/2019 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Clear/Clear	Dry
11	4775184	11/16/2019 Property damage only	(No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
12	4828556	03/11/2020 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
13	4832789	03/27/2020 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
14	4835075	04/07/2020 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
15	4843291	05/14/2020 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
16	4854904	07/01/2020 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
17	4885464	10/09/2020 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
18	4885430	10/10/2020 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
19	4889597	10/18/2020 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
20	4888578	10/20/2020 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
21	4955609	04/28/2021 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Rain/Rain	Wet
22	4967836	06/03/2021 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Cloudy	Dry
23	5055746	07/17/2021 Property damage only	(No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
24	5068355	07/23/2021 Non-fatal injury	Suspected Minor Injury (B)	Single vehicle crash	Dark - lighted roadway	Clear/Clear	Dry
25	5055901	08/18/2021 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
26	5055737	09/01/2021 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Rain/Cloudy	Wet
27	5066235	10/06/2021 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Dry
28	5068611	12/09/2021 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
29	5068414	12/15/2021 Property damage only	(No Apparent Injury (O)	Front to Front	Dark - lighted roadway	Cloudy/Clear	Wet
30	5068392	12/17/2021 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
31	5068442	01/12/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
32	5069465	02/12/2022 Property damage only	(No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
33	5074240	02/22/2022 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Cloudy/Cloudy	Dry

Collision Diagram Washington Street from Mill Street to Lafayette Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
34	5083665	03/22/2022 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
35	5095192	04/16/2022 Property damage only	(No Apparent Injury (O)	Front to Front	Dark - lighted roadway	Rain	Wet
36	5098945	05/03/2022 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Clear/Clear	Dry
37	5113313	06/12/2022 Property damage only	(No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
38	5121330	07/04/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
39	5155530	08/18/2022 Property damage only	(No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
40	5145077	08/19/2022 Non-fatal injury	Suspected Minor Injury (B)	Front to Front	Dark - lighted roadway	Clear/Clear	Dry
41	5178194	11/16/2022 Property damage only	(No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Cloudy	Dry
42	5178658	11/16/2022 Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Rain/Rain	Wet
43	5270434	07/01/2023 Non-fatal injury	Suspected Minor Injury (B)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
44	5323870	08/21/2023 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
45	5323922	09/21/2023 Property damage only	(No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
46	5344419	01/03/2024 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Clear/Clear	Dry
47	5355833	01/31/2024 Non-fatal injury	Possible Injury (C)	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
48	5369907	02/29/2024 Non-fatal injury	Possible Injury (C)	Single vehicle crash	Dusk	Clear/Clear	Dry
49	5377460	03/28/2024 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Rain/Rain	Wet
50	5385286	04/24/2024 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
51	5421945	07/08/2024 Property damage only	(No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry

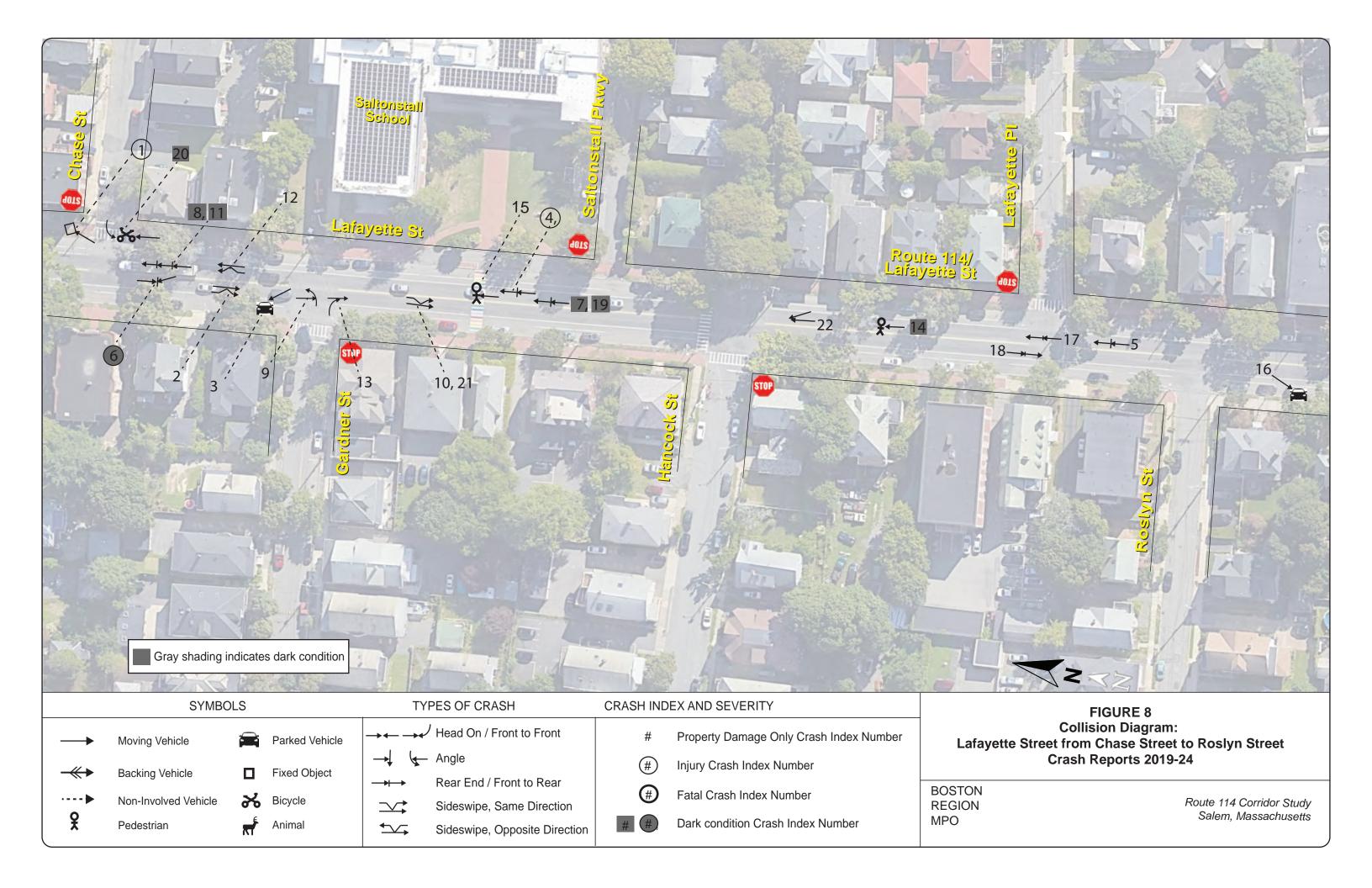


Collision Diagram Lafayette Street from Washington Street to Leavitt Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER C	RASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4648625	01/07/2019 Not Reported	Not Applicable	Sideswipe, same direction	Daylight	Clear/Reported but invalid	Dry
2	4652564	01/17/2019 Property damage only (ı No injury	Rear-end	Daylight	Clear/Clear	Dry
3	4661650	02/10/2019 Property damage only (ı No injury	Rear-end	Daylight	Clear/Clear	Dry
4	4699078	05/06/2019 Property damage only (ı No injury	Angle	Daylight	Clear/Reported but invalid	Dry
5	4703606	05/21/2019 Property damage only (ı No injury	Head-on	Daylight	Clear/Clear	Dry
6	4706562	05/26/2019 Property damage only (ı No injury	Single vehicle crash	Dark - lighted roadway	Clear/Clear	Dry
7	4705348	05/27/2019 Not Reported	Not reported	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
8	4715449	06/22/2019 Property damage only (ı No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
9	4722965	07/09/2019 Non-fatal injury	Non-fatal injury - Non-incapacitating	Rear-end	Daylight	Clear/Clear	
10	4722967	07/11/2019 Property damage only (ı No injury	Angle	Daylight	Clear/Clear	
11	4723639	07/13/2019 Property damage only (ı No injury	Angle	Daylight	Clear/Clear	
12	4732124	07/26/2019 Property damage only (ı No injury	Rear-end	Daylight	Clear/Clear	
13	4752538	09/24/2019 Not Reported	Not reported	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
14	4759636	10/08/2019 Property damage only (No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
15	4772480	11/08/2019 Property damage only (No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
16	4787364	12/11/2019 Property damage only (No Apparent Injury (O)	Front to Front	Daylight	Snow/Snow	Wet
17	4811246	01/30/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Daylight	Clear	Dry
18	4817870	02/15/2020 Property damage only (No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
19	4832790	03/28/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear	Dry
20	4861496	07/21/2020 Non-fatal injury	Suspected Minor Injury (B)	Angle	Daylight	Clear/Clear	Dry
21	4867177	08/07/2020 Non-fatal injury	Suspected Minor Injury (B)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
22	4869920	08/18/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
23	4875246	09/05/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
24	4878726	09/13/2020 Property damage only (No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
25	4881189	09/28/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
26	4895241	11/04/2020 Property damage only (No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
27	4897800	11/16/2020 Non-fatal injury	Possible Injury (C)	Front to Front	Daylight	Clear/Clear	Dry
28	4903939	12/03/2020 Property damage only (No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
29	4948478	03/18/2021 Unknown	Not reported	Sideswipe, opposite direction	Dark - lighted roadway		Dry
30	4948480	04/06/2021 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
31	4954291	04/24/2021 Property damage only (Head-on	Dark - lighted roadway	Clear/Clear	Dry
32	4957571	05/04/2021 Property damage only (, , , ,	Head-on	Daylight	Rain/Rain	Wet
33	4958863	05/03/2021 Property damage only (No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
34	4972416	06/16/2021 Property damage only (Front to Rear	Daylight	Clear/Clear	Dry
35	5055870	07/01/2021 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Rain/Rain	Wet
36	5055861	07/03/2021 Property damage only (No Apparent Injury (O)	Angle	Daylight	Cloudy/Rain	Wet

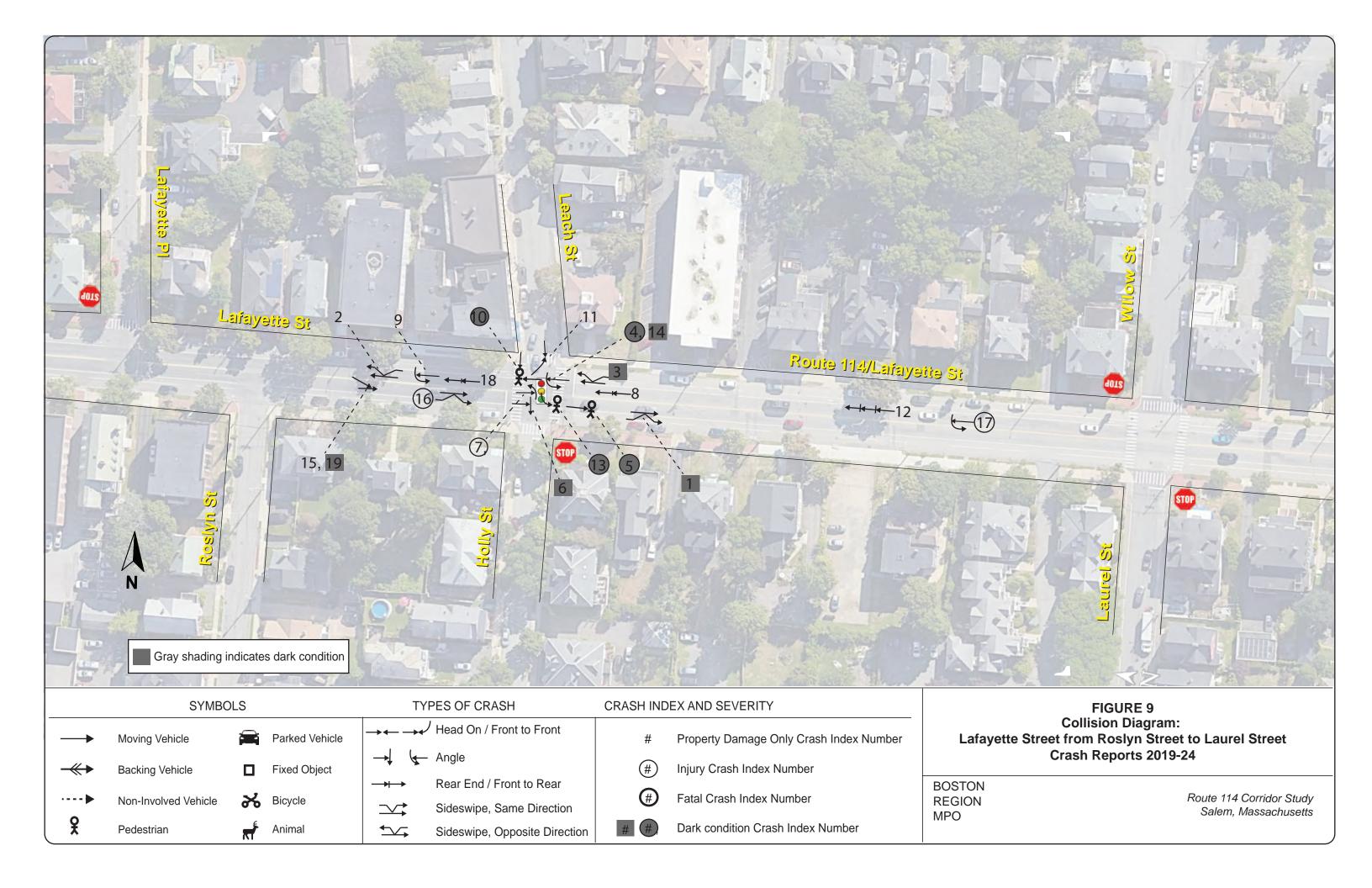
Collision Diagram Lafayette Street from Washington Street to Leavitt Street: Crash Reports 2019-24

REFERENCE ID	CRASH NUMBER C	RASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
37	5037125	07/25/2021 Non-fatal injury	Possible Injury (C)	Angle	Dark - unknown roadway	li Clear/Clear	Dry
38	5055879	08/24/2021 Property damage only	(ı No Apparent Injury (O)	Sideswipe, same direction	Daylight	Blowing sand, snow/Clear	Dry
39	5068467	09/18/2021 Property damage only	(ı No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
40	5068393	11/12/2021 Property damage only	(ı No Apparent Injury (O)	Front to Front	Dark - lighted roadway	Rain/Rain	Wet
41	5068405	12/08/2021 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Cloudy/Cloudy	Other
42	5068620	12/17/2021 Property damage only	(ı No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
43	5068395	01/12/2022 Property damage only	(ı No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
44	5068422	01/12/2022 Property damage only	(ı No Apparent Injury (O)	Angle	Daylight	Cloudy/Cloudy	Dry
45	5068354	01/24/2022 Unknown	Unknown	Single vehicle crash	Daylight	Cloudy/Cloudy	Ice
46	5069952	02/08/2022 Property damage only	(ı No Apparent Injury (O)	Front to Front	Dark - lighted roadway	Clear/Clear	Dry
47	5086160	03/09/2022 Property damage only	(ı No Apparent Injury (O)	Angle	Dark - unknown roadway	li Clear/Clear	Dry
48	5096494	04/26/2022 Property damage only	(ı No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
49	5099987	04/29/2022 Property damage only	(ı No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
50	5101317	05/10/2022 Property damage only	(ı No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
51	5114412	06/15/2022 Property damage only	(ı No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
52	5140547	08/18/2022 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
53	5150220	09/15/2022 Property damage only	(ı No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
54	5158452	10/04/2022 Property damage only	(ı No Apparent Injury (O)	Angle	Daylight	Rain/Rain	Wet
55	5164919	10/13/2022 Property damage only	(ı No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
56	5199082	11/15/2022 Property damage only	(ı No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
57	5189898	12/06/2022 Property damage only	(ı No Apparent Injury (O)	Single vehicle crash	Dark - lighted roadway	Clear/Clear	Dry
58	5189286	12/16/2022 Property damage only	(ı No Apparent Injury (O)	Head-on	Dark - lighted roadway	Rain/Rain	Wet
59	5202132	01/15/2023 Property damage only	(ı No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
60	5232917	03/03/2023 Property damage only	(ı No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
61	5242029	04/11/2023 Property damage only	(ı No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
62	5264687	06/09/2023 Non-fatal injury	Possible Injury (C)	Front to Front	Daylight	Cloudy/Cloudy	Dry
63	5280580	07/22/2023 Non-fatal injury	Suspected Minor Injury (B)	Front to Front	Daylight	Clear	Dry
64	5280829	07/27/2023 Property damage only	(ı No Apparent Injury (O)	Unknown	Daylight	Cloudy/Cloudy	Dry
65	5323882	09/10/2023 Property damage only		Angle	Dark - lighted roadway	Clear/Clear	Dry
66	5344844	01/02/2024 Property damage only		Angle	Daylight	Clear/Clear	Dry
67	5412274	03/05/2024 Property damage only	, , , ,	Rear-end	Daylight	Rain/Rain	Wet
68	5374640	03/22/2024 Property damage only	() ()	Sideswipe, same direction	Daylight	Clear/Clear	Dry
69	5396338	05/27/2024 Non-fatal injury	Possible Injury (C)	Rear-end	Daylight	Clear/Clear	Dry
70	5403838	06/13/2024 Property damage only		Front to Rear	Daylight	Clear/Clear	Dry
71	5425284	08/05/2024 Property damage only		Angle	Daylight	Clear/Clear	Dry
72	5435317	09/11/2024 Non-fatal injury	Suspected Minor Injury (B)	Single vehicle crash	Daylight	Clear	Dry



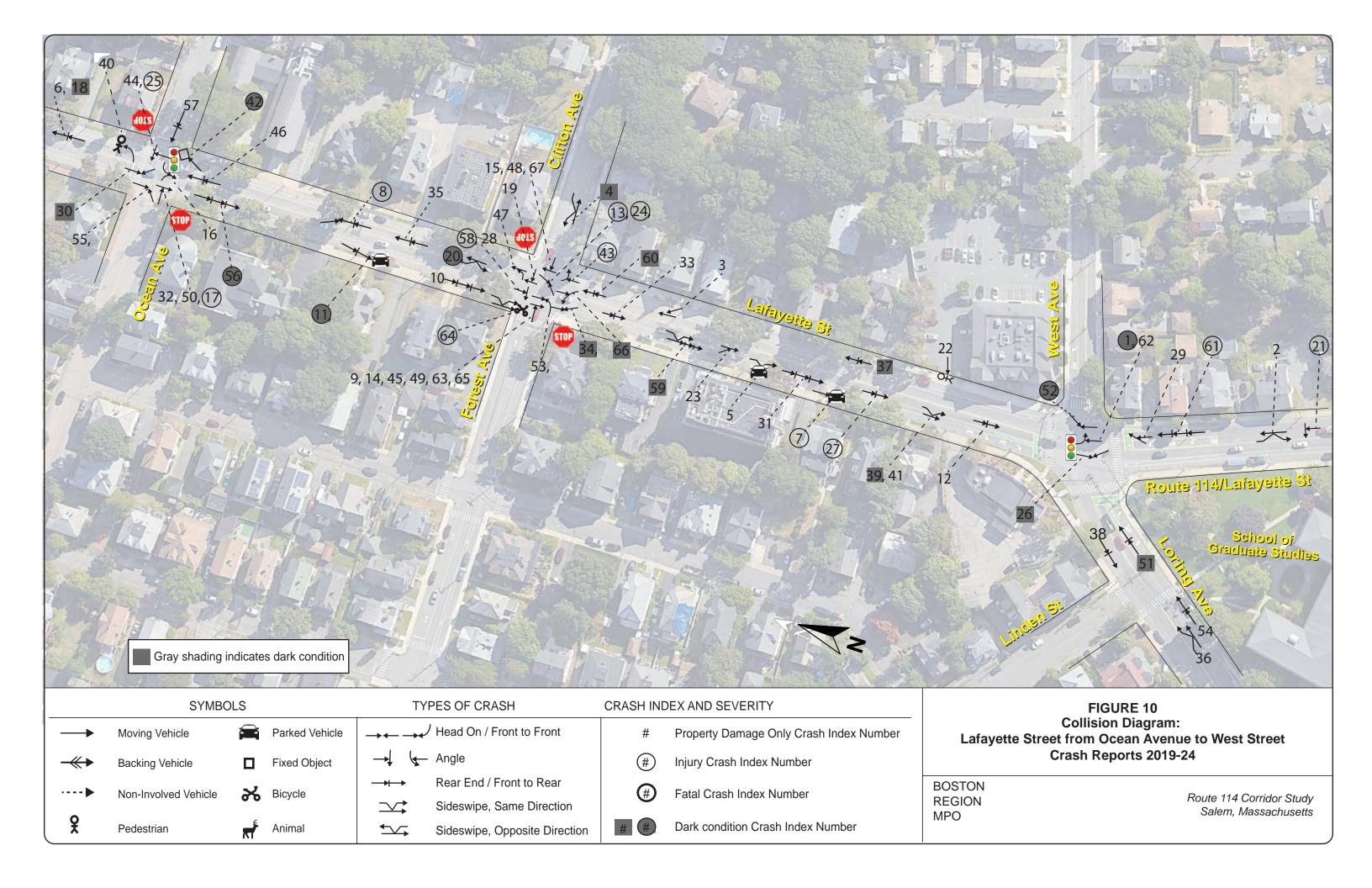
Collision Diagram Lafayette Street from Chase Street to Roslyn Street: Crash Reports 2019-24

REFERENCE	CRASH						
ID	NUMBER	CRASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4678792	03/21/2019 Non-fatal injury	Non-fatal injury - Possible	Head-on	Daylight	Clear/Reported but invalid	Dry
2	4682388	03/28/2019 Property damage only (No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
3	4704170	05/22/2019 Not Reported	No injury	Angle	Daylight	Clear/Reported but invalid	Dry
4	4704968	05/25/2019 Non-fatal injury	No injury	Rear-end	Daylight	Clear/Clear	Dry
5	4743613	08/26/2019 Property damage only (No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
6	4755297	09/30/2019 Non-fatal injury	Possible Injury (C)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
7	4794187	12/27/2019 Property damage only (No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear/Clear	Wet
8	4815716	02/10/2020 Property damage only (No Apparent Injury (O)	Rear-end	Dark - roadway not lighted	Clear/Clear	Wet
9	4877022	09/10/2020 Property damage only (No Apparent Injury (O)	Angle	Daylight	Cloudy/Cloudy	Dry
10	4909764	12/18/2020 Property damage only (No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Snow
11	4917827	01/11/2021 Property damage only (No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
12	5068400	08/13/2021 Property damage only (No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
13	5068458	11/01/2021 Property damage only (No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
14	5068440	11/19/2021 Property damage only (No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
15	5068509	12/09/2021 Property damage only (No Apparent Injury (O)	Single vehicle crash	Daylight	Clear/Clear	Wet
16	5094459	04/20/2022 Property damage only (No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
17	5123983	07/10/2022 Property damage only (No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
18	5276834	07/18/2023 Property damage only (No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
19	5403847	06/14/2024 Property damage only (No Apparent Injury (O)	Front to Rear	Dusk	Clear/Clear	Dry
20	5419148	07/27/2024 Property damage only (No Apparent Injury (O)	Head-on	Dark - lighted roadway	Clear/Clear	Dry
21	5426905	08/13/2024 Property damage only (No Apparent Injury (O)	Sideswipe, same direction	Daylight	Clear/Clear	Dry



Collision Diagram
Lafayette Street from Roslyn Street to Laurel Street: Crash Reports 2019-24

REFERENC E ID	CRASH NUMBER C	RASH DATE CRASH SEVERITY	MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4652036	01/12/2019 Property damage only	No injury	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
2	4684951	04/03/2019 Property damage only	No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
3	4689203	04/15/2019 Property damage only	No injury	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
4	4767042	10/28/2019 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - lighted roadway	Rain/Rain	Wet
5	4809663	01/28/2020 Property damage only	No Apparent Injury (O)	Front to Front	Dark - lighted roadway	Clear	Dry
6	4869591	08/16/2020 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
7	5068605	11/10/2021 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
8	5068469	01/18/2022 Property damage only	No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Dry
9	5116296	06/20/2022 Property damage only	No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
10	5145641	09/02/2022 Non-fatal injury	Suspected Minor Injury (B)	Angle	Dark - roadway not lighted	Clear/Clear	Dry
11	5225967	02/09/2023 Property damage only	No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
12	5324009	11/14/2023 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
13	5331505	12/06/2023 Non-fatal injury	Suspected Minor Injury (B)	Single vehicle crash	Dark - roadway not lighted	Clear/Clear	Dry
14	5341603	12/27/2023 Property damage only	No Apparent Injury (O)	Angle	Dark - lighted roadway	Rain/Rain	Wet
15	5352877	01/23/2024 Property damage only	No Apparent Injury (O)	Angle	Daylight	Cloudy/Cloudy	Dry
16	5354201	01/27/2024 Non-fatal injury	Possible Injury (C)	Sideswipe, same direction	Daylight	Cloudy/Cloudy	Dry
17	5374635	02/21/2024 Non-fatal injury	Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
18	5398670	05/29/2024 Property damage only	No Apparent Injury (O)	Rear-end	Daylight	Clear/Clear	Dry
19	5432897	09/05/2024 Property damage only	Not reported	Angle	Dark - lighted roadway	Clear/Clear	Dry



Collision Diagram Lafayette Street from Ocean Avenue to West Street: Crash Reports 2019-24

REFERENC E ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY MAX INJURY SEVI	ERITY MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
1	4649334	01/09/2019 Non-fatal injury Non-fatal injury - No	on-incapacitatiı Angle	Dark - lighted roadway	Rain/Clear	Dry
2	4666565	02/19/2019 Property damage on No injury	Sideswipe, opposite direction	Daylight	Clear/Clear	Ice
3	4666566	02/20/2019 Property damage on No injury	Angle	Daylight	Cloudy/Cloudy	Dry
4	4675178	03/11/2019 Property damage on No injury	Sideswipe, opposite direction	Dark - lighted roadway	Sleet, hail (freezing rain or	Ice
5	4687855	04/05/2019 Property damage on No injury	Sideswipe, same direction	Daylight	Clear/Clear	Dry
6	4690093	04/17/2019 Property damage on No injury	Rear-end	Daylight	Clear/Clear	Dry
7	4704967	05/25/2019 Non-fatal injury Non-fatal injury - No	on-incapacitatiı Rear-end	Daylight	Clear/Reported but invalid	Dry
8	4710419	06/04/2019 Non-fatal injury Suspected Serious	Injury (A) Head-on	Daylight	Clear/Reported but invalid	Dry
9	4711156	06/12/2019 Property damage on No injury	Angle	Daylight	Clear/Reported but invalid	Dry
10	4714107	06/19/2019 Property damage on No injury	Rear-end	Daylight	Clear/Reported but invalid	Dry
11	4717706	06/27/2019 Non-fatal injury Non-fatal injury - Po	ssible Rear-end	Dark - lighted roadway	Clear/Clear	Dry
12	4729645	07/27/2019 Property damage on No injury	Front to Rear	Daylight	Clear/Clear	
13	4738679	08/14/2019 Non-fatal injury Possible Injury (C)	Front to Front	Daylight	Clear/Clear	Dry
14	4747485	09/10/2019 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry
15	4751604	09/19/2019 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry
16	4755126	09/24/2019 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry
17	4762551	10/18/2019 Non-fatal injury Suspected Minor In		Daylight	Cloudy/Clear	Dry
18	4773511	11/05/2019 Property damage on No Apparent Injury		Dark - lighted roadway	Rain/Rain	Wet
19	4775186	11/16/2019 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry
20	4784079	11/30/2019 Non-fatal injury Possible Injury (C)	Sideswipe, opposite direction	Dusk	Clear/Clear	Dry
21	4806519	01/21/2020 Non-fatal injury Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
22	4829820	01/24/2020 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry
23	4870885	04/27/2020 Property damage on No Apparent Injury	(O) Angle	Daylight	Rain/Rain	Wet
24	4846877	06/01/2020 Non-fatal injury Suspected Minor In	jury (B) Front to Front	Daylight	Clear/Clear	Dry
25	4853670	06/27/2020 Non-fatal injury Possible Injury (C)	Angle	Daylight	Clear/Clear	Dry
26	4864438	08/01/2020 Property damage on No Apparent Injury	(O) Front to Front	Dark - lighted roadway	Clear/Clear	Dry
27	4867983	08/10/2020 Non-fatal injury Possible Injury (C)	Front to Rear	Daylight	Clear/Clear	Dry
28	4871120	08/18/2020 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear	Dry
29	4883198	10/03/2020 Property damage on No Apparent Injury		Daylight	Clear	Dry
30	4895941	11/11/2020 Property damage on No Apparent Injury	(O) Front to Front	Dark - lighted roadway	Clear/Clear	Dry
31	4903711	12/01/2020 Property damage on No Apparent Injury	\ <i>\</i>	Daylight	Clear/Clear	Dry
32	4947702	04/03/2021 Property damage on No Apparent Injury		Daylight	Clear/Clear	Dry
33	4953195	04/20/2021 Property damage on No Apparent Injury	(O) Front to Rear	Daylight	Clear/Clear	Dry
34	4963718	05/23/2021 Property damage on No Apparent Injury	(O) Front to Front	Dusk	Clear/Clear	Dry
35	4965182	05/25/2021 Property damage on No Apparent Injury	(O) Front to Rear	Daylight	Clear/Clear	Dry
36	5056509	09/17/2021 Property damage on No Apparent Injury		Daylight	Clear/Clear	Dry
37	5060217	09/27/2021 Property damage on No Apparent Injury		Dark - lighted roadway	Clear/Clear	Dry
38	5068572	09/30/2021 Property damage on No Apparent Injury		Daylight	Clear/Clear	Dry
39	5068482	11/03/2021 Unknown Not reported	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
40	5068563	11/23/2021 Property damage on No Apparent Injury		Daylight	Clear/Clear	Dry
41	5068491	12/23/2021 Property damage on No Apparent Injury	. ,	Daylight	Clear	Dry
42	5068437	02/03/2022 Non-fatal injury Suspected Minor In		Dark - lighted roadway	Rain	Wet
43	5068451	02/09/2022 Non-fatal injury Suspected Minor In	, , , ,	Daylight	Clear/Clear	Dry
44	5075248	02/28/2022 Property damage on No Apparent Injury	. ,	Daylight	Clear/Clear	Dry
45	5113314	06/09/2022 Property damage on No Apparent Injury	(O) Angle	Daylight	Clear/Clear	Dry

Collision Diagram Lafayette Street from Ocean Avenue to West Street: Crash Reports 2019-24

REFERENC E ID	CRASH NUMBER	CRASH DATE CRASH SEVERITY MAX INJURY SEVERITY	MANNER OF COLLSION	AMBIENT LIGHT	WEATHER CONDITION	ROAD SURFURE
46	5134113	08/05/2022 Property damage on No Apparent Injury (O)	Front to Rear	Daylight	Clear/Clear	Wet
47	5142250	08/24/2022 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
48	5153861	09/23/2022 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear	Dry
49	5157165	10/01/2022 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
50	5162545	10/13/2022 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
51	5163288	10/14/2022 Property damage on No Apparent Injury (O)	Front to Rear	Dark - lighted roadway	Clear/Clear	Dry
52	5182473	11/30/2022 Non-fatal injury Suspected Minor Injury (B)	Front to Front	Dark - lighted roadway	Rain/Rain	Wet
53	5185030	12/03/2022 Property damage on No Apparent Injury (O)	Front to Front	Daylight	Clear/Clear	Dry
54	5185033	12/07/2022 Property damage on No Apparent Injury (O)	Rear-end	Daylight	Rain/Rain	Wet
55	5188155	12/14/2022 Property damage on No Apparent Injury (O)	Sideswipe, opposite direction	Daylight	Clear/Clear	Dry
56	5201523	01/13/2023 Non-fatal injury Possible Injury (C)	Front to Rear	Dark - roadway not ligh	tı Clear/Clear	Dry
57	5226425	02/21/2023 Property damage on No Apparent Injury (O)	Front to Rear	Daylight	Rain/Rain	Wet
58	5323854	08/14/2023 Non-fatal injury Suspected Minor Injury (B)	Angle	Daylight	Clear/Clear	Dry
59	5323939	10/13/2023 Property damage on No Apparent Injury (O)	Sideswipe, same direction	Dark - lighted roadway	Clear/Clear	Dry
60	5331500	12/06/2023 Property damage on No Apparent Injury (O)	Rear-end	Dark - lighted roadway	Clear/Clear	Dry
61	5358579	02/06/2024 Non-fatal injury Possible Injury (C)	Rear-end	Daylight	Clear/Clear	Dry
62	5372747	03/17/2024 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
63	5383858	04/09/2024 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
64	5389321	05/04/2024 Non-fatal injury Possible Injury (C)	Sideswipe, same direction	Daylight	Clear/Clear	Dry
65	5398575	05/31/2024 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry
66	5419567	07/21/2024 Property damage on No Apparent Injury (O)	Angle	Dark - lighted roadway	Clear/Clear	Dry
67	5426370	08/17/2024 Property damage on No Apparent Injury (O)	Angle	Daylight	Clear/Clear	Dry

Appendix D

Intersection Level of Service Analysis

- 1: 2025 Existing Conditions: Weekday AM Peak-Hour LOS and Delays
- 2. 2025 Existing Conditions: Weekday PM Peak-Hour LOS and Delays
- 3. 2040 No Build Conditions: Weekday AM Peak-Hour LOS and Delays
- 4. 2040 No Build Conditions: Weekday PM Peak-Hour LOS and Delays
- 5. 2040 Build Conditions: Weekday AM Peak-Hour LOS and Delays
- 6. 2040 Build Conditions: Weekday PM Peak-Hour LOS and Delays
- 7. Traffic Signal Warrant Analysis

Part 1: 2025 Existing Conditions: Weekday AM Peak-Hour LOS and Delays

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ	1		ሻ	ĵ.			4			4		
Traffic Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Future Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Satd. Flow (prot)	1662	1525	0	1694	1543	0		1487	0		1688	0	
Flt Permitted	0.063			0.267				0.982			0.975		
Satd. Flow (perm)	110	1525	0	476	1543	0	0	1487	0	0	1688	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	5	556	0	16	858	0	0	201	0	0	307	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	69.0	69.0		69.0	69.0		28.0	28.0		28.0	28.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	63.6	63.6		63.6	63.6			21.3			22.2		
Actuated g/C Ratio	0.47	0.47		0.47	0.47			0.16			0.17		
v/c Ratio	0.10	0.77		0.07	1.18			0.85			1.10		
Control Delay (s/veh)	31.4	40.3		25.1	125.8			86.3			134.7		
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	31.4	40.3		25.1	125.8			86.3			134.7		
LOS	C	D		C	F			F			F		
Approach Delay (s/veh)		40.2			123.9			86.3			134.7		
Approach LOS		D			F			F			F		
Queue Length 50th (ft)	2	340		6	~789			157			~266		
Queue Length 95th (ft)	15	#711		27	#1341			#302			#431		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	52	722		225	730			246			279		
Starvation Cap Reductn	0	0		0	0			0			0		
Spillback Cap Reductn	0	0			0			0			0		
Storage Cap Reductn	0	0			0			0			0		
Reduced v/c Ratio	0.10	0.77		0.07	1.18			0.82			1.10		

Intersection Summary

Cycle Length: 150

Actuated Cycle Length: 134.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.18

Intersection Signal Delay (s/veh): 97.6 Intersection Capacity Utilization 71.5% Intersection LOS: F

ICU Level of Service C

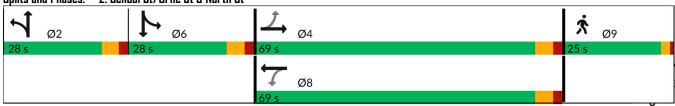
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 2: School St/Orne St & North St



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Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9
Lane Configurations	7-		ሻ	^		7		
Traffic Volume (vph)	715	30	295	740		175		
Future Volume (vph)	715	30	295	740	0	175		
Satd. Flow (prot)	1463	0	1413	1487	0	1286		
Flt Permitted		[0.950					
Satd. Flow (perm)	1463	0	1413	1487	0	1236		
Satd. Flow (RTOR)								
Lane Group Flow (vph)	776	0	321	804	0	219		
Turn Type	NA		Prot	NA		pm+ov		
Protected Phases	6		5	2		5	4	9
Permitted Phases						4		
Total Split (s)	35.0		25.0	60.0		25.0	23.0	26.0
Total Lost Time (s)	4.0		5.0	4.0		5.0		
Act Effct Green (s)	32.0		20.6	60.6		20.6		
Actuated g/C Ratio	0.45		0.29	0.86		0.29		
v/c Ratio	1.17		0.78	0.63		0.58		
Control Delay (s/veh)	115.0		42.1	10.1		32.8		
Queue Delay	0.0		0.0	0.0		0.0		
Total Delay (s/veh)	115.0		42.1	10.1		32.8		
LOS	F		D	В		C		
Approach Delay (s/veh)	115.0			19.2	32.8			
Approach LOS	F			В	C			
Queue Length 50th (ft)	~280		98	0		62		
Queue Length 95th (ft)	#799	;	#338	#582		#167		
Internal Link Dist (ft)	1292			252	419			
Turn Bay Length (ft)								
Base Capacity (vph)	664		414	1279		376		
Starvation Cap Reductn	0			0		0		
Spillback Cap Reductn	0		0	0		0		
Storage Cap Reductn	0			0		0		
Reduced v/c Ratio	1.17		0.78	0.63		0.58		

Intersection Summary

Cycle Length: 109

Actuated Cycle Length: 70.4

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.17

Intersection Signal Delay (s/veh): 55.7

Intersection LOS: E ICU Level of Service E

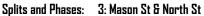
Intersection Capacity Utilization 83.3%

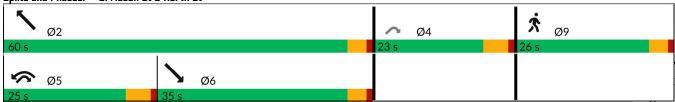
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		सी	7					1		N.	1₃		
Traffic Volume (vph)	100	120	35	0	0	0	0	550	35	110	480	55	
Future Volume (vph)	100	120	35	0			0	550	35	110	480	55	
Satd. Flow (prot)	0	1365	1356	0	0	0	0	1382	0	1501	1356	0	
Flt Permitted		0.978								0.217			
Satd. Flow (perm)	0	1365	1270	0	0	0	0	1382	0	343	1356	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	242	38	0	0	0	0	597	0	111	541	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	25.0	25.0	25.0					50.0		20.0	70.0		35.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		20.0	20.0					62.1		77.8	76.8		
Actuated g/C Ratio		0.15	0.15					0.48		0.60	0.59		
v/c Ratio		1.15	0.19					0.91		0.37	0.68		
Control Delay (s/veh)		157.5	51.0					53.1		20.1	24.2		
Queue Delay		0.0	0.0					1.5		0.0	0.0		
Total Delay (s/veh)		157.5	51.0					54.6		20.1	24.2		
LOS		F	D					D		C	C		
Approach Delay (s/veh)		143.0						54.6			23.5		
Approach LOS		F						D			C		
Queue Length 50th (ft)		~240	28					490		23	143		
Queue Length 95th (ft)		#410	63					#798		m54	314		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		210	195					659		347	801		
Starvation Cap Reductn		0	0					0		0	0		
Spillback Cap Reductn		0	0					14		0	0		
Storage Cap Reductn		0	0					0		0	0		
Reduced v/c Ratio		1.15	0.19					0.93		0.32	0.68		

