

Transportation Impact Assessment – Step 5: Final Report

# South Keys Phase 1

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# Transmittal

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**Delivery** E-mail/Electronic Submission  
**From** David Hook, P.Eng.  
**Sent By** David Hook  
**Date** October 19, 2023  
**Project No** 134569  
**Subject** South Keys Phase 1 TIA - Step 5: Final Report

Please find enclosed the TIA – Step 5: Final Report in support of a Site Plan Control application and a Zoning By-Law Amendment application relating to the proposed residential development at 2200 Bank Street and 1131 Hunt Club Road on behalf of SmartCentres Real Estate Investment Trust (REIT). Attached are the Synchro analysis files associated with this report.

All comments and responses associated with this study have been documented and are provided in a separate document within the submission package.

If you require anything else, please don't hesitate to contact me at 613-225-1311 x64029 or by email at david.hook@arcadis.com.

Best Regards,



David Hook, P.Eng.

## **TIA Plan Reports - Certification**

On 14 June 2017, the Council of the City of Ottawa adopted new Transportation Impact Assessment (TIA) Guidelines. In adopting the guidelines, Council established a requirement for those preparing and delivering transportation impact assessments and reports to sign a letter of certification.

Individuals submitting TIA reports will be responsible for all aspects of development-related transportation assessment and reporting, and undertaking such work, in accordance and compliance with the City of Ottawa's Official Plan, the Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines.

By submitting the attached TIA report (and any associate documents) and signing this document, the individual acknowledges that s/he meets the four criteria listed below:

### **CERTIFICATION**

1. I have reviewed and have a sound understanding of the objectives, needs and requirements of the City of Ottawa's Official Plan, Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines;
2. I have a sound knowledge of industry standard practice with respect to the preparation of transportation impact assessment reports, including multi modal level of service review;
3. I have substantial experience (more than 5 years) in undertaking and delivering transportation impact studies (analysis, reporting and geometric design) with strong background knowledge in transportation planning, engineering or traffic operations; and
4. I am either a licensed<sup>1</sup> or registered<sup>1</sup> professional in good standing, whose field of expertise [check  appropriate field(s)] is either transportation engineering  or transportation planning .

<sup>1</sup> License or registration body that oversees the profession is required to have a code of conduct and ethics guidelines that will ensure appropriate conduct and representation for transportation planning and/or transportation engineering works.

Dated at Ottawa this 19<sup>th</sup> day of October, 2023.  
(City)

Name: David Hook, P.Eng.

Professional Title: Project Engineer



Signature of Individual certifier that she/he meets the above four criteria

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## Executive Summary

Arcadis was retained by SmartCentres Real Estate Investment Trust (REIT) on behalf of the Joint Venture Applicant, Calloway REIT (South Keys) Inc. and Canadian Property Holdings (South Keys) Inc., to undertake a Transportation Impact Assessment (TIA) in support of a Site Plan Control application and a Zoning By-Law Amendment application for a proposed high-rise residential development to be located at 2200 Bank Street and 1131 Hunt Club Road, Ottawa.

The proposed development is located within an existing Transit-Oriented Development (TOD) zone and immediately adjacent to the South Keys Transitway Station, which is planned to incorporate LRT service in tandem with its existing BRT service by 2024. This high-density residential development is well suited in this context, given its proximity to high quality transit service and the numerous amenities offered at South Keys Shopping Centre. A Transit Plaza is located immediately adjacent to the site which provides direct access to South Keys Station from both the site and Dazé Street.

The development is anticipated to be constructed in four phases with full build-out of Phase 1 in 2026 and full build-out of the Master Plan in 2041. The horizon year of the study was therefore taken as 2031 for Phase 1 and 2041 for Phases 2 to 4. Direct access to the proposed development will be provided on Dazé Street through a proposed right-in/right-out driveway and an existing '3/4' movements driveway. There will be no left-turns permitted for vehicles leaving the development through these two access driveways.

A functional design Roadway Modification Application (RMA) was carried out to identify minor alterations required to relocate the existing '3/4' access driveway approximately 3.5m metres south which would accommodate a fire truck/heavy single unit (HSU) design vehicle by standardizing the width of the northbound left-turn and help to ensure that outbound left-turns from the site are physically restricted.

There were 3 known developments of significance in the vicinity of the subject site that are either in the development application approval process, are in pre-construction or are in varying stages of construction. For these developments, all unoccupied units are accounted for in the development of background traffic volumes using consistent trip generation assumptions.

The proposed development is expected to generate up to 34 and 93 two-way weekday peak hour vehicular trips upon full build-out of Phase 1 and the long-term Master Plan, respectively. Site-generated traffic was assigned to the adjacent road network based on the morning peak period commuter travel patterns for the Hunt Club Traffic Assessment Zone (TAZ) from the 2011 TRANS Origin-Destination Survey, as well as the distribution of relevant employment nodes throughout the City.

This study has identified deficiencies in the Level of Service across all transportation modes, with limited options available to achieve acceptable standards. The arterial intersections within the study area are expected to operate above their theoretical capacities based on existing and future conditions. The performance of these intersections is not expected to be largely impacted by the site-generated traffic, as it is the case for Future Background and Future Total Traffic conditions. U-turn prohibition should be considered on the eastbound approach at Hunt Club & Dazé to help mitigate the long delays and failing LOS anticipated for both future background and total traffic conditions. The intersections along Dazé Street are expected to operate well under their theoretical capacities beyond the 2041 study horizon year. As indicated through queueing analysis, all right and left-turn auxiliary lanes impacted by the new development are expected to provide adequate storage for vehicles within the study area.

**Based on the findings of this study, it is the overall opinion of Arcadis that the proposed development will integrate well with and can be safely accommodated by the adjacent transportation network with the recommended actions and modifications in place.**

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- Appendix H – MMLOS Analysis
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# 1 Introduction

Arcadis was retained by SmartCentres Real Estate Investment Trust (REIT) on behalf of the Joint Venture Applicant, Calloway REIT (South Keys) Inc. and Canadian Property Holdings (South Keys) Inc., to undertake a Transportation Impact Assessment (TIA) in support of a Site Plan Control application and a Zoning By-Law Amendment application for a proposed high-rise residential development to be located at 2200 Bank Street and 1131 Hunt Club Road, Ottawa.

In accordance with the City of Ottawa's Transportation Impact Assessment Guidelines, published in June 2017, the following report is divided into four major components:

- **Screening** – Prior to the commencement of a TIA, an initial assessment of the proposed development is undertaken to establish the need for a comprehensive review of the site based on three triggers: Trip Generation, Location and Safety.
- **Scoping** – This component of the TIA report describes both the existing and planned conditions in the vicinity of the development and defines study parameters such as the study area, analysis periods and analysis years of the development. It also provides an opportunity to identify any scope exemptions that would eliminate elements of scope described in the TIA Guidelines that are not relevant to the development proposal, based on consultation with City staff.
- **Forecasting** – The Forecasting component of the TIA is intended to review both the development-generated travel demand and the background network travel demand and provides an opportunity to rationalize this demand to ensure projections are within the capacity constraints of the transportation network.
- **Analysis** – This component documents the results of any analyses undertaken to ensure that the transportation related features of the proposed development are in conformance with prescribed technical standards and that its impacts on the transportation network are both sustainable and effectively managed. It also identifies a development strategy to ensure that what is being proposed is aligned with the City of Ottawa's city-building objectives, targets and policies.

Throughout the development of a TIA report, each of the four study components above are submitted in draft form to the City of Ottawa and undergo a review by a designated Transportation Project Manager. Any comments received are addressed to the satisfaction of the City's Transportation Project Manager before proceeding with subsequent components of the study. All technical comments and responses throughout this process are included in a separate document within the submission package.

Dependent on the findings of this report, the complete submission of this Transportation Impact Assessment may also require Functional Design Drawings of recommended roadway improvements to support a Roadway Modification Application (RMA). The submission may also require a post-development Monitoring Plan to track performance of the planned TIA Strategy. The need for these two elements will be confirmed through the analysis undertaken for this report.

## 2 TIA Screening

An initial screening was completed to confirm the need for a Transportation Impact Assessment by reviewing the following three triggers:

- **Trip Generation:** Based on the proposed number of apartment dwelling units, the minimum development size threshold has been exceeded and therefore the Trip Generation trigger is satisfied.
- **Location:** The proposed development is located within a Transit-oriented Development zone (TOD) and, as such, the Location trigger is satisfied.
- **Safety:** Boundary street conditions were reviewed to determine if there is an elevated potential for safety concerns adjacent the site. Due to the proximity of the proposed site access to an existing signalized intersection and potential visibility constraints on Dazé Street, the Safety Trigger is satisfied.

As the proposed development meets the Trip Generation, Location and Safety triggers, the need to undertake a Transportation Impact Assessment is confirmed.

A copy of the Screening Form is provided in **Appendix A**.

## 3 Project Scoping

### 3.1 Description of Proposed Development

#### 3.1.1 Site Location

The proposed development is located within the South Keys Shopping Centre and is approximately 1.2 hectares in size. It is bound by Dazé Street to the east, the Transitway to the west and abuts the future South Keys LRT Station.

The site location and its surrounding context is illustrated in **Exhibit 1**.

#### 3.1.2 Land Use Details

The subject site is currently a commercial area including parking and is zoned as a Mixed-Use Centre, based on GeoOttawa and is identified as a Hub in the Outer Urban Transect Policy Area based on the 2022 Official Plan (OP) Schedule B3. Bank Street is identified as a Mainstreet Corridor and Hunt Club Road is identified as a Minor Corridor within the Outer Urban Transect as well. The site is presently occupied by three adjoining commercial retail units that will be demolished to accommodate the proposed Phase 1 development. Two existing commercial units will remain as part of the Phase 1 development plan. Phase 1 of the subject development includes one 20-storey tower on top of a 9-storey podium. **Table 1** summarizes the proposed land uses included in this development.