Intersection Summary

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.15

Intersection Signal Delay (s/veh): 57.5 Intersection Capacity Utilization 73.2% Intersection LOS: E ICU Level of Service D

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

 Splits and Phases: 7: North St & Essex St

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 \$\int_{\text{02}}(R)\$

 20 s
 50 s

 \$\int_{\text{06}}(R)\$

 70 s

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ř	<u></u>	7	ř	ĵ.		ř	^	7	ň	<u></u>	7	
Traffic Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Future Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Satd. Flow (prot)	1662	1749	1487	1501	1504	0	1516	3031	1356	1678	1766	1501	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1662	1749	1416	1501	1504	0	1516	3031	1269	1678	1766	1381	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	35	218	224	76	349	0	278	667	183	71	217	76	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	20.0	35.0	35.0	20.0	35.0		30.0	45.0	45.0	20.0	35.0	35.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	8.7	29.9	29.9	11.4	32.4		25.3	40.7	40.7	10.9	22.3	22.3	
Actuated g/C Ratio	0.07	0.23	0.23	0.09	0.25		0.19	0.31	0.31	0.08	0.17	0.17	
v/c Ratio	0.32	0.55	0.70	0.59	0.95		0.96	0.71	0.47	0.52	0.73	0.33	
Control Delay (s/veh)	73.7	57.5	65.7	82.9	87.9		99.6	51.2	49.3	78.0	69.4	56.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	73.7	57.5	65.7	82.9	87.9		99.6	51.2	49.3	78.0	69.4	56.3	
LOS	E	E	E	F	F		F	D	D	E	E	E	
Approach Delay (s/veh)		62.5			87.0			62.8			68.3		
Approach LOS		E			F			E			E		
Queue Length 50th (ft)	33	192	206	71	~352		~303	316	150	66	195	64	
Queue Length 95th (ft)	68	273	#317	124	#555		#507	408	242	122	291	116	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	185	404	327	167	368		290	959	401	187	408	319	
Starvation Cap Reductn	0	0	0	0	0		0		0	0	0	0	
Spillback Cap Reductn		0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio	0.19	0.54	0.69	0.46	0.95		0.96	0.70	0.46	0.38	0.53	0.24	

Cycle Length: 150

Actuated Cycle Length: 132.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96

Intersection Signal Delay (s/veh): 67.9 Intersection Capacity Utilization 69.8% Intersection LOS: E

ICU Level of Service C

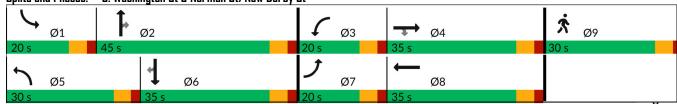
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 9: Washington St & Norman St/New Derby St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	7	↑	7		4	7	ሻ	∱ ∱		ሻ	†	7	
Traffic Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Future Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Satd. Flow (prot)	1694	1783	1516	0	1774	1516	1711	3396	0	1694	1783	1516	
Flt Permitted	0.950				0.931		0.950			0.950			
Satd. Flow (perm)	1694	1783	1436	0	1660	1445	1711	3396	0	1694	1783	1430	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	167	293	299	0	226	290	147	652	0	161	317	39	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	20.0	45.0	15.0	25.0	25.0	15.0	15.0	35.0		15.0	35.0	20.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	13.4	39.0	47.2		18.5	26.7	8.2	26.3		8.2	26.3	39.6	
Actuated g/C Ratio	0.11	0.32	0.39		0.15	0.22	0.07	0.22		0.07	0.22	0.33	
v/c Ratio	0.90	0.51	0.53		0.90	0.90	1.27	0.89		1.40	0.82	0.08	
Control Delay (s/veh)	99.9	40.6	25.2		88.7	62.4	220.0	62.3		268.0	65.0	27.5	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	99.9	40.6	25.2		88.7	62.4	220.0	62.3		268.0	65.0	27.5	
LOS	F	D	C		F	E	F	E		F	E	C	
Approach Delay (s/veh)		47.6			73.9			91.3			125.4		
Approach LOS		D			E			F			F		
Queue Length 50th (ft)	143	209	114		193	158	~165	283		~191	257	21	
Queue Length 95th (ft)	#277	292	191		#359	#343	#305	#387		#336	#406	47	
Internal Link Dist (ft)		253			828			250			528		
Turn Bay Length (ft)						300	300						
Base Capacity (vph)	186	574	565		252	323	116	805		115	423	477	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Reduced v/c Ratio	0.90	0.51	0.53		0.90	0.90	1.27	0.81		1.40	0.75	0.08	

Cycle Length: 130

Actuated Cycle Length: 121.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.40

Intersection Signal Delay (s/veh): 81.8 Intersection Capacity Utilization 72.6% Intersection LOS: F

ICU Level of Service C

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 10: Canal St & Mill St & Washington St



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Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	ř	†				¥	ĵ.		7		M			
Traffic Volume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Future Valume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Satd. Flow (prot)	1678	1513	0	0	0	1646	1511	0	1528	0	1621	0	0	
Flt Permitted	0.324					0.950					0.976			
Satd. Flow (perm)	572	1513	0	0	0	1646	1511	0	1431	0	1621	0	0	
Satd. Flow (RTDR)									*100					
Lane Group Flow (vph)	394	384	0	0	0	18	347	0	409	0	20	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	22.0	40.0			16.0	16.0	34.0		23.0	13.0	13.0			24.0
Total Lost Time (s)	4.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	53.6	44.0				8.2	26.8		18.6		5.7			
Actuated g/C Ratio	0.54	0.45				0.08	0.27		0.19		0.06			
v/c Ratio	0.76	0.57				0.13	0.85		1.17		0.22			
Control Delay (s/veh)	30.3	32.4				51.6	57.6		132.0		57.3			
Queue Delay	0.0	0.0				0.0	0.0		0.0		0.0			
Total Delay (s/veh)	30.3	32.4				51.6	57.6		132.0		57.3			
LOS	C	C				D	E		F		E			
Approach Delay (s/veh)		31.3					57.3				57.3			
Approach LOS		C					E				E			
Queue Length 50th (ft)	161	175				11	222		~277		13			
Queue Length 95th (ft)	#338	#466				35	#421		#456		41			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	519	675				137	410		350		92			
Starvation Cap Reductn	0	0				0	0		0		0			
Spillback Cap Reductn	0	0				0	0				0			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.76	0.57				0.13	0.85		1.17		0.22			

Cycle Length: 116

Actuated Cycle Length: 98.6

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.17

Intersection Signal Delay (s/veh): 63.9 Intersection Capacity Utilization 65.2% Intersection LOS: E ICU Level of Service C

Analysis Period (min) 15

- * User Entered Value
- Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 11: Lafayette St & Dow St & Washington St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Volume (vph)	20	5	25	5	5	20	15	725	10	5	515	15	
Future Volume (vph)	20	5	25	5	5	20	15	725	10	5	515	15	
Satd. Flow (prot)	0	1353	0	0	1380	0	0	1525	0	0	1506	0	
Flt Permitted		0.906			0.965			0.988			0.994		
Satd. Flow (perm)	0	1239	0	0	1337	0	0	1508	0	0	1499	0	
Satd. Flow (RTDR)								2			5		
Lane Group Flow (vph)	0	56	0	0	41	0		772	0	0	595	0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA		
Protected Phases		4			8			2			6		
Permitted Phases	4			8			2			6			
Total Split (s)	18.0	18.0		18.0	18.0		42.0	42.0		42.0	42.0		
Total Lost Time (s)		4.0			4.0			4.0			4.0		
Act Effct Green (s)		13.3			13.3			30.9			30.9		
Actuated g/C Ratio		0.25			0.25			0.59			0.59		
v/c Ratio		0.18			0.12			0.87			0.67		
Control Delay (s/veh)		19.9			19.1			21.1			11.2		
Queue Delay		0.0			0.0			0.0			0.0		
Total Delay (s/veh)		19.9			19.1			21.1			11.2		
LOS		В			В			C			В		
Approach Delay (s/veh)		19.9			19.1			21.1			11.2		
Approach LOS		В			В			C			В		
Queue Length 50th (ft)		15			11			165			102		
Queue Length 95th (ft)		43			27			#406			186		
Internal Link Dist (ft)		657			627			413			957		
Turn Bay Length (ft)													
Base Capacity (vph)		338			365			1119			1113		
Starvation Cap Reductn		0			0			0			0		
Spillback Cap Reductn		0			0			0			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.17			0.11			0.69			0.53		

Cycle Length: 60

Actuated Cycle Length: 52.3

Control Type: Semi Act-Uncoord

Maximum v/c Ratio: 0.87

Intersection Signal Delay (s/veh): 17.0

Intersection Capacity Utilization 65.7%

Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

Splits and Phases: 15: Lafayette St & Ocean St



Existing Conditions

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		र्स	7		4	7	*	f			4	7	
Traffic Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Future Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Satd. Flow (prot)	0	1421	1446	0	1535	1516	1711	1572	0	0	1515	1473	
Flt Permitted		0.700			0.984		0.950				0.993		
Satd. Flow (perm)	0	1042	1446	0	1535	1516	1711	1572	0	0	1506	1473	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	218	126	0	51	23	179	632	0	0	494	161	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	45	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	28.0	28.0		15.0	15.0	15.0	19.0	69.0		50.0	50.0	28.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		23.6	40.3		8.7	8.7	14.3	65.5			46.0	70.9	
Actuated g/C Ratio		0.19	0.32		0.07	0.07	0.11	0.52			0.37	0.57	
v/c Ratio		1.11	0.27		0.48	0.22	0.91	0.77			0.89	0.19	
Control Delay (s/veh)		146.3	24.8		76.6	65.8	102.8	36.1			60.5	11.3	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		146.3	24.8		76.6	65.8	102.8	36.1			60.5	11.3	
LOS		F	C		E	E	F	D			E	В	
Approach Delay (s/veh)		101.8			73.2			50.8			48.4		
Approach LOS		F			E			D			D		
Queue Length 50th (ft)		~250	61		45	20	~177	514			~476	58	
Queue Length 95th (ft)		#399	98		89	49	#333	#753			#620	84	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		196	465		125	124	196	822			554	833	
Starvation Cap Reductn		0	0		0	0	0	0			0	0	
Spillback Cap Reductn		0	0		0	0	0	0			0	0	
Storage Cap Reductn		0	0		0	0	0	0			0	0	
Reduced v/c Ratio		1.11	0.27		0.41	0.19	0.91	0.77			0.89	0.19	

Cycle Length: 140

Actuated Cycle Length: 125.3

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay (s/veh): 60.2 Intersection Capacity Utilization 84.2% Intersection LOS: E

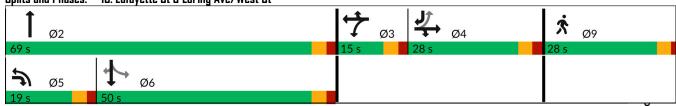
ICU Level of Service E

Analysis Period (min) 15

- ~ Volume exceeds capacity, queue is theoretically infinite.
 - Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Д 9
Lane Configurations	¥		7		4		ř	†			† }		
Traffic Volume (vph)	20	0	70	10	25	115	85	610	0	0	590	290	
Future Volume (vph)	20	0	70	10	25	115	85	610	0		590	290	
Satd. Flow (prot)	1516	0	1356	0	1366	0	1516	1595	0	0	2844	0	
Flt Permitted	0.950				0.997		0.155						
Satd. Flow (perm)	1516	0	1296	0	1366	0	247	1595	0	0	2844	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	22	0	76	0	163	0	88	629	0	0	910	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	20.0		20.0	20.0	20.0		20.0	63.0			43.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	7.9		15.6		22.1		71.0	71.0			54.5		
Actuated g/C Ratio	0.06		0.12		0.17		0.55	0.55			0.42		
v/c Ratio	0.24		0.48		0.71		0.37	0.72			0.76		
Control Delay (s/veh)	64.0		40.7		69.0		29.5	31.0			41.1		
Queue Delay	0.0		0.0		0.0		0.0	0.1			0.0		
Total Delay (s/veh)	64.0		40.7		69.0		29.5	31.1			41.1		
LOS	E		D		E		C	C			D		
Approach Delay (s/veh)		45.9			69.0			30.9			41.1		
Approach LOS		D			E			C			D		
Queue Length 50th (ft)	18		30		133		41	304			~412		
Queue Length 95th (ft)	47		54		#267		m51	m357			#594		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	163		197		231		271	870			1192		
Starvation Cap Reductn	0		0		0		0	10			0		
Spillback Cap Reductn	0		0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.13		0.39		0.71		0.32	0.73			0.76		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.76

Intersection Signal Delay (s/veh): 39.9 Intersection Capacity Utilization 67.9% Intersection LOS: D

ICU Level of Service C

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

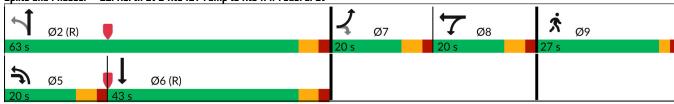
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 22: North St & Rte 107 ramp to Rte 114/Federal St



Intersection												
Int Delay, s/veh	6.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4						4	
Traffic Vol., veh/h	55	550	15	0	850	25	0	0	0	15	40	130
Future Vol, veh/h	55	550	15	0	850	25	0	0	0	15	40	130
Conflicting Peds, #/hr	10		10	10	0	10	10	0	10	10		10
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	95	95	95	92	92	92	90	90	90
Heavy Vehicles, %	5	5	5	3	3	3	2	2	2	1	1	1
Mvmt Flow	59	591	16		895	26	0			17	44	144
Major/Minor	Major1			Major2					<u> </u>	Minor2		
Conflicting Flow All	931		0	618	0	0				1638	1654	928
Stage 1	-	-	-	-	-	-				918	918	-
Stage 2	-	-	-	-	-	-				720	736	-
Critical Hdwy	4.15	-	-	4.13	-	-				6.41	6.51	6.21
Critical Hdwy Stg 1	-	-	-	-	-	-				5.41	5.51	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.41	5.51	-
Follow-up Hdwy	2.245	-	-	2.227	-	-				3.509	4.009	3.309
Pot Cap-1 Maneuver	723	-	-	958	-	-				111	99	326
Stage 1	-	-	-	-	-	-				391	352	-
Stage 2	-	-	-	-	-	-				484	427	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	716	-	-	958	-	-				96	0	321
Mov Cap-2 Maneuver	-	-	-	-	-	-				96	0	-
Stage 1	-	-	-	-	-	-				339	0	-
Stage 2	-	-	-	-	-	-				480	0	-
Approach	EB			WB						SB		
HCM Ctrl Dly, s/v	0.93			0						57.53		
HCM LOS										F		
Minor Lane/Major Mvm	t	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		159	-	-	958	-	-	258				
HCM Lane V/C Ratio		0.083	-	-	-	-	-	0.797				
HCM Ctrl Dly (s/v)		10.5		-		-	-					
HCM Lane LOS		В	A	-	A	-	-	F				
HCM 95th %tile Q(veh)		0.3	-	-	0	-	-	6.1				

Existing Conditions
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Intersection										
Int Delay, s/veh	1.3									
Movement	EBL	EBR	SEL	SET	SER	NWL	NWT	NWR	SWL	SWR
Lane Configurations	M	LOIN	ULL	4	ULIN		472	11711	UIIL	Unit
Traffic Vol, veh/h		20	20	852	20	40	1000	160		0
Future Vol., veh/h	0	20	20	852	20	40	1000	160	0	0
Conflicting Peds, #/hr		5	20	0	10	0	0	20		
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	-	None	-	-	None	-	-
Storage Length	0	-	-	-	-	-	-	-	-	0
Veh in Median Storage,	# []	-	-	0	-	-		-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	91	91	91	92	92	92	92	92
Heavy Vehicles, %	2	2	3	3	3	3	3	3	3	3
Mvmt Flow	0	22	22	936	22	43	1087	174	0	0
Major/Minor	Minor1		Major1		١	Major2			Minor2	
Conflicting Flow All	1652	962	1281	0	0	968	0	0	-	670
Stage 1	1001	-	-	-	-	-	-	-	-	-
Stage 2	650	-	-	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.23	4.145	-	-	4.145	-	-	-	6.945
Critical Hdwy Stg 1	6.13	-	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	-	-	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	3.319 2	2.2285	-	- 2	2.2285	-	-	- (3.3285
Pot Cap-1 Maneuver	71	309	535	-	-	704	-	-		398
Stage 1	292	-	-	-	-	-	-	-	0	-
Stage 2	425	-	-	-	-	-	-	-		-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	54	305	526	-	-	698	-	-	-	384
Mov Cap-2 Maneuver	54	-	-	-	-	-	-	-	-	-
Stage 1	263	-	-	-	-	-	-	-	-	-
Stage 2	356	-	-	-	-	-	-	-	-	-
Approach	EB		SE			NW			SW	
HCM Ctrl Dly, s/v	32.46		0.27			1.14			14.93	
HCM LOS	D2.70		U.LI			1.1			В	
Minor Lane/Major Mvm	ıt	NWL	NWT	NMB	EBLn1	SEL	SET	SER	SWLn1	
Capacity (veh/h)		101	-	-	158	40	- UL1	- ULIN	384	
HCM Lane V/C Ratio		0.062	-		0.172		-		0.057	
HCM Ctrl Dly (s/v)		10.5	0.9	-	32.5	12.1	0	-	14.9	
HCM Lane LOS		10.3 B	Α.Δ		02.0 D	12.1 B	A	-	14.3 B	
HCM 95th %tile Q(veh)		0.2	A -	-	0.6	0.1	A -	-	0.2	
ווטויו טטנוו /טנווכ ש(1811)		U.Z			U.U	U.I	_		U.L	

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			ħЪ	
Traffic Vol, veh/h	5	Ö	5	10	5	70	0	635	0	0	630	5
Future Vol, veh/h	5	0	5	10	5	70	0	635	0	0	630	5
Conflicting Peds, #/hr	10		10	10		10	10		10	10		10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-		-	-	0	-	-		-	-		-
Peak Hour Factor	84	84	84	84	84	84	97	97	97	94	94	94
Heavy Vehicles, %	4	4	4	2	2	2	3	3	3	4	4	4
Mvmt Flow	6	0	6	12	6	83	0	655	0	0	670	5
Major/Minor	Minor2			Minor1			Major1		1	Major2		
Conflicting Flow All	1350	1338	358	1000	1340	665	686	0	-	-	-	0
Stage 1	683	683	-	655	655	-	-	-	-	-	-	-
Stage 2	668	655	-	345	686	-	-	-	-	-	-	-
Critical Hdwy	7.36	6.56	6.96	7.33	6.53	6.23	4.145	-	-	-	-	-
Critical Hdwy Stg 1	6.56	5.56	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.16	5.56	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.538	4.038	3.338	3.519	4.019		2.2285	-	-	-	-	-
Pot Cap-1 Maneuver	116	150	635	209	152	459	900	-	0	0	-	-
Stage 1	402	444	-	454	462	-	-	-	0	0	-	-
Stage 2	443	458	-	644	447	-	-	-	0		-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	90	149	624	206	151	455	892	-	-	-	-	-
Mov Cap-2 Maneuver	90	149	-	206	151	-	-	-	-	-	-	-
Stage 1	399	441	-	454	462	-	-	-	-	-	-	-
Stage 2	354	458	-	633	443	-	-	-	-	-	-	-
Approach	EB			WB			NB			ZB		
HCM Ctrl Dly, s/v	29.86			18.82						0		
HCW FOZ	D			C								
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		892	-	157	361	-	-					
HCM Lane V/C Ratio		-	-	0.076	0.28	-	-					
HCM Ctrl Dly (s/v)			-	29.9	18.8	-	-					
HCM Lane LOS		A	-	D	С	-	-					
HCM 95th %tile Q(veh)			-	0.2	1.1	-	-					
,												

Intersection												
Int Delay, s/veh	18											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			¥			4			1	
Traffic Vol, veh/h	5	Ö	5	75	Ö	90	5	665	0	0	590	5
Future Vol. veh/h	5	0	5	75	0	90	5	665	0	0	590	5
Conflicting Peds, #/hr	20		20	20	0	20	20	0	20	20	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	88	92	88	92	87	87	89	89	92
Heavy Vehicles, %	2	2	2	4	4	4	2	4	4	5	5	2
Mvmt Flow	5	0	5	85	0	102	5	764	0	0	663	5
Major/Minor	Minor2			Minor1			Major1		<u> </u>	1ajor2		
Conflicting Flow All	1481	1461	706	1458	1464	784	688	0	-	-	-	0
Stage 1	686	686	-	775	775	-	-	-	-	-	-	-
Stage 2	795	775	-	683	688	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.14	6.54	6.24	4.12	-	-	-	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.14	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.14	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.536	4.036	3.336	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	104	129	436	106	127	390	906	-		0	-	-
Stage 1	438	448	-	388	405	-	-	-	0	0	-	-
Stage 2	381	408	-	436	444	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	72	125	421	102	124	383	890	-	-	-	-	-
Mov Cap-2 Maneuver	72	125	-	102	124	-	-	-	-	-	-	-
Stage 1	430	440	-	384	401	-	-	-	-	-	-	-
Stage 2	271	403	-	423	436	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	36.9			154.45			0.06			0		
HCM LOS	E			F								
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		13	-	124	170	-	-					
HCM Lane V/C Ratio		0.006	-	0.088	1.103	-	-					
HCM Ctrl Dly (s/v)		9.1	0	36.9	154.5	-	-					
HCM Lane LOS		Α	A	E	F	-	-					
HCM 95th %tile Q(veh)			-	0.3	9.6	-	-					

Intersection												
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	EDL	4	LUIN	WUL	WDI	AA DIV	NUL	IIDII	NON	UUL	4	וווני
Traffic Vol, veh/h	5	30	5		0	0	5	570	250	110	610	10
Future Vol, veh/h	5	30	5	0	0		5	570	250 250	110	610	10
		2U	10	10	0	10	20	0/0	25U 50	50	010	20
Conflicting Peds, #/hr									Free		Free	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free		Free		Free
RT Channelized	-	-	None	-	-	None	-	-	None -	-	-	None
Storage Length	-	- n	-	-	-	-	-	- n		-	-	-
Veh in Median Storage		0	-	-	0	-	-	0	-	-	0	-
Grade, %	- nn	0	- nn	- 00	[]	-	- 0F	0	- nr	- -	0	- -
Peak Hour Factor	82	82	82	92	92	92	95	95	95	91	91	91
Heavy Vehicles, %	4	4	4	0	0	0	3	3	3	5	5	5
Mvmt Flow	6	37	6	0	0	0	5	600	263	121	670	11
Major/Minor	Minor2						Majorl			Major2		
Conflicting Flow All	1558	1861	706				701	0	0	913	0	0
Stage 1	938	938	-				-	-	-	-	-	-
Stage 2	621	924	_				_	_	_	_	-	_
Critical Hdwy	6.44	6.54	6.24				4.13	-	-	4.15	-	-
Critical Hdwy Stg 1	5.44	5.54	-				-	_	_	-	_	_
Critical Hdwy Stg 2	5.44	5.54	-				_	_	_	_	_	_
Follow-up Hdwy	3.536		3.336				2.227	_	_	2.245	-	_
Pot Cap-1 Maneuver	122	72	433				891	_	_	734	_	_
Stage 1	378	341	-				- 1001	_	_	7 UT -	_	_
Stage 2	532	346	_				_	_	_		_	_
Platoon blocked, %	JUL	טדט						_	_		_	_
Mov Cap-1 Maneuver	86	0	421				876	_	_	734	_	_
Mov Cap-2 Maneuver	86	0	421				- 070	-	-	104	-	-
Stage 1	367	0	-				_	_	-	-	-	-
	384	0	-				-	-	-		-	-
Stage 2	ან4	U	-				-	-	-	-	_	-
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	42.86						0.06			1.64		
HCM LOS	E											
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		10	-	-	143	270	-	-				
HCM Lane V/C Ratio		0.006	_			0.165	_	_				
HCM Ctrl Dly (s/v)		9.1		_	42.9	10.9	0	_				
HCM Lane LOS		A	A	-	42.3 E	10.3 B	A	_				
HCM 95th %tile Q(veh))		A -	-	1.4	0.6	A -	-				
ווטא טטנוו /טנווצ של/1611					1.4	U.U						

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Intersection												
Int Delay, s/veh	0.9											
IIIL DEIBY, S7 VEII												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5		5	5	0	25	5	760	15	10	525	5
Future Vol, veh/h	5	0	5	5	0	25	5	760	15	10	525	5
Conflicting Peds, #/hr	20		20	20		20	20		20	20	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-		-
Peak Hour Factor	83	83	83	78	78	78	94	94	94	95	95	95
Heavy Vehicles, %	10	10	10	0	0	0	4	4	4	6	6	6
Mvmt Flow	6	0	6	6	0	32	5	809	16	- 11	553	5
Major/Minor	Minor2			Minor1			Major1		,	Major2		
_		1451	595	1441	1446	856	Majuri 578			844	0	П
Conflicting Flow All	1435					468	۵/۵		0	844 -		0
Stage 1	596	596	-	847	847				-		-	-
Stage 2	839	855	- -	594	599	- -	- 4.4.	-	-	- 4 (P	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.14	-	-	4.16	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	- D DC /	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.236	-	-	2.254	-	-
Pot Cap-1 Maneuver	107	126	489	112	133	360	986	-	-	775	-	-
Stage 1	476	479	-	359	381	-	-	-	-	-	-	-
Stage 2	349	364	-	495	494	-	-	-	-	-	-	-
Platoon blocked, %		,,,,	/80	100	10.1	0.45	000	-	-	701	-	-
Mov Cap-1 Maneuver	91	118	473	103	124	348	969	-	-	761	-	-
Mov Cap-2 Maneuver	91	118	-	103	124	-	-	-	-	-	-	-
Stage 1	459	461	-	349	370	-	-	-	-	-	-	-
Stage 2	308	354	-	471	475	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	30.65			22.06			0.06			0.18		
HCM LOS	D			C								
Minor Lane/Major Mvm	+	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		11	1101	-	152	249	33	- 100	- 100			
HCM Lane V/C Ratio		0.005	-		0.079	0.154	0.014	-	-			
HCM Ctrl Dly (s/v)		8.7	0	_	30.6	22.1	9.8		-			
HCM Lane LOS		۵. <i>۱</i> A	A	-	0.0 D	ZZ.1 C	0.c A	A	-			
HCM 95th %tile Q(veh)			A -	-	0.3	0.5		A -	-			
ווטאן סטווו /סנווצ מל(LU)		П	-	-	0.0	0.0	U	-	-			

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Intersection						
Int Delay, s/veh	6.3					
, Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL			ZION	PDL	
Lane Configurations	п	₹	↑↑	П	П	↑ ↑
Traffic Vol., veh/h	0	455	745	0	0	875
Future Vol., veh/h	0	455	745	0	0	875
Conflicting Peds, #/hr	0	0	_ 0	_ 0	0	. 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow		474	776			911
M=:== /M:===	M:1		M_:1		/a:=:=0	
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	388	0	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.96	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Fallow-up Hdwy	-	3.33	-	-	-	-
Pot Cap-1 Maneuver	0	608	-		0	-
Stage 1	0	-	-	0	0	-
Stage 2		-	-			-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	-	608	-	-	-	-
Mov Cap-2 Maneuver	-		-	-	-	-
Stage 1	_	_	_	-	_	-
Stage 2	-	_	_	-	_	-
orago z						
Approach	WB		NB		SB	
HCM Ctrl Dly, s/v	WB 28.72		NB O		SB	
HCM Ctrl Dly, s/v	28.72					
HCM Ctrl Dly, s/v HCM LOS	28.72 D	MDT	0	тар		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvmt	28.72 D	NBT	O WBLn1	SBT		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvmt Capacity (veh/h)	28.72 D	-	WBLn1 608	-		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	28.72 D	NBT - -	WBLn1 608 0.78	-		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	28.72 D	- - -	WBLn1 608 0.78 28.7	- - -		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	28.72 D	-	WBLn1 608 0.78	-		

Part 2: 2025 Existing Conditions: Weekday PM Peak-Hour LOS and Delays

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	Ŋ	1		Ĭ	ĵ.			4			4		
Traffic Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Future Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Satd. Flow (prot)	1711	1564	0	1711	1562	0	0	1495	0	0	1753	0	
Flt Permitted	0.065			0.131				0.979			0.977		
Satd. Flow (perm)	117	1564	0	236	1562	0	0	1495	0	0	1753	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	11	690	0	16	779	0	0	188	0		324	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	67.0	67.0		67.0	67.0		29.0	29.0		29.0	29.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	61.8	61.8		61.8	61.8			20.4			23.3		
Actuated g/C Ratio	0.45	0.45		0.45	0.45			0.15			0.17		
v/c Ratio	0.21	0.98		0.15	1.11			0.85			1.09		
Control Delay (s/veh)	42.3	68.7		32.7	104.6			90.3			131.7		
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	42.3	68.7		32.7	104.6			90.3			131.7		
LOS	D	E		C	F			F			F		
Approach Delay (s/veh)		68.3			103.2			90.3			131.7		
Approach LOS		E			F			F			F		
Queue Length 50th (ft)	7	~755		10	~936			181			~385		
Queue Length 95th (ft)	28	#1002		30	#1190			#281			#565		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	52	703		105	702			253			297		
Starvation Cap Reductn	0	0		0	0			0					
Spillback Cap Reductn		0		0	0			0			0		
Storage Cap Reductn	0	0		0	0			0					
Reduced v/c Ratio	0.21	0.98		0.15	1.11			0.74			1.09		

Cycle Length: 150

Actuated Cycle Length: 137.5

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay (s/veh): 94.4

Intersection LOS: F

ICU Level of Service C

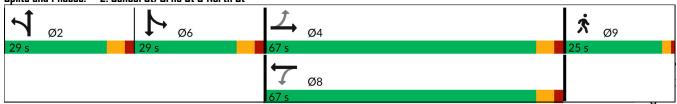
Intersection Capacity Utilization 69.8% Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 2: School St/Orne St & North St



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Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9
Lane Configurations	(Î		ħ	†		7		
Traffic Volume (vph)	750	30	445	715		170		
Future Volume (vph)	750	30	445	715	0	170		
Satd. Flow (prot)	1506	0	1441	1516		1312		
Flt Permitted			0.950					
Satd. Flow (perm)	1506	0	1441	1516		1260		
Satd. Flow (RTDR)								
Lane Group Flow (vph)	848		468	753	0	200		
Turn Type	NA		Prot	NA		pm+ov		
Protected Phases	6		5	2		5	4	9
Permitted Phases						4		
Total Split (s)	35.0		25.0	60.0		25.0	23.0	26.0
Total Lost Time (s)	4.0		5.0	4.0		5.0		
Act Effct Green (s)	32.0		20.6	60.6		20.6		
Actuated g/C Ratio	0.45		0.29	0.86		0.29		
v/c Ratio	1.24		1.11	0.58		0.52		
Control Delay (s/veh)	143.3		105.7	8.5		30.4		
Queue Delay	0.0		0.0	0.0		0.0		
Total Delay (s/veh)	143.3		105.7	8.5		30.4		
LOS	F		F	A		C		
Approach Delay (s/veh)	143.3			45.7	30.4			
Approach LOS	F			D	C			
Queue Length 50th (ft)	~357		164	0		56		
Queue Length 95th (ft)	#878		#525	413		161		
Internal Link Dist (ft)	1292			252	419			
Turn Bay Length (ft)								
Base Capacity (vph)	684		422	1304		384		
Starvation Cap Reductn			0	0		0		
Spillback Cap Reductn	0		0	0		0		
Storage Cap Reductn	0			0		0		
Reduced v/c Ratio	1.24		1.11	0.58		0.52		

Cycle Length: 109

Actuated Cycle Length: 70.4

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.24

Intersection Signal Delay (s/veh): 80.9

Intersection Capacity Utilization 95.4%

Intersection LOS: F

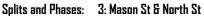
ICU Level of Service F

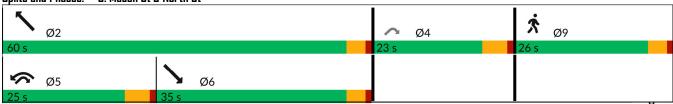
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		सी	*					ĵ.		ň	1		
Traffic Volume (vph)	105	100	40	0	0	0	0	485	45	135	580	70	
Future Volume (vph)	105	100	40	0	0	0	0	485	45	135	580	70	
Satd. Flow (prot)	0	1374	1369	0	0	0	0	1403		1531	1382	0	
Flt Permitted		0.975								0.195			
Satd. Flow (perm)	0	1374	1294	0	0	0	0	1403	0	314	1382	0	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	230	45	0	0	0	0	570	0	145	699	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	30.0	30.0	30.0					45.0		20.0	65.0		35.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		23.9	23.9					56.1		73.9	72.9		
Actuated g/C Ratio		0.18	0.18					0.43		0.57	0.56		
v/c Ratio		0.91	0.19					0.94		0.49	0.90		
Control Delay (s/veh)		89.4	46.5					63.7		32.2	42.5		
Queue Delay		0.0	0.0					1.0		0.0	0.0		
Total Delay (s/veh)		89.4	46.5					64.7		32.2	42.5		
LOS		F	D					E		C	D		
Approach Delay (s/veh)		82.4						64.7			40.8		
Approach LOS		F						E			D		
Queue Length 50th (ft)		190	32					~526		58	369		
Queue Length 95th (ft)		#331	68					#821		m88	m#721		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		264	248					605		334	774		
Starvation Cap Reductn		0	0					0		0	0		
Spillback Cap Reductn		0	0					5		0	0		
Storage Cap Reductn		0	0					0		0	0		
Reduced v/c Ratio		0.87	0.18					0.95		0.43	0.90		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.94

Intersection Signal Delay (s/veh): 55.6 Intersection Capacity Utilization 70.7% Intersection LOS: E ICU Level of Service C

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

	٠	→	\rightarrow	•	←	*	1	†	/	-	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ň	†	7	ň	1≽		ħ	^	7	ň	†	7	
Traffic Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Future Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Satd. Flow (prot)	1711	1801	1531	1531	1566	0	1531	3061	1369	1711	1801	1531	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1711	1801	1465	1531	1566	0	1531	3061	1263	1711	1801	1411	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	45	242	236	99	401	0	200	463	168	88	280	77	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	18.0	40.0	40.0	18.0	40.0		26.0	36.0	36.0	26.0	36.0	36.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	9.1	29.6	29.6	11.6	35.9		20.6	37.1	37.1	12.5	25.0	25.0	
Actuated g/C Ratio	0.07	0.22	0.22	0.09	0.27		0.15	0.28	0.28	0.09	0.19	0.19	
v/c Ratio	0.39	0.61	0.73	0.75	0.96		0.85	0.55	0.48	0.55	0.84	0.29	
Control Delay (s/veh)	75.6	57.0	65.6	96.8	86.3		89.2	50.0	53.8	76.2	76.3	54.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	75.6	57.0	65.6	96.8	86.3		89.2	50.0	53.8	76.2	76.3	54.1	
LOS	E	E	E	F	F		F	D	D	E	E	D	
Approach Delay (s/veh)		62.5			88.4			60.2			72.4		
Approach LOS		E			F			E			E		
Queue Length 50th (ft)	42	210	211	94	~428		191	207	140	82	256	63	
Queue Length 95th (ft)	85	305	313	#202	#666		#367	288	237	142	#393	116	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	160	479	390	143	419		239	848	349	267	422	331	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio	0.28	0.51	0.61	0.69	0.96		0.84	0.55	0.48	0.33	0.66	0.23	

Cycle Length: 150

Actuated Cycle Length: 134

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96

Intersection Signal Delay (s/veh): 69.2

Intersection Capacity Utilization 72.4%

Intersection LOS: E

ICU Level of Service C

Analysis Period (min) 15

- ~ Volume exceeds capacity, queue is theoretically infinite.
 - Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 9: Washington St & Norman St/New Derby St



	۶	→	\rightarrow	•	•	•	•	†	/	\	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	Ŋ	<u></u>	7		4	7	ř	† ‡		ř	<u></u>	7	
Traffic Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Future Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Satd. Flow (prot)	1711	1801	1531	0	1761	1501	1694	3316	0	1728	1818	1546	
Flt Permitted	0.950				0.955		0.950			0.950			
Satd. Flow (perm)	1711	1801	1453	0	1687	1436	1694	3316	0	1728	1818	1454	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	161	271	385	0	250	291	148	557	0	152	402	33	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	20.0	45.0	18.0	25.0	25.0	18.0	18.0	32.0		18.0	32.0	20.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	13.2	38.6	49.8		18.3	29.5	11.2	25.4		11.2	25.4	38.6	
Actuated g/C Ratio	0.11	0.31	0.40		0.15	0.24	0.09	0.21		0.09	0.21	0.31	
v/c Ratio	0.88	0.48	0.65		1.00	0.83	0.96	0.81		0.97	1.07	0.07	
Control Delay (s/veh)	97.0	40.1	27.2		110.9	48.1	121.4	58.9		122.1	114.7	29.3	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	97.0	40.1	27.2		110.9	48.1	121.4	58.9		122.1	114.7	29.3	
LOS	F	D	C		F	D	F	E		F	F	C	
Approach Delay (s/veh)		45.2			77.1			72.1			111.8		
Approach LOS		D			E			E		400	F		
Queue Length 50th (ft)	137	191	146		~233	133	~134	242		~138	~398	19	
Queue Length 95th (ft)	#277	281	255		#379	#260	#265	#323		#280	#601	43	
Internal Link Dist (ft)		253			828			250			528		
Turn Bay Length (ft)						300	300					,	
Base Capacity (vph)	184	565	595		250	349	154	684		157	375	466	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Reduced v/c Ratio	0.88	0.48	0.65		1.00	0.83	0.96	0.81		0.97	1.07	0.07	

Cycle Length: 130

Actuated Cycle Length: 123

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.07

Intersection Signal Delay (s/veh): 73.6

Intersection Capacity Utilization 75.0%

ICH

Intersection LOS: E ICU Level of Service D

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 10: Canal St & Mill St & Washington St



	ሽ	†	۴	/	(\	ļ	M	>	Ļ	4	*	t	
Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	, j	†				ħ	4		7		M			
Traffic Volume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Future Volume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Satd. Flow (prot)	1678	1511	0	0	0	1728	1584	0	1558	0	1578	0	0	
Flt Permitted	0.175					0.950					0.971			
Satd. Flow (perm)	309	1511	0	0	0	1728	1584	0	1455	0	1578	0	0	
Satd. Flow (RTDR)									*100					
Lane Group Flow (vph)	351	341	0	0	0	68	453	0	401	0	25	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	22.0	44.0			16.0	16.0	38.0		23.0	17.0	17.0			24.0
Total Lost Time (s)	6.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	56.0	41.5				8.3	31.1		18.7		7.3			
Actuated g/C Ratio	0.52	0.39				0.08	0.29		0.17		0.07			
v/c Ratio	0.94	0.58				0.51	0.98		1.19		0.23			
Control Delay (s/veh)	58.8	38.1				67.5	79.6		143.4		58.6			
Queue Delay	0.0	0.0				0.0	0.0		0.0		0.0			
Total Delay (s/veh)	58.8	38.1				67.5	79.6		143.4		58.6			
LOS	E	D				E	E		F		E			
Approach Delay (s/veh)		48.6					78.0				58.6			
Approach LOS		D					E				E			
Queue Length 50th (ft)	~235	244				53	~422		~341		19			
Queue Length 95th (ft)	#439	#393				#119	#644		#513		49			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	374	585				134	461		336		145			
Starvation Cap Reductn	0	0				0	0		0		0			
Spillback Cap Reductn	0	0				0	0		0		0			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.94	0.58				0.51	0.98		1.19		0.17			

Cycle Length: 124

Actuated Cycle Length: 106.9

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.19

Intersection Signal Delay (s/veh): 81.3 Intersection Capacity Utilization 72.6% Intersection LOS: F
ICU Level of Service C

Analysis Period (min) 15

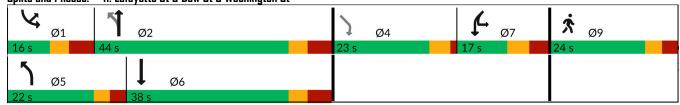
- * User Entered Value
- Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 11: Lafayette St & Dow St & Washington St



	۶	-	•	•	←	•	•	†	/	\	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4	7		4	7	ř	4			र्स	7	
Traffic Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Future Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Satd. Flow (prot)	0	1479	1501	0	1569	1561	1694	1552	0	0	1559	1516	
Flt Permitted		0.700			0.976		0.950				0.991		
Satd. Flow (perm)	0	1082	1501	0	1569	1561	1694	1552	0	0	1546	1516	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	294	100	0	68	14	179	631	0	0	437	207	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	45	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	34.0	34.0		16.0	16.0	16.0	17.0	62.0		45.0	45.0	34.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		30.0	44.9		9.5	9.5	12.4	57.0			39.4	70.8	
Actuated g/C Ratio		0.24	0.36		0.08	0.08	0.10	0.46			0.32	0.57	
v/c Ratio		1.12	0.18		0.57	0.12	1.05	0.88			0.89	0.24	
Control Delay (s/veh)		137.3	21.4		79.0	62.0	139.4	49.7			64.2	11.1	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		137.3	21.4		79.0	62.0	139.4	49.7			64.2	11.1	
LOS		F	C		E	E	F	D			E	В	
Approach Delay (s/veh)		107.9			76.1			69.5			47.1		
Approach LOS		F			E			E			D		
Queue Length 50th (ft)		~344	45		61	12	~201	569			398	73	
Queue Length 95th (ft)		#450	68		92	29	#358	#833			#588	107	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		262	544		144	143	170	738			516	867	
Starvation Cap Reductn		0	0		0	0	0	0			0	0	
Spillback Cap Reductn		0	0		0	0	0	0			0	0	
Storage Cap Reductn		0	0		0	0	0	0			0	0	
Reduced v/c Ratio		1.12	0.18		0.47	0.10	1.05	0.86			0.85	0.24	

Cycle Length: 140

Actuated Cycle Length: 123.7

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.12

Intersection Signal Delay (s/veh): 70.1 Intersection Capacity Utilization 82.8% Intersection LOS: E

ICU Level of Service E

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



	٠	→	•	•	←	•	•	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ		7		43-		ř	†			† }		
Traffic Volume (vph)	45	0	105	10	20	90	100	555	0	0	690	220	
Future Volume (vph)	45	0	105	10	20	90	100	555	0	0	690	220	
Satd. Flow (prot)	1501		1343	0	1384	0	1546	1627	0		2924	0	
Flt Permitted	0.950				0.996		0.097						
Satd. Flow (perm)	1501	0	1284	0	1384	0	158	1627	0	0	2924	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	51	0	118	0	223	0	106	590	0	0	1034	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	20.0		20.0	20.0	20.0		20.0	63.0			43.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	10.0		19.7		20.6		67.8	67.8			50.8		
Actuated g/C Ratio	0.08		0.15		0.16		0.52	0.52			0.39		
v/c Ratio	0.44		0.59		1.02		0.53	0.70			0.91		
Control Delay (s/veh)	68.4		40.4		120.7		44.8	30.9			51.1		
Queue Delay	0.0		0.0		0.0		0.0	0.1			0.0		
Total Delay (s/veh)	68.4		40.4		120.7		44.8	31.1			51.1		
LOS	E		D		F		D	C			D		
Approach Delay (s/veh)		48.8			120.7			33.2			51.1		
Approach LOS		D			F			C			D		
Queue Length 50th (ft)	42		46		~221		58	286			~538		
Queue Length 95th (ft)	83		72		#200		m82	m345			#681		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	161		229		218		231	848			1142		
Starvation Cap Reductn	0		0		0		0	16			0		
Spillback Cap Reductn	0		0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.32		0.52		1.02		0.46	0.71			0.91		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.02

Intersection Signal Delay (s/veh): 52.4 Intersection Capacity Utilization 66.7% Intersection LOS: D

ICU Level of Service C

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

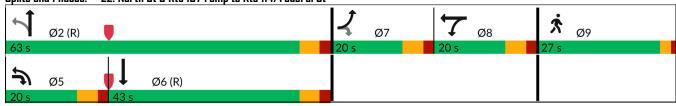
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 22: North St & Rte 107 ramp to Rte 114/Federal St



Intersection												
Int Delay, s/veh	8.3											
IIIL DEIBY, S/ VEN												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4						4	
Traffic Vol, veh/h	30	610	35	10	800	10	0	0	0	15	30	150
Future Vol, veh/h	30	610	35	10	800	10	0	0		15	30	150
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	93	93	93	92	92	92	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	1	1	1
Mvmt Flaw	34	701	40	11	860	11	0	0	0	18	36	181
Major/Minor	Major1			Major2					N	Minor2		
Conflicting Flow All	881	0	0	751	0	0				1677	1717	886
Stage 1	-	-	-	-	-	-				897	897	-
Stage 2	-	_	-	_	_	_				780	820	_
Critical Hdwy	4.12	-	-	4.12	-	-				6.41	6.51	6.21
Critical Hdwy Stg 1	-	_	-	-	-	-				5.41	5.51	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.41	5.51	-
Follow-up Hdwy	2.218	-	-	2.218	-	-					4.009	3.309
Pot Cap-1 Maneuver	767	-	-	858	-	-				105	90	345
Stage 1	-	-	-	-	-	-				400	360	-
Stage 2	-	-	-	-	-	-				454	390	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	761	-	-	858	-	-				93	0	339
Mov Cap-2 Maneuver	-	-	-	-	-	-				93	0	-
Stage 1	-	-	-	-	-	-				365	0	-
Stage 2	-	-	-	-	-	-				439	0	-
, i												
Approach	EB			WB						SB		
•••	0.44			0.11								
HCM Ctrl Dly, s/v	U.44			U.II						64.61		
HCW FOZ										F		
Minor Lane/Major Mvm	t	EBL	EBT	EBR	WBL	WBT	WBR					
Capacity (veh/h)		79	-	-	22	-	-	273				
HCM Lane V/C Ratio		0.045	-	-	0.013	-	-	0.859				
HCM Ctrl Dly (s/v)		10	0	-	9.2	0	-	64.6				
HCM Lane LOS		A	A	-	A	A	-	F				
HCM 95th %tile Q(veh)		0.1	-	-	0	-	-	7.3				

Existing Conditions
Seth
Synchro 12 Report
Page 1

Intersection Int Delay, s/veh										
iiit belay, 87 veii	4.5									
Movement	EBL	EBR	SEL	SET	SER	NWL	NWT	NWR	SWL	SWR
Lane Configurations	M			4			414			
Traffic Vol, veh/h	5	25	15	910	15	20	1100	125	0	0
Future Vol., veh/h	5	25	15	910	15	20	1100	125	0	0
Conflicting Peds, #/h	r 0	5	20		10			20		
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	-	None	-	-	None	-	-
Storage Length	0	-	-	-	-	-	-	-	-	0
Veh in Median Storage		-	-	0	-	-	0	-	0	-
Grade, %		-	-	0	-	-	0	-	0	-
Peak Hour Factor	67	67	91	91	91	91	91	91	71	71
Heavy Vehicles, %	8	8	2	2	2	2	2	2	5	5
Mvmt Flow	7	37	16	1000	16	22	1209	137	0	
							0			_
Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	1720	1023	1366	0	0	1026	0	0	-	713
Stage 1	1051	-	-	-	-	-	-	-	_	/10
Stage 2	668	_	_	_	_	_	_	_	_	_
Critical Hdwy	7.42	6.32	4.13	_	_	4.13	_	_	-	6.975
Critical Hdwy Stg 1	6.22	U.UZ -	T.IU		_	T.IU	_	_	_	0.070
Critical Hdwy Stg 2	6.62	-	-	-	-	-	-	_	_	-
	2	2	2.219	- -	- -	2.219	-	-		- 3.3475
Follow-up Hdwy	2 81	392	501		-	674			- ,	370
Pot Cap-1 Maneuver	386	აყ <u>/</u>	JUI	-		0/4	-	-	0	
Stage 1			-	-	-	-	-	-		-
Stage 2	630	-	-	-	-	-	-	-	0	-
Platoon blocked, %	00	nnn	, nn	-	-	ppn	-	-		חרים
Mov Cap-1 Maneuver	63	386	492	-	-	668	-	-	-	357
Mov Cap-2 Maneuver	63	-	-	-	-	-	-	-	-	-
Stage 1	354	-	-	-	-	-	-	-	-	-
Stage 2	540	-	-	-	-	-	-	-	-	-
Approach	EB		SE			NW			SM	
HCM Ctrl Dly, s/v	129.33		0.2			0.65			15.96	
HCM LOS	F								С	
Minor Lane/Major Mvi	mt	NWL	NWT	NWR	EBLn1	SEL	SET	SER	SWLn1	
Capacity (veh/h)		51	-	-	92	29	-	-	357	
HCM Lane V/C Ratio		0.033	-	_	0.814		_	-	0.079	
HCM Ctrl Dly (s/v)		10.6	0.5	-	129.3	12.6	0	-	16	
HCM Lane LOS		B	A	_	F	B	A	-	C	
HCM 95th %tile Q(veh	1)	0.1	- -	-	4.3	0.1	- -	-	0.3	
ווטמי טטנוו אטנווכ ש(191	1	U.I			7.0	U.I	<u>=</u>		U.U	

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			ħЪ	
Traffic Vol, veh/h		Ö		20	0	115		590			760	5
Future Vol. veh/h	0	0	0	20	0	115	0	590	0	0	760	5
Conflicting Peds, #/hr	10	0	10	10		10	10	0	10	10	0	10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	77	77	77	93	93	93	90	90	90
Heavy Vehicles, %				1	1	1	1	1	1	2	2	2
Mvmt Flow	0	0	0	26	0	149	0	634	0		844	6
Major/Minor	Minor2			Minor1			Major1		<u> </u>	1ajor2		
Conflicting Flow All	1502	1492	445	1067	1494	644	860	0	-	-	-	0
Stage 1	857	857	-	634	634	-	-	-	-	-	-	-
Stage 2	644	634	-	432	860	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.315	6.515	6.215	4.115	-	-	-	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.115	5.515	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.515	5.515			-	-	-	-	-
Follow-up Hdwy	3.5	4				3.3095 2		-	-	-	-	-
Pot Cap-1 Maneuver	93	125	566	189	123	474	785	-	0	0	-	-
Stage 1	322	377	-	468	474	-	-	-	0		-	-
Stage 2	465	476	-	575	374	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	62	124	556	187	122	470	778	-	-	-	-	-
Mov Cap-2 Maneuver	62	124	-	187	122	-	-	-	-	-	-	-
Stage 1	320	373	-	468	474	-	-	-	-	-	-	-
Stage 2	314	476	-	570	370	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0			22.02			0			0		
HCM LOS	A			C								
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		778	-	-	384	-	-					
HCM Lane V/C Ratio		-	-	-		-	-					
HCM Ctrl Dly (s/v)			-		22	-	-					
HCM Lane LOS		A	-	A	С	-	-					
HCM 95th %tile Q(veh)		0	-	-	2.3	-	-					
. ,												

Intersection												
Int Delay, s/veh	24.2											
	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Movement Lane Configurations	EDL	CDI	ZDIZ	WDL	WDI	ZIO W	INDL	IDN 4	NDIX	9DT	1 <u>00</u>	2017
Traffic Vol, veh/h	5	T	10	160	T	90	5	€ 4 585		0	730	10
Future Vol, veh/h	5	0	10	160	0	90	5	585	0	0	730	10
Conflicting Peds, #/hr		0	20	20	0	20	20	0	20	20	730	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	- -	- arap	None	- -	- -	None	-	-	None	-	-	None
Storage Length	_	_	-	-	_	-	_	_	-	_	_	-
Veh in Median Storage,		0	-	-	0	_	-	0	-	-	0	_
Grade, %	-	0	_	_	Ō	_	_	Ō	_	-	0	_
Peak Hour Factor	63	63	63	94	94	94	86	86	86	94	94	94
Heavy Vehicles, %	0	0	0	4	4	4	2	2	2	2	2	2
Mvmt Flow	8		16	170	0	96	6	680	0	0	777	11
Major/Minor	Minor2			Minor1			Majorl		N	Major2		
Conflicting Flow All	1514	1494	822	1488	1499	700	807	0		110jul Z -	_	0
Stage 1	802	802	-	692	692	-	-	-	_	_	_	_
Stage 2	712	692	_	797	807	-	_	_	_	_		_
Critical Hdwy	7.1	6.5	6.2	6.5	6.54	6.24	4.12	_	_	_	_	_
Critical Hdwy Stg 1	6.1	5.5	-	6.14	5.54	- 0.27	T.1Z	_	_	_	_	_
Critical Hdwy Stg 2	6.1	5.5	-	6.14	5.54	_	_	_	_	_	_	_
Follow-up Hdwy	3.5	4	3.3	2	2	2	2.218	_	_	_	_	_
Pot Cap-1 Maneuver	99	124	377	180	174	645	818	_	0	0	_	_
Stage 1	381	399	-	666	748	-	-	_	0	0	_	_
Stage 2	427	448	-	573	645	-	-	-	0		-	-
Platoon blocked. %					- 1-			-	=	=	-	-
Mov Cap-1 Maneuver	80	121	364	~ 167	169	634	804	-	-	-	-	_
Mov Cap-2 Maneuver	80	121	-	~ 167	169	-	-	-	-	-	-	-
Stage 1	374	392	-	658	739	-	-	-	-	-	-	-
Stage 2	352	443	-	538	634	-	-	-	-	-	-	-
J												
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	30.06			157.65			0.08			0		
HCM LOS	30.00 D			107.00 F			0.00			U		
ווטויו בטט	U			ı								
W: 1 /4 · V		HPI	HDT	CDI (WPL 4	OPT	000					
Minor Lane/Major Mym	1t	NBL	NBT			SBT	SBR					
Capacity (veh/h)		15	-	167	228	-	-					
HCM Lane V/C Ratio		0.007	-	0.142	1.169	-	-					
HCM Ctrl Dly (s/v)		9.5		30.1	157.6	-	-					
HCM Lane LOS		A	A -	D 0.5	F 12.7	-	-					
HCM 95th %tile Q(veh)				U.3	1Z. <i>1</i>	-						
Notes												
~: Volume exceeds cap		\$: Delay										
+: Computation Not Def	tined	*: All ma	ijor voli	ıme in p	olatoon							

Intersection												
Int Delay, s/veh	2.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4						4			4	
Traffic Vol, veh/h	10	15	5		0	0	10	575	210	90	770	10
Future Vol, veh/h	10	15	5	0	0	0	10	575	210	90	770	10
Conflicting Peds, #/hr	10		10	10		10	20		50	50		20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-		-	-		-
Grade, %	-		-	-	0	-	-	0	-	-		-
Peak Hour Factor	61	61	61	92	92	92	88	88	88	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	2	2	2	3	3	3
Mvmt Flow	16	25	8	0	0	0	11	653	239	97	828	11
Major/Minor	Minor2						Majorl		<u> </u>	Major2		
Conflicting Flow All	1733	2012	863				859	0	0	942	0	0
Stage 1	1047	1047	-				-	-	-	-	-	-
Stage 2	686	965	-				-	-	-	-	-	-
Critical Hdwy	6.4	6.5	6.2				4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	5.4	5.5	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-				-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3				2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	98	60	357				782	-	-	724	-	-
Stage 1	341	308	-				-	-	-	-	-	-
Stage 2	504	336	-				-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	68	0	348				769	-	-	724	-	-
Mov Cap-2 Maneuver	68	0	-				-	-	-	-	-	-
Stage 1	325	0	-				-	-	-	-	-	-
Stage 2	371	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	80						0.12			1.11		
HCM LOS	F											
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		21	-	-	93	186	-	-				
HCM Lane V/C Ratio		0.015	-	-	0.526	0.134	-	-				
HCM Ctrl Dly (s/v)		9.8		-	80	10.7		-				
HCM Lane LOS		Α	A	-	F	В	Ā	-				
HCM 95th %tile Q(veh)			-	-	2.3	0.5	-	-				
,												

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Intersection												
Int Delay, s/veh	2.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	5	5	10	Ö	25	5	715	10	45	680	15
Future Vol., veh/h	5	5	5	10	0	25	5	715	10	45	680	15
Conflicting Peds, #/hr	· 20		20	20		20	20		20	20		20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-		-	-		-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	69	69	69	93	93	93	96	96	96
Heavy Vehicles, %	10	10	10				3	3	3	2	2	2
Mvmt Flow	6	6	6	14	0	36	5	769	11	47	708	16
Major/Minor	Minor2			Minor1			Major1		N	lajor2		
Conflicting Flow All	1629	1640	756	1630	1643	814	744	0	0	800	0	0
Stage 1	830	830	-	805	805	-	-	-	-	-	-	-
Stage 2	800	810	-	825	838	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.13	-	-	4.12	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.227	-	-	2.218	-	-
Pot Cap-1 Maneuver	78	96	395	82	101	381	859	-	-	823	-	-
Stage 1	353	374	-	379	398	-	-	-	-	-	-	-
Stage 2	367	382	-	370	385	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	61	83	382	65	87	368	844	-	-	809	-	-
Mov Cap-2 Maneuver	61	83	-	65	87	-	-	-	-	-	-	-
Stage 1	313	332	-	368	387	-	-	-	-	-	-	-
Stage 2	322	371	-	317	341	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	50.95			38.14			0.06			0.59		
HCM LOS	F			Е								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		12	-	-	96	158	109	-	-			
HCM Lane V/C Ratio		0.006	-	-	0.188	0.321		-	-			
HCM Ctrl Dly (s/v)		9.3	0	-	50.9	38.1	9.7	0	-			
HCM Lane LOS		А	A	-	F	Е	А	Α	-			
HCM 95th %tile Q(veh))	0	-	-	0.7	1.3	0.2	-	-			

Existing Conditions
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Intersection												
Int Delay, s/veh	3.2											
		ГПТ	רטט	WILL	WIT	WIDD	Nilli	ИПТ	Nun	וחס	דחים	חחס
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	(F	4	ηΓ	г	4	10	([4	10	חח	4	חח
Traffic Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30
Future Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30
Conflicting Peds, #/hr		0	10	10	0	10	12	_ 0	12	12	_ 0	12
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,		0	-	-	0	-	-	0	-	-	0	-
Grade, %	- 70	0	- 70	- D/	0	- D/	-	0	-	-	0	-
Peak Hour Factor	75	75	75	64	64	64	96	96	96	98	98	98
Heavy Vehicles, %	4	4	4	6	6	6	3	3	3	2	2	2
Mvmt Flow	20	20	33	8	8	16	16	724	10	20	607	31
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1444	1453	644	1440	1463	751	650	0	0	746	0	0
Stage 1	675	675	-	772	772	-	-	-	-	-	-	-
Stage 2	769	778	-	668	691	-	-	-	-	-	-	-
Critical Hdwy	7.14	6.54	6.24	7.16	6.56	6.26	4.13	-	-	4.12	-	-
Critical Hdwy Stg 1	6.14	5.54	-	6.16	5.56	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.14	5.54	-	6.16	5.56	-	-	-	-	-	-	-
Follow-up Hdwy	3.536	4.036	3.336	3.554	4.054	3.354	2.227	-	-	2.218	-	-
Pot Cap-1 Maneuver	109	129	469	108	126	404	932	-	-	862	-	-
Stage 1	440	450	-	386	403	-	-	-	-	-	-	-
Stage 2	391	404	-	441	440	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	90	118	460	77	115	396	922	-	-	853	-	-
Mov Cap-2 Maneuver	90	118	-	77	115	-		-	-	-	-	-
Stage 1	419	429	-	371	388	-	-	-	-	-	-	-
Stage 2	354	388	-	372	419	-	-	-	-	-	-	-
		500		3,2	,,,,							
Annnagh	EB			WB			NB			SB		
Approach	46.24			35.18			0.19			0.29		
HCM Ctrl Dly, s/v							0.13			0.23		
HCW FOR	E			E								
						=						
Minor Lane/Major Mvm	1t	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		37	-	-	158	150	55	-	-			
HCM Lane V/C Ratio		0.017	-		0.465	0.208	0.024	-	-			
HCM Ctrl Dly (s/v)		9	0	-	46.2	35.2	9.3		-			
HCM Lane LOS		A	A	-	E	E	A	A	-			
HCM 95th %tile Q(veh)		0.1	-	-	2.2	0.8	0.1	-	-			

Intersection						
Int Delay, s/veh	12.	}				
·			ИПТ	Mun	חח	ОПТ
Movement	WB			NBR	SBL	SBT
Lane Configurations		7				^
Traffic Vol, veh/h		585			0	875
Future Val, veh/h	ا			0	0	875
Conflicting Peds, #/hr) [0	0	
Sign Control	Sto			Free	Free	Free
RT Channelized		- None		None	-	None
Storage Length		- 0	-	-	-	-
Veh in Median Storage,	,# I] -		-	-	
Grade, %			0	-	-	0
Peak Hour Factor	9			96	96	96
Heavy Vehicles, %		3		3	3	3
Mymt Flow		609		0	0	911
PIVIIIL I IUW		. 003	JUZ	U	U	JII
Major/Minor	Minor	1	Majorl		Major2	
Conflicting Flow All		- 341		-	-	-
Stage 1				-	_	_
Stage 2			_	-	-	_
Critical Hdwy		- 6.96		_	_	_
Critical Hdwy Stg 1			_	_	_	_
		-		-	-	
Critical Hdwy Stg 2						
Follow-up Hdwy				- n	- n	-
Pot Cap-1 Maneuver		652		0	0	-
Stage 1] -		0	0	-
Stage 2] -	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver		- 652	-	-	-	-
Mov Cap-2 Maneuver			-	-	-	-
Stage 1			-	-	-	-
Stage 2			-	-	-	-
Approach	W		NB		SB	
HCM Ctrl Dly, s/v	46.2	ł	0		0	
HCM LOS						
11. 1			WELL	007		
Minor Lane/Major Mvm	1t	NBT	WBLn1	SBT		
Capacity (veh/h)		-	002	-		
HCM Lane V/C Ratio		-	0.935	-		
HCM Ctrl Dly (s/v)		-	46.2	-		
HCM Lane LOS		_	E	-		
HCM 95th %tile Q(veh)		-		_		
HON DOM FORME B(VEII)			12.7			

Part 3: 2040 No Build Conditions: Weekday AM Peak-Hour LOS and Delays

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ	1		ሻ	ĵ.			4			4		
Traffic Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Future Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Satd. Flow (prot)	1662	1525	0	1694	1543	0		1487	0		1688	0	
Flt Permitted	0.063			0.267				0.982			0.975		
Satd. Flow (perm)	110	1525	0	476	1543	0	0	1487	0	0	1688	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	5	556	0	16	858	0	0	201	0	0	307	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	69.0	69.0		69.0	69.0		28.0	28.0		28.0	28.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	63.6	63.6		63.6	63.6			21.3			22.2		
Actuated g/C Ratio	0.47	0.47		0.47	0.47			0.16			0.17		
v/c Ratio	0.10	0.77		0.07	1.18			0.85			1.10		
Control Delay (s/veh)	31.4	40.3		25.1	125.8			86.3			134.7		
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	31.4	40.3		25.1	125.8			86.3			134.7		
LOS	C	D		C	F			F			F		
Approach Delay (s/veh)		40.2			123.9			86.3			134.7		
Approach LOS		D			F			F			F		
Queue Length 50th (ft)	2	340		6	~789			157			~266		
Queue Length 95th (ft)	15	#711		27	#1341			#302			#431		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	52	722		225	730			246			279		
Starvation Cap Reductn	0	0		0	0			0			0		
Spillback Cap Reductn	0	0			0			0			0		
Storage Cap Reductn	0	0			0			0			0		
Reduced v/c Ratio	0.10	0.77		0.07	1.18			0.82			1.10		

Cycle Length: 150

Actuated Cycle Length: 134.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.18

Intersection Signal Delay (s/veh): 97.6 Intersection Capacity Utilization 71.5% Intersection LOS: F

ICU Level of Service C

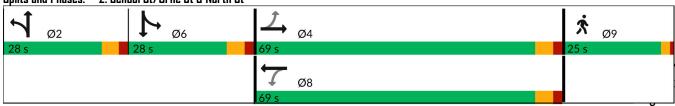
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 2: School St/Orne St & North St



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Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9	
Lane Configurations	7-		¥	†		7			Ī
Traffic Volume (vph)	715	30	295	740	0	175			
Future Volume (vph)	715	30	295	740	0	175			
Satd. Flow (prot)	1463	0	1413	1487	0	1286			
Flt Permitted			0.950						
Satd. Flow (perm)	1463	0	1413	1487	0	1236			
Satd. Flow (RTOR)									
Lane Group Flow (vph)	776	0	321	804	0	219			
Turn Type	NA		Prot	NA		pm+ov			
Protected Phases	6		5	2		5	4	9	
Permitted Phases						4			
Total Split (s)	35.0		25.0	60.0		25.0	23.0	26.0	
Total Lost Time (s)	4.0		5.0	4.0		5.0			
Act Effct Green (s)	32.0		20.6	60.6		20.6			
Actuated g/C Ratio	0.45		0.29	0.86		0.29			
v/c Ratio	1.17		0.78	0.63		0.58			
Control Delay (s/veh)	115.0		42.1	10.1		32.8			
Queue Delay	0.0		0.0	0.0		0.0			
Total Delay (s/veh)	115.0		42.1	10.1		32.8			
LOS	F		D	В		C			
Approach Delay (s/veh)	115.0			19.2	32.8				
Approach LOS	F			В	C				
Queue Length 50th (ft)	~280		98			62			
Queue Length 95th (ft)	#799		#338	#582		#167			
Internal Link Dist (ft)	1292			252	419				
Turn Bay Length (ft)									
Base Capacity (vph)	664		414	1279		376			
Starvation Cap Reductn	0		0	0		0			
Spillback Cap Reductn	0		0	0		0			
Storage Cap Reductn	0		0	0		0			
Reduced v/c Ratio	1.17		0.78	0.63		0.58			

Cycle Length: 109

Actuated Cycle Length: 70.4

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.17

Intersection Signal Delay (s/veh): 55.7 Intersection Capacity Utilization 83.3% Intersection LOS: E

ICU Level of Service E

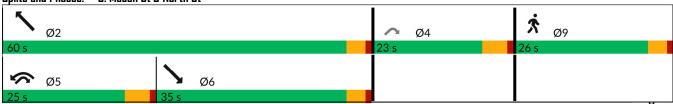
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		सी	7					ĵ.		ħ	1₃		
Traffic Volume (vph)	100	120	35	0	0	0	0	550	35	110	480	55	
Future Volume (vph)	100	120	35	0	0	0	0	550	35	110	480	55	
Satd. Flow (prot)	0	1365	1356	0	0	0	0	1382	0	1501	1356	0	
Flt Permitted		0.978								0.217			
Satd. Flow (perm)	0	1365	1270	0	0	0	0	1382	0	343	1356	0	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	242	38	0	0	0	0	597	0	111	541	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	25.0	25.0	25.0					50.0		20.0	70.0		35.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		20.0	20.0					62.1		77.8	76.8		
Actuated g/C Ratio		0.15	0.15					0.48		0.60	0.59		
v/c Ratio		1.15	0.19					0.91		0.37	0.68		
Control Delay (s/veh)		157.5	51.0					53.1		20.1	24.2		
Queue Delay		0.0	0.0					1.5		0.0	0.0		
Total Delay (s/veh)		157.5	51.0					54.6		20.1	24.2		
LOS		F	D					D		C	C		
Approach Delay (s/veh)		143.0						54.6			23.5		
Approach LOS		F						D			C		
Queue Length 50th (ft)		~240	28					490		23	143		
Queue Length 95th (ft)		#410	63					#798		m54	314		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		210	195					659		347	801		
Starvation Cap Reductn		0	0					0		0	0		
Spillback Cap Reductn		0	0					14		0	0		
Storage Cap Reductn		0	0					0		0	0		
Reduced v/c Ratio		1.15	0.19					0.93		0.32	0.68		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.15

Intersection Signal Delay (s/veh): 57.5 Intersection Capacity Utilization 73.2% Intersection LOS: E ICU Level of Service D

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ	<u></u>	7	¥	ĵ.		ř	^	7	ň	<u></u>	7	
Traffic Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Future Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Satd. Flow (prot)	1662	1749	1487	1501	1504	0	1516	3031	1356	1678	1766	1501	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1662	1749	1416	1501	1504	0	1516	3031	1269	1678	1766	1381	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	35	218	224	76	349	0	278	667	183	71	217	76	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	20.0	35.0	35.0	20.0	35.0		30.0	45.0	45.0	20.0	35.0	35.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	8.7	29.9	29.9	11.4	32.4		25.3	40.7	40.7	10.9	22.3	22.3	
Actuated g/C Ratio	0.07	0.23	0.23	0.09	0.25		0.19	0.31	0.31	0.08	0.17	0.17	
v/c Ratio	0.32	0.55	0.70	0.59	0.95		0.96	0.71	0.47	0.52	0.73	0.33	
Control Delay (s/veh)	73.7	57.5	65.7	82.9	87.9		99.6	51.2	49.3	78.0	69.4	56.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	73.7	57.5	65.7	82.9	87.9		99.6	51.2	49.3	78.0	69.4	56.3	
LOS	E	E	E	F	F		F	D	D	E	E	E	
Approach Delay (s/veh)		62.5			87.0			62.8			68.3		
Approach LOS		E			F			E			E		
Queue Length 50th (ft)	33	192	206	71	~352		~303	316	150	66	195	64	
Queue Length 95th (ft)	68	273	#317	124	#555		#507	408	242	122	291	116	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	185	404	327	167	368		290	959	401	187	408	319	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0		0		0		0			0		0	
Reduced v/c Ratio	0.19	0.54	0.69	0.46	0.95		0.96	0.70	0.46	0.38	0.53	0.24	

Cycle Length: 150

Actuated Cycle Length: 132.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96

Intersection Signal Delay (s/veh): 67.9 Intersection Capacity Utilization 69.8% Intersection LOS: E

ICU Level of Service C

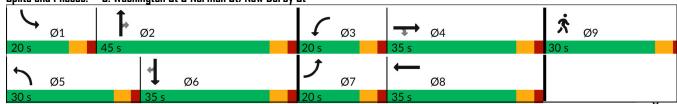
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 9: Washington St & Norman St/New Derby St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	7	↑	7		र्ब	7	7	∱ ∱		ሻ	†	7	
Traffic Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Future Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Satd. Flow (prot)	1694	1783	1516	0	1774	1516	1711	3396	0	1694	1783	1516	
Flt Permitted	0.950				0.931		0.950			0.950			
Satd. Flow (perm)	1694	1783	1436	0	1660	1445	1711	3396	0	1694	1783	1430	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	167	293	299	0	226	290	147	652	0	161	317	39	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	20.0	45.0	15.0	25.0	25.0	15.0	15.0	35.0		15.0	35.0	20.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	13.4	39.0	47.2		18.5	26.7	8.2	26.3		8.2	26.3	39.6	
Actuated g/C Ratio	0.11	0.32	0.39		0.15	0.22	0.07	0.22		0.07	0.22	0.33	
v/c Ratio	0.90	0.51	0.53		0.90	0.90	1.27	0.89		1.40	0.82	0.08	
Control Delay (s/veh)	99.9	40.6	25.2		88.7	62.4	220.0	62.3		268.0	65.0	27.5	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	99.9	40.6	25.2		88.7	62.4	220.0	62.3		268.0	65.0	27.5	
LOS	F	D	C		F	E	F	E		F	E	C	
Approach Delay (s/veh)		47.6			73.9			91.3			125.4		
Approach LOS	1/8	D	44.7		E	450	105	F		101	F		
Queue Length 50th (ft)	143	209	114		193	158	~165	283		~191	257	21	
Queue Length 95th (ft)	#277	292	191		#359	#343	#305	#387		#336	#406	47	
Internal Link Dist (ft)		253			828	000	000	250			528		
Turn Bay Length (ft)	100	FP.			O.C.O.	300	300	005		115	/00	/88	
Base Capacity (vph)	186	574	565		252	323	116	805		115	423	477	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0			0	0	
Reduced v/c Ratio	0.90	0.51	0.53		0.90	0.90	1.27	0.81		1.40	0.75	0.08	

Cycle Length: 130

Actuated Cycle Length: 121.2

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.40

Intersection Signal Delay (s/veh): 81.8

Intersection LOS: F

Intersection Capacity Utilization 72.6%

ICU Level of Service C

Analysis Period (min) 15

- ~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

10: Canal St & Mill St & Washington St Splits and Phases:



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Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	ř	†				¥	ĵ.		7		M			
Traffic Volume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Future Valume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Satd. Flow (prot)	1678	1513	0	0	0	1646	1511	0	1528	0	1621	0	0	
Flt Permitted	0.324					0.950					0.976			
Satd. Flow (perm)	572	1513	0	0	0	1646	1511	0	1431	0	1621	0	0	
Satd. Flow (RTDR)									*100					
Lane Group Flow (vph)	394	384	0	0	0	18	347	0	409	0	20	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	22.0	40.0			16.0	16.0	34.0		23.0	13.0	13.0			24.0
Total Lost Time (s)	4.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	53.6	44.0				8.2	26.8		18.6		5.7			
Actuated g/C Ratio	0.54	0.45				0.08	0.27		0.19		0.06			
v/c Ratio	0.76	0.57				0.13	0.85		1.17		0.22			
Control Delay (s/veh)	30.3	32.4				51.6	57.6		132.0		57.3			
Queue Delay	0.0	0.0				0.0	0.0		0.0		0.0			
Total Delay (s/veh)	30.3	32.4				51.6	57.6		132.0		57.3			
LOS	C	C				D	E		F		E			
Approach Delay (s/veh)		31.3					57.3				57.3			
Approach LOS		C					E				E			
Queue Length 50th (ft)	161	175				11	222		~277		13			
Queue Length 95th (ft)	#338	#466				35	#421		#456		41			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	519	675				137	410		350		92			
Starvation Cap Reductn	0	0				0	0		0		0			
Spillback Cap Reductn	0	0				0	0				0			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.76	0.57				0.13	0.85		1.17		0.22			

Cycle Length: 116

Actuated Cycle Length: 98.6

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.17

Intersection Signal Delay (s/veh): 63.9 Intersection Capacity Utilization 65.2% Intersection LOS: E ICU Level of Service C

Analysis Period (min) 15

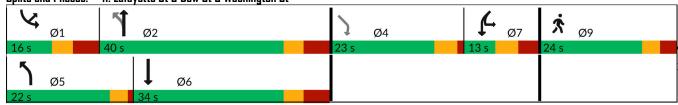
- * User Entered Value
- Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 11: Lafayette St & Dow St & Washington St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Volume (vph)	20	5	25	5	5	20	15	725	10	5	515	15	
Future Volume (vph)	20	5	25	5	5	20	15	725	10	5	515	15	
Satd. Flow (prot)	0	1353	0	0	1380	0	0	1525	0	0	1506	0	
Flt Permitted		0.906			0.965			0.988			0.994		
Satd. Flow (perm)	0	1239	0	0	1337	0	0	1508	0	0	1499	0	
Satd. Flow (RTDR)								2			5		
Lane Group Flow (vph)	0	56	0	0	41	0		772	0	0	595	0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA		
Protected Phases		4			8			2			6		
Permitted Phases	4			8			2			6			
Total Split (s)	18.0	18.0		18.0	18.0		42.0	42.0		42.0	42.0		
Total Lost Time (s)		4.0			4.0			4.0			4.0		
Act Effct Green (s)		13.3			13.3			30.9			30.9		
Actuated g/C Ratio		0.25			0.25			0.59			0.59		
v/c Ratio		0.18			0.12			0.87			0.67		
Control Delay (s/veh)		19.9			19.1			21.1			11.2		
Queue Delay		0.0			0.0			0.0			0.0		
Total Delay (s/veh)		19.9			19.1			21.1			11.2		
LOS		В			В			C			В		
Approach Delay (s/veh)		19.9			19.1			21.1			11.2		
Approach LOS		В			В			C			В		
Queue Length 50th (ft)		15			11			165			102		
Queue Length 95th (ft)		43			27			#406			186		
Internal Link Dist (ft)		657			627			413			957		
Turn Bay Length (ft)													
Base Capacity (vph)		338			365			1119			1113		
Starvation Cap Reductn		0			0			0			0		
Spillback Cap Reductn		0			0			0			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.17			0.11			0.69			0.53		