Table 1 - Land Use Statistics (Phase 1)

LAND USE	SIZE
Apartments	290 dwelling units
Commercial (Service Retail)	~4,404 ft <sup>2</sup> / ~409.1 m <sup>2</sup>

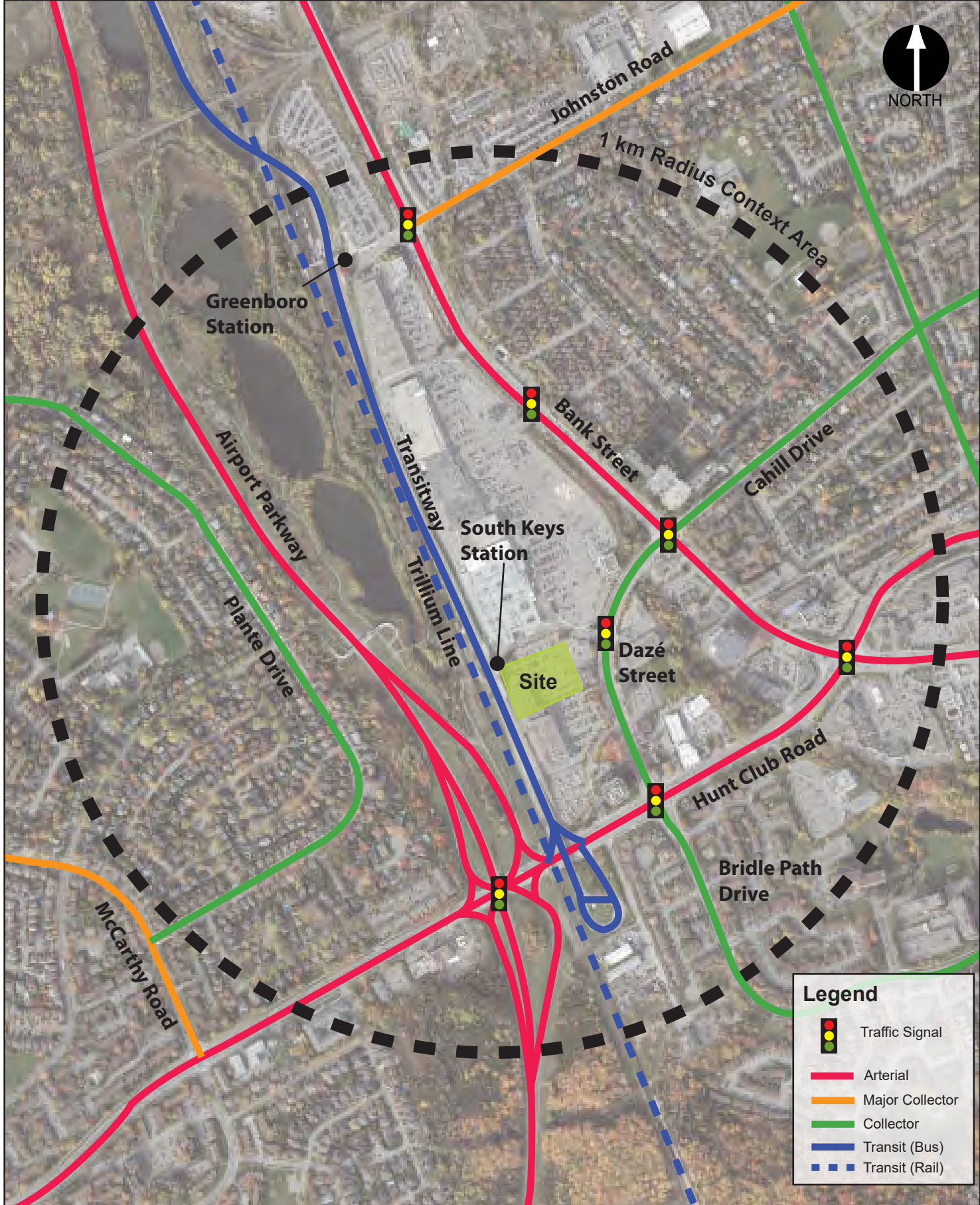
Phase 1 of the proposed development will provide 180 structured vehicle parking spaces and 300 bicycle parking spaces. In addition to this, 94 surface parking spaces will be retained for the

existing restaurant and 126 surface spaces will be retained for the movie theatre as part of the Phase 1 development. The configuration of the proposed development is illustrated in **Exhibit 2**. The parking facility will occupy two levels within the above-grade podium.

The proposed development forms part of a 4-Phase Master Plan. The full Master Plan is expected to be built out no sooner than 15 years after Phase 1 occupancy and will ultimately accommodate a total of approximately 1,554 residential units and a nominal amount of service retail to support the needs of future residents. The Master Plan is found in **Exhibit 3**.

### **3.1.3 Development Phasing & Date of Occupancy**

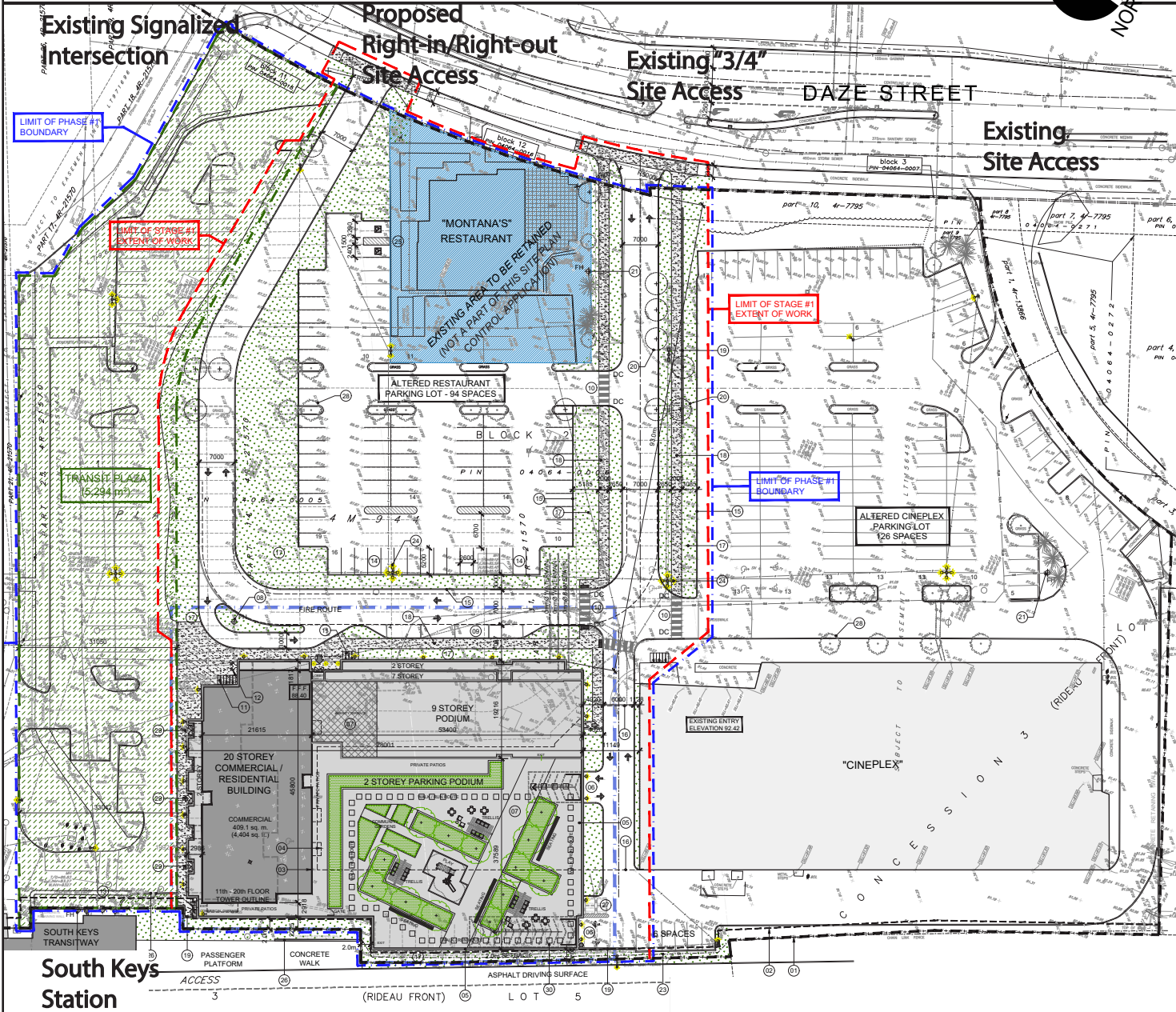
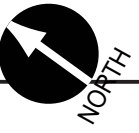
It is expected that Phase 1 will be constructed and fully occupied by 2026, followed by full build-out of all phases by 2041. If applicable, the specific timeline of any required infrastructure improvements will be identified in the Analysis section of this report.

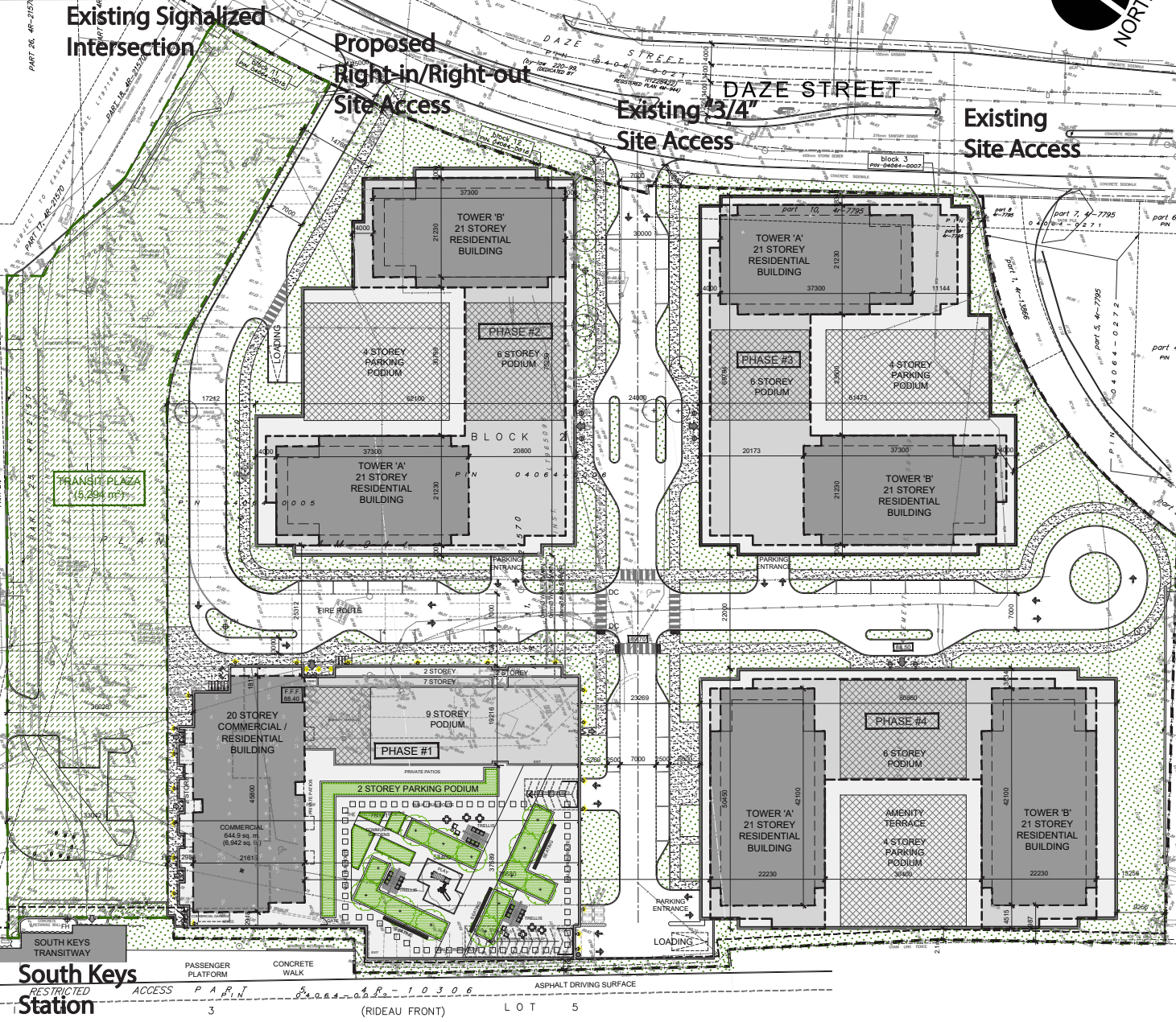


**Legend**

- Traffic Signal
- Arterial
- Major Collector
- Collector
- Transit (Bus)
- Transit (Rail)