Cycle Length: 60

Actuated Cycle Length: 52.3

Control Type: Semi Act-Uncoord

Maximum v/c Ratio: 0.87

Intersection Signal Delay (s/veh): 17.0

Intersection Capacity Utilization 65.7%

Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

Splits and Phases: 15: Lafayette St & Ocean St



No Growth Seth

Synchro 12 Report Page 15

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		र्स	7		4	7	*	ĵ.			4	7	
Traffic Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Future Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Satd. Flow (prot)	0	1421	1446	0	1535	1516	1711	1572	0		1515	1473	
Flt Permitted		0.700			0.984		0.950				0.993		
Satd. Flow (perm)	0	1042	1446	0	1535	1516	1711	1572	0	0	1506	1473	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	218	126	0	51	23	179	632	0	0	494	161	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	45	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	28.0	28.0		15.0	15.0	15.0	19.0	69.0		50.0	50.0	28.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		23.6	40.3		8.7	8.7	14.3	65.5			46.0	70.9	
Actuated g/C Ratio		0.19	0.32		0.07	0.07	0.11	0.52			0.37	0.57	
v/c Ratio		1.11	0.27		0.48	0.22	0.91	0.77			0.89	0.19	
Control Delay (s/veh)		146.3	24.8		76.6	65.8	102.8	36.1			60.5	11.3	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		146.3	24.8		76.6	65.8	102.8	36.1			60.5	11.3	
LOS		F	C		E	E	F	D			E	В	
Approach Delay (s/veh)		101.8			73.2			50.8			48.4		
Approach LOS		F			E			D			D		
Queue Length 50th (ft)		~250	61		45	20	~177	514			~476	58	
Queue Length 95th (ft)		#399	98		89	49	#333	#753			#620	84	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		196	465		125	124	196	822			554	833	
Starvation Cap Reductn		0	0		0	0	0	0			0	0	
Spillback Cap Reductn		0	0		0	0	0	0			0	0	
Storage Cap Reductn		0	0		0	0	0	0			0	0	
Reduced v/c Ratio		1.11	0.27		0.41	0.19	0.91	0.77			0.89	0.19	

Cycle Length: 140

Actuated Cycle Length: 125.3

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay (s/veh): 60.2 Intersection Capacity Utilization 84.2% Intersection LOS: E

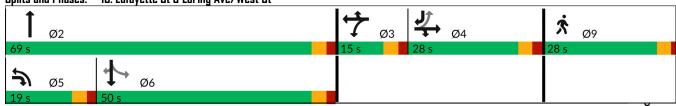
ICU Level of Service E

Analysis Period (min) 15

- Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



	٠	→	•	•	←	•	•	†	<i>></i>	\	ţ	✓	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	¥		7		4		ř	†			† }		
Traffic Volume (vph)	20	0	70	10	25	115	85	610	0	0	590	290	
Future Volume (vph)	20	0	70	10	25	115	85	610	0	0	590	290	
Satd. Flow (prot)	1516	0	1356	0	1366		1516	1595	0		2844	0	
Flt Permitted	0.950				0.997		0.155						
Satd. Flow (perm)	1516	0	1296	0	1366	0	247	1595	0	0	2844	0	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	22	0	76	0	163	0	88	629	0	0	910	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	20.0		20.0	20.0	20.0		20.0	63.0			43.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	7.9		15.6		22.1		71.0	71.0			54.5		
Actuated g/C Ratio	0.06		0.12		0.17		0.55	0.55			0.42		
v/c Ratio	0.24		0.48		0.71		0.37	0.72			0.76		
Control Delay (s/veh)	64.0		40.7		69.0		29.5	31.0			41.1		
Queue Delay	0.0		0.0		0.0		0.0	0.1			0.0		
Total Delay (s/veh)	64.0		40.7		69.0		29.5	31.1			41.1		
LOS	E		D		E		C	C			D		
Approach Delay (s/veh)		45.9			69.0			30.9			41.1		
Approach LOS		D			E			C			D		
Queue Length 50th (ft)	18		30		133		41	304			~412		
Queue Length 95th (ft)	47		54		#267		m51	m357			#594		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	163		197		231		271	870			1192		
Starvation Cap Reductn	0		0		0		0	10			0		
Spillback Cap Reductn	0		0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.13		0.39		0.71		0.32	0.73			0.76		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.76

Intersection Signal Delay (s/veh): 39.9 Intersection Capacity Utilization 67.9%

Intersection LOS: D

ICU Level of Service C

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

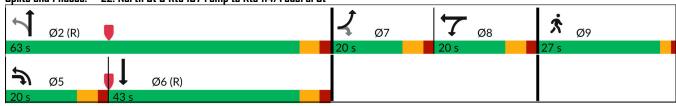
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 22: North St & Rte 107 ramp to Rte 114/Federal St



Intersection												
Int Delay, s/veh	6.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4						4	
Traffic Vol, veh/h	55	550	15		850	25				15	40	130
Future Vol, veh/h	55	550	15	0	850	25	0	0	0	15	40	130
Conflicting Peds, #/hr	10		10	10		10	10		10	10	0	10
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	_	-	None	-	-	None	-		None	-		None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	_		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	95	95	95	92	92	92	90	90	90
Heavy Vehicles, %	5	5	5	3	3	3	2	2	2	1	1	1
Mvmt Flow	59	591	16		895	26				17	44	144
Major/Minor	Major1			Major2						Minor2		
	<u>мајогі</u> 931	0	0	<u>Majorz</u> 618	0					1638	1654	928
Conflicting Flow All	101	U -								918	918	
Stage 1	-	-	-	-	-	-				720	736	-
Stage 2	4.15	-	-	4.13	-	-				6.41	6.51	6.21
Critical Hdwy										5.41	5.51	D.ZI -
Critical Hdwy Stg 1	-	-	-	-	-	-				5.41	5.51	-
Critical Hdwy Stg 2	- 2.245	-	- -	2.227	- -	-				3.509	4.009	3.309
Follow-up Hdwy Pot Cap-1 Maneuver	723	-	-	958	-	-				8.005 	4.009	326
•	125	-	-	300	-	-				391	352	۵۷۵ -
Stage 1 Stage 2	-	-	-	-	-	-				484	427	-
Platoon blocked, %	-		-	_	-	-				404	441	_
Mov Cap-1 Maneuver	716	-	<u>-</u>	958	-	-				96	0	321
Mov Cap-1 Maneuver Mov Cap-2 Maneuver	/10		-	200	-	-				96	0	771
Stage 1	_	-				-				339	0	-
Stage 2	_		_	_	-	-				480	0	-
otaye Z	_		_		_					400	U	
Approach	EB			WB						SB		
HCM Ctrl Dly, s/v	0.93			0						57.53		
HCM LOS	0.00									67.00 F		
11014 200										'		
Minor Lane/Major Mvmt	l	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		159	-	-	958	-	-	258				
HCM Lane V/C Ratio		0.083	_	_	-	_	_	0.797				
HCM Ctrl Dly (s/v)		10.5		-	0	-	-	57.5				
HCM Lane LOS		В	Ā	_	Ā	-	_	F				
HCM 95th %tile Q(veh)		0.3	-	-		-	-	6.1				
/ 0 6(1611)		3.0						u.,				

No Growth Synchro 12 Report Seth Page 1

Int Delay, s/veh 1.3 Set SET SER NWL NWT NWR SWL SWR SWR	Interpostic										
Bell EBR SEL SET SER NWL NWT NWR SWL SWR	Intersection	(0									
Lane Configurations	IIIL DEIBY, S/ VEN										
Traffic Vol. veh/h	Movement		EBR	SEL		SER	NWL		NWR	SMF	SWR
Traffic Vol. veh/h	Lane Configurations	M									
Conflicting Peds. #/hr	Traffic Vol, veh/h	0						1000			
Sign Control Stop Stop Free Free Free Free Free Free Free Stop Stop Stop Stop Channelized - None None None None None None None None None None None None None None None None Non	Future Vol, veh/h										
RT Channelized	Conflicting Peds, #/hr						0				
RT Channelized	Sign Control	Stop		Free	Free		Free	Free		Stop	Stop
Veh in Median Storage. # 0 - - 0 - - 0 0 - 0 0 - 0 <td>RT Channelized</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td>	RT Channelized	-	None	-	-	None	-	-	None	-	-
Grade, % 0 - - 0 - - 0 - 90 - - 0 - 0 - - 0 - 92 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93	Storage Length		-	-	-	-	-	-	-		
Peak Hour Factor		e, # 🛛	-	-	0	-	-	0	-		-
Heavy Vehicles, % 2 2 3 3 3 3 3 3 3 3	Grade, %			-		-					
Major/Minor Minor Major Major Major Minor Major Major Minor Minor Major Major Minor Minor Major Major Minor Minor Minor Major Minor Minor	Peak Hour Factor	92	92	91	91	91	92	92	92	92	92
Major/Minor Minor Major Major Minor Minor Major Minor Minor	Heavy Vehicles, %	2		3	3	3	3	3	3	3	3
Major/Minor Minor Major Major Major Minor	Mvmt Flow	0	22	22	936	22	43	1087	174		
Conflicting Flow All 1652 962 1281 D D 968 D D - 670											
Conflicting Flow All	Major/Miner	Minon		Mainel			Maion7			Minen7	
Stage					П		_	П			<u> </u>
Stage 2											
Critical Hdwy 7.33 6.23 4.145 - 4.145 - - 6.945 Critical Hdwy Stg 1 6.13 -				-	-	-		-			
Critical Hdwy Stg 1 6.13 -			 	- / 1/E	-	-	- /-1/E	-			C U / C
Critical Hdwy Stg 2 6.53 -				4.140		-					
Follow-up Hdwy 3.519 3.319 2.2285 - 2.2285 3.3285 Pot Cap-I Maneuver 71 309 535 - 704 - 0 398 Stage I 292 0 - Stage 2 425 0 - Platoon blocked, % Mov Cap-I Maneuver 54 305 526 - 698 384 Mov Cap-2 Maneuver 54 384 Mov Cap-2 Maneuver 54 Stage I 263 Stage 2 356 1 1.4 14.93 HCM Ctrl Dly, s/v 32.46 0.27 1.14 14.93 HCM LOS 0 B Minor Lane/Major Mvmt NWL NWT NWR EBLn SEL SET SER SWLn SEL Capacity (veh/h) 101 158 40 - 384 HCM Lane V/C Ratio 0.062 0.172 0.042 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A				-		-					
Pot Cap-I Maneuver				-							
Stage I 292 - - - - 0 - Stage 2 425 - - - - 0 - Platoon blocked, % - - - - - - - Mov Cap-1 Maneuver 54 305 526 - 698 - - 384 Mov Cap-2 Maneuver 54 -											
Stage 2 425 - - - - - 0 - Platoon blocked, % - - - - - - - - - - - - 384 Mov Cap-1 Maneuver 54 -				535	-	-	/U4	-			
Platoon blocked, %				-	-	-	-	-			
Mov Cap-1 Maneuver 54 305 526 - 698 - - 384 Mov Cap-2 Maneuver 54 - </td <td></td> <td>425</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>U</td> <td>-</td>		425	-	-	-		-			U	-
Mov Cap-2 Maneuver 54 -		Γ,	005	COC	-		000				007
Stage I 263 -					-			-			
Stage 2 356 -				-	-	-	-	-	-		
Approach EB SE NW SW HCM Ctrl Dly, s/v 32.46 0.27 1.14 14.93 HCM LOS D B Minor Lane/Major Mvmt NWL NWT NWR EBLnl SEL SET SER SWLnl Capacity (veh/h) 101 - - 158 40 - - 384 HCM Lane V/C Ratio 0.062 - - 0.172 0.042 - - 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B				-	-	-	-	-	-	-	
HCM Ctrl Dly, s/v 32.46	Stage 2	356	-	-	-	-	-	-	-	_	-
HCM Ctrl Dly, s/v 32.46											
HCM Ctrl Dly, s/v 32.46	Approach	EB		SE			NW			WZ	
Minor Lane/Major Mvmt NWL NWT NWR EBLnI SEL SET SER SWLnI Capacity (veh/h) 101 - - 158 40 - - 384 HCM Lane V/C Ratio 0.062 - - 0.172 0.042 - - 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B		37.46		0.77			1.14			14.93	
Minor Lane/Major Mvmt NWL NWT NWR EBLnI SEL SET SER SWLnI Capacity (veh/h) 101 - - 158 40 - - 384 HCM Lane V/C Ratio 0.062 - - 0.172 0.042 - - 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B	The second secon										
Capacity (veh/h) 101 - - 158 40 - - 384 HCM Lane V/C Ratio 0.062 - - 0.172 0.042 - - 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B											
Capacity (veh/h) 101 - - 158 40 - - 384 HCM Lane V/C Ratio 0.062 - - 0.172 0.042 - - 0.057 HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B	M: I /M-: M		NIWI	NWT	NIWD	EDI "4	CEI	CET	CED	CWI ~4	
HCM Lane V/C Ratio		IIL			71 VV VI			951			
HCM Ctrl Dly (s/v) 10.5 0.9 - 32.5 12.1 0 - 14.9 HCM Lane LOS B A - D B A - B	Lapacity (veh/h)				-			-			
HCM Lane LOS B A - B	HPM I W/P D in		U.UbZ	-	-						
	HCM Lane V/C Ratio			пп		חח ר					
пьм ээth %tile U(veh)	HCM Ctrl Dly (s/v)		10.5								
	HCM Ctrl Dly (s/v) HCM Lane LOS	\	10.5 B	A	-	D	В	A	-	В	

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			ħЪ	
Traffic Vol, veh/h	5	Ö	5	10	5	70		635	0	0	630	5
Future Vol. veh/h	5	0	5	10	5	70	0	635	0	0	630	5
Conflicting Peds, #/hr	10	0	10	10		10	10		10	10	0	10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-		-	-		-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	97	97	97	94	94	94
Heavy Vehicles, %	4	4	4	2	2	2	3	3	3	4	4	4
Mvmt Flow	6		6	12	6	83		655	0	0	670	5
Major/Minor	Minor2			Minor1			Major1		N	Major2		
Conflicting Flow All	1350	1338	358	1000	1340	665	686	0	-	-	-	0
Stage 1	683	683	-	655	655	-	-	-	-	-	-	-
Stage 2	668	655	-	345	686	-	-	-	-	-	-	-
Critical Hdwy	7.36	6.56	6.96	7.33	6.53	6.23	4.145	-	-	-	-	-
Critical Hdwy Stg 1	6.56	5.56	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.16	5.56	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.538	4.038	3.338	3.519	4.019		2.2285	-	-	-	-	-
Pot Cap-1 Maneuver	116	150	635	209	152	459	900	-		0	-	-
Stage 1	402	444	-	454	462	-	-	-	0	0	-	-
Stage 2	443	458	-	644	447	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	90	149	624	206	151	455	892	-	-	-	-	-
Mov Cap-2 Maneuver	90	149	-	206	151	-	-	-	-	-	-	-
Stage 1	399	441	-	454	462	-	-	-	-	-	-	-
Stage 2	354	458	-	633	443	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	29.86			18.82						0		
HCM LOS	D			C								
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		892	-	157	361	-	-					
HCM Lane V/C Ratio		-	-	0.076	0.28	-	-					
HCM Ctrl Dly (s/v)			-	29.9	18.8	-	-					
HCM Lane LOS		A	-	D	C	-	-					
HCM 95th %tile Q(veh)		0	-	0.2	1.1	-	-					
,												

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Intersection												
Int Delay, s/veh	18											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			N/			4			4	
Traffic Vol, veh/h	5	0	5	75	0	90	5	665	0	0	590	5
Future Vol. veh/h	5	0	5	75	0	90	5	665	0	0	590	5
Conflicting Peds, #/hr	20	0	20	20	0	20	20	0	20	20	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	88	92	88	92	87	87	89	89	92
Heavy Vehicles, %	2	2	2	4	4	4	2	4	4	5	5	2
Mvmt Flow	5		5	85		102	5	764			663	5
Major/Minor	Minor2			Minor1			Majorl		N	lajor2		
Conflicting Flow All	1481	1461	706	1458	1464	784	688	0	-	-	-	0
Stage 1	686	686	-	775	775	-	-	-	-	-	-	-
Stage 2	795	775	-	683	688	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.14	6.54	6.24	4.12	-	-	-	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.14	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.14	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.536	4.036	3.336	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	104	129	436	106	127	390	906	-			-	-
Stage 1	438	448	-	388	405	-	-	-			-	-
Stage 2	381	408	-	436	444	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	72	125	421	102	124	383	890	-	-	-	-	-
Mov Cap-2 Maneuver	72	125	-	102	124	-	-	-	-	-	-	-
Stage 1	430	440	-	384	401	-	-	-	-	-	-	-
Stage 2	271	403	-	423	436	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	36.9			154.45			0.06					
HCM LOS	E			F								
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		13	-	124	170	-	-					
HCM Lane V/C Ratio		0.006	-	0.088	1.103	-	-					
HCM Ctrl Dly (s/v)		9.1	0	36.9	154.5	-	-					
HCM Lane LOS		А	A	Е	F	-	-					
HCM 95th %tile Q(veh)		0	-	0.3	9.6	-	-					

No Growth Synchro 12 Report Seth Page 4

lutuurutiu.												
Intersection	п											
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4						4			4	
Traffic Vol, veh/h	5	30	5	0		0	5	570	250	110	610	10
Future Vol. veh/h	5	30	5	0	0	0	5	570	250	110	610	10
Conflicting Peds, #/hr		0	10	10	0	10	20	0	50	50	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	_	_	-	_	_	-	_	_	-	_	_	-
Veh in Median Storage	# -	0	_	_	0	_	-	0	-	_	0	_
Grade, %	-	0	-	_	0	_	_	0	_	_	Ī	_
Peak Hour Factor	82	82	82	92	92	92	95	95	95	91	91	91
Heavy Vehicles, %	4	4	4	0	0	0	3	3	3	5	5	5
Mymt Flow	6	37	6	0	0	0	5	600	263	121	670	11
PITALL FIGH	U	· U/	U	U	U	ш	U	000	200	ILI	0/0	П
									_			
Major/Minor	Minor2						Major1			Major2		
Conflicting Flow All	1558	1861	706				701	0	0	913	0	0
Stage 1	938	938	-				-	-	-	-	-	-
Stage 2	621	924	-				-	-	-	-	-	-
Critical Hdwy	6.44	6.54	6.24				4.13	-	-	4.15	-	-
Critical Hdwy Stg 1	5.44	5.54	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.44	5.54	-				-	-	-	-	-	-
Follow-up Hdwy	3.536	4.036					2.227	-	-	2.245	-	-
Pot Cap-1 Maneuver	122	72	433				891	-	-	734	-	-
Stage 1	378	341	-				-	-	-	-	-	-
Stage 2	532	346	-				-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	86	0	421				876	-	-	734	-	-
Mov Cap-2 Maneuver	86	0	-				-	-	-	-	-	-
Stage 1	367		-				-	-	-	-	-	-
Stage 2	384	0	-				-	-	-	-	-	-
<u> </u>												
Ab	гл						ΝП			מס		
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	42.86						0.06			1.64		
HCW FOR	E											
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		10		-	143	270	-					
HCM Lane V/C Ratio		0.006	-	-	0.342	0.165	-	-				
HCM Ctrl Dly (s/v)		9.1		-	42.9	10.9		-				
HCM Lane LOS		A	A	-	E	В	A	-				
HCM 95th %tile Q(veh)			-	-	1.4	0.6	-	-				
/ 00110 05(1011)					1. 1	3.0						

Interposition												
Intersection	0.9											
Int Delay, s/veh	8.0											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5		5	5		25	5	760	15	10	525	5
Future Vol, veh/h	5	0	5	5	0	25	5	760	15	10	525	5
Conflicting Peds, #/hr	20		20	20		20	20		20	20		20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-		None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	78	78	78	94	94	94	95	95	95
Heavy Vehicles, %	10	10	10	0	0	0	4	4	4	6	6	6
Mvmt Flow	6		6	6		32	5	809	16	- 11	553	5
Major/Minor	Minor2			Minor1			Major1			Maja-7		
		14.51			1/.40	חרת		п		Major2	п	п
Conflicting Flow All	1435	1451	595	1441	1446	856	578	0	0	844	0	0
Stage 1	596	596	-	847	847	-	-	-	-	-	-	-
Stage 2	839	855	- -	594	599	- -	- 4.4.4	-	-	- 4 (P	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.14	-	-	4.16	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.236	-	-	2.254	-	-
Pot Cap-1 Maneuver	107	126	489	112	133	360	986	-	-	775	-	-
Stage 1	476	479	-	359	381	-	-	-	-	-	-	-
Stage 2	349	364	-	495	494	-	-	-	-	-	-	-
Platoon blocked, %			,					-	-		-	-
Mov Cap-1 Maneuver	91	118	473	103	124	348	969	-	-	761	-	-
Mov Cap-2 Maneuver	91	118	-	103	124	-	-	-	-	-	-	-
Stage 1	459	461	-	349	370	-	-	-	-	-	-	-
Stage 2	308	354	-	471	475	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	30.65			22.06			0.06			0.18		
HCM LOS	00.00 D			ZZ.00			0.00			0.10		
ווטויו בטט	U			u								
M: /M : M	.1	МПІ	ИПТ	NDD	רחי ו	WD! /	וחס	חח	CDD			
Minor Lane/Major Mym	11	NBL	NBT	NBR	EBLn1		SBL	SBT	SBR			
Capacity (veh/h) HCM Lane V/C Ratio		n nnc	-	-	152 0.079	249	33	-	-			
		0.005	- П			0.154	0.014	- П	-			
HCM Ctrl Dly (s/v)		8.7		-	30.6	22.1	9.8		-			
HCM Lane LOS		A	A	-	D	0.0	A	A	-			
HCM 95th %tile Q(veh)		0	-	-	0.3	0.5	0	-	-			

L. C.						
Intersection	-	n				
Int Delay, s/veh	6	វ				
Movement	WE	L WBI	R NBT	NBR	SBL	SBT
Lane Configurations		î				^
Traffic Vol, veh/h		0 45:		0	0	875
Future Vol, veh/h		0 45		0	0	875
Conflicting Peds, #/hr				0	0	0,0
Sign Control	Sto			Free	Free	Free
RT Channelized	טננ	- Noni		None	-	None
Storage Length		- Nulli - [NUITE	_	Nulle
Veh in Median Storage,	#		. 0	-	-	0
Grade, %			. []	-	-	0
Peak Hour Factor		u 6 91		96	96	96
						3
Heavy Vehicles, %		3 ;		3	3	
Mvmt Flow		0 47	776	0	0	911
Major/Minor	Mino	1	Major1		Major2	
Conflicting Flow All		- 381		_	-	_
Stage 1				_	-	_
Stage 2				_	_	_
Critical Hdwy		- - 6.91		_	_	_
Critical Hdwy Stg 1] - 	-	_	-
				-	-	-
Critical Hdwy Stg 2						
Follow-up Hdwy				- n	- n	-
Pot Cap-1 Maneuver		0 601		0	0	-
Stage 1		_	-	0	0	-
Stage 2		0	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver		- 601	-	-	-	-
Mov Cap-2 Maneuver		-		-	-	-
Stage 1		-	-	-	-	-
Stage 2		-		-	-	-
Annaaah	W	D	NB		SB	
Approach						
HCM Ctrl Dly, s/v	28.7		0		0	
HCW FOR		D				
Minor Lane/Major Mvm	ıt	NR	r WBLn1	SBT		
Capacity (veh/h)			- 608	-		
Capacity (Ven/n) HCM Lane V/C Ratio						
			- 0.78	-		
HCM Ctrl Dly (s/v)			- 28.7	-		
HCM Lane LOS			- D	-		
HCM 95th %tile Q(veh)			- 7.4	-		

Intersection													
Int Delay, s/veh	0.9												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	5	Ö	5	5	Ö	25	5	760	15	10	525	5	
Future Vol., veh/h	5	0	5	5	0	25	5	760	15	10	525	5	
Conflicting Peds, #/hr													
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-		-	
Peak Hour Factor	83	83	83	78	78	78	94	94	94	95	95	95	
Heavy Vehicles, %	10	10	10	0			4	4	4	6	6	6	
Mvmt Flow	6	0	6	6	0	32	5	809	16	- 11	553	5	
Major/Minor	Minor2			Minor1			Majorl		1	Major2			
Conflicting Flow All	1395	1411	555	1401	1406	816	558	0	0	824	0	0	
Stage 1	576	576	-	827	827	-	-	-	-	-	-	-	
Stage 2	819	835	-	574	579	-	-	-	-	-	-	-	
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.14	-	-	4.16	-	-	
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-	
Fallow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.236	-	-	2.254	-	-	
Pot Cap-1 Maneuver	114	133	516	119	140	380	1003	-	-	789	-	-	
Stage 1	489	489	-	369	389	-	-	-	-	-	-	-	
Stage 2	358	372	-	508	504	-		-	-		-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	101	129	516	114	136	380	1003	-	-	789	-	-	
Mov Cap-2 Maneuver	101	129	-	114	136	-	-	-	-	-	-	-	
Stage 1	479	480	-	365	385	-	-	-	-	-	-	-	
Stage 2	325	368	-	492	494	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Ctrl Dly, s/v	27.87			20.3			0.06			0.18			
HCM LOS	D			C									
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)		11	-	-	169	274	33	-	-				
HCM Lane V/C Ratio		0.005	-	-	0.071	0.141	0.013	_	_				
HCM Ctrl Dly (s/v)		8.6	0	-	27.9	20.3	9.6	0	-				
HCM Lane LOS		A	Ā	_	D	C	A	Ā	-				
HCM 95th %tile Q(veh)			-	-	0.2	0.5		-	-				

Part 4: 2040 No Build Conditions: Weekday PM Peak-Hour LOS and Delays

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	¥	4		ķ	ĵ.			4			4		
Traffic Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Future Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Satd. Flow (prot)	1711	1564	0	1711	1562	0	0	1495	0	0	1753	0	
Flt Permitted	0.065			0.131				0.979			0.977		
Satd. Flow (perm)	117	1564	0	236	1562	0	0	1495	0	0	1753	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	11	690	0	16	779	0		188	0	0	324	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	67.0	67.0		67.0	67.0		29.0	29.0		29.0	29.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	61.8	61.8		61.8	61.8			20.4			23.3		
Actuated g/C Ratio	0.45	0.45		0.45	0.45			0.15			0.17		
v/c Ratio	0.21	0.98		0.15	1.11			0.85			1.09		
Control Delay (s/veh)	42.3	68.7		32.7	104.6			90.3			131.7		
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	42.3	68.7		32.7	104.6			90.3			131.7		
LOS	D	E		C	F			F			F		
Approach Delay (s/veh)		68.3			103.2			90.3			131.7		
Approach LOS		E			F			F			F		
Queue Length 50th (ft)	7	~755		10	~936			181			~385		
Queue Length 95th (ft)	28	#1002		30	#1190			#281			#565		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	52	703		105	702			253			297		
Starvation Cap Reductn	0	0		0	0			0			0		
Spillback Cap Reductn	0	0		0	0			0			0		
Storage Cap Reductn	0	0		0	0			0			0		
Reduced v/c Ratio	0.21	0.98		0.15	1.11			0.74			1.09		

Cycle Length: 150

Actuated Cycle Length: 137.5

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay (s/veh): 94.4 Intersection Capacity Utilization 69.8% Intersection LOS: F

ICU Level of Service C

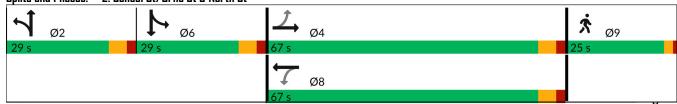
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 2: School St/Orne St & North St



	×)	\sim	×	7	74			
Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9	
Lane Configurations	7-		ř	†		7			
Traffic Volume (vph)	750	30	445	715	0	170			
Future Volume (vph)	750	30	445	715	0	170			
Satd. Flow (prot)	1506	0	1441	1516	0	1312			
Flt Permitted			0.950						
Satd. Flow (perm)	1506	0	1441	1516	0	1260			
Satd. Flow (RTDR)									
Lane Group Flow (vph)	848	0	468	753	0	200			
Turn Type	NA		Prot	NA		pm+ov			
Protected Phases	6		5	2		5	4	9	
Permitted Phases						4			
Total Split (s)	35.0		25.0	60.0		25.0	23.0	26.0	
Total Lost Time (s)	4.0		5.0	4.0		5.0			
Act Effct Green (s)	32.0		20.6	60.6		20.6			
Actuated g/C Ratio	0.45		0.29	0.86		0.29			
v/c Ratio	1.24		1.11	0.58		0.52			
Control Delay (s/veh)	143.3		105.7	8.5		30.4			
Queue Delay	0.0		0.0	0.0		0.0			
Total Delay (s/veh)	143.3		105.7	8.5		30.4			
LOS	F		F	Α		C			
Approach Delay (s/veh)	143.3			45.7	30.4				
Approach LOS	F			D	C				
Queue Length 50th (ft)	~357		164	0		56			
Queue Length 95th (ft)	#878		#525	413		161			
Internal Link Dist (ft)	1292			252	419				
Turn Bay Length (ft)									
Base Capacity (vph)	684		422	1304		384			
Starvation Cap Reductn	0		0	0		0			
Spillback Cap Reductn	0		0	0		0			
Storage Cap Reductn	0		0	0		0			
Reduced v/c Ratio	1.24		1.11	0.58		0.52			

Cycle Length: 109

Actuated Cycle Length: 70.4

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.24

Intersection Signal Delay (s/veh): 80.9 Intersection Capacity Utilization 95.4% Intersection LOS: F

ICU Level of Service F

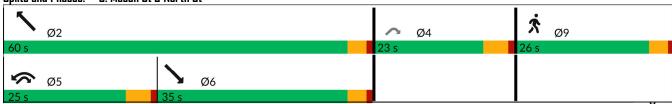
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		र्स	7					1≽		ነ	1≽		
Traffic Volume (vph)	105	100	40	0	0	0	0	485	45	135	580	70	
Future Volume (vph)	105	100	40					485	45	135	580	70	
Satd. Flow (prot)	0	1374	1369	0	0	0	0	1403		1531	1382	0	
Flt Permitted		0.975								0.195			
Satd. Flow (perm)	0	1374	1294	0	0	0	0	1403	0	314	1382	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	230	45	0	0	0	0	570		145	699	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	30.0	30.0	30.0					45.0		20.0	65.0		35.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		23.9	23.9					56.1		73.9	72.9		
Actuated g/C Ratio		0.18	0.18					0.43		0.57	0.56		
v/c Ratio		0.91	0.19					0.94		0.49	0.90		
Control Delay (s/veh)		89.4	46.5					63.7		32.2	42.5		
Queue Delay		0.0	0.0					1.0		0.0	0.0		
Total Delay (s/veh)		89.4	46.5					64.7		32.2	42.5		
LOS		F	D					E		C	D		
Approach Delay (s/veh)		82.4						64.7			40.8		
Approach LOS		F						E			D		
Queue Length 50th (ft)		190	32					~526		58	369		
Queue Length 95th (ft)		#331	68					#821		m88	m#721		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		264	248					605		334	774		
Starvation Cap Reductn		0	0					0			0		
Spillback Cap Reductn		0	0					5			0		
Storage Cap Reductn		0	0					0			0		
Reduced v/c Ratio		0.87	0.18					0.95		0.43	0.90		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.94

Intersection Signal Delay (s/veh): 55.6 Intersection Capacity Utilization 70.7% Intersection LOS: E ICU Level of Service C

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Д 9
Lane Configurations	ħ	<u></u>	7	ř	ĵ.		ሻ	^	7	ř	↑	7	_
Traffic Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Future Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Satd. Flow (prot)	1711	1801	1531	1531	1566	0	1531	3061	1369	1711	1801	1531	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1711	1801	1465	1531	1566	0	1531	3061	1263	1711	1801	1411	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	45	242	236	99	401	0	200	463	168	88	280	77	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	18.0	40.0	40.0	18.0	40.0		26.0	36.0	36.0	26.0	36.0	36.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	9.1	29.6	29.6	11.6	35.9		20.6	37.1	37.1	12.5	25.0	25.0	
Actuated g/C Ratio	0.07	0.22	0.22	0.09	0.27		0.15	0.28	0.28	0.09	0.19	0.19	
v/c Ratio	0.39	0.61	0.73	0.75	0.96		0.85	0.55	0.48	0.55	0.84	0.29	
Control Delay (s/veh)	75.6	57.0	65.6	96.8	86.3		89.2	50.0	53.8	76.2	76.3	54.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	75.6	57.0	65.6	96.8	86.3		89.2	50.0	53.8	76.2	76.3	54.1	
LOS	E	E	E	F	F		F	D	D	E	E	D	
Approach Delay (s/veh)		62.5			88.4			60.2			72.4		
Approach LOS		E			F			E			E		
Queue Length 50th (ft)	42	210	211	94	~428		191	207	140	82	256	63	
Queue Length 95th (ft)	85	305	313	#202	#666		#367	288	237	142	#393	116	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	160	479	390	143	419		239	848	349	267	422	331	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio	0.28	0.51	0.61	0.69	0.96		0.84	0.55	0.48	0.33	0.66	0.23	

Cycle Length: 150

Actuated Cycle Length: 134

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96

Intersection Signal Delay (s/veh): 69.2

Intersection Capacity Utilization 72.4%

Intersection LOS: E

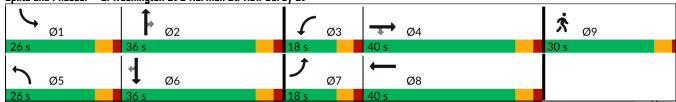
ICU Level of Service C

Analysis Period (min) 15

- ~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 9: Washington St & Norman St/New Derby St



	٠	→	•	•	←	*	1	†	/	/	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	*	↑	7		4	7	ሻ	∱ ∱		ሻ	↑	7	
Traffic Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Future Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Satd. Flow (prot)	1711	1801	1531	0	1761	1501	1694	3316	0	1728	1818	1546	
Flt Permitted	0.950				0.955		0.950			0.950			
Satd. Flow (perm)	1711	1801	1453	0	1687	1436	1694	3316	0	1728	1818	1454	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	161	271	385	0	250	291	148	557	0	152	402	33	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	20.0	45.0	18.0	25.0	25.0	18.0	18.0	32.0		18.0	32.0	20.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	13.2	38.6	49.8		18.3	29.5	11.2	25.4		11.2	25.4	38.6	
Actuated g/C Ratio	0.11	0.31	0.40		0.15	0.24	0.09	0.21		0.09	0.21	0.31	
v/c Ratio	0.88	0.48	0.65		1.00	0.83	0.96	0.81		0.97	1.07	0.07	
Control Delay (s/veh)	97.0	40.1	27.2		110.9	48.1	121.4	58.9		122.1	114.7	29.3	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	97.0	40.1	27.2		110.9	48.1	121.4	58.9		122.1	114.7	29.3	
LOS	F	D	C		F	D	F	E		F	F	C	
Approach Delay (s/veh)		45.2			77.1			72.1			111.8		
Approach LOS		D			E			E			F		
Queue Length 50th (ft)	137	191	146		~233	133	~134	242		~138	~398	19	
Queue Length 95th (ft)	#277	281	255		#379	#260	#265	#323		#280	#601	43	
Internal Link Dist (ft)		253			828			250			528		
Turn Bay Length (ft)						300	300						
Base Capacity (vph)	184	565	595		250	349	154	684		157	375	466	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Reduced v/c Ratio	0.88	0.48	0.65		1.00	0.83	0.96	0.81		0.97	1.07	0.07	

Cycle Length: 130

Actuated Cycle Length: 123

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.07

Intersection Signal Delay (s/veh): 73.6

Intersection LOS: E

Intersection Capacity Utilization 75.0%

ICU Level of Service D

Analysis Period (min) 15

- ~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 10: Canal St & Mill St & Washington St



	ሻ	†	1	/	(#	-	ţ	¥J	\	Ĺ	4	➤	t	
Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	¥	†				ħ	1≽		7		1			
Traffic Volume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Future Valume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Satd. Flow (prot)	1678	1511		0	0	1728	1584	0	1558	0	1578	0	0	
Flt Permitted	0.175					0.950					0.971			
Satd. Flow (perm)	309	1511	0	0	0	1728	1584	0	1455	0	1578	0	0	
Satd. Flow (RTDR)									*100					
Lane Group Flow (vph)	351	341	0	0	0	68	453	0	401	0	25	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	22.0	44.0			16.0	16.0	38.0		23.0	17.0	17.0			24.0
Total Lost Time (s)	6.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	56.0	41.5				8.3	31.1		18.7		7.3			
Actuated g/C Ratio	0.52	0.39				0.08	0.29		0.17		0.07			
v/c Ratio	0.94	0.58				0.51	0.98		1.19		0.23			
Control Delay (s/veh)	58.8	38.1				67.5	79.6		143.4		58.6			
Queue Delay	0.0	0.0				0.0	0.0		0.0		0.0			
Total Delay (s/veh)	58.8	38.1				67.5	79.6		143.4		58.6			
LOS	E	D				E	E		F		E			
Approach Delay (s/veh)		48.6					78.0				58.6			
Approach LOS		D					E				E			
Queue Length 50th (ft)	~235	244				53	~422		~341		19			
Queue Length 95th (ft)	#439	#393				#119	#644		#513		49			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	374	585				134	461		336		145			
Starvation Cap Reductn	0	0				0	0		0		0			
Spillback Cap Reductn	0	0				0	0		0		0			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.94	0.58				0.51	0.98		1.19		0.17			

Cycle Length: 124

Actuated Cycle Length: 106.9

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.19

Intersection Signal Delay (s/veh): 81.3 Intersection Capacity Utilization 72.6% Intersection LOS: F ICU Level of Service C

Analysis Period (min) 15

- * User Entered Value
- Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 11: Lafayette St & Dow St & Washington St



	٠	-	•	•	←	•	•	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Д 9
Lane Configurations		र्स	7		4	7	ř	1			र्स	7	
Traffic Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Future Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Satd. Flow (prot)	0	1479	1501	0	1569	1561	1694	1552	0	0	1559	1516	
Flt Permitted		0.700			0.976		0.950				0.991		
Satd. Flow (perm)	0	1082	1501	0	1569	1561	1694	1552	0	0	1546	1516	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	294	100	0	68	14	179	631	0	0	437	207	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	45	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	34.0	34.0		16.0	16.0	16.0	17.0	62.0		45.0	45.0	34.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		30.0	44.9		9.5	9.5	12.4	57.0			39.4	70.8	
Actuated g/C Ratio		0.24	0.36		0.08	0.08	0.10	0.46			0.32	0.57	
v/c Ratio		1.12	0.18		0.57	0.12	1.05	0.88			0.89	0.24	
Control Delay (s/veh)		137.3	21.4		79.0	62.0	139.4	49.7			64.2	11.1	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		137.3	21.4		79.0	62.0	139.4	49.7			64.2	11.1	
LOS		F	C		E	E	F	D			E	В	
Approach Delay (s/veh)		107.9			76.1			69.5			47.1		
Approach LOS		F			E			E			D		
Queue Length 50th (ft)		~344	45		61	12	~201	569			398	73	
Queue Length 95th (ft)		#450	68		92	29	#358	#833			#588	107	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		262	544		144	143	170	738			516	867	
Starvation Cap Reductn		0	0		0	0	0	0			0	0	
Spillback Cap Reductn		0	0		0		0	0				0	
Storage Cap Reductn		0	0		0		0	0			0	0	
Reduced v/c Ratio		1.12	0.18		0.47	0.10	1.05	0.86			0.85	0.24	

Cycle Length: 140

Actuated Cycle Length: 123.7

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.12

Intersection Signal Delay (s/veh): 70.1 Intersection Capacity Utilization 82.8% Intersection LOS: E

ICU Level of Service E

Analysis Period (min) 15

- Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



	٠	→	•	•	←	•	•	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ		7		43-		ř	†			† }		
Traffic Volume (vph)	45	0	105	10	20	90	100	555	0	0	690	220	
Future Volume (vph)	45	0	105	10	20	90	100	555	0	0	690	220	
Satd. Flow (prot)	1501		1343	0	1384	0	1546	1627	0		2924	0	
Flt Permitted	0.950				0.996		0.097						
Satd. Flow (perm)	1501	0	1284	0	1384	0	158	1627	0	0	2924	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	51	0	118	0	223	0	106	590	0	0	1034	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	20.0		20.0	20.0	20.0		20.0	63.0			43.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	10.0		19.7		20.6		67.8	67.8			50.8		
Actuated g/C Ratio	0.08		0.15		0.16		0.52	0.52			0.39		
v/c Ratio	0.44		0.59		1.02		0.53	0.70			0.91		
Control Delay (s/veh)	68.4		40.4		120.7		44.8	30.9			51.1		
Queue Delay	0.0		0.0		0.0		0.0	0.1			0.0		
Total Delay (s/veh)	68.4		40.4		120.7		44.8	31.1			51.1		
LOS	E		D		F		D	C			D		
Approach Delay (s/veh)		48.8			120.7			33.2			51.1		
Approach LOS		D			F			C			D		
Queue Length 50th (ft)	42		46		~221		58	286			~538		
Queue Length 95th (ft)	83		72		#200		m82	m345			#681		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	161		229		218		231	848			1142		
Starvation Cap Reductn	0		0		0		0	16			0		
Spillback Cap Reductn	0		0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.32		0.52		1.02		0.46	0.71			0.91		

Cycle Length: 130

Actuated Cycle Length: 130

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.02

Intersection Signal Delay (s/veh): 52.4 Intersection Capacity Utilization 66.7% Intersection LOS: D ICU Level of Service C

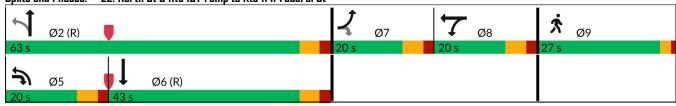
Analysis Period (min) 15 ~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 22: North St & Rte 107 ramp to Rte 114/Federal St



Intersection												
Int Delay, s/veh	8.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4						4	
Traffic Vol, veh/h	30	610	35	10	800	10				15	30	150
Future Vol., veh/h	30	610	35	10	800	10	0	0	0	15	30	150
Conflicting Peds, #/hr	10	0	10	10		10	10	0	10	10	0	10
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-	0	-	-	0	-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	93	93	93	92	92	92	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	1	1	1
Mvmt Flow	34	701	40	11	860	11				18	36	181
Major/Minor	Majorl			Major2					N	1inor2		
Conflicting Flow All	881	0	0	751	0	0				1677	1717	886
Stage 1	-	-	-	-	-	-				897	897	-
Stage 2	-	-	-	-	-	-				780	820	-
Critical Hdwy	4.12	-	-	4.12	-	-				6.41	6.51	6.21
Critical Hdwy Stg 1	-	-	-	-	-	-				5.41	5.51	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.41	5.51	-
Follow-up Hdwy	2.218	-	-	2.218	-	-				3.509	4.009	3.309
Pot Cap-1 Maneuver	767	-	-	858	-	-				105	90	345
Stage 1	-	-	-	-	-	-				400	360	-
Stage 2	-	-	-	-	-	-				454	390	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	761	-	-	858	-	-				93	0	339
Mov Cap-2 Maneuver	-	-	-	-	-	-				93	0	-
Stage 1	-		-	-	-	-				365	0	-
Stage 2	-	-	-	-	-	-				439	0	-
Approach	EB			WB						SB		
HCM Ctrl Dly, s/v	0.44			0.11						64.61		
HCM LOS										F		
Minor Lane/Major Mvmt	t	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		79	-	-	22	-	-	273				
HCM Lane V/C Ratio		0.045	-	-	0.013	-	-	0.859				
HCM Ctrl Dly (s/v)		10		-	9.2		-	64.6				
HCM Lane LOS		Α	Α	-	Α	A	-	F				
HCM 95th %tile Q(veh)		0.1	-	-	0	-	-	7.3				

No Growth Synchro 12 Report Seth Page 1

Interpostica										
Intersection Int Delay, s/veh	4.5									
IIIL DEIBY, S/ VEN										
Movement	EBL	EBR	SEL	SET	SER	NWL	NWT	NWR	SWL	SWR
Lane Configurations	M			4			474			
Traffic Vol, veh/h	5		15	910	15	20	1100	125	0	0
Future Vol, veh/h	5		15	910	15	20	1100	125	0	0
Conflicting Peds, #/hr			20		10			20		
Sign Control	Stop		Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	-	None	-	-	None	-	-
Storage Length	0		-	-	-	-	-	-	-	0
Veh in Median Storage		-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	67	67	91	91	91	91	91	91	71	71
Heavy Vehicles, %	8		2	2	2	2	2	2	5	5
Mvmt Flow	7	37	16	1000	16	22	1209	137		
Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	1720	1023	1366	0	0	1026	0	0	- HIIIIIII Z	713
Stage 1	1720	1023	1700			1026			-	/13
Stage 2	668	_	-	_	_	_	_	_		_
	7.42	6.32	4.13	-	-	4.13	-	-	-	6.975
Critical Hdwy	6.22	2۵.۵	4.13	-	-	4.13	-	-	-	6,873
Critical Hdwy Stg 1	6.62	-	-	-	-	-	-		-	-
Critical Hdwy Stg 2			2.219			2.219	-	-		3.3475
Follow-up Hdwy	2			-	-	674		-		
Pot Cap-1 Maneuver	200	392	501	-	-	6/4	-	-	0	370
Stage 1	386		-	-			-	-	0	-
Stage 2	630	-	-	-	-	-	-	-	0	-
Platoon blocked, %		000	/, DD	-	-	חחח	-	-		חרים
Mov Cap-1 Maneuver	63	386	492	-	-	668	-	-	-	357
Mov Cap-2 Maneuver	63		-	-	-	-	-	-	-	-
Stage 1	354		-	-	-	-	-	-	-	-
Stage 2	540	-	-	-	-	-	-	-	-	-
Approach	EB		SE			NW			SW	
HCM Ctrl Dly, s/v	129.33		0.2			0.65			15.96	
HCM LOS	F								C	
W: 1 /W: W		kita/i	NIMT	MMD	רחי ו	OF!	DET	OLD	טאיי ל	
Minor Lane/Major Myn	nt	NWL	NWT	NWR	EBLn1	SEL	SET	2FK	SWLn1	
Capacity (veh/h)		51	-	-	92	29	-	-	357	
HCM Lane V/C Ratio		0.033	-	-		0.034	-		0.079	
HCM Ctrl Dly (s/v)		10.6	0.5	-		12.6	0	-	16	
HCM Lane LOS		В	A	-	F	В	A	-	0	
HCM 95th %tile Q(veh))	0.1	-	-	4.3	0.1	-	-	0.3	

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			ħ₽	
Traffic Vol, veh/h		Ö	0	20	Ö	115		590			760	5
Future Vol, veh/h	0	0	0	20	0	115	0	590	0	0	760	5
Conflicting Peds, #/hr	10		10	10		10	10		10	10		10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	77	77	77	93	93	93	90	90	90
Heavy Vehicles, %	0	0		1	1	1	1	1	1	2	2	2
Mvmt Flow	0			26		149		634			844	6
Major/Minor	Minor2			Minor1			Major1		N	Major2		
Conflicting Flow All	1502	1492	445	1067	1494	644	860		-	-	-	0
Stage 1	857	857	-	634	634	-	-	-	-	-	-	-
Stage 2	644	634	-	432	860	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.315	6.515	6.215	4.115	-	-	-	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.115	5.515	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.515	5.515	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.33	3.5095	4.00953	3.3095 2	2.2095	-	-	-	-	-
Pot Cap-1 Maneuver	93	125	566	189	123	474	785	-			-	-
Stage 1	322	377	-	468	474	-	-	-	0	0	-	-
Stage 2	465	476	-	575	374	-	-	-			-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	62	124	556	187	122	470	778	-	-	-	-	-
Mov Cap-2 Maneuver	62	124	-	187	122	-	-	-	-	-	-	-
Stage 1	320	373	-	468	474	-	-	-	-	-	-	-
Stage 2	314	476	-	570	370	-	-	-	-	-	-	-
_												
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0			22.02			0			0		
HCM LOS	A			C								
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		778	-	-	384		-					
HCM Lane V/C Ratio		-	-	-		-	-					
HCM Ctrl Dly (s/v)			-	0	22	-	-					
HCM Lane LOS		Α	-	A	C	-	-					
HCM 95th %tile Q(veh)			-	-	2.3	-	-					
,												

Intersection												
Int Delay, s/veh	24.2											
		СПТ	CDD	WILL	₩пт	WDD	ИП	ИПТ	ИПП	וחס	דחים	חחס
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	г	À	(П	100	À	пп	г	4	п	п	700	10
Traffic Vol., veh/h	5	0	10	160	0	90	5	585	0	0	730	10
Future Vol, veh/h	5 20	0	10	160	0	90	5	585	0 20	0	730	10
Conflicting Peds, #/hr		0	20	20	0	20	20	_ 0		20	_ 0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-		-	-	0	-	-	0	- n/
Peak Hour Factor	63	63	63	94	94	94	86	86	86	94	94	94
Heavy Vehicles, %	0	0	0	4	4	4	2	2	2	2	2	2
Mvmt Flow	8	0	16	170	0	96	6	680	0	0	777	11
Major/Minor	Minor2			Minor1			Major1		N	Najor2		
Conflicting Flow All	1514	1494	822	1488	1499	700	807	0	-	-	-	0
Stage 1	802	802	-	692	692	-	-	-	-	-	-	-
Stage 2	712	692	-	797	807	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	6.5	6.54	6.24	4.12	-	-	-	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.14	5.54	-		-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.14	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2	2	2	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	99	124	377	180	174	645	818	-	0	0	-	-
Stage 1	381	399	-	666	748	-	-	-	0	0	-	-
Stage 2	427	448	-	573	645	-	-	-	0	Ö	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	80	121	364	~ 167	169	634	804	-	-	-	-	-
Mov Cap-2 Maneuver	80	121	-	~ 167	169	-		-	-	-	-	-
Stage 1	374	392	-	658	739	-	-	-	-	-	-	-
Stage 2	352	443	-	538	634	-	_	_	_	_	_	_
01090 2	JUL	. 10		200	501							
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	30.06			157.65			0.08			0		
HCW LOS	D			F								
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	WBLn1	SBT	SBR					
Capacity (veh/h)		15	-	167	228	-	-					
HCM Lane V/C Ratio		0.007	-	0.142	1.169	_	_					
HCM Ctrl Dly (s/v)		9.5		30.1	157.6	-	-					
HCM Lane LOS		A	Ā	D	F	_	_					
HCM 95th %tile Q(veh)			-	0.5	12.7	-	-					
				0.0	.2.1							
Notes	.,	фрі		1 000								
~: Volume exceeds cap		\$: Delay										
+: Computation Not Def	ined	*: All ma	ıjor voli	ume in p	ilatoon							

Intersection												
Intersection Int Delay, s/veh	2.7											
,												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4						4			4	
Traffic Vol, veh/h	10	15	5	0		0	10	575	210	90	770	10
Future Vol, veh/h	10	15	5	0	0	0	10	575	210	90	770	10
Conflicting Peds, #/hr		0	10	10		10	20	0	50	50	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-		-	-	0	-	-		-
Peak Hour Factor	61	61	61	92	92	92	88	88	88	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	2	2	2	3	3	3
Mvmt Flow	16	25	8	0	0	0	11	653	239	97	828	11
Major/Minor	Minor2						Majorl		1	Major2		
Conflicting Flow All	1733	2012	863				859	0	0	942	0	0
Stage 1	1047	1047	-				-	-	-	J 4 Z	-	-
Stage 2	686	965	-				_	_	-	_	_	_
Critical Hdwy	6.4	6.5	6.2				4.12	_	_	4.13	_	_
Critical Hdwy Stg 1	5.4	5.5	U.Z -				4.12	-	-	4.10	-	
Critical Hdwy Stg 2	5.4	5.5	-						_	_		
Follow-up Hdwy	3.5	ں.ں 4	3.3				2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	98	60	ა.ა 357				782	-	_	724	<u>-</u>	-
Stage 1	341	308	- 1001				702	-	-	124	-	_
Stage 2	504	336	-				_	-	-	_	-	-
Stage Z Platoon blocked, %	JU4	770	-				-	-	-	-	-	-
	68	П	348				769			724		
Mov Cap-1 Maneuver	68	0					/65	-	-		-	-
Mov Cap-2 Maneuver	325	0	-				-	-	-	-	-	-
Stage 1		0	-				-	-	-	-	-	-
Stage 2	371	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	80						0.12			1.11		
HCW LOS	F											
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		21	-	-	93	186	-	-				
HCM Lane V/C Ratio		0.015	-	-	0.526	0.134	-	-				
HCM Ctrl Dly (s/v)		9.8	0	-	80	10.7	0	-				
HCM Lane LOS		A	Ā	-	F	В	Ā	-				
HCM 95th %tile Q(veh)			-	-	2.3	0.5	-	-				
non dom tome divent					2.0	0.0						

Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR	Intersection													
Movement EBL EBT EBR WBL WBT WBL NBL NBT NBR SBL SBT SBR		71												
Lane Configurations	іпт пеіау, 57 чеп													
Traffic Vol. veh/h	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL		NBR	SBL	SBT	SBR	
Future Vol. veh/h	Lane Configurations		4			4			4			4		
Conflicting Peds.#/hr 20	Traffic Vol, veh/h	5		5	10			5	715	10		680		
Stop Stop	Future Vol, veh/h	5	5	5	10	0	25	5	715	10	45	680	15	j
Sign Control Stop Stop Stop Stop Stop Stop Free Buth Coll Grade 4 0 0 0 0 0 0 0 0 0 0 0 0	Conflicting Peds, #/hr	20		20	20		20	20		20	20		20	
RT Channelized			Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	!
Veh in Median Storage, # - 0		-	-	None	-	-	None	-	-	None	-	-	None	!
Veh in Median Storage, # - 0	Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Grade, % - 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 3 3 3 2 2 2 2 Major/ Total Major/ Total <th< td=""><td></td><td>,# -</td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td>-</td><td></td></th<>		,# -		-	-		-	-		-	-		-	
Heavy Vehicles, % 10 10 10 10 0 0 0 3 3 3 2 2 2 2 2 2 2			0	-	-	0	-	-	0	-	-	0	-	
Heavy Vehicles, % 10 10 10 10 0 0 0 3 3 3 2 2 2 2 2 2 2		83	83	83	69	69	69	93	93	93	96	96	96	j
Major/Minor Minor Minor Minor Major Major														
Major/Minor Minor2 Minor1 Major1 Major2														
Conflicting Flow All 1629 1640 756 1630 1643 814 744 0 0 800 0 0														
Conflicting Flow All 1629 1640 756 1630 1643 814 744 0 0 800 0 0	M-:/M:	M:7			M:1			M=:==1			/ =:==7			
Stage			10.40			(D / D			п			п	п	
Stage 2														
Critical Hdwy 7.2 6.6 6.3 7.1 6.5 6.2 4.13 - 4.12 - Critical Hdwy Stg 1 6.2 5.6 - 6.1 5.5														
Critical Hdwy Stg I 6.2 5.6 - 6.1 5.5 -<														
Critical Hdwy Stg 2 6.2 5.6 - 6.1 5.5 -<														
Follow-up Hdwy 3.59 4.09 3.39 3.5 4 3.3 2.227 - 2.218 Pot Cap-I Maneuver 78 96 395 82 101 381 859 - 823 Stage I 353 374 - 379 398														
Pot Cap-I Maneuver 78 96 395 82 101 381 859 - - 823 - - Stage I 353 374 - 379 398 - - - - - - - - -														
Stage 353 374														
Stage 2 367 382 - 370 385	· · · · · · · · · · · · · · · · · · ·							859						
Platoon blocked, %							-	-	-	-			-	
Mov Cap-1 Maneuver 61 83 382 65 87 368 844 - 809 - - Mov Cap-2 Maneuver 61 83 - 65 87 - <		367	382	-	370	385	-	-	-	-	-		-	
Mov Cap-2 Maneuver 61 83 - 65 87 -												-	-	
Stage I 313 332 - 368 387 -								844	-	-	809	-	-	
Stage 2 322 37I - 3I7 34I							-	-	-	-	-	-	-	
Approach EB WB NB SB HCM Ctrl Dly, s/v 50.95 38.14 0.06 0.59 HCM LOS F E Minor Lane/Major Mvmt NBL NBT NBR EBLnl WBLnl SBL SBT SBR Capacity (veh/h) 12 - - 96 158 109 - - HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -				-			-	-	-	-	-	-	-	
HCM Ctrl Dly, s/v 50.95 38.14 0.06 0.59 HCM LOS F E	Stage 2	322	371	-	317	341	-	-	-	-	-	-	-	
HCM Ctrl Dly, s/v 50.95 38.14 0.06 0.59 HCM LOS F E														
HCM Ctrl Dly, s/v 50.95 38.14 0.06 0.59 HCM LOS F E	Approach	EB			WB			NB			SB			
Minor Lane/Major Mvmt NBL NBT NBR EBLnI WBLnI SBL SBR Capacity (veh/h) 12 - - 96 158 109 - - HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -														
Minor Lane/Major Mvmt NBL NBT NBR EBLnI WBLnI SBL SBT SBR Capacity (veh/h) 12 - - 96 158 109 - - HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -								0.00			0.00			
Capacity (veh/h) 12 - - 96 158 109 - - HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -	non coo	ı			L									
Capacity (veh/h) 12 - - 96 158 109 - - HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -	W. 1 04 . 24		NDI	NOT	MDD	rn: /	WD: /	001	0.07	000				
HCM Lane V/C Ratio 0.006 - - 0.188 0.321 0.058 - - HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -		1t		NRI	NRK				281	2.RK				
HCM Ctrl Dly (s/v) 9.3 0 - 50.9 38.1 9.7 0 - HCM Lane LOS A A - F E A A -				-	-				-	-				
HCM Lane LOS A A - F E A A -				_										
НСМ 95th %tile Ц(veh) U 0.7 1.3 0.2														
	HCM 95th %tile Q(veh)			-	-	0.7	1.3	0.2	-	-				

Intersection												
Int Delay, s/veh	3.2											
int belay, S7 ven	۵.۷											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30
Future Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30
Conflicting Peds, #/hr		0	10	10	0	10	12	0	12	12	0	12
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-		-	-		-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	64	64	64	96	96	96	98	98	98
Heavy Vehicles, %	4	4	4	6	6	6	3	3	3	2	2	2
Mvmt Flow	20	20	33	8	8	16	16	724	10	20	607	31
Major/Minor	Minor2			Minor1			Major1		N	1ajor2		
Conflicting Flow All	1444	1453	644	1440	1463	751	650	0	0	746	0	0
Stage 1	675	675	-	772	772	- 101	-	_	-	/ 1 0	-	-
Stage 2	769	778	-	668	691	_	_	_	_	_	_	_
Critical Hdwy	7.14	6.54	6.24	7.16	6.56	6.26	4.13	-	_	4.12	_	
Critical Hdwy Stg 1	6.14	5.54	U.Z 4	6.16	5.56	U.ZU -	4.10			4.12		
Critical Hdwy Stg 2	6.14	5.54	-	6.16	5.56	_	-	-		-	-	-
Follow-up Hdwy	3.536	4.036	3.336	3.554	4.054	3.354	2.227	-	_	2.218	-	_
Pot Cap-1 Maneuver	0.330 109	129	469	108	126	404	932	-	-	862	-	-
Stage 1	440	450	400	386	403	404	שטע		_	002	_	_
Stage 2	391	404	-	441	440	_	-	-	-	-	-	-
Platoon blocked, %	וכנ	404	-	441	440	-	-	-	-	_		
Mov Cap-1 Maneuver	90	118	460	77	115	396	922	-	-	853	-	-
Mov Cap-2 Maneuver	90	118	400	77	115	220	322	-	-	000	-	-
					388	-	-	-	-	-	-	-
Stage 1	419	429	-	371 372	388 419		_	-	-	-	-	-
Stage 2	354	388	-	۵۱۷	415	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	46.24			35.18			0.19			0.29		
HCM LOS	E			E								
Minor Lane/Major Mvm	ıt .	NBL	NBT	NBR	EBI n1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		37	-	-	158	150	55	-	-			
HCM Lane V/C Ratio		0.017	-	_		0.208		_	_			
HCM Ctrl Dly (s/v)		9	0	-	46.2	35.2	9.3		-			
HCM Lane LOS		A	Ā	-	E	E	A	A	_			
HCM 95th %tile Q(veh)		0.1	-	-	2.2	0.8	0.1	-	-			
Ootii 70tiio B(VIII)		0.1			LiL	0.0	0.1					

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Intersection						
Int Delay, s/veh	12.8					
, Movement	WBI	WBR	NBT	NBR	SBL	SBT
	WĎl			ZION	ODL	
Lane Configurations	_	rnr rnr	^	п	п	^
Traffic Vol. veh/h	[655	0	0	875
Future Vol, veh/h	[655	0	0	875
Conflicting Peds, #/hr			0	0	0	0
Sign Control	Stop		Free	Free	Free	Free
RT Channelized	•	None	-	None	-	None
Storage Length		0	-	-	-	-
Veh in Median Storage	,#[-	0	-	-	
Grade, %	[0	-	-	0
Peak Hour Factor	98		96	96	96	96
Heavy Vehicles, %	3		3	3	3	3
Mvmt Flow	[682	0	0	911
INVIIIL I IUW	L	החח	UUZ	Ш	U	וונ
Major/Minor	Minor		Major1		Major2	
Conflicting Flow All		341	0	-	-	-
Stage 1			-	-	_	-
Stage 2			_	_	_	_
Critical Hdwy			_	_	_	_
Critical Hdwy Stg 1			-	_	-	_
			-	-	-	
Critical Hdwy Stg 2						-
Follow-up Hdwy			-	-	-	-
Pot Cap-1 Maneuver			-	0	0	-
Stage 1	[-	0	0	-
Stage 2	[-	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver		652	-	-	-	-
Mov Cap-2 Maneuver			-	-	-	-
Stage 1		-	-	-	-	-
Stage 2			_	_	_	_
orage z						
Approach	WE		NB		SB	
HCM Ctrl Dly, s/v	46.24		NB O		O SB	
HCM Ctrl Dly, s/v HCM LOS	46.24 [0			
HCM Ctrl Dly, s/v	46.24 [SBT		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvn	46.24 [O WBLn1	SBT -		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvn Capacity (veh/h)	46.24 [NBT_	WBLn1 652			
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio	46.24 [NBT_	WBLn1 652 0.935	-		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	46.24 [NBT_	WBLn1 652 0.935 46.2	- - -		
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio	46.2 ⁴	NBT_	WBLn1 652 0.935	-		

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Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	5	5	10	Ö	25	5	715	10	45	680	15
Future Vol, veh/h	5	5	5	10	0	25	5	715	10	45	680	15
Conflicting Peds, #/hr							0		0		0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	69	69	69	93	93	93	96	96	96
Heavy Vehicles, %	10	10	10		0		3	3	3	2	2	2
Mvmt Flow	6	6	6	14		36	5	769	11	47	708	16
Major/Minor	Minor2			Minor1			Majorl		l	Major2		
Conflicting Flow All	1589	1600	716	1590	1603	774	724	0	0	780	0	0
Stage 1	810	810	-	785	785	-	-	-	-	-	-	-
Stage 2	780	790	-	805	818	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.13	-	-	4.12	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Fallow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.227	-	-	2.218	-	-
Pot Cap-1 Maneuver	83	102	417	88	107	402	874	-	-	838	-	-
Stage 1	362	382	-	389	407	-	-	-	-	-	-	-
Stage 2	377	390	-	379	393	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	68	91	417	73	96	402	874	-	-	838	-	-
Mov Cap-2 Maneuver	68	91	-	73	96	-	-	-	-	-	-	-
Stage 1	328	346	-	385	402	-	-	-	-	-	-	-
Stage 2	339	386	-	333	356	-	-	-	-	-	-	-
_												
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	45.49			33.63			0.06			0.58		
HCW FOZ	E			D								
Minor Lane/Major Mvm	1t	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		12	-	-	107	176	109	-	-			
HCM Lane V/C Ratio		0.006	-	-	0.169	0.289	0.056	-	-			
HCM Ctrl Dly (s/v)		9.1		-	45.5	33.6	9.6		-			
HCM Lane LOS		Α	Α	-	Е	D	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0.6	1.1	0.2	-	-			

Part 5: 2040 Build Conditions: Weekday AM Peak-Hour LOS and Delays

	۶	→	•	•	•	•	1	†	/	/	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4						4		
Traffic Volume (vph)	55	550	15	0	850	25	0	0	0	15	40	130	
Future Volume (vph)	55	550	15	0	850	25	0	0	0	15	40	130	
Satd. Flow (prot)	0	1519	0	0	1553	0	0	0	0	0	1493	0	
Flt Permitted		*0.900									0.996		
Satd. Flow (perm)	0	1372	0	0	1553	0	0	0	0		1488	0	
Satd. Flow (RTDR)											64		
Lane Group Flow (vph)	0	666	0	0	921	0	0	0	0		205	0	
Turn Type	Perm	NA			NA					Split	NA		
Protected Phases		4			8					6	6		9
Permitted Phases	4			8									
Total Split (s)	102.0	102.0		102.0	102.0					23.0	23.0		25.0
Total Lost Time (s)		5.0			5.0						5.0		
Act Effct Green (s)		112.1			112.1						18.3		
Actuated g/C Ratio		0.75			0.75						0.12		
v/c Ratio		0.65			0.79						0.86		
Control Delay (s/veh)		16.1			13.2						74.7		
Queue Delay		0.1			0.6						0.2		
Total Delay (s/veh)		16.2			13.8						74.9		
LOS		В			В						E		
Approach Delay (s/veh)		16.2			13.8						74.9		
Approach LOS		В			В						E		
Queue Length 50th (ft)		236			179						135		
Queue Length 95th (ft)		604			m65						#279		
Internal Link Dist (ft)		2078			541			113			384		
Turn Bay Length (ft)													
Base Capacity (vph)		1025			1160						248		
Starvation Cap Reductn		0			55						0		
Spillback Cap Reductn		24			0						1		
Storage Cap Reductn		0			0						0		
Reduced v/c Ratio		0.67			0.83						0.83		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 123 (82%), Referenced to phase 4:EBTL and 8:WBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.86

Intersection Signal Delay (s/veh): 21.7
Intersection Capacity Utilization 102.4%

Intersection LOS: C

ICU Level of Service G

Analysis Period (min) 15

- * User Entered Value
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

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

Splits and Phases: 1: North St & Liberty Hill Ave



	۶	→	\searrow	•	←	•	4	†	/	/	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ	1∌		×	1≽			4			4		
Traffic Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Future Volume (vph)	5	530	10	15	740	50	60	85	20	120	75	35	
Satd. Flow (prot)	1662	1525	0	1694	1543	0		1487	0		1688	0	
Flt Permitted	*0.900			*0.900				0.982			0.975		
Satd. Flow (perm)	1574	1525	0	1605	1543	0	0	1487	0	0	1688	0	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	5	556	0	16	858	0	0	201	0		307	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	74.0	74.0		74.0	74.0		23.0	23.0		28.0	28.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	68.0	68.0		68.0	68.0			27.4			26.6		
Actuated g/C Ratio	0.45	0.45		0.45	0.45			0.18			0.18		
v/c Ratio	0.01	0.80		0.02	1.23			0.74			1.03		
Control Delay (s/veh)	15.8	33.4		16.0	142.9			74.6			117.1		
Queue Delay	0.0	1.9		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	15.8	35.3		16.0	142.9			74.6			117.1		
LOS	В	D		В	F			E			F		
Approach Delay (s/veh)		35.2			140.6			74.6			117.1		
Approach LOS		D			F			E			F		
Queue Length 50th (ft)	2	466		5	~1042			182			290		
Queue Length 95th (ft)	m2	492		m10	#1277			#352			#431		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	713	691		727	699			271			299		
Starvation Cap Reductn	0	49		0				0					
Spillback Cap Reductn		0		0	0			0			0		
Storage Cap Reductn	0	0		0				0					
Reduced v/c Ratio	0.01	0.87		0.02	1.23			0.74			1.03		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 138 (92%), Referenced to phase 4:EBTL and 8:WBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.23

Intersection Signal Delay (s/veh): 99.6

Intersection LOS: F

ICU Level of Service C

Intersection Capacity Utilization 71.5% Analysis Period (min) 15

* User Entered Value

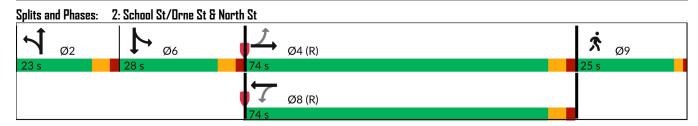
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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



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Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9	
Lane Configurations	f)		×	†		7			
Traffic Volume (vph)	715	30	295	740	0	175			
Future Volume (vph)	715	30	295	740	0	175			
Satd. Flow (prot)	1738	0	1678	1766	0	1528			
Flt Permitted			0.950						
Satd. Flow (perm)	1738	0	1678	1766	0	1464			
Satd. Flow (RTDR)									
Lane Group Flow (vph)	776	0	321	804	0	219			
Turn Type	NA		Prot	NA		pm+ov			
Protected Phases	6		5	2		5	4	9	
Permitted Phases						4			
Total Split (s)	68.0		33.0	101.0		33.0	23.0	26.0	
Total Lost Time (s)	4.0		5.0	4.0		5.0			
Act Effct Green (s)	86.7		38.7	132.0		38.7			
Actuated g/C Ratio	0.58		0.26	0.88		0.26			
v/c Ratio	0.77		0.74	0.52		0.56			
Control Delay (s/veh)	13.8		55.2	9.5		54.0			
Queue Delay	0.0		0.0	0.0		0.0			
Total Delay (s/veh)	13.8		55.2	9.5		54.0			
LOS	В		E	A		D			
Approach Delay (s/veh)	13.8			22.6	54.0				
Approach LOS	В			С	D				
Queue Length 50th (ft)	461		278	388		188			
Queue Length 95th (ft)	m#898		396	654		232			
Internal Link Dist (ft)	1292			252	419				
Turn Bay Length (ft)									
Base Capacity (vph)	1004		433	1554		394			
Starvation Cap Reductn	0		0	0					
Spillback Cap Reductn	0		0	0		0			
Storage Cap Reductn	0			0		0			
Reduced v/c Ratio	0.77		0.74	0.52		0.56			

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 22 (15%), Referenced to phase 2:NWT and 6:SET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.77

Intersection Signal Delay (s/veh): 22.6
Intersection Capacity Utilization 72.8%

Intersection LOS: C ICU Level of Service C

Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 3: Mason St & North St



	٠	→	\rightarrow	•	←	*	4	†	<i>></i>	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	¥		7		4		ħ	†			† }		
Traffic Volume (vph)	20	0	70	10	25	115	85	610	0	0	590	290	
Future Volume (vph)	20	0	70	10	25	115	85	610	0	0	590	290	
Satd. Flow (prot)	1694	0	1516	0	1552	0	1694	1783	0	0	3183	0	
Flt Permitted	0.950				0.997		*0.950						
Satd. Flow (perm)	1694	0	1405	0	1552		1694	1783	0	0	3183	0	
Satd. Flow (RTDR)					*30								
Lane Group Flow (vph)	22	0	76	0	163		88	629	0	0	910	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	13.0		16.0	32.0	32.0		16.0	78.0			62.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	7.4		14.6		18.4		95.3	95.3			79.3		
Actuated g/C Ratio	0.05		0.10		0.12		0.64	0.64			0.53		
v/c Ratio	0.27		0.53		0.75		0.08	0.56			0.54		
Control Delay (s/veh)	76.9		57.6		72.3		12.0	13.3			17.1		
Queue Delay	0.0		0.0		0.0		0.0	0.3			0.0		
Total Delay (s/veh)	76.9		57.6		72.3		12.0	13.6			17.1		
LOS	E		E		E		В	В			В		
Approach Delay (s/veh)		61.9			72.3			13.4			17.1		
Approach LOS		E			E			В			В		
Queue Length 50th (ft)	21		53		128		21	157			290		
Queue Length 95th (ft)	53		89		201		m31	m220			410		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	83		143		293		1076	1132			1682		
Starvation Cap Reductn	0		0		0		0	119			0		
Spillback Cap Reductn			0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.27		0.53		0.56		0.08	0.62			0.54		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 54 (36%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.75

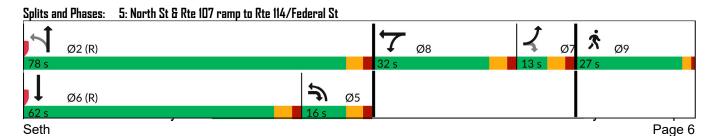
Intersection Signal Delay (s/veh): 22.8 Intersection Capacity Utilization 63.9% Intersection LOS: C

ICU Level of Service B

Analysis Period (min) 15

User Entered Value

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



	۶	→	\rightarrow	•	←	•	1	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		र्स	7					1≽		*	1≽		
Traffic Volume (vph)	100	120	35	0	0	0	0	550	35	110	480	55	
Future Volume (vph)	100	120	35				0	550	35	110	480	55	
Satd. Flow (prot)	0	1365	1356	0	0	0	0	1382	0	1501	1356	0	
Flt Permitted		0.978								0.236			
Satd. Flow (perm)	0	1365	1279	0	0	0	0	1382	0	373	1356	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	242	38	0	0	0	0	597	0	111	541	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	32.0	32.0	32.0					72.0		11.0	83.0		35.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		27.0	27.0					75.4		90.8	89.8		
Actuated g/C Ratio		0.18	0.18					0.50		0.61	0.60		
v/c Ratio		0.99	0.17					0.86		0.37	0.67		
Control Delay (s/veh)		114.7	54.3					47.5		14.5	19.7		
Queue Delay		0.0	0.0					6.0		0.0	0.3		
Total Delay (s/veh)		114.7	54.3					53.6		14.5	20.1		
LOS		F	D					D		В	C		
Approach Delay (s/veh)		106.5						53.6			19.1		
Approach LOS		F						D			В		
Queue Length 50th (ft)		239	32					553		20	100		
Queue Length 95th (ft)		#420	68					#831		53	234		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		245	230					694		304	811		
Starvation Cap Reductn		0	0					63		0	0		
Spillback Cap Reductn		0	0					0		0	44		
Storage Cap Reductn		0	0					0		0	0		
Reduced v/c Ratio		0.99	0.17					0.95		0.37	0.71		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 50 (33%), Referenced to phase 2:NBT and 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.99

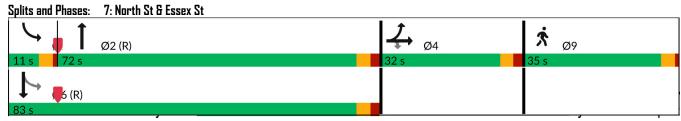
Intersection Signal Delay (s/veh): 48.6 Intersection Capacity Utilization 73.2% Intersection LOS: D

ICU Level of Service D

Analysis Period (min) 15

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

Queue shown is maximum after two cycles.