**South Keys Station**

## 3.2 Existing Conditions

### 3.2.1 Existing Road Network

#### 3.2.1.1 Roadways

The proposed development is bound by the following street(s):

- **Dazé Street** is an urban collector road under the jurisdiction of the City of Ottawa that connects Hunt Club Road with Bank Street while providing access to several commercial areas in the vicinity along with direct access to the proposed site. Dazé Street has a four-lane divided cross-section with a posted speed limit of 50 km/h and a right-of-way of approximately 33.5 metres along the frontage of the proposed development site.

Other streets within the context area of the proposed development are as follows:

- **Bank Street** is an urban arterial road under the jurisdiction of the City of Ottawa that extends north-south from Wellington Street to City Limits where it becomes Highway 31. It has a posted speed limit of 60 km/h and typically consists of a four-lane cross-section with a right-of-way of 37.5m.
- **Hunt Club Road** is an urban arterial road under the jurisdiction of the City of Ottawa that extends east-west from Riverside Drive to the Trans-Canada Highway. Further west, Hunt Club Road becomes West Hunt Club Road. Within the context area, it generally has a four-lane divided cross-section, a posted speed limit of 60 km/h, and a right-of-way of 44.5m.
- **Airport Parkway** is a rural arterial road under the jurisdiction of the City of Ottawa that extends south from Heron Road until Uplands Drive and Lester Road. It consists of a two-lane cross-section along with a posted speed limit of 80 km/h and there is an existing protected corridor for this roadway.

#### 3.2.1.2 Driveways Adjacent to Development Access

There are three existing driveways along Dazé Street within 200m of the proposed site that service commercial properties:

- One all movement access driveway located approximately 140m north of the Hunt Club Road and Dazé Street intersection providing access to the site as well as the adjacent office tower at 1145 Hunt Club Road,
- One right-turn exit-only driveway located approximately 60m south of the Dazé Street & South Keys Shopping Centre intersection,
- A “3/4 Access” located 80m south of the Dazé & South Keys intersection that serves the proposed development site.

#### 3.2.1.3 Intersections

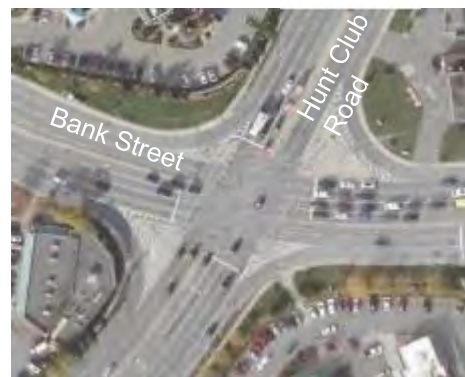
The following major intersections exist within the vicinity of the proposed development:



- **Bank Street & Dazé Street** is a four-legged signalized intersection. The south leg consists of a single auxiliary left-turn lane, a single through lane, and a shared through-right lane. The north leg consists of a single auxiliary left-turn lane, two through lanes, and a channelized right-turn lane. There is a through traffic restriction on both sidestreet approaches. The west leg has a single dedicated left- and right-turn auxiliary lanes, while the east leg consists of a single dedicated left- turn lane and a channelized right-turn lane. Zebra crosswalks are present on all approaches and a bike lane exists on both the east and west legs and in the southbound direction on Bank Street.



- **Dazé Street & South Keys Shopping Centre** is a four-legged signalized intersection that provides access to the South Keys Shopping Centre surface parking facilities through both the east and west legs. The east leg consists of a single shared lane and the west leg consists of an auxiliary left-turn lane along with a shared through-right lane. The north and south legs both consist of single auxiliary left-turn lanes, one through lane, and single shared through-right turn lanes. Crosswalks exist on all approaches.



- **Bank Street & Hunt Club Road** is a four-legged signalized intersection. The north and south legs both consist of two auxiliary left-turn lanes and two dedicated through lanes. The west leg consists of two dedicated through lanes and two auxiliary left-turn lanes, whereas the east leg consists of two dedicated through lanes but only one auxiliary left-turn lane. All approaches of this intersection have channelized right-turn lanes and crosswalks.



- **Hunt Club Road & Dazé Street** is a four-legged signalized intersection. The west leg has two auxiliary left-turn lanes, two dedicated through lanes and one auxiliary right-turn lane that can be used as a through lane by transit and bicycles. The east leg consists of two designated through lanes and one auxiliary left-turn lane along with an auxiliary right-turn lane. The north leg has one designated channelized right-turn lane, one designated through lane, and one auxiliary left-turn lane. The south leg



consists of two auxiliary left-turn lanes, one auxiliary transit through lane, one dedicated through lane, and one channelized auxiliary right-turn lane. All legs consist of a bike lane with the exception of the north leg and all approaches include a crosswalk.

- **Hunt Club Road & Airport Parkway** is a signalized intersection with two off-ramps and two on-ramps for both directions of Airport Parkway. Both off-ramps, the north and south legs, have one dedicated right-turn lane and the northbound off-ramp has only one dedicated left-turn lane whereas the southbound off-ramp has 2 dedicated left-turn lanes. Both the west and the east legs of the intersection consists of one auxiliary left-turn lane, two through lanes, and a channelized right-turn lane onto an on-ramp along with a bike lane. U-turns are not permitted in the eastbound and westbound directions and all legs include a zebra crosswalk with the exception of the east leg.

The intersection control and lane configurations for the intersections described above are shown in **Exhibit 4**.

#### **3.2.1.4 Traffic Management Measures**

There are no specific traffic calming measures in effect within the context area. Existing measures in place to control traffic include a concrete median on Dazé Street to restrict left-turn movements out of the proposed development site, and a through-traffic prohibition from Dazé Street to Cahill Drive. Commercial truck traffic is also prohibited on Cahill Drive.

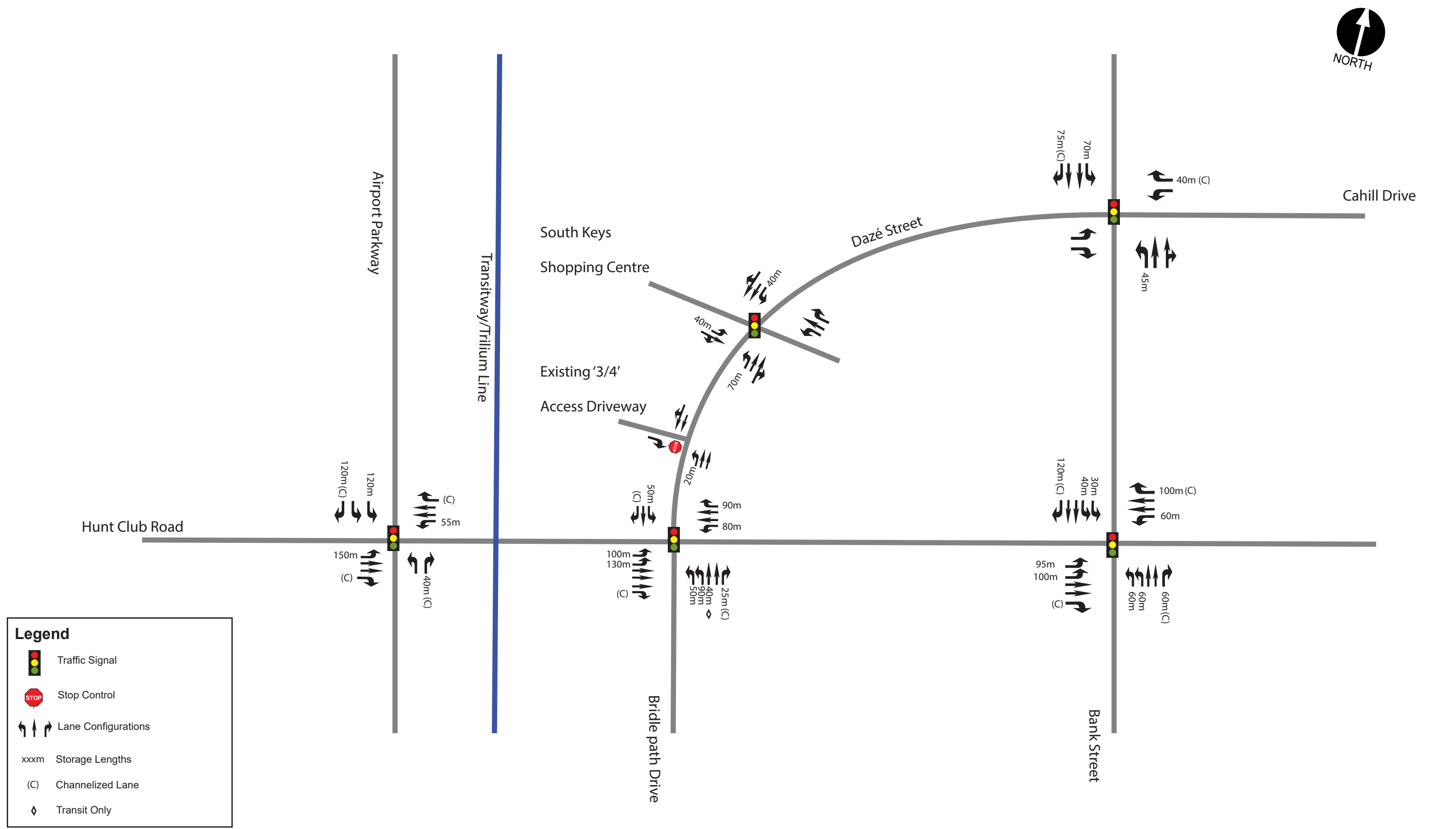
#### **3.2.1.5 Existing Traffic Volumes**

As the proposed development will primarily consist of residential land uses, the weekday peak hour traffic conditions will be most affected by the increase in traffic. Weekday morning and afternoon peak hour turning movement counts were therefore obtained from the City of Ottawa at the following intersections and can be found in **Appendix B**:

- Bank Street & Hunt Club Road (City of Ottawa, November 2019)
- Airport Parkway & Hunt Club Road (City of Ottawa, November 2019)
- Bank Street & Cahill Drive/ Dazé Street (City of Ottawa, September 2015)
- Dazé Street & South Keys Shopping Centre (City of Ottawa, April 2018)
- Hunt Club Road & Bridle Path Drive/ Dazé Street (City of Ottawa, March 2019)

Peak hour traffic volumes representative of existing conditions are shown in **Exhibit 5**. It is acknowledged that the traffic data referenced above is more than 3 years old. Due to the COVID-19 pandemic, which was ongoing at the time when this component of the TIA was completed, it was not possible to conduct turning movement counts at any of the above noted intersections representative of typical weekday conditions. A growth rate was therefore applied to approximate

existing traffic volumes. Justification of background growth rates is discussed further in the Forecasting section of this TIA.