Seth Page 8

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4			1∌			4		
Traffic Volume (vph)	10	90	15	20	0	340	0	235	40	345	165	0	
Future Volume (vph)	10	90	15	20	0	340	0	235	40	345	165	0	
Satd. Flow (prot)	0	1511	0	0	1269	0	0	1520	0		1480	0	
Flt Permitted		*0.900			0.952						0.596		
Satd. Flow (perm)	0	1361	0	0	1210	0	0	1520	0		906	0	
Satd. Flow (RTDR)					362								
Lane Group Flow (vph)	0	146	0	0	383	0	0	316	0	0	554	0	
Turn Type	Perm	NA		Perm	NA			NA		Perm	NA		
Protected Phases		4			8			2			6		9
Permitted Phases	4			8						6			
Total Split (s)	35.0	35.0		35.0	35.0			90.0		90.0	90.0		25.0
Total Lost Time (s)		5.0			5.0			5.0			5.0		
Act Effct Green (s)		21.4			21.4			109.8			109.8		
Actuated g/C Ratio		0.14			0.14			0.73			0.73		
v/c Ratio		0.75			0.79			0.28			0.84		
Control Delay (s/veh)		84.0			19.0			10.3			25.2		
Queue Delay		0.0			2.7			0.2			0.0		
Total Delay (s/veh)		84.0			21.7			10.5			25.2		
LOS		F			C			В			C		
Approach Delay (s/veh)		84.0			21.7			10.5			25.2		
Approach LOS		F			C			В			C		
Queue Length 50th (ft)		139			93			70			192		
Queue Length 95th (ft)		177			m113			210			#815		
Internal Link Dist (ft)		246			238			211			431		
Turn Bay Length (ft)													
Base Capacity (vph)		272			531			1112			662		
Starvation Cap Reductn		0			0			0			0		
Spillback Cap Reductn		0			69			295			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.54			0.83			0.39			0.84		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 43 (29%), Referenced to phase 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.84

Intersection Signal Delay (s/veh): 27.1 Intersection Capacity Utilization 83.6% Intersection LOS: C

ICU Level of Service E

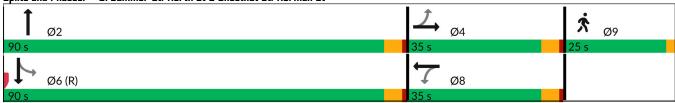
Analysis Period (min) 15

- * User Entered Value
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

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

Splits and Phases: 8: Summer St/North St & Chestnut St/Norman St



	٠	→	\rightarrow	•	←	•	•	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ħ	†	7	¥	1≽		ř	† †	7	ř	†	7	
Traffic Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Future Volume (vph)	30	185	190	65	225	75	250	600	165	65	200	70	
Satd. Flow (prot)	1662	1749	1487	1678	1684	0	1694	3388	1516	1678	1766	1501	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1662	1749	1423	1678	1684	0	1694	3388	1420	1678	1766	1358	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	35	218	224	76	349	0	278	667	183	71	217	76	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	12.0	40.0	40.0	15.0	43.0		36.0	46.0	46.0	19.0	29.0	29.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	6.3	30.5	30.5	8.8	35.5		27.7	49.7	49.7	13.0	35.0	35.0	
Actuated g/C Ratio	0.04	0.20	0.20	0.06	0.24		0.18	0.33	0.33	0.09	0.23	0.23	
v/c Ratio	0.51	0.61	0.78	0.78	0.88		0.89	0.60	0.39	0.49	0.53	0.24	
Control Delay (s/veh)	95.3	64.6	74.3	112.8	78.1		64.6	31.5	29.1	77.4	61.0	56.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	95.3	64.6	74.3	112.8	78.1		64.6	31.5	29.1	77.4	61.0	56.9	
LOS	F	E	E	F	E		E	C	C	E	E	E	
Approach Delay (s/veh)		71.4			84.3			39.3			63.3		
Approach LOS		E			F			D			E		
Queue Length 50th (ft)	34	198	204	75	327		277	325	149	67	208	68	
Queue Length 95th (ft)	m47	m225	m243	#154	#451		m#384	m385	m214	123	#338	122	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	69	396	322	100	415		338	1121	470	145	411	316	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio	0.51	0.55	0.70	0.76	0.84		0.82	0.60	0.39	0.49	0.53	0.24	

Cycle Length: 150

Actuated Cycle Length: 150

Offset: O (O%), Referenced to phase 2:NBT and 6:SBT, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.89

Intersection Signal Delay (s/veh): 57.3 Intersection Capacity Utilization 66.3% Intersection LOS: E ICU Level of Service C

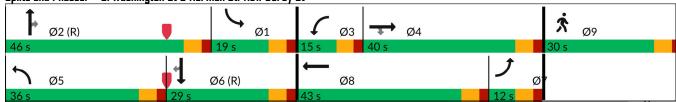
Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	7	↑	7		€	7	ሻ	∱ ‡		ሻ	↑	7	
Traffic Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Future Volume (vph)	145	255	260	20	190	270	135	580	20	145	285	35	
Satd. Flow (prot)	1694	1783	1516	0	1774	1516	1711	3396	0	1694	1783	1516	
Flt Permitted	0.950				0.531		0.950			0.950			
Satd. Flow (perm)	1694	1783	1442	0	947	1456	1711	3396	0	1694	1783	1432	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	167	293	299	0	226	290	147	652	0	161	317	39	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	23.0	53.0	22.0	30.0	30.0	22.0	22.0	40.0		22.0	40.0	23.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	16.0	46.0	61.0		23.0	38.3	15.0	39.7		15.3	40.0	56.0	
Actuated g/C Ratio	0.11	0.31	0.41		0.15	0.26	0.10	0.26		0.10	0.27	0.37	
v/c Ratio	0.93	0.54	0.50		1.56	0.77	0.86	0.73		0.93	0.67	0.07	
Control Delay (s/veh)	115.8	47.5	33.2		322.0	45.1	105.5	57.8		88.4	36.1	12.1	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	115.8	47.5	33.2		322.0	45.1	105.5	57.8		88.4	36.1	12.1	
LOS	F	D	C		F	D	F	E		F	D	В	
Approach Delay (s/veh)		56.9			166.4			66.5			50.6		
Approach LOS		E			F			E			D		
Queue Length 50th (ft)	165	239	197		~311	147	144	327		140	322	17	
Queue Length 95th (ft)	#295	323	269		#486	#224	#275	#425		m#294	#456	m30	
Internal Link Dist (ft)		253			828			250			528		
Turn Bay Length (ft)						300	300						
Base Capacity (vph)	180	546	593		145	378	171	898		173	475	543	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Reduced v/c Ratio	0.93	0.54	0.50		1.56	0.77	0.86	0.73		0.93	0.67	0.07	

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 86 (57%), Referenced to phase 2:NBT and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.56

Intersection Signal Delay (s/veh): 80.4 Intersection Capacity Utilization 72.6% Intersection LOS: F ICU Level of Service C

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

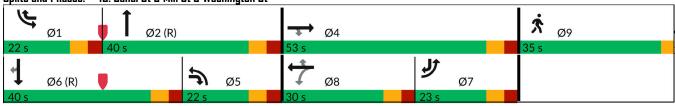
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 10: Canal St & Mill St & Washington St



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Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	¥	†				¥	ŧ.		7		M			
Traffic Volume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Future Volume (vph)	355	305	5	35	5	10	290	5	335	5	5	5	5	
Satd. Flow (prot)	1678	1513	0	0	0	1646	1511	0	1528	0	1617	0	0	
Flt Permitted	0.380					0.950					0.976			
Satd. Flow (perm)	671	1513	0	0	0	1646	1511	0	1446	0	1617	0	0	
Satd. Flow (RTDR)									*100					
Lane Group Flow (vph)	394	384	0	0	0	18	347	0	409	0	20	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	19.0	38.5			16.0	16.0	35.5		29.0	12.5	12.5			24.0
Total Lost Time (s)	4.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	67.2	57.2				8.0	44.6		24.0		5.0			
Actuated g/C Ratio	0.56	0.48				0.07	0.37		0.20		0.04			
v/c Ratio	0.79	0.53				0.17	0.62		1.11		0.30			
Control Delay (s/veh)	37.3	27.9				56.6	41.5		113.4		67.4			
Queue Delay	2.0	1.3				0.0	0.0		0.8		0.0			
Total Delay (s/veh)	39.2	29.2				56.6	41.5		114.3		67.4			
LOS	D	C				E	D		F		E			
Approach Delay (s/veh)		34.3					42.2				67.4			
Approach LOS		C					D				E			
Queue Length 50th (ft)	226	228				13	232		~296		15			
Queue Length 95th (ft)	#365	#494				36	#427		#421		42			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	501	721				109	561		369		67			
Starvation Cap Reductn	34	166				0	0		0		0			
Spillback Cap Reductn	0	0				0	0		28		0			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.84	0.69				0.17	0.62		1.20		0.30			

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 8 (7%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay (s/veh): 57.4 Intersection Capacity Utilization 65.2% Intersection LOS: E

ICU Level of Service C

Analysis Period (min) 15

- * User Entered Value
- ~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 11: Lafayette St & Dow St & Washington St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4			4			f a		
Traffic Volume (vph)	5	Ö	5	75	Ō	90	5	665	0	0	590	5	
Future Volume (vph)	5	0	5	75	0	90	5	665	0	0	590	5	
Satd. Flow (prot)	0	1364	0	0	1326	0	0	1545	0	0	1529	0	
Flt Permitted					0.978			0.997					
Satd. Flow (perm)	0	1379	0	0	1286	0	0	1541	0	0	1529	0	
Satd. Flow (RTDR)		82			82								
Lane Group Flow (vph)	0	10	0	0	187	0	0	769	0	0	668	0	
Turn Type	Perm	NA		Split	NA		Perm	NA			NA		
Protected Phases		4		8	8			2			6		9
Permitted Phases	4						2						
Total Split (s)	23.0	23.0		23.0	23.0		49.0	49.0			49.0		25.0
Total Lost Time (s)		5.0			5.0			5.0			5.0		
Act Effct Green (s)		5.5			15.6			87.9			87.9		
Actuated g/C Ratio		0.05			0.13			0.73			0.73		
v/c Ratio		0.07			0.77			0.68			0.60		
Control Delay (s/veh)		1.0			47.6			15.0			9.4		
Queue Delay		0.0			0.2			0.4			1.6		
Total Delay (s/veh)		1.0			47.8			15.4			11.0		
LOS		Α			D			В			В		
Approach Delay (s/veh)		1.0			47.8			15.4			11.0		
Approach LOS		Α			D			В			В		
Queue Length 50th (ft)		0			80			44			15		
Queue Length 95th (ft)		0			151			m#844		r	n#306		
Internal Link Dist (ft)		64			604			261			285		
Turn Bay Length (ft)													
Base Capacity (vph)		276			283			1129			1120		
Starvation Cap Reductn		0			0			0			272		
Spillback Cap Reductn		0			4			75			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.04			0.67			0.73			0.79		

Cycle Length: 120

Actuated Cycle Length: 120

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.77

Intersection Signal Delay (s/veh): 17.2
Intersection Capacity Utilization 60.1%

Intersection LOS: B ICU Level of Service B

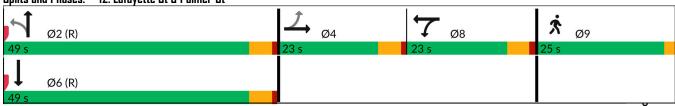
Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 12: Lafayette St & Palmer St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		सी	7		4	7	7	î.			4	7	
Traffic Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Future Volume (vph)	180	10	110	15	30	20	175	610	10	5	410	135	
Satd. Flow (prot)	0	1421	1446	0	1535	1516	1711	1572	0		1515	1473	
Flt Permitted		*0.950			0.984		0.950				0.993		
Satd. Flow (perm)	0	1414	1446	0	1535	1516	1711	1572	0	0	1506	1473	
Satd. Flow (RTOR)													
Lane Group Flow (vph)	0	218	126	0	51	23	179	632	0	0	494	161	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	4 5	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	21.0	21.0		11.0	11.0	11.0	16.0	60.0		44.0	44.0	21.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		16.0	32.9		6.0	6.0	15.9	68.4			47.5	68.5	
Actuated g/C Ratio		0.13	0.27		0.05	0.05	0.13	0.57			0.40	0.57	
v/c Ratio		1.16	0.32		0.67	0.31	0.79	0.71			0.83	0.19	
Control Delay (s/veh)		161.2	22.8		95.2	66.0	76.8	28.9			53.1	15.5	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		161.2	22.8		95.2	66.0	76.8	28.9			53.1	15.5	
LOS		F	C		F	E	E	C			D	В	
Approach Delay (s/veh)		110.5			86.1			39.5			43.8		
Approach LOS		F			F			D			D		
Queue Length 50th (ft)		~199	41		40	18	~162	433			~391	64	
Queue Length 95th (ft)		#340	68		#99	44	#309	#665			#555	158	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		188	396		76	75	226	896			596	840	
Starvation Cap Reductn		0	0		0	0	0	0			0	0	
Spillback Cap Reductn		0	0		0	0	0	0			0	0	
Storage Cap Reductn		0	0		0	0	0	0			0	0	
Reduced v/c Ratio		1.16	0.32		0.67	0.31	0.79	0.71			0.83	0.19	

Cycle Length: 120

Actuated Cycle Length: 120

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.16

Intersection Signal Delay (s/veh): 55.8 Intersection Capacity Utilization 84.2% Intersection LOS: E

ICU Level of Service E

Analysis Period (min) 15

- * User Entered Value
- ~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



Intersection										
Int Delay, s/veh	1.3									
Movement	EBL	EBR	SEL	SET	SER	NWL	NWT	NWR	SWL	SWR
Lane Configurations	M	LOIN	ULL	4	ULIN		475	11711	UIIL	Unit
Traffic Vol, veh/h		20	20	852	20	40	1000	160		0
Future Vol., veh/h	0	20	20	852	20	40	1000	160	Ö	Ö
Conflicting Peds, #/hr		5	20	0	10	0	0	20		
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	-	None	-	-	None	-	-
Storage Length	0	-	-	-	-	-	-	-	-	0
Veh in Median Storage,	# []	-	-		-	-		-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	91	91	91	92	92	92	92	92
Heavy Vehicles, %	2	2	3	3	3	3	3	3	3	3
Mvmt Flow	0	22	22	936	22	43	1087	174	0	0
Major/Minor	Minor1		Major1		١	Major2			Minor2	
Conflicting Flow All	1652	962	1281	0	0	968	0	0	-	670
Stage 1	1001	-	-	-	-	-	-	-	-	-
Stage 2	650	-	-	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.23	4.145	-	-	4.145	-	-	-	6.945
Critical Hdwy Stg 1	6.13	-	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	-	-	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	3.319 2	2.2285	-	- 2	2.2285	-	-	- (3.3285
Pot Cap-1 Maneuver	71	309	535	-	-	704	-	-		398
Stage 1	292	-	-	-	-	-	-	-	0	-
Stage 2	425	-	-	-	-	-	-	-		-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	54	305	526	-	-	698	-	-	-	384
Mov Cap-2 Maneuver	54	-	-	-	-	-	-	-	-	-
Stage 1	263	-	-	-	-	-	-	-	-	-
Stage 2	356	-	-	-	-	-	-	-	-	-
Approach	EB		SE			NW			SW	
HCM Ctrl Dly, s/v	32.46		0.27			1.14			14.93	
HCM LOS	D2.70		U.LI			1.1			В	
Minor Lane/Major Mvm	ıt	NWL	NWT	NMB	EBLn1	SEL	SET	SER	SWLn1	
Capacity (veh/h)		101	-	-	158	40	- UL1	- ULIN	384	
HCM Lane V/C Ratio		0.062	-		0.172		-		0.057	
HCM Ctrl Dly (s/v)		10.5	0.9	-	32.5	12.1	0	-	14.9	
HCM Lane LOS		10.3 B	Α.Δ		02.0 D	12.1 B	A	-	14.3 B	
HCM 95th %tile Q(veh)		0.2	A -	-	0.6	0.1	A -	-	0.2	
ווטויו טטנוו /טנווכ ש(1811)		U.Z			U.U	U.I	_		U.L	

Intersection												_
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			† ‡	
Traffic Vol, veh/h	5	Ö	5	10	5	70		635	0	0	630	5
Future Vol., veh/h	5	0	5	10	5	70	0	635	0	0	630	5
Conflicting Peds, #/hr	10		10	10		10	10		10	10		10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-		-	-		-	-		-
Peak Hour Factor	84	84	84	84	84	84	97	97	97	94	94	94
Heavy Vehicles, %	4	4	4	2	2	2	3	3	3	4	4	4
Mvmt Flow	6	0	6	12	6	83	0	655	0	0	670	5
Major/Minor	Minor2			Minor1			Majorl		N	1ajor2		
Conflicting Flow All	1350	1338	358	1000	1340	665	686	0	-	-	-	0
Stage 1	683	683	-	655	655	-		-	-	-	-	-
Stage 2	668	655	-	345	686	-	-	-	-	-	-	-
Critical Hdwy	7.36	6.56	6.96	7.33	6.53	6.23	4.145	-	-	-	-	-
Critical Hdwy Stg 1	6.56	5.56	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.16	5.56	-	6.53	5.53	-	-	-	-	-	-	-
Fallow-up Hdwy	3.538	4.038	3.338	3.519	4.019	3.319	2.2285	-	-	-	-	-
Pot Cap-1 Maneuver	116	150	635	209	152	459	900	-	0	0	-	-
Stage 1	402	444	-	454	462	-	-	-	0	0	-	-
Stage 2	443	458	-	644	447	-	-	-			-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	90	149	624	206	151	455	892	-	-	-	-	-
Mov Cap-2 Maneuver	90	149	-	206	151	-	-	-	-	-	-	-
Stage 1	399	441	-	454	462	-	-	-	-	-	-	-
Stage 2	354	458	-	633	443	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	29.86			18.82			0			0		
HCM LOS	D			C			=			_		
Minor Lane/Major Mvm	1t	NBL	NBT	EBLn1	WRInt	SBT	SBR					
Capacity (veh/h)	IL.	892	-	157	361	- 100	יוחפ					
HCM Lane V/C Ratio		- 032		0.076	0.28	-	_					
HCM Ctrl Dly (s/v)		0	-	29.9	18.8	_	_					
HCM Lane LOS		A	_	23.3 D	10.0 C	-	_					
HCM 95th %tile Q(veh)		0	_	0.2	1.1	_	_					
Hom outil Joule (4(1611)				u.L	1.1							

Intersection												
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4						4			4	
Traffic Vol, veh/h	5	30	5	0	0	0	5	570	250	110	610	10
Future Vol. veh/h	5	30	5	0	0	0	5	570	250	110	610	10
Conflicting Peds, #/hr		0	10	10	0	10	20	0,0	50	50	0.0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	_	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	.# -	0	-	-	0	-	-		-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	82	82	82	92	92	92	95	95	95	91	91	91
Heavy Vehicles, %	4	4	4	0	0	0	3	3	3	5	5	5
Mvmt Flow	6	37	6	0	0	0	5	600	263	121	670	11
Major/Minor	Minor2						Major1		١	Major2		
Conflicting Flow All	1558	1861	706				701	0	0	913	0	0
Stage 1	938	938	-				-	-	-	-	-	-
Stage 2	621	924	-				-	-	-	-	-	-
Critical Hdwy	6.44	6.54	6.24				4.13	-	-	4.15	-	-
Critical Hdwy Stg 1	5.44	5.54	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.44	5.54	-				-	-	-	-	-	-
Follow-up Hdwy	3.536	4.036	3.336				2.227	-	-	2.245	-	-
Pot Cap-1 Maneuver	122	72	433				891	-	-	734	-	-
Stage 1	378	341	-				-	-	-	-	-	-
Stage 2	532	346	-				-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	86	0	421				876	-	-	734	-	-
Mov Cap-2 Maneuver	86	0	-				-	-	-	-	-	-
Stage 1	367	0	-				-	-	-	-	-	-
Stage 2	384	0	-				-	-	-	-	-	-
_												
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	42.86						0.06			1.64		
HCM LOS	E											
	_											
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		10	-	-	143	270	-	-				
HCM Lane V/C Ratio		0.006	-	-	0.342	0.165	-	-				
HCM Ctrl Dly (s/v)		9.1	0	-	42.9	10.9	0	-				
HCM Lane LOS		A	Ā	-	E	В	A	-				
HCM 95th %tile Q(veh)		0	-	-	1.4	0.6	-	-				

Intersection												
Int Delay, s/veh	0.9											
IIIL DEIBY, S7 VEII												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5		5	5	0	25	5	760	15	10	525	5
Future Vol, veh/h	5	0	5	5	0	25	5	760	15	10	525	5
Conflicting Peds, #/hr	20	0	20	20		20	20		20	20	0	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-		-
Peak Hour Factor	83	83	83	78	78	78	94	94	94	95	95	95
Heavy Vehicles, %	10	10	10	0	0	0	4	4	4	6	6	6
Mvmt Flow	6	0	6	6	0	32	5	809	16	- 11	553	5
Major/Minor	Minor2			Minor1			Major1		,	Major2		
_		1451	595	1441	1446	856	Majuri 578			844	0	П
Conflicting Flow All	1435					468	۵/۵		0	844 -		0
Stage 1	596	596	-	847	847				-		-	-
Stage 2	839	855	- -	594	599	- -	- 4.4.	-	-	- 4 (P	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.14	-	-	4.16	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	- D DC /	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.236	-	-	2.254	-	-
Pot Cap-1 Maneuver	107	126	489	112	133	360	986	-	-	775	-	-
Stage 1	476	479	-	359	381	-	-	-	-	-	-	-
Stage 2	349	364	-	495	494	-	-	-	-	-	-	-
Platoon blocked, %		,,,,	/80	100	10.1	0.45	000	-	-	701	-	-
Mov Cap-1 Maneuver	91	118	473	103	124	348	969	-	-	761	-	-
Mov Cap-2 Maneuver	91	118	-	103	124	-	-	-	-	-	-	-
Stage 1	459	461	-	349	370	-	-	-	-	-	-	-
Stage 2	308	354	-	471	475	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	30.65			22.06			0.06			0.18		
HCM LOS	D			C								
Minor Lane/Major Mvm	+	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		11	1101	-	152	249	33	- 100	- 100			
HCM Lane V/C Ratio		0.005	-		0.079	0.154	0.014	-	-			
HCM Ctrl Dly (s/v)		8.7	0	_	30.6	22.1	9.8		-			
HCM Lane LOS		۵. <i>۱</i> A	A	-	0.0 D	ZZ.1 C	0.c A	A	-			
HCM 95th %tile Q(veh)			A -	-	0.3	0.5		A -	-			
ווטאן סטווו /סנווצ מל(LU)		П	-	-	0.0	0.0	U	-	-			

Intersection												
Int Delay, s/veh	2.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4		.,	4			4			4	
Traffic Vol. veh/h	20	5	25	5	5	20	15	725	10	5	515	15
Future Vol. veh/h	20	5	25	5	5	20	15	725	10	5	515	15
Conflicting Peds, #/hr		0	10	10	Ō	10	12	0	12	12	0.0	12
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -		-	-		-	-		-	-		-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	75	75	75	97	97	97	90	90	90
Heavy Vehicles, %	6	6	6	2	2	2	5	5	5	6	6	6
Mvmt Flow	22	6	28	7	7	27	15	747	10	6	572	17
Major/Minor	Minor2			Minor1			Major1		ı	Major2		
Conflicting Flow All	1395	1404	603	1392	1408	775	601	0	0	770	0	0
Stage 1	604	604	-	796	796	-	-	-	-	-	-	-
Stage 2	792	801	-	596	612	-	-	-	-	-	-	-
Critical Hdwy	7.16	6.56	6.26	7.12	6.52	6.22	4.15	-	-	4.16	-	-
Critical Hdwy Stg 1	6.16	5.56	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.16	5.56	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.554	4.054	3.354	3.518	4.018	3.318	2.245	-	-	2.254	-	-
Pot Cap-1 Maneuver	116	137	492	119	139	398	962	-	-	827	-	-
Stage 1	479	482	-	381	399	-	-	-	-	-	-	-
Stage 2	377	391	-	490	484	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	97	129	483	102	131	391	952	-	-	818	-	-
Mov Cap-2 Maneuver	97	129	-	102	131	-	-	-	-	-	-	-
Stage 1	469	472	-	366	384	-	-	-	-	-	-	-
Stage 2	332	376	-	448	474	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	36.46			25.36			0.18			0.09		
HCM LOS	E			D			0.10			0.00		
TIGHT EGG	_											
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	WBI n1	SBL	SBT	SBR			
Capacity (veh/h)		36	-		169	217	17					
HCM Lane V/C Ratio		0.016	-	_	0.329		0.007	_	_			
HCM Ctrl Dly (s/v)		8.8	0	-	36.5	25.4	9.4		-			
HCM Lane LOS		A	Ā	_	E	D	A	Ā	_			
HCM 95th %tile Q(veh)			-	-	1.3	0.7		-	-			
/ 00110 13(1011)					1.0	u.,						

Intersection						
Int Delay, s/veh	6.3					
·		WDD	UDT	MDD	ODI	пот
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	^			^
Traffic Vol, veh/h	0	455	745	0	0	875
Future Vol, veh/h	0	455	745	0	0	875
Conflicting Peds, #/hr			0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	3	3	3	3	3	3
Mymt Flow	0	474	776	0	0	911
PIVIIIL I IUVV	U	7/7	110	Ш	U	uli
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	388	0	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.96	-	-	-	-
Critical Hdwy Stg 1	-	-	_	_	-	_
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.33	-	_	_	_
Pot Cap-1 Maneuver	0	608	_	0	0	_
Stage 1	0	-	_	0	0	_
Stage 2	0	_	_	0	0	_
Platoon blocked, %	Ü	-	_	Ш	U	_
		CUO				
Mov Cap-1 Maneuver	-	608	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	WB		NB		SB	
					0	
HCM Ctrl Dly, s/v	28.72		0		U	
HCM LOS	D					
	nt .	NRT	WRI n1	SRT		
Minor Lane/Major Mvn	ıt		WBLn1	SBT		
Minor Lane/Major Mvn Capacity (veh/h)	1 <u>t</u>	-	608	-		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio	1t	-	608 0.78	-		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	nt	-	608 0.78 28.7	- - -		
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio		-	608 0.78	-		

Intersection												
Int Delay, s/veh	0.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	Ö	5	5	Ö	25	5	760	15	10	525	5
Future Vol, veh/h	5		5	5	0	25	5	760	15	10	525	5
Conflicting Peds, #/hr												
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	78	78	78	94	94	94	95	95	95
Heavy Vehicles, %	10	10	10	0	0		4	4	4	6	6	6
Mvmt Flow	6	0	6	6	0	32	5	809	16	11	553	5
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1395	1411	555	1401	1406	816	558	0	0	824	0	0
Stage 1	576	576	-	827	827	-	-	-	-	-	-	-
Stage 2	819	835	-	574	579	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.14	-	-	4.16	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Fallow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.236	-	-	2.254	-	-
Pot Cap-1 Maneuver	114	133	516	119	140	380	1003	-	-	789	-	-
Stage 1	489	489	-	369	389	-	-	-	-	-	-	-
Stage 2	358	372	-	508	504	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	101	129	516	114	136	380	1003	-	-	789	-	-
Mov Cap-2 Maneuver	101	129	-	114	136	-	-	-	-	-	-	-
Stage 1	479	480	-	365	385	-	-	-	-	-	-	-
Stage 2	325	368	-	492	494	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	27.87			20.3			0.06			0.18		
HCM LOS	D			C								
	_			_								
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		11	-	-	169	274	33	-	-			
HCM Lane V/C Ratio		0.005	-	-	0.071	0.141	0.013	-	-			
HCM Ctrl Dly (s/v)		8.6	0	-	27.9	20.3	9.6	0	-			
HCM Lane LOS		A	A	-	D	C	A	A	-			
HCM 95th %tile Q(veh)			-	-	0.2	0.5		-	-			

Part 6: 2040 Build Conditions: Weekday PM Peak-Hour LOS and Delays

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4						4		
Traffic Volume (vph)	30	610	35	10	800	10	0	0	0	15	30	150	
Future Volume (vph)	30	610	35	10	800	10	0	0	0	15	30	150	
Satd. Flow (prot)	0	1559	0	0	1570	0	0	0	0	0	1356	0	
Flt Permitted		0.934			0.989						0.996		
Satd. Flow (perm)	0	1459	0	0	1554	0	0	0	0	0	1353	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	775	0	0	882	0	0	0	0	0	235	0	
Turn Type	Perm	NA		Perm	NA					Perm	NA		
Protected Phases		4			8						6		9
Permitted Phases	4			8						6			
Total Split (s)	94.0	94.0		94.0	94.0					31.0	31.0		25.0
Total Lost Time (s)		5.0			5.0						5.0		
Act Effct Green (s)		99.3			99.3						30.7		
Actuated g/C Ratio		0.66			0.66						0.20		
v/c Ratio		0.80			0.86						0.85		
Control Delay (s/veh)		28.4			11.8						83.6		
Queue Delay		6.9			0.8						0.0		
Total Delay (s/veh)		35.2			12.6						83.6		
LOS		D			В						F		
Approach Delay (s/veh)		35.2			12.6						83.6		
Approach LOS		D			В						F		
Queue Length 50th (ft)		455			314						214		
Queue Length 95th (ft)		#830			m108						#367		
Internal Link Dist (ft)		2078			541			138			342		
Turn Bay Length (ft)													
Base Capacity (vph)		966			1029						276		
Starvation Cap Reductn		0			30						0		
Spillback Cap Reductn		151			0						0		
Storage Cap Reductn		0			0						0		
Reduced v/c Ratio		0.95			0.88						0.85		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 144 (96%), Referenced to phase 4:EBTL and 8:WBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.86

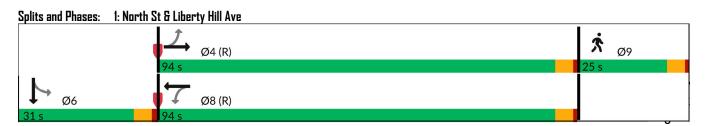
Intersection Signal Delay (s/veh): 30.7 Intersection LOS: C
Intersection Capacity Utilization 79.9% ICU Level of Service D

Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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



	۶	→	•	•	←	•	•	†	/	\	ļ	✓	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	ň	ĵ.		*	1}			4			4		
Traffic Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Future Volume (vph)	10	610	25	15	705	35	70	60	30	135	130	20	
Satd. Flow (prot)	1711	1564	0	1711	1562	0	0	1493	0	0	1753	0	
Flt Permitted	0.061			0.119				0.979			0.977		
Satd. Flow (perm)	110	1564	0	214	1562	0	0	1493	0	0	1753	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	11	690	0	16	779	0	0	188	0	0	324	0	
Turn Type	Perm	NA		Perm	NA		Split	NA		Split	NA		
Protected Phases		4			8		2	2		6	6		9
Permitted Phases	4			8									
Total Split (s)	73.0	73.0		73.0	73.0		22.0	22.0		30.0	30.0		25.0
Total Lost Time (s)	6.0	6.0		6.0	6.0			6.0			6.0		
Act Effct Green (s)	67.0	67.0		67.0	67.0			22.9			27.1		
Actuated g/C Ratio	0.45	0.45		0.45	0.45			0.15			0.18		
v/c Ratio	0.22	0.99		0.17	1.12			0.82			1.03		
Control Delay (s/veh)	29.7	53.8		33.7	107.7			88.6			115.4		
Queue Delay	0.0	15.1		0.0	0.0			0.0			0.0		
Total Delay (s/veh)	29.7	68.9		33.7	107.7			88.6			115.4		
LOS	C	E		C	F			F			F		
Approach Delay (s/veh)		68.3			106.2			88.6			115.4		
Approach LOS		E			F			F			F		
Queue Length 50th (ft)	3	664		9	~857			~220			~373		
Queue Length 95th (ft)	m5	#928		m24	#1111			#352			#553		
Internal Link Dist (ft)		541			1292			401			319		
Turn Bay Length (ft)	100			100									
Base Capacity (vph)	49	698		95	697			228			316		
Starvation Cap Reductn	0	36			0			0			0		
Spillback Cap Reductn	0	0		0	0			0			0		
Storage Cap Reductn	0	0			0			0			0		
Reduced v/c Ratio	0.22	1.04		0.17	1.12			0.82			1.03		

Cycle Length: 150

Actuated Cycle Length: 150

Offset: O (0%), Referenced to phase 4:EBTL and 8:WBTL, Start of Green, Master Intersection

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.12

Intersection Signal Delay (s/veh): 92.8 Intersection Capacity Utilization 69.8% Intersection LOS: F ICU Level of Service C

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

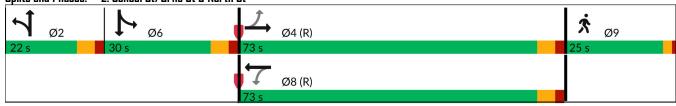
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 2: School St/Orne St & North St



	\mathbf{x}	Ĵ	፟	×	7	~			
Lane Group	SET	SER	NWL	NWT	NEL	NER	Ø 4	Ø9	
Lane Configurations	1∌		ř	†		7			
Traffic Volume (vph)	750	30	445	715	0	170			
Future Volume (vph)	750	30	445	715		170			
Satd. Flow (prot)	1789	0	1711	1801	0	1558			
Flt Permitted			0.950						
Satd. Flow (perm)	1789	0	1711	1801		1501			
Satd. Flow (RTDR)									
Lane Group Flow (vph)	848	0	468	753		200			
Turn Type	NA		Prot	NA		pm+ov			
Protected Phases	6		5	2		5	4	9	
Permitted Phases						4			
Total Split (s)	51.0		50.0	101.0		50.0	23.0	26.0	
Total Lost Time (s)	4.0		5.0	4.0		5.0			
Act Effct Green (s)	80.4		45.0	132.0		45.0			
Actuated g/C Ratio	0.54		0.30	0.88		0.30			
v/c Ratio	0.89		0.91	0.48		0.43			
Control Delay (s/veh)	22.7		73.8	4.8		45.7			
Queue Delay	0.0		0.0	0.0		0.0			
Total Delay (s/veh)	22.7		73.8	4.8		45.7			
LOS	С		E	A		D			
Approach Delay (s/veh)	22.7			31.2	45.7				
Approach LOS	С			С	D				
Queue Length 50th (ft)	~669		443	216		158			
Queue Length 95th (ft)	m#881		#652	285		222			
Internal Link Dist (ft)	1292			252	419				
Turn Bay Length (ft)									
Base Capacity (vph)	958		513	1584		467			
Starvation Cap Reductn	0		0	0		0			
Spillback Cap Reductn	0		0	0		0			
Storage Cap Reductn	0		0	0		0			
Reduced v/c Ratio	0.89		0.91	0.48		0.43			

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 36 (24%), Referenced to phase 2:NWT and 6:SET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.91

Intersection Signal Delay (s/veh): 29.3 Intersection Capacity Utilization 83.0% Intersection LOS: C

ICU Level of Service E

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

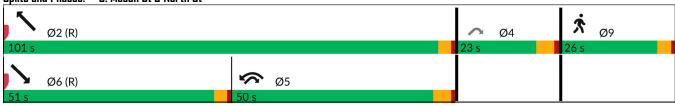
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 3: Mason St & North St



	۶	→	\rightarrow	•	←	•	1	†	/	/	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		र्स	7					1∌		ħ	1}•		
Traffic Volume (vph)	105	100	40	0	0	0	0	485	45	135	580	70	
Future Volume (vph)	105	100	40					485	45	135	580	70	
Satd. Flow (prot)	0	1536	1531	0	0	0	0	1569	0	1711	1545	0	
Flt Permitted		0.975								0.193			
Satd. Flow (perm)	0	1536	1444	0	0	0	0	1569	0	348	1545	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	230	45	0	0	0	0	570	0	145	699	0	
Turn Type	Split	NA	Perm					NA		pm+pt	NA		
Protected Phases	4	4						2		1	6		9
Permitted Phases			4							6			
Total Split (s)	25.0	25.0	25.0					45.0		11.0	56.0		29.0
Total Lost Time (s)		5.0	5.0					5.0		4.0	5.0		
Act Effct Green (s)		19.0	19.0					46.8		59.6	58.6		
Actuated g/C Ratio		0.17	0.17					0.43		0.54	0.53		
v/c Ratio		0.87	0.18					0.86		0.51	0.85		
Control Delay (s/veh)		74.7	40.3					42.3		31.1	37.0		
Queue Delay		0.0	0.3					0.3		0.0	5.2		
Total Delay (s/veh)		74.7	40.5					42.6		31.1	42.2		
LOS		E	D					D		C	D		
Approach Delay (s/veh)		69.1						42.6			40.3		
Approach LOS		E						D			D		
Queue Length 50th (ft)		158	27					~405		27	478		
Queue Length 95th (ft)		#283	60				1	m#608		m113	m#671		
Internal Link Dist (ft)		473			358			431			307		
Turn Bay Length (ft)			75										
Base Capacity (vph)		279	262					666		285	823		
Starvation Cap Reductn		0	0					6			0		
Spillback Cap Reductn		0	49					0			80		
Storage Cap Reductn		0	0					0			0		
Reduced v/c Ratio		0.82	0.21					0.86		0.51	0.94		

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 99 (90%), Referenced to phase 2:NBT and 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.87

Intersection Signal Delay (s/veh): 45.8 Intersection Capacity Utilization 65.2% Intersection LOS: D ICU Level of Service C

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

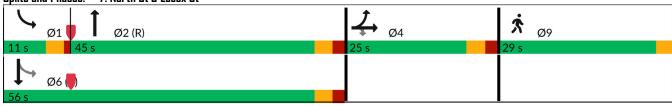
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 7: North St & Essex St



	۶	→	•	•	←	•	1	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4			1}			ની		
Traffic Volume (vph)	5	95	15	35	0	355	0	170	40	400	225	0	
Future Volume (vph)	5	95	15	35	0	355	0	170	40	400	225		
Satd. Flow (prot)	0	1556	0	0	1275	0	0	1537	0		1527	0	
Flt Permitted		0.931			0.881						0.680		
Satd. Flow (perm)	0	1450	0	0	1124	0	0	1537	0		1062	0	
Satd. Flow (RTDR)					386								
Lane Group Flow (vph)	0	158	0	0	424	0	0	221	0	0	687	0	
Turn Type	Perm	NA		Perm	NA			NA		Perm	NA		
Protected Phases		4			8			2			6		9
Permitted Phases	4			8						6			
Total Split (s)	23.0	23.0		23.0	23.0			62.0		62.0	62.0		25.0
Total Lost Time (s)		5.0			5.0			5.0			5.0		
Act Effct Green (s)		15.7			15.7			79.3			79.3		
Actuated g/C Ratio		0.14			0.14			0.72			0.72		
v/c Ratio		0.76			0.86			0.20			0.90		
Control Delay (s/veh)		68.5			25.4			7.8			24.6		
Queue Delay		0.0			2.0			0.0			8.4		
Total Delay (s/veh)		68.5			27.3			7.8			33.1		
LOS		E			C			Α			C		
Approach Delay (s/veh)		68.5			27.3			7.8			33.1		
Approach LOS		E			C			Α			C		
Queue Length 50th (ft)		107			24			38			160		
Queue Length 95th (ft)		139			#201			135			m#812		
Internal Link Dist (ft)		246			238			211			431		
Turn Bay Length (ft)													
Base Capacity (vph)		237			506			1107			765		
Starvation Cap Reductn		0			0			0			62		
Spillback Cap Reductn		0			23			94			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.67			0.88			0.22			0.98		