**Legend**

- Traffic Signal
- Stop Control
- Lane Configurations
- xxxm Storage Lengths
- (C) Channelized Lane
- Transit Only

# Legend



Traffic Signal

xxx (xxx) Weekday AM (PM) Peak Hour Volume

← xxx (xxx) → Pedestrian Volume

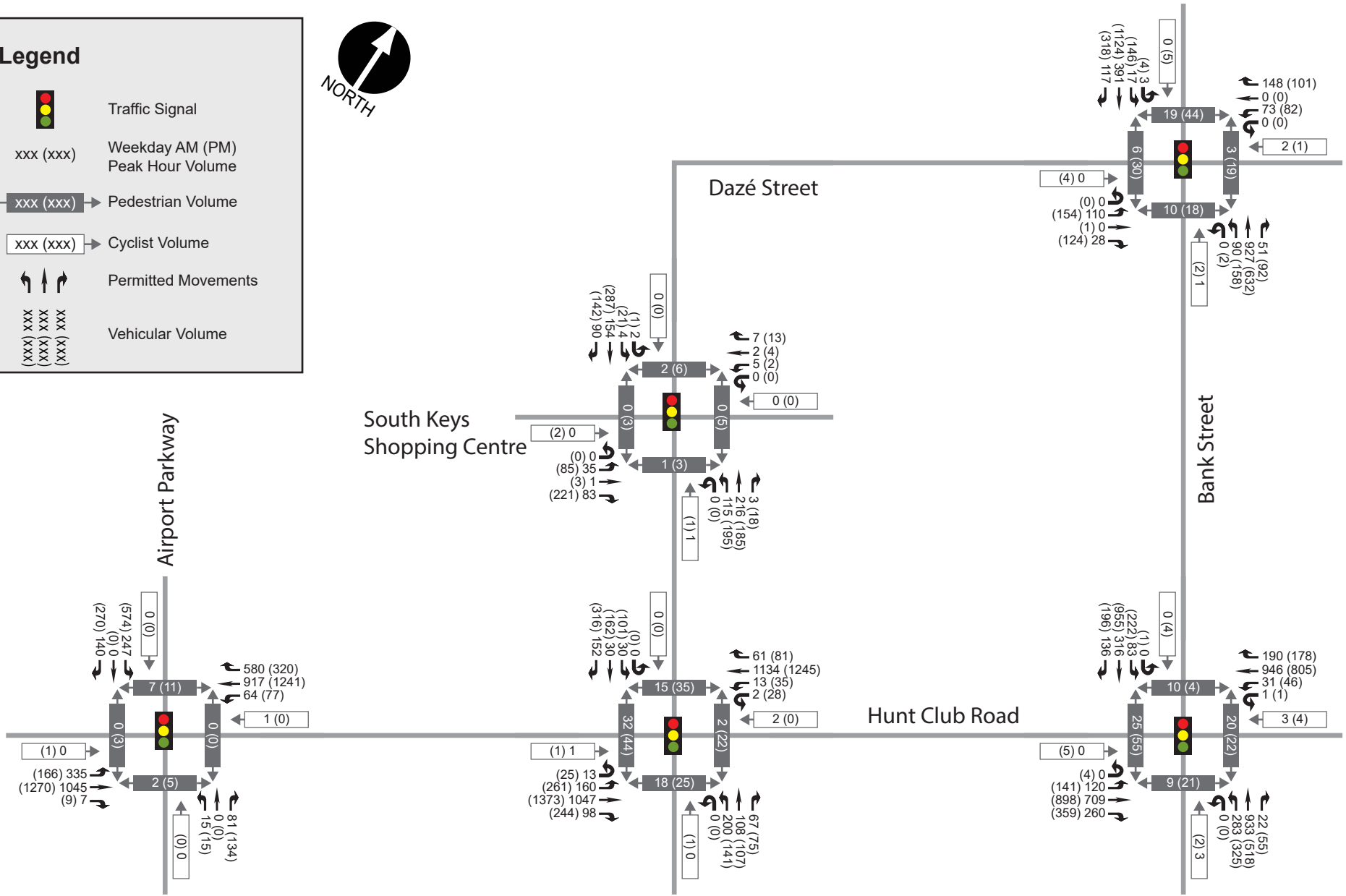
xxx (xxx) → Cyclist Volume

↔ Permitted Movements

xxx (xxx)  
xxx (xxx)  
xxx (xxx)  
Vehicular Volume



NORTH





### 3.2.2 Existing Bicycle and Pedestrian Facilities

Pedestrian facilities are provided on most roads within the context area including concrete sidewalks on both sides of Dazé Street, Hunt Club Road and Bank Street.

There are bicycle lanes provided on Hunt Club Road in both directions throughout the context area as well as on Bank Street travelling south in some sections.

Sawmill Creek Pathway extends north from Hunt Club Road along Airport Parkway and connects to the existing South Keys Station.

### 3.2.3 Existing Transit Facilities and Service

An existing Bus Rapid Transit (BRT) station is located immediately adjacent to the proposed Phase 1 towers at the northwest corner of the site. This station provides rapid transit connectivity to the city-wide network and is one stop south of the existing O-Train Trillium Line (line 2) terminus.

The following transit routes, operated by OC Transpo, exist within the vicinity of the site:

- **Route #2** provides regular, all-day service between South Keys and Bayview Station and operates on 12-minute headways during peak periods and weekends.
- **Route #6** provides regular, all day service between Greenboro Station and Maple Lane/Springfield on 15-minute headways during peak periods. On weekends service is reduced to 30-minute headways.
- **Route #40** provides regular, all day service between Greenboro Station and St-Laurent Station on 15- to 30- minute headways. On weekends service is reduced to 30-minute headways.
- **Route #90** provides regular, all-day service between Greenboro Station and Hurdman Station on 15-minute headways during peak periods. On weekends service is reduced to 30-minute headways.
- **Route #92** provides regular, all-day service between Greenboro Station and Hurdman Station on 15-minute headways during peak periods and weekends.
- **Route #93** provides regular, all-day service between Greenboro Station and Leirtrim Station on 30-minute headways during peak hours and weekends.
- **Route #96** provides regular, all day service from Merivale Mall to Greenboro Station with 60-minute headways and provides service to Hurdman Station in the afternoon peak period with 20-minute headways
- **Route #97** provides regular, all-day service between Airport Stop and Hurdman Station on 30-minute headways during peak periods and weekends. Service to Hurdman station and Rideau Station is also available during the early morning hours.
- **Route #98** provides regular, all-day service between Hurdman Station and near the Hunt Club Road and Hawthorne Road intersection on 30-minute headways during peak periods and weekends.
- **Route #99** provides regular all-day service from Greenboro Station to Barrhaven Centre with 15- and 30-minute headways during peak periods and weekends and provides service to Hurdman Station during weekday morning and afternoon peak periods with 15-minute headways.
- **Route #197** provides regular, all-day service between Greenboro Station and Uplands following a loop that encompasses the EY Centre with 30-minute headways.

- **Route #198** provides service from Greenboro Station to Riverview Station during the peak morning period with 45-minute headways.
- **Route #199** provides weekday peak period service from Hurdman Station to Leikin with 60-minute intervals in the morning peak period.
- **Route #294** provides weekday morning peak service from Findlay Creek/Willowmere to Hurdman Station on 30-minute headways and weekday evening peak service from Hurdman Station to Findlay Creek/Willowmere on 20-minute headways. This route does not provide service on weekends.
- **Route #299** provides weekday peak period service from Hurdman Station to Manotick with 60-minute intervals in the morning peak period.

Transit service maps for the individual routes above are provided in **Appendix C**. Bus stops serving local transit routes are also located within closest proximity to the site at either end of Dazé Street at Bank Street and at Hunt Club Road, as shown in **Figure 1**. It is important to note also that the proposed development is located entirely within a Transit-Oriented Development (TOD) zone, which is defined as being within 600 metre radial distance of a rapid transit station.

Figure 1 - Bus Stops



Source: [plan.octranspo.com/plan](http://plan.octranspo.com/plan)

### 3.2.4 Collision History

A review of historical collision data has been undertaken for the boundary streets with the vicinity of the proposed development. The TIA Guidelines require a safety review if at least six collisions for any one movement or of a discernible pattern, over a five-year period have occurred. **Table 2** summarizes all reported collisions between January 1, 2015 and December 31, 2019. A review of

more recent collision history has not been undertaken as the accuracy of the data would be negatively influenced by reduced traffic volumes and altered travel patterns during the COVID-19 pandemic.

Table 2 – Reported Collisions within Vicinity of Proposed Development

LOCATION	# OF REPORTED COLLISIONS
<b>INTERSECTIONS</b>	
Bank Street & Hunt Club Road	139
Airport Parkway & Hunt Club Road	80
Bank Street & Cahill Drive/Dazé Street	47
Dazé Street & South Keys Shopping Centre	5
Hunt Club Road & Bridle Path Drive/Dazé Street	80
<b>SEGMENTS</b>	
Dazé Street – 200 W of Bank Street & Bank Street	3
Dazé Street – Hunt Club Road & 200 W of Bank Street	7

Based on a preliminary review of the collision history within the context area of the site, the above noted intersection and road segments with more than six collisions over the five-year period would require further review in the Analysis component of this report.