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 108 (98%), Referenced to phase 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay (s/veh): 31.4 Intersection Capacity Utilization 90.5% Intersection LOS: C ICU Level of Service E

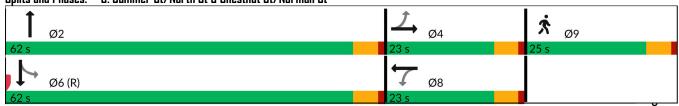
Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 8: Summer St/North St & Chestnut St/Norman St



	۶	→	\rightarrow	•	←	*	1	†	/	/	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	7	†	7	7	1≽		7	^	7	ሻ	†	7	
Traffic Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Future Volume (vph)	40	215	210	90	310	55	190	440	160	80	255	70	
Satd. Flow (prot)	1711	1801	1531	1711	1751	0	1711	3421	1531	1711	1801	1531	
Flt Permitted	0.950			0.950			0.950			0.950			
Satd. Flow (perm)	1711	1801	1465	1711	1751	0	1711	3421	1424	1711	1801	1405	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	45	242	236	99	401	0	200	463	168	88	280	77	
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	
Protected Phases	7	4		3	8		5	2		1	6		9
Permitted Phases			4						2			6	
Total Split (s)	12.0	40.0	40.0	18.0	46.0		28.0	41.0	41.0	21.0	34.0	34.0	30.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
Act Effct Green (s)	6.0	30.4	30.4	11.4	38.3		20.5	45.1	45.1	15.0	39.7	39.7	
Actuated g/C Ratio	0.04	0.20	0.20	0.08	0.26		0.14	0.30	0.30	0.10	0.26	0.26	
v/c Ratio	0.66	0.66	0.79	0.76	0.90		0.86	0.45	0.39	0.51	0.59	0.21	
Control Delay (s/veh)	111.3	63.7	75.9	101.6	77.6		75.0	31.7	33.0	75.4	58.7	51.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	111.3	63.7	75.9	101.6	77.6		75.0	31.7	33.0	75.4	58.7	51.9	
LOS	F	E	E	F	E		E	C	C	E	E	D	
Approach Delay (s/veh)		73.3			82.3			42.4			60.8		
Approach LOS		E			F			D			E		
Queue Length 50th (ft)	44	214	215	96	376		198	209	141	83	267	66	
Queue Length 95th (ft)	#109	305	313	#188	#553		m#277	m261	m201	145	#418	118	
Internal Link Dist (ft)		193			332			528			749		
Turn Bay Length (ft)	100		150				200		200	200		200	
Base Capacity (vph)	68	408	332	136	466		250	1029	428	171	476	371	
Starvation Cap Reductn	0		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	0	
Storage Cap Reductn	0		0	0	0		0	0	0	0		0	
Reduced v/c Ratio	0.66	0.59	0.71	0.73	0.86		0.80	0.45	0.39	0.51	0.59	0.21	

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 96 (64%), Referenced to phase 2:NBT and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay (s/veh): 61.7

Intersection LOS: E ICU Level of Service C

Intersection Capacity Utilization 68.9%

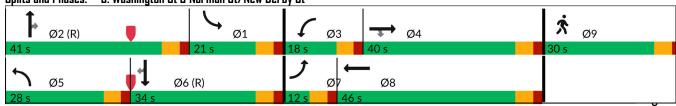
Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 9: Washington St & Norman St/New Derby St



	۶	→	•	•	←	*	1	†	/	-	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	7	↑	7		4	7	7	ħβ		7	†	7	
Traffic Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Future Volume (vph)	155	260	370	15	200	250	130	445	45	140	370	30	
Satd. Flow (prot)	1711	1801	1531	0	1761	1501	1694	3319	0	1728	1818	1546	
Flt Permitted	0.950				0.957		0.950			0.950			
Satd. Flow (perm)	1711	1801	1454	0	1690	1443	1694	3319	0	1728	1818	1461	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	161	271	385	0	250	291	148	557	0	152	402	33	
Turn Type	Prot	NA	pm+ov	Perm	NA	pm+ov	Prot	NA		Prot	NA	pm+ov	
Protected Phases	7	4	5		8	1	5	2		1	6	7	9
Permitted Phases			4	8		8						6	
Total Split (s)	21.0	51.0	21.0	30.0	30.0	23.0	21.0	41.0		23.0	43.0	21.0	35.0
Total Lost Time (s)	7.0	7.0	7.0		7.0	7.0	7.0	7.0		7.0	7.0	7.0	
Act Effct Green (s)	14.0	44.0	58.2		23.0	38.4	14.2	41.6		15.4	42.8	56.8	
Actuated g/C Ratio	0.09	0.29	0.39		0.15	0.26	0.09	0.28		0.10	0.29	0.38	
v/c Ratio	1.01	0.51	0.67		0.97	0.78	0.93	0.61		0.86	0.78	0.06	
Control Delay (s/veh)	140.1	48.2	30.1		109.8	45.3	119.3	53.2		91.1	38.3	18.3	
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Total Delay (s/veh)	140.1	48.2	30.1		109.8	45.3	119.3	53.2		91.1	38.3	18.3	
LOS	F	D	C		F	D	F	D		F	D	В	
Approach Delay (s/veh)		57.8			75.1			67.0			50.8		
Approach LOS		E			E			E			D		
Queue Length 50th (ft)	~162	221	158		247	158	146	268		134	402	21	
Queue Length 95th (ft)	#319	317	273		#394	214	#278	329		m#253	#582	m31	
Internal Link Dist (ft)		253			828			250			528		
Turn Bay Length (ft)						300	300						
Base Capacity (vph)	159	528	571		259	381	160	920		184	518	560	
Starvation Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Spillback Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Storage Cap Reductn	0	0	0		0	0	0	0		0	0	0	
Reduced v/c Ratio	1.01	0.51	0.67		0.97	0.76	0.93	0.61		0.83	0.78	0.06	

Cycle Length: 150

Actuated Cycle Length: 150

Offset: 9 (6%), Referenced to phase 2:NBT and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.01

Intersection Signal Delay (s/veh): 62.2 Intersection Capacity Utilization 75.0% Intersection LOS: E

ICU Level of Service D

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

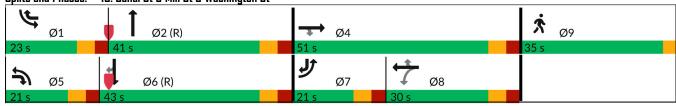
Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 10: Canal St & Mill St & Washington St



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Lane Group	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SER	SWL2	SMF	SWR	SWR2	Ø9
Lane Configurations	ř	†				¥	1≽		7		M			
Traffic Volume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Future Volume (vph)	330	280	10	30	25	40	420	10	345	5	10	5	5	
Satd. Flow (prot)	1678	1511	0	0		1728	1584	0	1558	0	1565	0	0	
Flt Permitted	0.443					0.950					0.971			
Satd. Flow (perm)	782	1511	0	0	0	1728	1584	0	1460	0	1565	0	0	
Satd. Flow (RTOR)									*100					
Lane Group Flow (vph)	351	341	0	0	0	68	453	0	401	0	25	0	0	
Turn Type	pm+pt	NA			Prot	Prot	NA		Perm	Prot	Prot			
Protected Phases	5	2			1	1	6			7	7			9
Permitted Phases	2								4					
Total Split (s)	16.0	41.5			16.0	16.0	41.5		26.0	12.5	12.5			24.0
Total Lost Time (s)	6.0	8.0				8.0	8.0		5.0		7.5			
Act Effct Green (s)	53.2	51.2				8.1	48.1		21.0		5.0			
Actuated g/C Ratio	0.44	0.43				0.07	0.40		0.18		0.04			
v/c Ratio	0.83	0.53				0.58	0.71		1.19		0.38			
Control Delay (s/veh)	42.3	22.7				74.6	42.6		142.6		73.0			
Queue Delay	0.0	0.3				0.0	1.4		1.0		9.9			
Total Delay (s/veh)	42.3	22.9				74.6	44.0		143.6		82.9			
LOS	D	C				E	D		F		F			
Approach Delay (s/veh)		32.8					48.0				82.9			
Approach LOS		C					D				F			
Queue Length 50th (ft)	~299	249				52	~374		~307		19			
Queue Length 95th (ft)	m#365	m#380				#114	#580		#469		50			
Internal Link Dist (ft)		285					738				98			
Turn Bay Length (ft)	200					200								
Base Capacity (vph)	421	644				117	635		338		65			
Starvation Cap Reductn	0	48				0	0		0		0			
Spillback Cap Reductn	0	0				0	65		28		21			
Storage Cap Reductn	0	0				0	0		0		0			
Reduced v/c Ratio	0.83	0.57				0.58	0.79		1.29		0.57			

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 18 (15%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.19

Intersection Signal Delay (s/veh): 65.5 Intersection Capacity Utilization 72.6% Intersection LOS: E

ICU Level of Service C

Analysis Period (min) 15

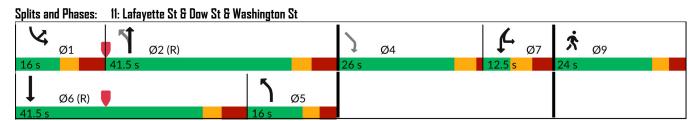
- * User Entered Value
- ~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

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



	۶	→	•	•	←	•	•	†	<i>></i>	\	ţ	✓	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4			4			4			₽.		
Traffic Volume (vph)	5	Ö	10	160	Ö	90	5	585	0	0	730	10	
Future Volume (vph)	5	0	10	160	0	90	5	585	0	0	730	10	
Satd. Flow (prot)	0	1346	0	0	1374	0	0	1576	0	0	1571	0	
Flt Permitted		0.916			0.969			0.994					
Satd. Flow (perm)	0	1243	0	0	1318	0	0	1566	0	0	1571	0	
Satd. Flow (RTDR)		109			109						1		
Lane Group Flow (vph)	0	24	0	0	266	0	0	686	0	0	788	0	
Turn Type	Perm	NA		Split	NA		Perm	NA			NA		
Protected Phases		4		8	8			2			6		9
Permitted Phases	4						2						
Total Split (s)	23.0	23.0		23.0	23.0		49.0	49.0			49.0		25.0
Total Lost Time (s)		5.0			5.0			5.0			5.0		
Act Effct Green (s)		5.5			22.2			76.5			76.5		
Actuated g/C Ratio		0.05			0.19			0.64			0.64		
v/c Ratio		0.15			0.78			0.69			0.79		
Control Delay (s/veh)		2.0			42.0			23.5			17.9		
Queue Delay		0.0			0.1			0.2			5.8		
Total Delay (s/veh)		2.0			42.1			23.7			23.7		
LOS		Α			D			C			C		
Approach Delay (s/veh)		2.0			42.1			23.7			23.7		
Approach LOS		Α			D			C			C		
Queue Length 50th (ft)		0			118			319			273		
Queue Length 95th (ft)		0			203			#815			m#827		
Internal Link Dist (ft)		64			604			261			285		
Turn Bay Length (ft)													
Base Capacity (vph)		279			354			999			1002		
Starvation Cap Reductn		0			0			0			163		
Spillback Cap Reductn		2			2			33			0		
Storage Cap Reductn		0			0			0			0		
Reduced v/c Ratio		0.09			0.76			0.71			0.94		

Cycle Length: 120

Actuated Cycle Length: 120

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.79

Intersection Signal Delay (s/veh): 26.2
Intersection Capacity Utilization 69.1%

Intersection LOS: C

ICU Level of Service C

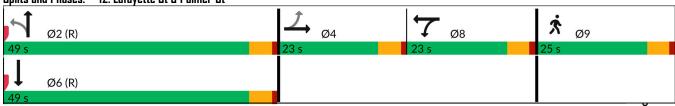
Analysis Period (min) 15

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

Queue shown is maximum after two cycles.

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

Splits and Phases: 12: Lafayette St & Palmer St



	۶	→	•	•	←	•	•	†	/	\	ţ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations		4	7		4	7	ħ	î,			सी	7	
Traffic Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Future Volume (vph)	210	25	80	25	25	10	165	560	20	5	375	180	
Satd. Flow (prot)	0	1479	1501	0	1569	1561	1694	1552	0	0	1559	1516	
Flt Permitted		*0.900			0.976		0.950				*0.900		
Satd. Flow (perm)	0	1391	1501	0	1569	1561	1694	1552	0	0	1404	1516	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	0	294	100	0	68	14	179	631	0		437	207	
Turn Type	Perm	NA	pt+ov	Split	NA	Prot	Prot	NA		Perm	NA	custom	
Protected Phases		4	45	3	3	3	5	2			6	4	9
Permitted Phases	4									6		6	
Total Split (s)	31.0	31.0		14.0	14.0	14.0	20.0	67.0		47.0	47.0	31.0	28.0
Total Lost Time (s)		5.0			5.0	5.0	5.0	5.0			5.0	5.0	
Act Effct Green (s)		26.0	46.0		8.6	8.6	15.0	73.6			53.6	79.6	
Actuated g/C Ratio		0.19	0.33		0.06	0.06	0.11	0.53			0.38	0.57	
v/c Ratio		1.14	0.20		0.71	0.15	0.99	0.77			0.81	0.24	
Control Delay (s/veh)		149.0	35.2		100.1	65.5	125.6	37.9			54.7	10.6	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0	
Total Delay (s/veh)		149.0	35.2		100.1	65.5	125.6	37.9			54.7	10.6	
LOS		F	D		F	E	F	D			D	В	
Approach Delay (s/veh)		120.1			94.2			57.3			40.5		
Approach LOS		F			F			E			D		
Queue Length 50th (ft)		~311	66		62	12	165	532			~428	68	
Queue Length 95th (ft)		#417	99		#94	29	#324	#781			#607	100	
Internal Link Dist (ft)		770			537			1056			584		
Turn Bay Length (ft)			300			300	300					300	
Base Capacity (vph)		258	493		100	100	181	815			537	861	
Starvation Cap Reductn		0	0		0		0	0			0	0	
Spillback Cap Reductn		0	0		0		0	0				0	
Storage Cap Reductn		0	0		0		0	0			0	0	
Reduced v/c Ratio		1.14	0.20		0.68	0.14	0.99	0.77			0.81	0.24	

Cycle Length: 140

Actuated Cycle Length: 140

Offset: O (O%), Referenced to phase 2:NBT and 6:SBTL, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.14

Intersection Signal Delay (s/veh): 66.1 Intersection Capacity Utilization 82.8% Intersection LOS: E

ICU Level of Service E

Analysis Period (min) 15

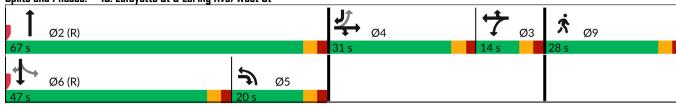
- * User Entered Value
- ~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

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

Queue shown is maximum after two cycles.

Splits and Phases: 16: Lafayette St & Loring Ave/West St



	٠	→	•	•	←	*	4	†	/	\	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations	¥		7		4		ķ	^			† }		
Traffic Volume (vph)	45	0	105	10	20	90	100	555	0	0	690	220	
Future Volume (vph)	45		105	10	20	90	100	555	0	0	690	220	
Satd. Flow (prot)	1678	0	1501	0	1653	0	1728	1818	0	0	3267	0	
Flt Permitted	0.950				0.996		*0.750						
Satd. Flow (perm)	1678	0	1402	0	1653	0	1364	1818	0	0	3267	0	
Satd. Flow (RTDR)													
Lane Group Flow (vph)	51	0	118	0	223	0	106	590	0	0	1034	0	
Turn Type	Prot		pm+ov	Split	NA		pm+pt	NA			NA		
Protected Phases	7		5	8	8		5	2			6		9
Permitted Phases			7				2						
Total Split (s)	13.0		13.0	22.0	22.0		13.0	48.0			35.0		27.0
Total Lost Time (s)	6.0		6.0		6.0		6.0	6.0			6.0		
Act Effct Green (s)	7.0		12.6		16.0		60.8	60.8			47.8		
Actuated g/C Ratio	0.06		0.11		0.15		0.55	0.55			0.43		
v/c Ratio	0.48		0.71		0.93		0.14	0.59			0.73		
Control Delay (s/veh)	65.3		54.1		89.8		12.1	15.7			33.5		
Queue Delay	0.0		0.0		0.0		0.0	0.0			0.0		
Total Delay (s/veh)	65.3		54.1		89.8		12.1	15.7			33.5		
LOS	E		D		F		В	В			C		
Approach Delay (s/veh)		57.5			89.8			15.2			33.5		
Approach LOS		E			F			В			C		
Queue Length 50th (ft)	35		55		158		21	124			265		
Queue Length 95th (ft)	75		#106		137		m32	m#332			#578		
Internal Link Dist (ft)		297			159			120			231		
Turn Bay Length (ft)			100										
Base Capacity (vph)	106		166		240		776	1005			1419		
Starvation Cap Reductn	0		0		0		0	0			0		
Spillback Cap Reductn			0		0		0	0			0		
Storage Cap Reductn	0		0		0		0	0			0		
Reduced v/c Ratio	0.48		0.71		0.93		0.14	0.59			0.73		

Cycle Length: 110

Actuated Cycle Length: 110

Offset: O (O%), Referenced to phase 2:NBTL and 6:SBT, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.93

Intersection Signal Delay (s/veh): 35.3 Intersection Capacity Utilization 62.4%

Intersection LOS: D

ICU Level of Service B

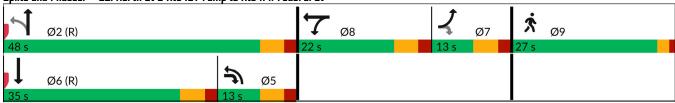
Analysis Period (min) 15

- User Entered Value
- # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

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

Splits and Phases: 22: North St & Rte 107 ramp to Rte 114/Federal St



Movement	Interpostica										
Movement EBL EBR SEL SET SER NWL NWT NWR SWL SWR	Intersection	/ E									
Lane Configurations	IIIL DEIBY, S/ VEN										
Traffic Vol. veh/h	Movement		EBR	SEL		SER	NWL		NWR	SMF	SWR
Traffic Vol. veh/h	Lane Configurations										
Conflicting Peds. #/hr	Traffic Vol, veh/h				910		20	1100		0	0
Sign Control Stop Stop Free Free Free Free Free Free Free Stop Stop Stop Stop Channelized - None - None None None - N	Future Vol, veh/h				910		20	1100		0	
RT Channelized	Conflicting Peds, #/hr			20	0	10		0	20		
RT Channelized	Sign Control		Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
Veh in Median Storage. # 0 - - 0 - - 0 - 7 7 7 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 1 1 0 <td>RT Channelized</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td>	RT Channelized	-	None	-	-	None	-	-	None	-	-
Grade, % 0 - - 0 - - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 1 7 1 8 2 2 2 2 2 6 0 0 0 0 0 7 13 8 2 2 2 2 2 2 2 2 2 2 2 2 2	Storage Length		-	-	-	-	-	-	-		0
Peak Hour Factor		,# 0	-	-		-	-	0	-		-
Heavy Vehicles, %	Grade, %	0		-				0	-		
Mymt Flow 7 37 16 1000 16 22 1209 137 0 0 Major/Minor Minor I Major I Major Z Minor Z Minor Z Conflicting Flow All 1720 1023 1366 0 0 1026 0 0 - 713 Stage 1 1051 -	Peak Hour Factor	67	67	91	91	91	91	91	91	71	71
Major/Minor Minor Major Major Major Minor	Heavy Vehicles, %	8	8	2	2	2	2	2	2	5	5
Major/Minor Minor Major Major Major Minor	Mvmt Flow	7	37	16	1000	16	22	1209	137		
Conflicting Flow All											
Conflicting Flow All	Major/Minor	Minor		Majort			Maine7			Minor7	
Stage 105	_				П			П			717
Stage 2 668											
Critical Hdwy 7.42 6.32 4.13 - 4.13 - - 6.975 Critical Hdwy Stg 1 6.22 - <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>					-	-					
Critical Hdwy Stg 1 6.22 -					-	-					- C D7C
Critical Hdwy Stg 2 6.62 -											
Follow-up Hdwy 2 2 2.219 - 2.219 - 3.3475 Pot Cap-I Maneuver 8I 392 50I - 674 - 0 370 Stage I 386 0 - Stage 2 630 0 - Platoon blocked, % Mov Cap-I Maneuver 63 386 492 - 668 357 Mov Cap-2 Maneuver 63 Stage I 354 Stage I 354 Stage 2 540											
Pot Cap-I Maneuver											
Stage I 386 - - - - - 0 - Stage 2 630 - - - - 0 - Platoon blocked, % - - - - - - - Mov Cap-I Maneuver 63 386 492 - 668 - - 357 Mov Cap-2 Maneuver 63 -											
Stage 2 630 - - - - - 0 - Platoon blocked, % Mov Cap-I Maneuver 63 386 492 - 668 - - 357 Mov Cap-2 Maneuver 63 -	· · · · · · · · · · · · · · · · · · ·			501	-	-	6/4	-			
Platoon blocked, %				-		-	-	-			
Mov Cap-1 Maneuver 63 386 492 - 668 - - 357 Mov Cap-2 Maneuver 63 - </td <td></td> <td>630</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>U</td> <td>-</td>		630	-	-	-		-			U	-
Mov Cap-2 Maneuver 63 -			000	/55			000				0.55
Stage I 354 -					-			-			
Stage 2 540 -				-	-	-	-	-	-		
Approach EB SE NW SW HCM Ctrl Dly, s/v 129.33 0.2 0.65 15.96 HCM LOS F C C Minor Lane/Major Mvmt NWL NWT NWR EBLnl SEL SET SER SWLnl Capacity (veh/h) 51 - - 92 29 - - 357 HCM Lane V/C Ratio 0.033 - - 0.814 0.034 - - 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C				-	-	-	-	-	-	-	
HCM Ctrl Dly, s/v 129.33 0.2 0.65 15.96 HCM LOS F C Minor Lane/Major Mvmt NWL NWT NWR EBLnl SEL SET SER SWLnl Capacity (veh/h) 51 92 29 357 HCM Lane V/C Ratio 0.033 0.814 0.034 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C	Stage 2	540				-	-			-	
HCM Ctrl Dly, s/v 129.33 0.2 0.65 15.96 HCM LOS F C Minor Lane/Major Mvmt NWL NWT NWR EBLnl SEL SET SER SWLnl Capacity (veh/h) 51 92 29 357 HCM Lane V/C Ratio 0.033 0.814 0.034 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C											
HCM Ctrl Dly, s/v 129.33 0.2 0.65 15.96 HCM LOS F C Minor Lane/Major Mvmt NWL NWT NWR EBLnl SEL SET SER SWLnl Capacity (veh/h) 51 92 29 357 HCM Lane V/C Ratio 0.033 0.814 0.034 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C	Approach	EB		SE			NW			SW	
Minor Lane/Major Mvmt NWL NWT NWR EBLnI SEL SET SER SWLnI Capacity (veh/h) 51 - - 92 29 - - 357 HCM Lane V/C Ratio 0.033 - - 0.814 0.034 - - 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C		129 33		П 7			N 65			15.96	
Minor Lane/Major Mvmt NWL NWT NWR EBLnI SEL SET SER SWLnI Capacity (veh/h) 51 - - 92 29 - - 357 HCM Lane V/C Ratio 0.033 - - 0.814 0.034 - - 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C				U.Z			0.00				
Capacity (veh/h) 51 - - 92 29 - - 357 HCM Lane V/C Ratio 0.033 - - 0.814 0.034 - - 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C		1									
Capacity (veh/h) 51 - - 92 29 - - 357 HCM Lane V/C Ratio 0.033 - - 0.814 0.034 - - 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C	M:=== === /M=:== M	-4	NIMI	NIMT	NIME	CD11	פרו	CLI	CLD	CW11	
HCM Lane V/C Ratio 0.033 0.814 0.034 0.079 HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C		πτ			NWK			9F1			
HCM Ctrl Dly (s/v) 10.6 0.5 - 129.3 12.6 0 - 16 HCM Lane LOS B A - F B A - C					-			-			
HCM Lane LOS B A - F B A - C											
НСМ 95th %tile Ц(veh)	HLM Lane LUS		К	А	-	ŀ	R	Α	-	Ľ	
	HOMOCAL COAT OF A										

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¥			4			4			† ‡	
Traffic Vol, veh/h		Ö		20	0	115		590	0	0	760	5
Future Vol., veh/h	0	0	0	20	0	115	0	590	0	0	760	5
Conflicting Peds, #/hr	10		10	10		10	10		10	10		10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -		-	-	0	-	-		-	-		-
Grade, %	-	0	-	-		-	-		-	-		-
Peak Hour Factor	84	84	84	77	77	77	93	93	93	90	90	90
Heavy Vehicles, %	0	0	0	1	1	1	1	1	1	2	2	2
Mvmt Flow	0	0	0	26	0	149	0	634	0	0	844	6
Major/Minor	Minor2			Minorl			Majorl		N	1ajor2		
Conflicting Flow All	1502	1492	445	1067	1494	644	860	0	-	-	-	0
Stage 1	857	857	-	634	634	-	-	-	-	-	-	-
Stage 2	644	634	-	432	860	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.315	6.515	6.215	4.115	-	-	-	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.115	5.515	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.515	5.515	-	-	-	-	-	-	-
Fallow-up Hdwy	3.5	4	3.33	3.5095	4.00953	3.3095 2	2.2095	-	-	-	-	-
Pot Cap-1 Maneuver	93	125	566	189	123	474	785	-	0		-	-
Stage 1	322	377	-	468	474	-	-	-	0	0	-	-
Stage 2	465	476	-	575	374	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	62	124	556	187	122	470	778	-	-	-	-	-
Mov Cap-2 Maneuver	62	124	-	187	122	-	-	-	-	-	-	-
Stage 1	320	373	-	468	474	-	-	-	-	-	-	-
Stage 2	314	476	-	570	370	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0			22.02			0			0		
HCM LOS	Ā			0								
	.,											
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1	WRInt	SBT	SBR					
Capacity (veh/h)		778	- 1101	-	384	- 100	יוחני					
HCM Lane V/C Ratio		- 110	-		0.457	-	_					
HCM Ctrl Dly (s/v)			_		22	_	_					
HCM Lane LOS		A	-	A	C	-	_					
HCM 95th %tile Q(veh)			_	- -	2.3	_	_					
ווטאין טטנוו זטנווט נג(17611)		u			L. U							

Intersection												
Int Delay, s/veh	2.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LUL	4	LUIN	HUL	1101	II LIN	ITUL	4	пип	UUL	4	ווטט
Traffic Vol, veh/h	10	15	5	0	0	0	10	575	210	90	770	10
Future Vol, veh/h	10	15	5	0	0	0	10	575	210	90	770	10
Conflicting Peds, #/hr	10	0	10	10	0	10	20	0	50	50	.,,	20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	- -	- Otop	None	- -	- -	None	-	-	None	-	-	None
Storage Length	-	_	-	_	_	-	_	_	-	_	_	-
Veh in Median Storage,	# -	0	-	_	0	-	_	0	_	-	0	_
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	61	61	61	92	92	92	88	88	88	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	2	2	2	3	3	3
Mvmt Flow	16	25	8	0	0	0	11	653	239	97	828	11
Major/Minor	Minor2						Major1			Major2		
Conflicting Flow All	1733	2012	863				859	0	0	942	0	0
Stage 1	1047	1047	- 000				010		-	34Z -	_	-
Stage 2	686	965	-				_	-	_		_	_
Critical Hdwy	6.4	6.5	6.2				4.12	_	-	4.13	_	_
Critical Hdwy Stg 1	5.4	5.5	U.Z -				7.12	_	_	- 1.10	_	-
Critical Hdwy Stg 2	5.4	5.5	_				_	_	_	_	_	_
Follow-up Hdwy	3.5	4	3.3				2.218	_	_	2.227	-	_
Pot Cap-1 Maneuver	98	60	357				782	_	_	724	_	_
Stage 1	341	308	-				-	_	_	- 721	_	_
Stage 2	504	336	_				_	_	-	_	_	_
Platoon blocked, %	301	500						-	_		-	_
Mov Cap-1 Maneuver	68	0	348				769	_	-	724	_	_
Mov Cap-2 Maneuver	68	0	-				-	_	_	- ,	_	_
Stage 1	325	0	-				-	-	-	-	-	-
Stage 2	371	0	_				_	_	_	_	_	_
orago z	0,1											
Approach	EB						NB			SB		
HCM Ctrl Dly, s/v	80						0.12			1.11		
HCM LOS	F						U.IZ			1.11		
Minor Lane/Major Mvm	t	NBL	NBT	NBR	EBLn1	SBL	SBT	SBR				
Capacity (veh/h)		21	-	-	93	186	-	-				
HCM Lane V/C Ratio		0.015	_	-	0.526	0.134	_	_				
HCM Ctrl Dly (s/v)		9.8	0	_	80	10.7	0	-				
HCM Lane LOS		A	Ā	_	F	В	Ā	_				
HCM 95th %tile Q(veh)		Û	-	-	2.3	0.5	-	-				
30111 / 01110 13(1011)					2.3	0.0						

Intersection												
Int Delay, s/veh	2.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	5	5	10	0	25	5	715	10	45	680	15
Future Vol, veh/h	5	5	5	10	0	25	5	715	10	45	680	15
Conflicting Peds, #/hr	· 20		20	20		20	20		20	20		20
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-		-	-		-
Grade, %	-	0	-	-		-	-		-	-		-
Peak Hour Factor	83	83	83	69	69	69	93	93	93	96	96	96
Heavy Vehicles, %	10	10	10				3	3	3	2	2	2
Mvmt Flow	6	6	6	14	0	36	5	769	11	47	708	16
Major/Minor	Minor2			Minor1			Major1		N	lajor2		
Conflicting Flow All	1629	1640	756	1630	1643	814	744	0	0	800	0	0
Stage 1	830	830	-	805	805	-	-	-	-	-	-	-
Stage 2	800	810	-	825	838	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.1	6.5	6.2	4.13	-	-	4.12	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.5	4	3.3	2.227	-	-	2.218	-	-
Pot Cap-1 Maneuver	78	96	395	82	101	381	859	-	-	823	-	-
Stage 1	353	374	-	379	398	-	-	-	-	-	-	-
Stage 2	367	382	-	370	385	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	61	83	382	65	87	368	844	-	-	809	-	-
Mov Cap-2 Maneuver	61	83	-	65	87	-	-	-	-	-	-	-
Stage 1	313	332	-	368	387	-	-	-	-	-	-	-
Stage 2	322	371	-	317	341	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	50.95			38.14			0.06			0.59		
HCM LOS	F			E								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		12	-	-	96	158	109	-	-			
HCM Lane V/C Ratio		0.006	-	-	0.188	0.321		-	-			
HCM Ctrl Dly (s/v)		9.3	0	-	50.9	38.1	9.7	0	-			
HCM Lane LOS		А	A	-	F	Е	А	А	-			
HCM 95th %tile Q(veh))	0	-	-	0.7	1.3	0.2	-	-			

Intersection													ľ
Int Delay, s/veh	3.2												
,		FDT	500	WDI	WDT	WDD	MBI	UDT	MDD	CDI	ODT	000	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		_	4			4			4		
Traffic Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30	
Future Vol, veh/h	15	15	25	5	5	10	15	695	10	20	595	30	
Conflicting Peds, #/hr	10	0	10	10	0	10	12	0	12	12	0	12	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	75	75	75	64	64	64	96	96	96	98	98	98	
Heavy Vehicles, %	4	4	4	6	6	6	3	3	3	2	2	2	
Mvmt Flow	20	20	33	8	8	16	16	724	10	20	607	31	
Major/Minor	Minor2			Minor1			Major1		N	Major2			
Conflicting Flow All	1444	1453	644	1440	1463	751	650	0	0	746	0	0	
Stage 1	675	675	-	772	772	-	-	_	-	740	-	-	
Stage 2	769	778		668	691	_	_	-	_	_	_	_	
Critical Hdwy	7.14	6.54	6.24	7.16	6.56	6.26	4.13	_	_	4.12	_	_	
Critical Hdwy Stg 1	6.14	5.54	U.Z 1	6.16	5.56	U.ZU	4.10	-	_	7.12	-	_	
Critical Hdwy Stg 2	6.14	5.54		6.16	5.56	-	-	-	_	-			
			3.336	3.554	4.054	3.354	2.227	-		2.218	-		
Follow-up Hdwy	3.536	4.036 129	3.33b 469	3.554 108	4.054	3.354 404	932	-	-	2.218 862		-	
Pot Cap-1 Maneuver	109 440			386	403		277	-	-	007	-	-	
Stage 1		450	-			-	-	-	-	-	-	-	
Stage 2	391	404	-	441	440	-	-	-	-	-	-	-	
Platoon blocked, %	nn	110	,,,,,	77	ИГ	000	Duu	-	-	пгп	-	-	
Mov Cap-1 Maneuver	90	118	460	77	115	396	922	-	-	853	-	-	
Mov Cap-2 Maneuver	90	118	-	77	115	-	-	-	-	-	-	-	
Stage 1	419	429	-	371	388	-	-	-	-	-	-	-	
Stage 2	354	388	-	372	419	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Ctrl Dly, s/v	46.24			35.18			0.19			0.29			
HCM LOS	E			E									
Minor Lane/Major Mvm	t	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)		37	-	-	158	150	55	-	001				
HCM Lane V/C Ratio		0.017	-		0.465	0.208	0.024	-	-				
HCM Ctrl Dly (s/v)		9	- 0	-	46.2	35.2	9.3	-	-				
HCM Lane LOS				-	46.Z E	30.Z							
		A	A		2.2		A	A	-				
HCM 95th %tile Q(veh)		0.1	-	-	Z.Z	0.8	0.1	-	-				

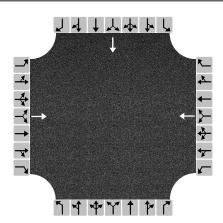
Intersection							
Int Delay, s/veh	12	2.8					
·			WDD	UDT	MDD	חחו	ппт
Movement	W	BL	WBR	NBT	NBR	SBL	SBT
Lane Configurations			7	^			^
Traffic Vol, veh/h		0	585	655	0	0	875
Future Vol, veh/h		0	585	655	0	0	875
Conflicting Peds, #/hr		0	0	0	0	0	0
Sign Control	St	ор	Stop	Free	Free	Free	Free
RT Channelized		-	None	-	None	-	None
Storage Length		-	0	-	-	-	-
Veh in Median Storage	, #		-		-	-	
Grade, %		0	-	0	-	-	0
Peak Hour Factor		96	96	96	96	96	96
Heavy Vehicles, %		3	3	3	3	3	3
Mvmt Flow		0	609	682	0	0	911
		J		JUL			011
Major/Minor	Min	or1		Major1		Major2	
Conflicting Flow All		-	341	0	-	-	-
Stage 1		-	-	-	-	-	-
Stage 2		-	-	-	-	-	-
Critical Hdwy		-	6.96	-	-	-	-
Critical Hdwy Stg 1		-	-	-	-	-	-
Critical Hdwy Stg 2		-	-	-	-	-	-
Follow-up Hdwy		-	3.33	-	-	-	-
Pot Cap-1 Maneuver			652	-	0	0	-
Stage 1		0	-	_	0	0	_
Stage 2		0	_	_	0	0	_
Platoon blocked, %		U		_	U	U	_
Mov Cap-1 Maneuver		-	652	_	_	_	_
		-	DJZ -	-	-	-	-
Mov Cap-2 Maneuver							
Stage 1		-	-	-	-	-	-
Stage 2		-	-	-	-	-	-
Approach		NB		NB		SB	
HCM Ctrl Dly, s/v	46.			0		0	
HCM LOS	10.	E					
HUM LUU		L					
Minor Lane/Major Mvn	nt		NBT	WBLn1	SBT		
Capacity (veh/h)			-	652	-		
HCM Lane V/C Ratio			-	0.935	-		
HCM Ctrl Dly (s/v)			-	46.2	-		
HCM Lane LOS			_	E	-		
HCM 95th %tile Q(veh))		-	12.7	-		
HOW JOHN FULLE BY (ASH)	/			IL.I			

Part 7: Traffic Signal Warrant Analysis

HCS Warrants Report										
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study	-								
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	30	Nearest Signal (ft)	650							
Adequate Trials of Crash Exp. Alt.	No									

Geometry and Traffic

Distance to Stop Line (ft)



Approach		Eastbound	t	\	Westboun (d	N	Iorthboun	d	S	outhboun	ıd
Movement	L	Т	R	L	Т	R	L	Т	R	L	Т	R
Number of Lanes, N	0	1	0	0	1	0	0	0	0	0	1	0
Lane Usage		Т			Т						T	
Vehicle Volumes Averages (veh/h)	0	670	0	0	779	0	0	0	0	0	123	0
Pedestrian median refuge available		No			No			No			No	
Pedestrian Averages (peds/h)		6			6			2			2	
Gap Averages (gaps/h)		0			0			0		0		
Delay Averages (s/veh)		0.0			0.0			0.0				
Delay Averages (veh-hrs)		0.0			0.0			0.0			1.3	
School Crossing and Roadway	Netwo	rk										
Number of Students in Highest Hour	20			Т	wo or Mo	re Major	Routes		Yes			
Number of Adequate Gaps in Period	0			V	Veekend (Counts			No			
Number of Minutes in Period	60			5	-year Gro	wth Facto	r (%)		3			
Railroad Crossing												
Grade Crossing Approach	nde Crossing Approach None			F	Rail Traffic	(trains/da	ay) 0					
Highest Volume Hour with Trains	Unknow	'n		H	High Occupancy Buses (%)				0			

Tractor-Trailer Trucks (%)

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1240	228	1468	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
8:00 - 9:00	1481	100	1581	22	0	No	No	Yes	Yes	Yes	No	No	No	No
9:00 - 10:00	1488	77	1565	22	0	No	No	Yes	Yes	No	No	No	No	No
10:00 - 11:00	1386	74	1460	10	0	No	No	No	Yes	No	No	No	No	No
11:00 - 12:00	1415	75	1490	10	0	No	No	Yes	Yes	No	No	No	No	No
12:00 - 13:00	1427	79	1506	10	0	No	No	Yes	Yes	No	No	No	No	No
13:00 - 14:00	1468	120	1588	10	0	No	Yes	Yes	Yes	Yes	No	Yes	No	No
14:00 - 15:00	1497	128	1625	10	0	No	Yes	Yes	Yes	Yes	No	Yes	No	No
15:00 - 16:00	1502	162	1664	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
16:00 - 17:00	1456	177	1633	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
17:00 - 18:00	1548	177	1725	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
18:00 - 19:00	1489	88	1577	10	0	No	No	Yes	Yes	Yes	No	No	No	No
Total	17397	1485	18882	192	0	4	6	11	12	8	0	6	0	0