Another method of evaluating the relative magnitude of collision frequency at one intersection compared to another is to quantify the average historical number of collisions against the daily volume of traffic entering the intersection. This is commonly expressed in terms of Million Vehicles Entering (MVE) and a rate of greater than 1.0 is considered significant. Daily intersection volumes are based on the Average 24-hour Traffic volumes provided with City turning movement counts.

The above noted intersections are therefore calculated as having average collision frequencies per MVE values:

- Bank Street & Hunt Club Road – 1.48
- Airport Parkway & Hunt Club Road – 0.86
- Bank Street & Cahill Drive/Dazé Street – 0.77
- Dazé Street & South Keys Shopping Centre – 0.24
- Hunt Club Road & Bridle Path Drive/Dazé Street – 0.91

Of the five intersections evaluated above, one has a frequency in excess of 1.0 and may be considered significant. Detailed collision records are provided in **Appendix D**.



Source: <https://ottawa.ca/en/south-keys-blossom-park-bank-street-community-design-plan>

### 3.3.1.2 Future Transit Facilities and Services

The 2013 TMP outlines the future rapid transit and transit priority (RTTP) network. The following project was noted in the 'Affordable RTTP Network' that may have a future impact on study area traffic:

- Stage 2 Light Rail Transit Project O-Train South Extension** – Extension of the Trillium Line from its current terminus at Greenboro Station to Bowesville Station. The *Trillium Line Extension Planning and Environmental Assessment (EA) Study (January 2016)* and the *Trillium Line Light Rail*

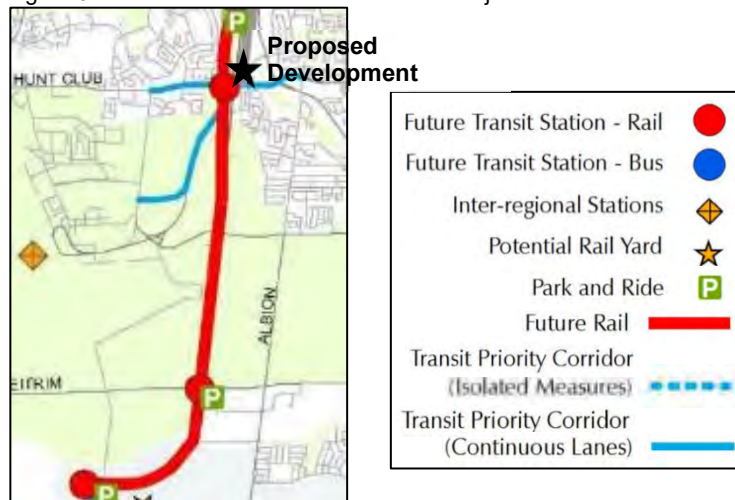


Source: Stage 2 LRT Website

*Transit Extension Addendum (September 2018)* both expand upon the TMP. The Trillium Line will now extend to Limebank Road with a spur line to the Ottawa International Airport. Based on the official City of Ottawa Stage 2 LRT website, the Trillium Line South Extension is expected to begin revenue service in spring 2024. This extension accommodates the planned widening of Airport Parkway and Lester Road and allow for the use of high-capacity transit vehicles. The Trillium Line Extension has been constructed with single-track configuration with segments of twinned track and service will be limited to 12-minute frequency during peak periods. As part of LRT Stage 2, there are 5 stations located south of the South Keys Station and connections to the BRT network, beyond providing service to/from Barrhaven and Riverside South.

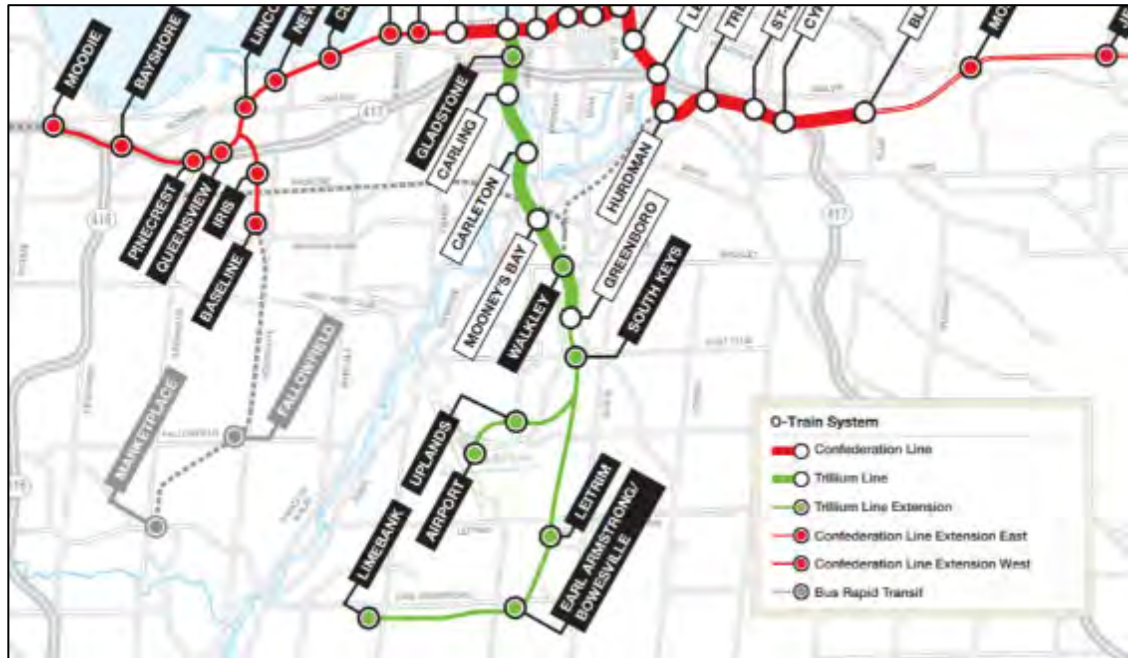
**Figure 3** shows the transit infrastructure projects in the vicinity of the proposed development that are part of the TMP's 2031 Affordable Network. **Figure 4** below illustrates the proposed O-Train Trillium Line Extension.

Figure 3 - Future 'Affordable RTTP Network Projects'



Source: 2013 Transportation Master Plan – Map 5 '2031 Affordable Network'

Figure 4 - Stage 2 LRT - Trillium Line Extension



Source: Stage 2 LRT Website – Trillium Line South Highlight Summary

### 3.3.1.3 Future Cycling and Pedestrian Facilities

The 2013 Ottawa Cycling Plan (OCP) designates Bank Street and Hunt Club Road as 'Spine Routes', which form part of a system linking the commercial, employment, institutional, residential and educational nodes throughout the City of Ottawa. Portions of Airport Parkway are considered both "Spine Routes" and "Major Pathways". As shown in **Figure 5**, Dazé Street is designated as a 'Local Route', providing connections between 'Spine Routes' and 'Major Pathways' that are available on both Hunt Club Road and Bank Street.

The 2031 Affordable Cycling Project List from the OCP mentions the Hunt Club Neighbourhood Bikeway Extension to Airport Parkway Bridge that is included in Phase 2 of the Cycling Plan. This extension of the bikeway will tie into the proposed transit plaza using shared use lanes.

Figure 5 - Cycling Plan – Ultimate Cycling Network



Source: GeoOttawa

As part of the Active Transportation Projects List which was approved by Transportation Committee and Council as part of the TMP Update (Part 1) in the spring of 2023, cycling facilities are planned on Cahill Drive and Dazé Street from Southgate Road to 200 metres south of Bank Street.

### 3.3.2 Future Adjacent Developments

The City of Ottawa Transportation Impact Assessment (TIA) Guidelines specify that all significant developments proposed within the surrounding area which are likely to occur within the study’s horizon year must be identified and taken into consideration in the development of future background traffic projections.

All current development applications of significance within the context area have been identified and are summarized in **Table 3** below.

Table 3 – Future Adjacent Developments

DEVELOPMENT	LAND USE	EXPECTED BUILD-OUT YEAR
12370 Hunt Club Rental	Residential – 77 units	2021 <sup>1</sup>
20 Mountain Crescent	Residential – 151 units	2022 <sup>2</sup>
2425-2431 Bank Street	Residential – 144 units	2021 <sup>2</sup>

*Note: <sup>1</sup>This development has since been completed, however it is still considered an adjacent development due to the TMC data used in this study which predates its completion.*

*<sup>2</sup>The anticipated build-out date has passed, therefore it was assumed that this development will be completed by the 2026 analysis year.*

All known developments of significance in the vicinity of the proposed development that are either in the development application approval process, are in pre-construction or are in varying stages of construction are shown in **Exhibit 6** below.





### 3.3.3 Network Concept Screenline

A screenline is an artificial boundary between areas of major traffic generation that captures all significant points of entry from one area to another to compare crossing demand with the available roadway capacity. Screenlines are typically located along geographical barriers such as rivers, rail lines or within the greenbelt. To capture existing flow and model future demand, count stations are established by the City of Ottawa at each crossing point along the screenline.

The nearest strategic planning screenlines adjacent to the development have been identified:

- **SL13 – CNR East** – This is the nearest east/west screenline to the proposed development, and it follows the Canadian National Railroad (CNR) rail line from the Rideau River to the TransCanada Highway. This screenline has six crossing points: Riverside Drive, McCarthy Road, Airport Parkway, Bank Street, Conroy Road and Hawthorne Road.
- **SL20 – Rideau River - South** – This is the nearest north/south screenline to the proposed development, and it follows the Rideau River from Carleton University to Black Rapids Lockstation. This screenline has three crossing points: Hunt Club Bridge, Hogs Back Bridge and Heron Road Bridge.

SL13 and SL20 are shown in **Figure 6**, as determined from the City of Ottawa’s Road Network Development Report (2013), a supporting document to the 2013 Transportation Master Plan (TMP).

Figure 6 - Screenlines



Source: TRANS Screenline System (2010)

### 3.4 Study Area

With consideration of the information presented thus far, the following intersections have been identified as being most impacted by the proposed development and will be assessed for vehicular capacity as part of this study:

- Bank Street & Hunt Club Road
- Airport Parkway & Hunt Club Road
- Bank Street & Cahill Drive/ Dazé Street
- Dazé Street & South Keys Shopping Centre
- Hunt Club Road & Bridle Path Drive/ Dazé Street
- Proposed Site Access Driveway on Dazé Street

Beyond the bounds of the above noted study area intersections, site-generated traffic impacts are expected to be minimal. Motorists have a variety of options to access the broader arterial road network surrounding the site, resulting in a dispersion of vehicular demand within the periphery of the context area. Furthermore, sustainable transportation modes are expected to represent a significant proportion of the overall site generation due to the proximity of this development to an existing bus rapid transit station, including direct access to light rail prior to the proposed development's first occupancy.