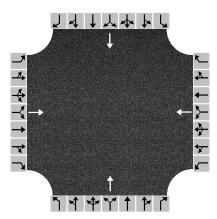
Pedestrian Vo	olume									
15	ith % pedestrian spe	eed < 3.5 ft/s			Pedestrian re	fuge present?	EB		WB	
Harrie	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)
7:00 - 8:00	588	652	12	40	8	8	1	6	No	No
8:00 - 9:00	653	828	14	81	8	8	1	6	No	No
9:00 - 10:00	650	838	14	88	8	8	1	6	No	No
10:00 - 11:00	604	782	13	86	4	4		3	No	No
11:00 - 12:00	632	783	14	15	4	4		3	No	No
12:00 - 13:00	649	778	14	27	4	4		3	No	No
13:00 - 14:00	674	794	14	68	4	4		3	No	No
14:00 - 15:00	706	791	14	97	4	4		3	No	No
15:00 - 16:00	716	786	15	02	8	8	1	6	No	No
16:00 - 17:00	710	746	14	56	8	8	1	6	No	No
17:00 - 18:00	746	802	15	48	8	8	1	6	No	No
18:00 - 19:00	714	775	14	89	4	4		3	No	No
Totals	8042	9355	173	397	72	72	14	14	0	0

Warrants	
Warrant 1: Eight-Hour Vehicular Volume	✓
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or	
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	✓
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	
Warrant 2: Four-Hour Vehicular Volume	✓
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	✓
Warrant 3: Peak Hour	✓

A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	
B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	✓
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	✓
Gaps Same Periodand	✓
Student Volumes	✓
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	✓
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	✓
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	✓
Warrant 8: Roadway Network	✓
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	✓
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

HCSTM Warrants Version 2025 Symonds.xsw Generated: 5/7/2025 12:55:27 PM

	HCS Warra	nts Report									
Project Information											
Analyst	Seth Asante	Date	5/7/2025								
Agency	CTPS	Analysis Year	2025								
Jurisdiction	Salem	Time Period Analyzed									
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)								
Project Description	Route 114 Corridor Study: Franklin	n St at North St									
General											
Major Street Direction	East-West	Population < 10,000	No								
Starting Time Interval	7:00	Coordinated Signal System	No								
Major Street Speed (mi/h)	30	Nearest Signal (ft)	650								
Adequate Trials of Crash Exp. Alt.	No										



	roach Eastbound Westbound Northbound Southbound												
Approach	Eastbound			<u> </u>	Westbound			Northbound			Southbound		
Movement	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
Number of Lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane Usage		T			Т			Т			Т		
Vehicle Volumes Averages (veh/h)	0	1068	0	0	860	0	0	45	0	0	125	0	
Pedestrian median refuge available		No			No		No			No			
Pedestrian Averages (peds/h)		2			10			1			1		
Gap Averages (gaps/h)		0			0			0			0		
Delay Averages (s/veh)		0.0		0.0			49.7			13.3			
Delay Averages (veh-hrs)		0.0			0.0			0.7			0.5		
School Crossing and Roadway	Netwo	rk											
Number of Students in Highest Hour	0			1	wo or Mo	re Major	Routes Yes						
Number of Adequate Gaps in Period	0	0			Weekend Counts			No					
Number of Minutes in Period	60			5	5-year Gro	wth Facto	or (%) 3						

Railroad Crossing

ramoud crossing			
Grade Crossing Approach	None	Rail Traffic (trains/day)	0
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1977	169	2171	20	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
8:00 - 9:00	2030	116	2179	20	0	No	No	Yes	Yes	Yes	No	Yes	No	No
9:00 - 10:00	1796	86	1926	20	0	No	No	Yes	Yes	Yes	No	No	No	No
10:00 - 11:00	1763	85	1892	7	0	No	No	Yes	Yes	Yes	No	No	No	No
11:00 - 12:00	1772	92	1909	7	0	No	No	Yes	Yes	Yes	No	No	No	No
12:00 - 13:00	1832	106	1984	7	0	No	No	Yes	Yes	Yes	No	Yes	No	No
13:00 - 14:00	1898	126	2079	7	0	No	Yes	Yes	Yes	Yes	No	Yes	No	No
14:00 - 15:00	1982	118	2142	7	0	No	No	Yes	Yes	Yes	No	Yes	No	No
15:00 - 16:00	2052	167	2272	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
16:00 - 17:00	2118	173	2352	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
17:00 - 18:00	2075	174	2303	22	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
18:00 - 19:00	1844	92	1979	8	0	No	No	Yes	Yes	Yes	No	No	No	No
Total	23139	1504	25188	169	0	4	5	12	12	12	0	8	0	0

Pedestrian Vo	lume									
15	th % pedestrian spe	eed < 3.5 ft/s			Pedestrian re	EB		WB		
Hours	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	et Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	ЕВ	WB	То	tal	(100%)	(100%)
7:00 - 8:00	1140	837	19	77	3	15	1	8	No	No
8:00 - 9:00	1082	948	20	30	3	15	1	8	No	No
9:00 - 10:00	953	843	17	'96	3	15	1	8	No	No
10:00 - 11:00	961	802	17	'63	1	5		6		No
11:00 - 12:00	992	780	17	72	1	5		6		No
12:00 - 13:00	1038	794	18	32	1	5		6	No	No
13:00 - 14:00	1067	831	18	98	1	1 5 6		6	No	No
14:00 - 15:00	1094	888	19	82	1	5	6		No	No
15:00 - 16:00	1161	891	20	52	3	15	1	8	No	No
16:00 - 17:00	1205	913	21	18	3	15	1	8	No	No
17:00 - 18:00	1174	901	20	75	3	15	1	8	No	No
18:00 - 19:00	952	892	1844		1	5		6	No	No
Totals	12819	10320	23	139	24	120	14	44	0	0

Warrants	
Warrant 1: Eight-Hour Vehicular Volume	✓
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or	
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	✓
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	
Warrant 2: Four-Hour Vehicular Volume	✓
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	✓
Warrant 3: Peak Hour	✓

A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	
B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	✓
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	✓
Warrant 8: Roadway Network	✓
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	✓
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

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	HCS Warra	ints Report									
Project Information											
Analyst	Seth Asante	Date	5/7/2025								
Agency	CTPS	Analysis Year	2025								
Jurisdiction	Salem	Time Period Analyzed									
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)								
Project Description	Route 114 Corridor Study: Lynde S	St at North St									
General											
Major Street Direction	East-West	Population < 10,000	No								
Starting Time Interval	7:00	Coordinated Signal System	No								
Major Street Speed (mi/h)	25	Nearest Signal (ft)	300								
Adequate Trials of Crash Exp. Alt.	No										

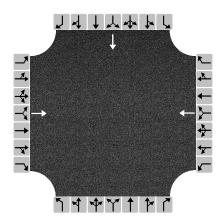
Grade Crossing Approach

Distance to Stop Line (ft)

Highest Volume Hour with Trains

None

Unknown



Approach		Eastbound	ł		Westbound			Northbound			Southbour	Southbound		
Movement	L T R			L	Т	R	L	Т	R	L	Т	R		
Number of Lanes, N	0	1	0	0	1	0	0	0	0	0	1	0		
Lane Usage		Т			Т						Т			
Vehicle Volumes Averages (veh/h)	0	737	0	0	515	0	0	0	0	0	91	0		
Pedestrian median refuge available		No			No			No			No			
Pedestrian Averages (peds/h)		7			7		0			1				
Gap Averages (gaps/h)		0			0			0		0				
Delay Averages (s/veh)		0.0			0.0			0.0			15.0			
Delay Averages (veh-hrs)		0.0		0.0				0.7		0.4				
School Crossing and Roadway	Netwo	rk												
Number of Students in Highest Hour	0				Two or Mo	re Major	Routes	Routes Yes						
Number of Adequate Gaps in Period	0			,	Weekend (Counts			No					
Number of Minutes in Period	60			5-year Growth Facto			or (%) 3							

Rail Traffic (trains/day)

High Occupancy Buses (%)

Tractor-Trailer Trucks (%)

0

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1213	80	1293	21	0	No	No	Yes	Yes	No	No	No	No	No
8:00 - 9:00	1278	96	1374	21	0	No	No	Yes	Yes	Yes	No	No	No	No
9:00 - 10:00	1167	80	1247	21	0	No	No	Yes	Yes	No	No	No	No	No
10:00 - 11:00	1135	84	1219	11	0	No	No	Yes	Yes	Yes	No	No	No	No
11:00 - 12:00	1149	92	1241	11	0	No	No	Yes	Yes	Yes	No	No	No	No
12:00 - 13:00	1174	77	1251	11	0	No	No	Yes	Yes	No	No	No	No	No
13:00 - 14:00	1234	87	1321	11	0	No	No	Yes	Yes	Yes	No	No	No	No
14:00 - 15:00	1300	82	1382	11	0	No	No	Yes	Yes	Yes	No	No	No	No
15:00 - 16:00	1422	92	1514	21	0	No	No	Yes	Yes	Yes	No	No	No	No
16:00 - 17:00	1404	110	1514	21	0	No	No	Yes	Yes	Yes	No	No	No	No
17:00 - 18:00	1357	120	1477	21	0	No	Yes	Yes	Yes	Yes	No	Yes	No	No
18:00 - 19:00	1203	99	1302	11	0	No	No	Yes	Yes	Yes	No	No	No	No
Total	15036	1099	16135	192	0	0	1	12	12	9	0	1	0	0

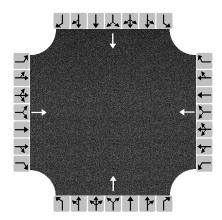
Pedestrian Vo	Pedestrian Volume													
15	th % pedestrian spe	ed < 3.5 ft/s			Pedestrian re	EB		WB						
Hours	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B				
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)				
7:00 - 8:00	653	560	12	:13	10	9	1	9	No	No				
8:00 - 9:00	749	529	12	.78	10	9	1	9	No	No				
9:00 - 10:00	696	471	11	67	10	9	1	9	No	No				
10:00 - 11:00	672	463	11	35	5	5	10		No	No				
11:00 - 12:00	674	475	11	49	5	5	10		No	No				
12:00 - 13:00	673	501	11	74	5	5	10		No	No				
13:00 - 14:00	696	538	12	34	5	5	10		No	No				
14:00 - 15:00	747	553	13	00	5	5	10		No	No				
15:00 - 16:00	842	580	14	22	10	9	1	9	No	No				
16:00 - 17:00	851	553	14	.04	10	9	1	9	No	No				
17:00 - 18:00	816	541	13	57	10	9	19		No	No				
18:00 - 19:00	782	421	12	.03	5	5 5 10		0	No	No				
Totals	8851	6185	150	036	90	84	1	74	0	0				

Warrants	
Warrant 1: Eight-Hour Vehicular Volume	✓
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or	
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	✓
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	
Warrant 2: Four-Hour Vehicular Volume	✓
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	✓
Warrant 3: Peak Hour	✓

A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	
B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	✓
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	✓
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	✓
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	✓
Warrant 8: Roadway Network	✓
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	✓
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

HCSTM Warrants Version 2025 Lynde St.xsw Generated: 5/7/2025 3:40:55 PM

	HCS Warrants Report									
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	em Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study: Summe	er St at Norman St								
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	25	Nearest Signal (ft)	500							
Adequate Trials of Crash Exp. Alt.	No									



Approach		Eastbound			Westbound			Northbound			Southbound		
Movement	L T R		L	Т	R	L	Т	R	L	Т	R		
Number of Lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane Usage		Т			Т			Т			Т		
Vehicle Volumes Averages (veh/h)	0	573	0	0	215	0	0	357	0	0	99	0	
Pedestrian median refuge available		No		No			No			No			
Pedestrian Averages (peds/h)		15		6			7			7			
Gap Averages (gaps/h)		0			0			0			0		
Delay Averages (s/veh)		8.5			8.0			8.0			8.0		
Delay Averages (veh-hrs)		1.4			0.5		0.8			0.2			
School Crossing and Roadway	School Crossing and Roadway Network												
Number of Students in Highest Hour	0			Т	wo or Mo	re Major I	Routes		Yes				

Number of Students in Highest Hour	0	Two or More Major Routes	Yes
Number of Adequate Gaps in Period	0	Weekend Counts	No
Number of Minutes in Period	60	5-year Growth Factor (%)	3

Railroad Crossing

Grade Crossing Approach	None	Rail Traffic (trains/day)	0
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	776	353	1224	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
8:00 - 9:00	787	356	1259	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
9:00 - 10:00	779	341	1206	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
10:00 - 11:00	733	326	1145	24	0	Yes	Yes	No	Yes	Yes	No	Yes	No	No
11:00 - 12:00	746	360	1196	24	0	Yes	Yes	No	Yes	Yes	No	Yes	No	No
12:00 - 13:00	704	346	1154	24	0	Yes	Yes	No	Yes	Yes	No	Yes	No	No
13:00 - 14:00	781	380	1253	24	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
14:00 - 15:00	789	360	1246	24	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
15:00 - 16:00	891	368	1380	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
16:00 - 17:00	904	386	1403	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
17:00 - 18:00	833	391	1330	48	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
18:00 - 19:00	749	317	1159	24	0	Yes	Yes	No	Yes	Yes	No	Yes	No	No
Total	9472	4284	14955	432	0	12	12	8	12	12	0	12	0	0

Pedestrian Vo	lume											
15th % pedestrian speed < 3.5 ft/s					Pedestrian re	fuge present?	EB		WB			
Hours	Major Street Vehicular Volume (veh/h)				Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B		
Hours	EB	WB	То	tal	EB WB		То	tal	(100%)	(100%)		
7:00 - 8:00	516	260	77	76	20	8	2	18	No	No		
8:00 - 9:00	533	254	78	37	20	8	2	.8	No	No		
9:00 - 10:00	565	214	77	79	20	8	2	.8	No	No		
10:00 - 11:00	537	196	73	33	10	4	1	14		No		
11:00 - 12:00	552	194	74	46	10	4	1	14		No		
12:00 - 13:00	508	196	70	04	10	4	14		No	No		
13:00 - 14:00	572	209	78	31	10	4 14		4	No	No		
14:00 - 15:00	576	213	78	39	10	4	1	4	No	No		
15:00 - 16:00	642	249	89	91	20	8	2	.8	No	No		
16:00 - 17:00	657	247	90	04	20	8	2	.8	No	No		
17:00 - 18:00	626	207	833		833		20	8	2	.8	No	No
18:00 - 19:00	601	148	749		749		10	4	1	4	No	No
Totals	6885	2587	94	72	180	72	2.	52	0	0		

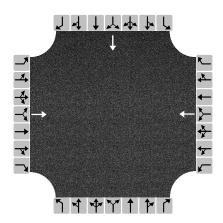
Warrants	
Warrant 1: Eight-Hour Vehicular Volume	✓
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or	✓
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	✓
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	✓
Warrant 2: Four-Hour Vehicular Volume	✓
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	✓
Warrant 3: Peak Hour	✓

A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	
B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	✓
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	✓
Warrant 8: Roadway Network	✓
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	✓
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

HCSTM Warrants Version 2025 Summer-Norman.xsw Generated: 5/7/2025 4:41:34 PM

	HCS Warrants Report									
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study - Palmer	St								
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	30	Nearest Signal (ft)	600							
Adequate Trials of Crash Exp. Alt.	No									

Number of Minutes in Period



Approach		Eastbound		l ,	Westbound			Northbound			Southbound		
7,651,000.11		Lastboarie	-		Westboaria			Northboand			SouthBound		
Movement	L	Т	R	L	T	R	L	T	R	L	T	R	
Number of Lanes, N	0	1	0	0	1	0	0	0	0	0	1	0	
Lane Usage		Т			Т						Т		
Vehicle Volumes Averages (veh/h)	0	650	0	0	644	0	0	0	0	0	166	0	
Pedestrian median refuge available		No			No			No			No		
Pedestrian Averages (peds/h)		22			15		2			6			
Gap Averages (gaps/h)		0			0		0			0			
Delay Averages (s/veh)		0.0			0.0		0.0			88.8			
Delay Averages (veh-hrs)		0.0			0.0			0.0			4.2		
School Crossing and Roadway Network													
Number of Students in Highest Hour	0	0			wo or Mo	re Major	Routes		Yes				
Number of Adequate Gaps in Period	0			\	Weekend Counts			No					

Railroad Crossing Grade Crossing Approach None Rail Traffic (train

60

Grade Crossing Approach	None	Rail Traffic (trains/day)	0		
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0		
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0		

5-year Growth Factor (%)

Volume Su	Volume Summary													
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1316	90	1406	61	0	No	No	Yes	Yes	Yes	No	No	No	No
8:00 - 9:00	1354	134	1488	61	0	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
9:00 - 10:00	1186	160	1346	61	0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
10:00 - 11:00	1184	112	1296	30	0	No	No	Yes	Yes	Yes	No	No	No	No
11:00 - 12:00	1160	64	1224	30	0	No	No	No	Yes	No	No	No	No	No
12:00 - 13:00	1218	120	1338	30	0	No	Yes	Yes	Yes	Yes	No	No	No	No
13:00 - 14:00	1199	198	1397	30	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
14:00 - 15:00	1251	191	1442	30	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
15:00 - 16:00	1477	245	1722	61	0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
16:00 - 17:00	1457	276	1733	61	0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
17:00 - 18:00	1517	250	1767	61	0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
18:00 - 19:00	1216	161	1377	30	0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
Total	15535	2001	17536	546	0	7	9	11	12	11	5	8	0	0

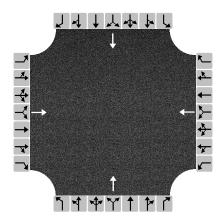
Pedestrian Vo	olume									
15	th % pedestrian spe	eed < 3.5 ft/s		Pedestrian re	Pedestrian refuge present? EB					
Harrie	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)
7:00 - 8:00	587	729	13	16	30	20	5	0	No	No
8:00 - 9:00	658	696	13	54	30	20	5	0	No	No
9:00 - 10:00	583	603	11	86	30	20	5	0	No	No
10:00 - 11:00	563	621	11	84	15	10	2	.5	No	No
11:00 - 12:00	570	590	11	60	15	10	2	.5	No	No
12:00 - 13:00	588	630	12	18	15	10	2	.5	No	No
13:00 - 14:00	576	623	11	99	15	10	2	.5	No	No
14:00 - 15:00	658	593	12	:51	15	10	2	.5	No	No
15:00 - 16:00	770	707	14	.77	30	20	5	0	No	No
16:00 - 17:00	770	687	14	57	30	20	5	0	No	No
17:00 - 18:00	831	686	15	17	30	20	5	0	No	No
18:00 - 19:00	648	568	12	16	15	10	2	.5	No	No
Totals	7802	7733	15!	535	270	180	4	50	0	0

Varrants							
Warrant 1: Eight-Hour Vehicular Volume ✓							
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or							
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	✓						
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	✓						
Warrant 2: Four-Hour Vehicular Volume	✓						
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	✓						
Warrant 3: Peak Hour	✓						

A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	✓
B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	✓
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	✓
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	✓
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	✓
Warrant 8: Roadway Network	✓
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	✓
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	
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HCSTM Warrants Version 2025 Palmer.xsw Generated: 5/14/2025 1:26:20 PM

HCS Warrants Report										
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study - Leavitt	St								
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	30	Nearest Signal (ft)	850							
Adequate Trials of Crash Exp. Alt.	No									



Approach	proach Eastbound Westbound		Northbound			Southbound							
Movement	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
Number of Lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane Usage		T			Т			Т			T		
Vehicle Volumes Averages (veh/h)	0	650	0	0	617	0	0	10	0	0	0	0	
Pedestrian median refuge available		No			No			No		No			
Pedestrian Averages (peds/h)		15			22		3			1			
Gap Averages (gaps/h)		0			0		0			0			
Delay Averages (s/veh)		0.0			0.0		46.6			0.0			
Delay Averages (veh-hrs)		0.0			0.0			0.2			4.2		
School Crossing and Roadway	Netwo	rk											
Number of Students in Highest Hour	in Highest Hour 0		1	wo or Mo	or More Major Routes			No	No				
Number of Adequate Gaps in Period	0		١	Weekend (Counts			No	No				

Railroad Crossing

Number of Minutes in Period

60

ramoud crossing	a crossing								
Grade Crossing Approach	None	Rail Traffic (trains/day)	0						
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0						
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0						

5-year Growth Factor (%)

Volume Su	/olume Summary													
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1113	1	1114	58	0	No	No	No	No	No	No	No	No	No
8:00 - 9:00	1253	14	1267	58	0	No	No	No	No	No	No	No	No	No
9:00 - 10:00	1158	19	1177	58	0	No	No	No	No	No	No	No	No	No
10:00 - 11:00	1130	9	1139	28	0	No	No	No	No	No	No	No	No	No
11:00 - 12:00	1102	2	1104	28	0	No	No	No	No	No	No	No	No	No
12:00 - 13:00	1174	4	1178	28	0	No	No	No	No	No	No	No	No	No
13:00 - 14:00	1176	7	1183	28	0	No	No	No	No	No	No	No	No	No
14:00 - 15:00	1274	7	1281	28	0	No	No	No	No	No	No	No	No	No
15:00 - 16:00	1434	9	1443	58	0	No	No	No	No	No	No	No	No	No
16:00 - 17:00	1513	21	1534	58	0	No	No	No	No	No	No	No	No	No
17:00 - 18:00	1604	13	1617	58	0	No	No	No	No	No	No	No	No	No
18:00 - 19:00	1277	15	1292	27	0	No	No	No	No	No	No	No	No	No
Total	15208	121	15329	515	0	0	0	0	0	0	0	0	0	0

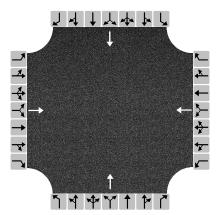
Pedestrian Vo	olume									
15	ith % pedestrian spe	eed < 3.5 ft/s		Pedestrian refuge present? EB				WB		
Harris	Major Str	eet Vehicular Volum	e (veh/h)		Major Str	eet Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)
7:00 - 8:00	587	526	11	13	20	30	5	0	No	No
8:00 - 9:00	658	595	12	:53	20	30	5	0	No	No
9:00 - 10:00	583	575	11	58	20	30	5	0	No	No
10:00 - 11:00	563	567	11	30	10	15	2	5	No	No
11:00 - 12:00	570	532	11	02	10	15	2	5	No	No
12:00 - 13:00	588	586	11	74	10	15	2	5	No	No
13:00 - 14:00	576	600	11	76	10	15	2	5	No	No
14:00 - 15:00	658	616	12	.74	10	15	2	5	No	No
15:00 - 16:00	770	664	14	34	20	30	5	0	No	No
16:00 - 17:00	770	743	15	13	20	30	5	0	No	No
17:00 - 18:00	831	773	16	604	20	30	5	0	No	No
18:00 - 19:00	648	629	12	:77	10	15	2	5	No	No
Totals	7802	7406	152	208	180	270	4!	50	0	0

Warrants								
Warrant 1: Eight-Hour Vehicular Volume								
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or								
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or								
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)								
Warrant 2: Four-Hour Vehicular Volume								
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)								
Warrant 3: Peak Hour								
A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or								

B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	
Warrant 8: Roadway Network	
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

HCSTM Warrants Version 2025 Leavitt.xsw Generated: 5/9/2025 8:05:16 PM

	HCS Warra	ints Report								
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study - Holly-L	each								
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	30	Nearest Signal (ft)	2000							
Adequate Trials of Crash Exp. Alt.	Adequate Trials of Crash Exp. Alt. No									



Approach		Eastbound			<i>N</i> estboun	d	Northbound			Southbound			
Movement	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
Number of Lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane Usage		Т			T			Т			T		
Vehicle Volumes Averages (veh/h)	0	673	0	0	704	0	0	7	0	0	28	0	
Pedestrian median refuge available		No			No		No			No			
Pedestrian Averages (peds/h)		11			11			3			9		
Gap Averages (gaps/h)		0			0		0			0			
Delay Averages (s/veh)		0.0			0.0		7.5			7.5			
Delay Averages (veh-hrs)		0.0			0.0			0.0		0.1			
School Crossing and Roadway	y Netwo	rk											
Number of Students in Highest Hour	0				Two or More Major			Routes No					
Number of Adequate Gaps in Period	0			V	Weekend Counts			No					

Number of Minutes in Period Railroad Crossing

60

Kamoad Crossing			
Grade Crossing Approach	None	Rail Traffic (trains/day)	0
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0

5-year Growth Factor (%)

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1518	31	1561	49	0	No	No	No	No	No	No	No	No	No
8:00 - 9:00	1505	26	1543	49	0	No	No	No	No	No	No	No	No	No
9:00 - 10:00	1335	30	1370	49	0	No	No	No	No	No	No	No	No	No
10:00 - 11:00	1305	26	1337	21	0	No	No	No	No	No	No	No	No	No
11:00 - 12:00	1322	29	1355	21	0	No	No	No	No	No	No	No	No	No
12:00 - 13:00	1331	22	1359	21	0	No	No	No	No	No	No	No	No	No
13:00 - 14:00	1341	22	1372	21	0	No	No	No	No	No	No	No	No	No
14:00 - 15:00	1324	34	1366	21	0	No	No	No	No	No	No	No	No	No
15:00 - 16:00	1479	26	1512	49	0	No	No	No	No	No	No	No	No	No
16:00 - 17:00	1447	27	1482	49	0	No	No	No	No	No	No	No	No	No
17:00 - 18:00	1491	35	1536	49	0	No	No	No	No	No	No	No	No	No
18:00 - 19:00	1130	30	1165	20	0	No	No	No	No	No	No	No	No	No
Total	16528	338	16958	419	0	0	0	0	0	0	0	0	0	0

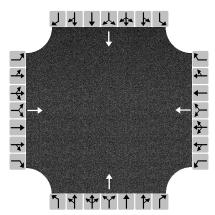
Pedestrian Vo	olume									
15	th % pedestrian spe	eed < 3.5 ft/s			Pedestrian re	EB		WB		
Harrie	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)
7:00 - 8:00	754	764	15	518	15	15	3	0	No	No
8:00 - 9:00	753	752	15	05	15	15	3	0	No	No
9:00 - 10:00	681	654	13	35	15	15	3	0	No	No
10:00 - 11:00	649	656	13	805	7	7	7 14		No	No
11:00 - 12:00	567	755	13	322	7	7	1	14		No
12:00 - 13:00	625	706	1331		7	7	1	4	No	No
13:00 - 14:00	657	684	1341		7	7	1	4	No	No
14:00 - 15:00	648	676	13	324	7	7	14		No	No
15:00 - 16:00	732	747	14	179	15	15	3	0	No	No
16:00 - 17:00	714	733	14	147	15	15	3	0	No	No
17:00 - 18:00	730	761	14	191	15	15	3	0	No	No
18:00 - 19:00	566	564	1130		7	7	1	4	No	No
Totals	8076	8452	16!	528	132	132	20	64	0	0

Warrants	
Warrant 1: Eight-Hour Vehicular Volume	
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or	
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or	
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)	
Warrant 2: Four-Hour Vehicular Volume	
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)	
Warrant 3: Peak Hour	
A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or	

B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	
Warrant 8: Roadway Network	
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	
C. The Cooper to	C + 1 F /0 /2025 0 00 00 B

HCSTM Warrants Version 2025 Holly-Leach.xsw Generated: 5/9/2025 8:09:00 PM

	HCS Warra	ints Report								
Project Information										
Analyst	Seth Asante	Date	5/7/2025							
Agency	CTPS	Analysis Year	2025							
Jurisdiction	Salem	Time Period Analyzed								
Units	U.S. Customary	MUTCD Method	MUTCD 11 (2023)							
Project Description	Route 114 Corridor Study -Ocean									
General										
Major Street Direction	East-West	Population < 10,000	No							
Starting Time Interval	7:00	Coordinated Signal System	No							
Major Street Speed (mi/h)	30	Nearest Signal (ft)	800							
Adequate Trials of Crash Exp. Alt.	Adequate Trials of Crash Exp. Alt. No									



Approach		Eastbound			Westboun	d	Northbound			Southbound			
Movement	L	Т	R	L	Т	R	L	Т	R	L T		R	
Number of Lanes, N	0	1	0	0	1	0	0	1	0	0	1	0	
Lane Usage		T			T			Т			T		
Vehicle Volumes Averages (veh/h)	0	673	0	0	704	0	0	50	0	0	57	0	
Pedestrian median refuge available		No			No			No			No		
Pedestrian Averages (peds/h)		11			11			7		4			
Gap Averages (gaps/h)		0			0		1				0		
Delay Averages (s/veh)		0.0			0.0		29.5			21.0			
Delay Averages (veh-hrs)		0.0			0.0			0.4			0.3		
School Crossing and Roadway	Netwo	rk											
Number of Students in Highest Hour	0				wo or Mo	re Major	Routes No						
Number of Adequate Gaps in Period	0			١	Weekend Counts			No					

Number of Minutes in Period Railroad Crossing

60

Kamoad Crossing			
Grade Crossing Approach	None	Rail Traffic (trains/day)	0
Highest Volume Hour with Trains	Unknown	High Occupancy Buses (%)	0
Distance to Stop Line (ft)	-	Tractor-Trailer Trucks (%)	0

5-year Growth Factor (%)

Volume Su	ımmary	•												
Hours	Major Volume (veh/h)	Minor Volume (veh/h)	Total Volume (veh/h)	Peds/h	Gaps/h	1A (100%)	1A (80%)	1B (100%)	1B (80%)	2 (100%)	3A (100%)	3B (80%)	4A (100%)	4B (100%)
7:00 - 8:00	1518	51	1616	45	0	No	No	No	No	No	No	No	No	No
8:00 - 9:00	1505	62	1621	45	0	No	No	No	Yes	No	No	No	No	No
9:00 - 10:00	1335	60	1441	45	13	No	No	No	Yes	No	No	No	No	No
10:00 - 11:00	1305	58	1413	22	0	No	No	No	No	No	No	No	No	No
11:00 - 12:00	1322	62	1438	22	0	No	No	No	Yes	No	No	No	No	No
12:00 - 13:00	1331	65	1443	22	0	No	No	No	Yes	No	No	No	No	No
13:00 - 14:00	1341	55	1446	22	0	No	No	No	No	No	No	No	No	No
14:00 - 15:00	1324	57	1431	22	0	No	No	No	No	No	No	No	No	No
15:00 - 16:00	1479	57	1589	45	0	No	No	No	No	No	No	No	No	No
16:00 - 17:00	1447	67	1576	45	0	No	No	No	Yes	No	No	No	No	No
17:00 - 18:00	1491	68	1605	45	0	No	No	No	Yes	No	No	No	No	No
18:00 - 19:00	1130	42	1209	22	0	No	No	No	No	No	No	No	No	No
Total	16528	704	17828	402	13	0	0	0	6	0	0	0	0	0

Pedestrian Vo	olume									
15	th % pedestrian spe	eed < 3.5 ft/s			Pedestrian re	EB		WB		
Harrie	Major Str	eet Vehicular Volum	e (veh/h)		Major Stre	eet Pedestrian Volun	ne (ped/h))	4A	4B
Hours	EB	WB	То	tal	EB	WB	То	tal	(100%)	(100%)
7:00 - 8:00	754	764	15	518	15	15	3	0	No	No
8:00 - 9:00	753	752	15	05	15	15	3	0	No	No
9:00 - 10:00	681	654	13	35	15	15	3	0	No	No
10:00 - 11:00	649	656	13	805	7	7	7 14		No	No
11:00 - 12:00	567	755	13	322	7	7	1	14		No
12:00 - 13:00	625	706	1331		7	7	1	4	No	No
13:00 - 14:00	657	684	1341		7	7	1	4	No	No
14:00 - 15:00	648	676	13	324	7	7	14		No	No
15:00 - 16:00	732	747	14	179	15	15	3	0	No	No
16:00 - 17:00	714	733	14	147	15	15	3	0	No	No
17:00 - 18:00	730	761	14	191	15	15	3	0	No	No
18:00 - 19:00	566	564	1130		7	7	1	4	No	No
Totals	8076	8452	16!	528	132	132	20	64	0	0

Warrants		
Warrant 1: Eight-Hour Vehicular Volume		
A. Minimum Vehicular Volumes (Both major approachesand more critical minor approach)or		
B. Interruption of Continuous Traffic (Both major approachesand more critical minor approach)or		
80% Vehicularand Interruption Volumes (Both major approachesand more critical minor approach)		
Warrant 2: Four-Hour Vehicular Volume		
Four-Hour Vehicular Volume (Both major approachesand more critical minor approach)		
Warrant 3: Peak Hour		
A. Peak-Hour Conditions (Minor delay and minor volumeand total volume)or		

B. Peak-Hour Vehicular Volumes (Both major approachesand more critical minor approach)	
Warrant 4: Pedestrian Volume	
A. Four Hour Volumesor	
B. Peak-Hour Volumes	
Warrant 5: School Crossing	
Gaps Same Periodand	✓
Student Volumes	
Nearest Traffic Control Signal (optional)	✓
Warrant 6: Coordinated Signal System	
Degree of Platooning (Predominant direction or both directions)	
Warrant 7: Crash Experience	
A. Adequate trials of alternatives, observance and enforcement failedand	
B. Reported Crash Historyand	
B1. Angle Crashes and Pedestrian Crashes within a 1-year Period (All Severities)	
B2. Angle Crashes and Pedestrian Crashes within a 1-year Period (Fatal-and-Injury)	
B3. Angle Crashes and Pedestrian Crashes within a 3-year Period (All Severities)	
B4. Angle Crashes and Pedestrian Crashes within a 3-year Period (Fatal-and-Injury)	
C. 80% Volumes for Warrants 1A, 1B,or 4 are satisfied	
Warrant 8: Roadway Network	
A. Weekday Volume (Peak hour totaland projected warrants 1, 2, or 3)or	
B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
A. Grade Crossing within 140 ftand	
B. Peak-Hour Vehicular Volumes	

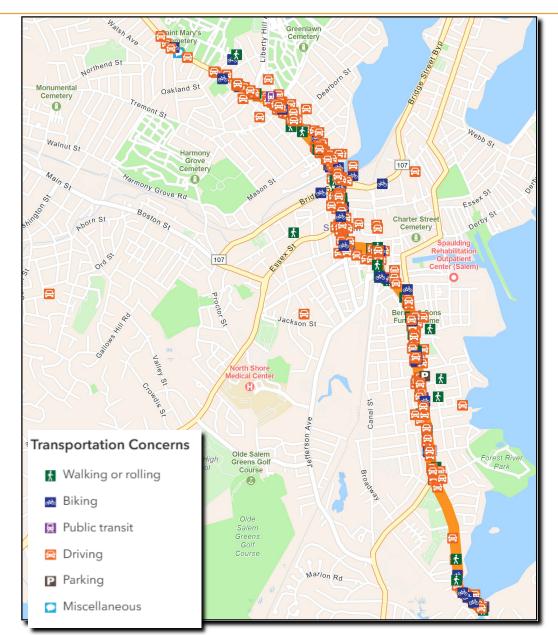
HCSTM Warrants Version 2025 Ocean.xsw Generated: 5/14/2025 1:03:08 PM

Appendix E Community Survey Results



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Mapping of Survey Responses





- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Travel Frequency

A few times a week 220 (32%)

A few times a month 40

Other 10



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Connection to Salem

Resident of Salem 490 (72%)

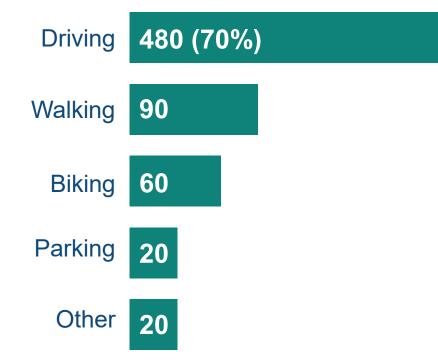
Travel through Salem 30

Work in Salem 15



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Transportation Concerns





- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

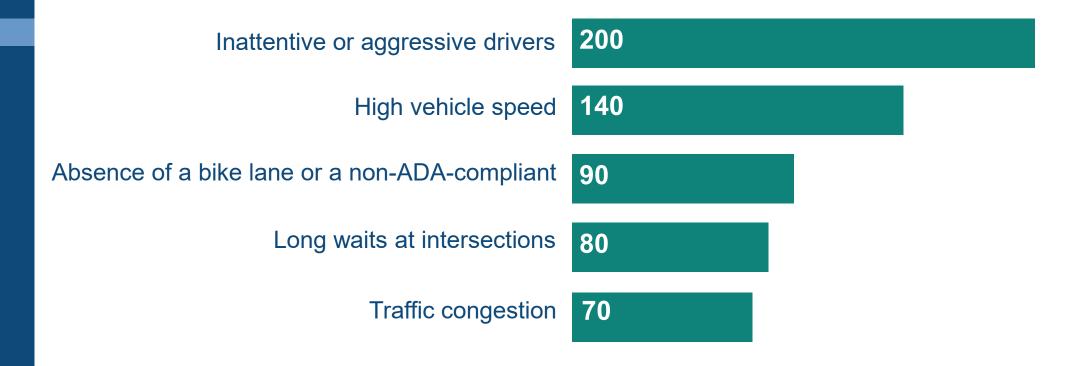
Challenges when Driving

Traffic congestion	380
Long waits at intersections	310
Turning into or out of a side street	190
High vehicle speed	150
Inattentive or aggressive drivers	120



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Challenges when Walking or Biking





- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Comments Regarding Walking Challenges



Safety, operations, and poor infrastructure

Crosswalk safety and visibility

Drivers park too close to intersections.

Long waits for 'Walk' signal

Poor sidewalk conditions and non-ADA-compliant



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Comments Regarding Biking Challenges



Safety, comfort, and consistency

Insufficient protection for bike lanes

Absence of bike lane markings at intersections

Inconsistent bike lane designs

Driver's parking, unloading, or passing in bike lanes



- 1. Outline
- 2. Survey Results
- 3. Potential Improvements
- 4. Next Steps

Comments Regarding Driving Challenges



Congestion and Delays

Poor signal timing and lack of coordination

Outdated signal equipment

Difficulty turning into or out of side streets

Cut through traffic on the side streets.