Multi-Modal Level of Service (MMLOS) analysis will be conducted for all intersections with the exception of the proposed site access driveway which is expected to remain unsignalized. This assumption will be verified during the Analysis component of this study. Segment-based MMLOS analysis will be limited to Dazé Street along the proposed development's frontage.

### 3.5 Time Periods

As a primarily residential development, traffic generated during the weekday morning and afternoon peak hour is expected to result in the most significant impact to traffic operations on the adjacent road network in terms of combined development-generated and background traffic. These two time periods will therefore be considered for operational analysis in this study.

### 3.6 Analysis Years

The following analysis years will be assessed in this study:

- Existing Conditions
- Year 2026 – Phase 1 Occupancy
- Year 2031 – 5 years Beyond Occupancy of Phase 1
- Year 2041 – Full build-out / Occupancy of Phases 1-4 in Master plan

### 3.7 Exemptions Review

The TIA Guidelines provide exemption considerations for elements of the Design Review and Network Impact components. **Table 4** summarizes the TIA modules that are not applicable to this study.

Table 4 - Exemptions Review

TIA MODULE	ELEMENT	EXEMPTION CONSIDERATIONS	REQUIRED
<b>DESIGN REVIEW COMPONENT</b>			
4.1 Development Design	4.1.2 Circulation and Access	<ul style="list-style-type: none"> <li>Only required for site plans</li> </ul>	✓
	4.1.3 New Street Networks	<ul style="list-style-type: none"> <li>Only required for plans of subdivision</li> </ul>	✗
4.2 Parking	4.2.1 Parking Supply	<ul style="list-style-type: none"> <li>Only required for site plans</li> </ul>	✓
	4.2.2 Spillover Parking	<ul style="list-style-type: none"> <li>Only required for site plans where parking supply is 15% below unconstrained demand</li> </ul>	✗
<b>NETWORK IMPACT COMPONENT</b>			
4.5 Transportation Demand Management	All Elements	<ul style="list-style-type: none"> <li>Not required for site plans expected to have fewer than 60 employees and/or students on location at any given time</li> </ul>	✓
4.6 Neighbourhood Traffic Management	4.6.1 Adjacent Neighbourhoods	<ul style="list-style-type: none"> <li>Only required when the development relies on local or collector streets for access and total volumes exceed ATM capacity thresholds</li> </ul>	✓
4.8 Network Concept	n/a	<ul style="list-style-type: none"> <li>Only required when proposed development generates more than 200 person-trips during the peak hour in excess of the equivalent volume permitted by established zoning</li> </ul>	✓

## 4 Forecasting

### 4.1 Development Generated Traffic

#### 4.1.1 Trip Generation Methodology

Peak hour site-generated traffic volumes were developed using the 2020 TRANS Trip Generation Manual Summary Report. The TRANS trip generation rates are based on findings from three sources: 49 local generator surveys, the 2011 TRANS Origin-Destination (OD) Survey and the ITE Trip Generation Manual (11<sup>th</sup> Edition).

There are specified person-trip rates for three primary residential land use categories in the 2020 TRANS Trip Generation Summary Report and a specific person-trip conversion factor to allow for other vehicle-trip rates to be used from the ITE Trip Generation Manual for non-residential land uses. The specified residential rates are applied for either the peak AM or PM period.

The person-trips were then subdivided based on representative mode share distributions applicable to the study area to determine the number of auto driver, auto passenger, transit, pedestrian and cycling trip types. A conversion factor is applied to determine the peak AM or PM hour person-trips.

Estimated mode share distributions for existing conditions representing 26 districts in the Ottawa-Gatineau area were developed using the 2011 O-D Survey. They are available for several land uses including residential, schools, employment generators and commercial generators. As the 2011 O-D Survey data considers a large geographical area, it likely represents a larger share of auto driver trips than would be expected for a development directly adjacent to a rapid transit station.

#### 4.1.2 Trip Generation Results

##### 4.1.2.1 Peak Period Person-Trip Generation

Peak period person-trip volumes associated with the South Keys Phase 1 High-Rise development were derived using the peak period trip generation rates in the 2020 TRANS Trip Generation Summary Report.

The ground floor commercial area included in the proposed development is not explicitly accounted for in the trip generation due to its small footprint and, by extension, the low number of trips that these uses would be expected to generate which would have negligible traffic impacts on the study area intersections. This will be explained in more detail in Section 4.1.2.5 of this report. The peak period person-trip generation results for the proposed development have been summarized in **Table 5**. Relevant sections of the 2020 TRANS Trip Generation Manual can be found in **Appendix E**.

Table 5 – Peak Period Person-Trip Generation Results

LAND USE	SIZE	PERIOD	GENERATED TRIPS		
			IN	OUT	TOTAL
Multi-Unit (High-Rise) Residential – Phase 1	290 units	AM	72	160	232
		PM	151	110	261
Multi-Unit (High-Rise) Residential – Phases 1-4	1,554 units	AM	385	858	1,243
		PM	811	587	1,399

**4.1.2.2 Mode Share Proportions**

The 2020 TRANS Trip Generation Summary Report details existing mode share distributions for several residential land uses for both weekday AM and PM peak hour periods. These are provided from the 2011 TRANS OD Survey and are representative of the area within the Hunt Club Traffic Assessment Zone (TAZ). The data used to determine these distributions includes only the outbound trips for the AM peak period and only the inbound trips for the PM peak period to ensure that only the residential trips are being represented by the mode share proportions.

Relevant extracts from the 2011 O-D Survey are provided in **Appendix E**.

Mode share targets for the 2026 and 2031 analysis years were developed using the existing mode share distributions outlined in the 2020 TRANS Trip Generation Summary Report and the City’s 15% auto / 85% non-auto ultimate target for Transit-oriented Development (TOD) zones, which was assumed to be achievable by the 2041 study horizon year..

It has been assumed that any growth in transit mode share would result in a corresponding decrease in auto driver and auto passenger mode share and that all other mode shares would remain constant through to 2031. **Table 6** summarizes the 2020 TRANS mode share distributions as well as the 2026, 2031 and 2041 target mode share distributions.

Table 6 – 2020 TRANS Mode Shares and Proposed Mode Share Targets

TRAVEL MODE	2020 TRANS MODE SHARE TARGETS		2026 MODE SHARE TARGETS	2031 MODE SHARE TARGETS	2041 MODE SHARE TARGETS
	AM	PM			
Auto Driver	39%	44%	30%	27%	15%
Auto Passenger	6%	11%	6%	5%	5%
Transit	44%	35%	53%	57%	65%
Cycling	1%	2%	2%	2%	3%
Walking	9%	9%	9%	9%	12%
<b>TOTAL</b>	<b>99%</b>	<b>101%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**4.1.2.3 Trip Generation by Mode**

The 2026, 2031 and 2041 mode share targets (**Table 6**) were applied to the number of development-generated person-trips to determine the number of trips per travel mode for the peak periods, as summarized in **Table 7**.

Table 7 – Peak Period Person-Trips by Mode

MODE	2026				2031				2041			
	AM		PM		AM		PM		AM		PM	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Auto Driver	22	48	45	33	19	43	41	30	58	129	122	88
Auto Passenger	4	10	9	7	4	9	8	5	18	42	42	29
Transit	38	85	80	58	41	91	86	62	251	558	527	382
Cycling	1	3	3	2	1	3	3	2	12	26	24	18
Walking	6	14	14	10	6	14	14	10	46	103	97	70
<b>Total</b>	<b>231</b>		<b>261</b>		<b>231</b>		<b>261</b>		<b>1,243</b>		<b>1,399</b>	

#### 4.1.2.4 Peak Hour Trip Generation

The peak period to peak hour conversion factors for TRANS trip generation rates vary by trip type and are applied to the peak period trips resulting from the mode share distribution.

The results after applying the appropriate conversion factors have been summarized in **Table 8**.

Table 8 – Peak Hour Person-Trips by Mode

MODE	2026				2031				2041			
	AM		PM		AM		PM		AM		PM	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Auto Driver	10	23	20	14	9	21	18	13	28	62	54	39
Auto Passenger	2	5	4	3	2	4	3	2	9	21	18	13
Transit	21	47	38	27	23	50	41	29	138	307	248	179
Cycling	1	2	1	1	1	2	1	1	7	15	12	8
Walking	4	8	7	5	4	8	7	5	27	60	51	37
<b>Total</b>	<b>123</b>		<b>121</b>		<b>123</b>		<b>122</b>		<b>672</b>		<b>657</b>	

#### 4.1.2.5 Trip Reduction Factors

##### Deduction of Existing Development Trips

Phase 1 of the proposed development will replace an existing commercial area made up of two vacant and one occupied commercial retail units. The occupied retail unit has a total area of 455 m<sup>2</sup> (4,900 ft<sup>2</sup>) which is associated with a total of just 8 two-way vehicle trips according to ITE trip rates for the “Apparel Store” land use, and therefore the downstream impact of the deduction of these trips will have a negligible effect on the study area intersections. Similarly, the vehicular impacts of the proposed commercial uses are assumed to be negligible, given the comparable GFA size relative to existing commercial establishments. A high proportion of sustainable trips is anticipated among these proposed ground-floor commercial establishments, given the site’s adjacency to South Keys Station, South Key’s Shopping Centre and its proximity to the Sawmill Creek Pathway network, all of which will contribute to a negligible vehicular impact on the adjacent road network.

By 2041, it is expected that the movie theatre and restaurant located within the subject lands will be replaced by Phases 2 to 4 of the Master Plan. The person trips associated with each land use were developed using ITE trip generation rates and appropriate conversion factors. The 2041 mode share targets outlined in **Table 6** were used to split the person trips into the appropriate modes. The total vehicle trips after the mode share associated with the movie theatre and the restaurant are shown in **Table 9**. These trips are to be deducted with the full Phases 1-4 buildout in 2041.



Table 9 - Existing Development Generated Vehicle Trips

LAND USE (ITE CODE)	SIZE	PERIOD	GENERATED VEHICLE TRIPS (VPH)		
			IN	OUT	TOTAL
Movie Theatre 445	~40,800 ft <sup>2</sup>	AM	11	11	22
		PM	23	14	37
High-Turnover (Sit- Down) Restaurant 932	~6,410 ft <sup>2</sup>	AM	6	5	11
		PM	7	4	11

<sup>1</sup> 'Vph' stands for 'vehicles per hour'

The existing development generated trips presented in **Table 9** above were deducted from the adjacent road network based on existing traffic patterns derived from weekday peak hour traffic count data at each of the study area intersections.

Pass-by Traffic

Not Applicable - The residential land use for the proposed development does not generate pass-by trips, therefore the trip reduction factor is not applicable for this land use type.

Synergy/ Internalization

Not Applicable - The residential land use for the proposed development does not require internalization reduction factors. Internalization between the proposed Phase 1 development and existing on-site commercial land uses can be considered negligible and would result in further decrease of site-generated vehicle demand associated with these ground-floor uses.

**4.1.3 Trip Distribution and Assignment**

Trips generated by the proposed development were distributed to the adjacent road network, as shown below. Site-generated traffic was assigned to the adjacent road network based on the morning peak period commuter travel patterns for the Hunt Club Traffic Assessment Zone (TAZ) from the 2011 TRANS Origin-Destination Survey as well as the distribution of relevant employment nodes throughout the City.

- 50% to/from North
  - 60% on Airport Parkway
  - 40% on Bank Street
- 15% to/from South
  - 50% on Bank Street
  - 25% on Airport Parkway
  - 25% on Albion Road (via Bridle Path Drive)
- 15% to/from East
  - 60% on Hunt Club Road
  - 40% on Walkley Road (via Bank Street)
- 20% to/from West
  - 100% on Hunt Club Road

Utilizing the estimated number of new auto trips and applying the above distribution, future site-generated traffic volumes for the 2026 and 2031 analysis years are illustrated for each of the study area intersections in **Exhibit 7** and **Exhibit 8**, respectively. The future site-generated traffic volumes for the full Phases 1-4 build-out year, 2041, can be found in **Exhibit 9**.



**Legend**



Traffic Signal

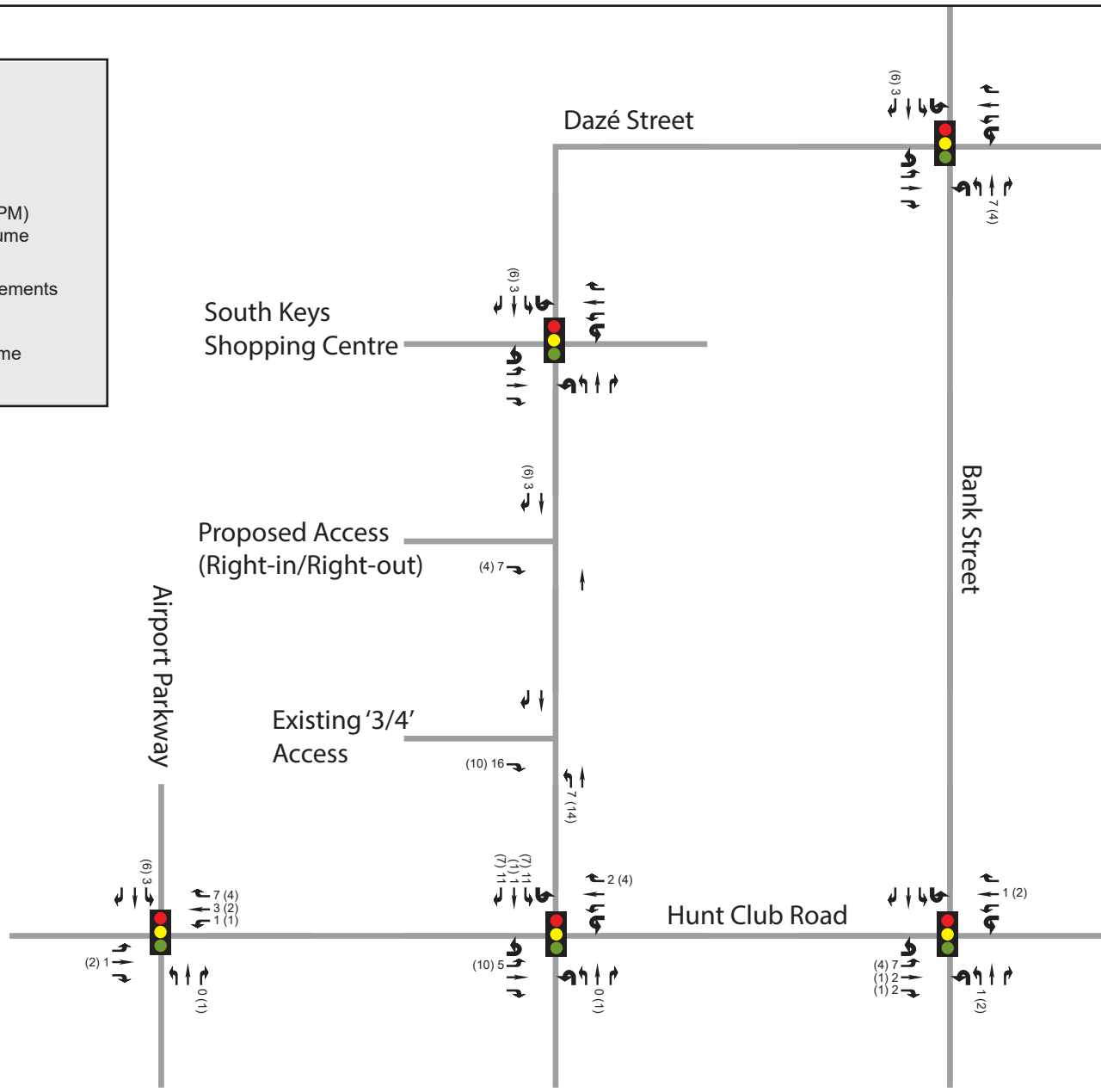
xxx (xxx)  
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements




xxx xxx xxx  
xxx (xxx) xxx (xxx)  
Vehicular Volume

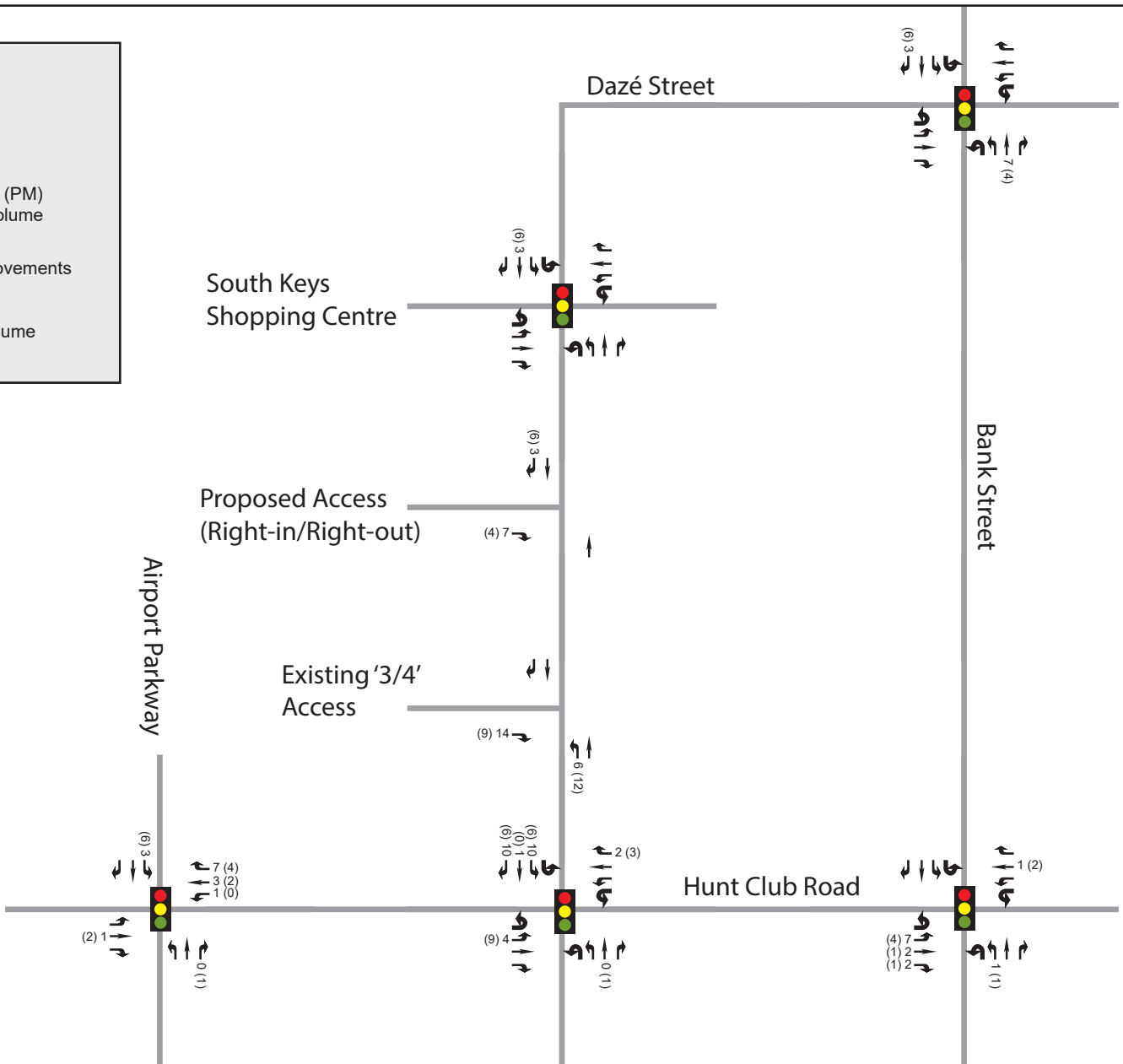
Vehicular Volume





**Legend**

-  Traffic Signal
- xxx (xxx) Weekday AM (PM) Peak Hour Volume
-  Permitted Movements
-  Vehicular Volume





### Legend



Traffic Signal

xxx (xxx)

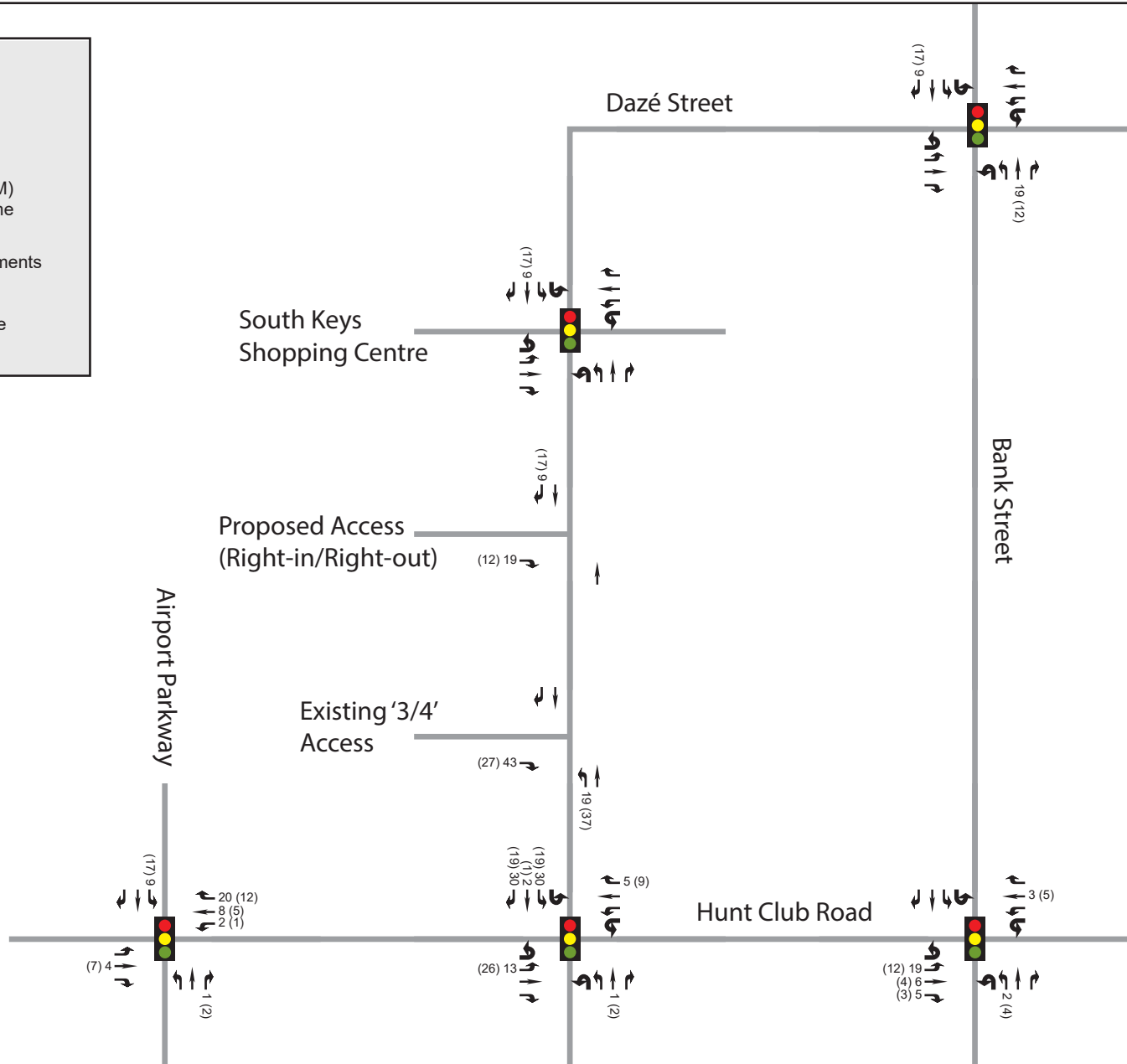
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements

xxx  
(xxx) xxx  
(xxx) (xxx) xxx

Vehicular Volume



## 4.2 Background Network Traffic

### 4.2.1 Changes to the Background Transportation Network

To properly assess future traffic conditions, planned modifications to the transportation network that may impact travel patterns or demand within the study area must be considered. The scoping section of this TIA reviewed the anticipated network modifications within the study area and determined that the most notable network changes planned within the vicinity of the site are the widening of the Airport Parkway from two to four lanes, the implementation of bus lanes on Hunt Club Road between Uplands Drive and Albion Road South, and the Trillium Line extension.

As part of Stage 2 of the Ottawa LRT construction, South Keys Station will be converted from only Bus Rapid Transit (BRT) to Light Rail Transit (LRT) in parallel with BRT and is expected to greatly improve transit service as a result.

### 4.2.2 General Background Growth Rates

The background growth rate is intended to represent regional growth from outside the study area that will travel along the adjacent road network. Consistent with the adjacent development studies conducted with similar study areas, a 0.5% rate of linear growth per annum was applied to through movements on Bank Street, the Airport Parkway and Hunt Club Road within the study area for the calculation of future background traffic. The background growth rate was also applied to all movements at arterial-to-arterial intersections.

### 4.2.3 Other Area Development

Background traffic volume projections for this study area were refined to include the relevant adjacent developments that were discussed previously in this report. All developments were assumed to be fully built-out and operational by the 2026 analysis year. The future background traffic volumes for the study area are shown in **Exhibit 10**, **Exhibit 11** and **Exhibit 12** in Section 4.4.1.

## 4.3 Demand Rationalization

The purpose of this section is to rationalize future travel demands within the study area to account for potential capacity limitations in the transportation network and its ability to effectively accommodate the additional demand generated by a new development.

### 4.3.1 Description of Capacity Issues

#### 4.3.1.1 Bank Street/Hunt Club Road

The Bank Street and Hunt Club Road intersection is identified as having capacity issues within two of the adjacent development TIAs. An optimized signal timing plan is recommended to ensure the intersection is operating at the best possible LOS. As indicated previously, the impacts of site-generated traffic is not expected to be significant at this intersection given the relative magnitude of the proposed development.

### 4.3.2 Adjustment to Development Generated Demands

Development-generated demands were determined based on data from the 2020 TRANS Trip Generation Manual and on travel patterns for the Hunt Club TAZ in the O-D Survey. The combined impact of the Trillium Line extension and of the other notable network changes on existing traffic volumes is accounted for in the adjustments made to the mode share targets for each analysis

year. As indicated previously, the impacts of site-generated traffic are not expected to be significant at this intersection given the relative magnitude of the proposed development.

### **4.3.3 Adjustment to Background Network Demands**

As prescribed in the TIA Guidelines, the effects of peak-hour spreading have been considered in future analysis years of this study. It is anticipated that as traffic volumes continue to gradually increase, trips will have a natural tendency to be more evenly distributed across the peak hour (PHF = 1.0) and eventually increase demands in the shoulders of the peak as well. The impacts of peak hour spreading are accounted for in the Synchro modelling, completed as part of the Analysis component of this study.

As there are identified capacity issues present at the Bank & Hunt Club intersection, changes to the signal timing plan at this intersection may be required to ensure it is operating at peak efficiency.

## **4.4 Traffic Volume Summary**

### **4.4.1 Future Background Traffic Volumes**

Future background traffic volumes were derived by applying a growth rate to existing traffic and superimposing these volumes with future adjacent development volumes.

**Exhibit 10, Exhibit 11** and **Exhibit 12** below present the future background traffic volumes anticipated for the 2026, 2031 and 2041 analysis years, respectively.



### Legend



Traffic Signal

xxx (xxx)

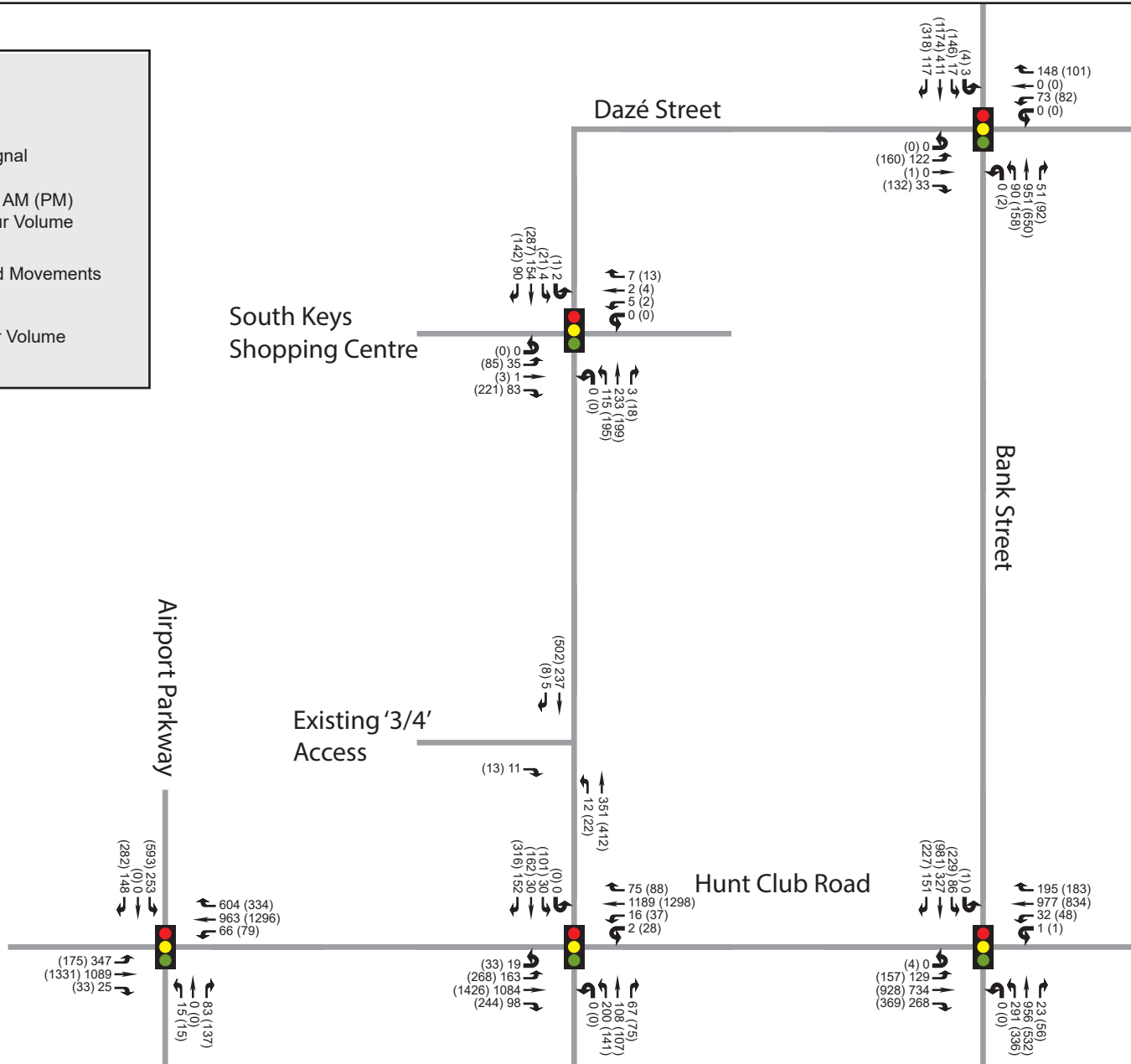
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements

xxx (xxx)  
xxx (xxx)  
xxx (xxx)

Vehicular Volume







### Legend



Traffic Signal

xxx (xxx)

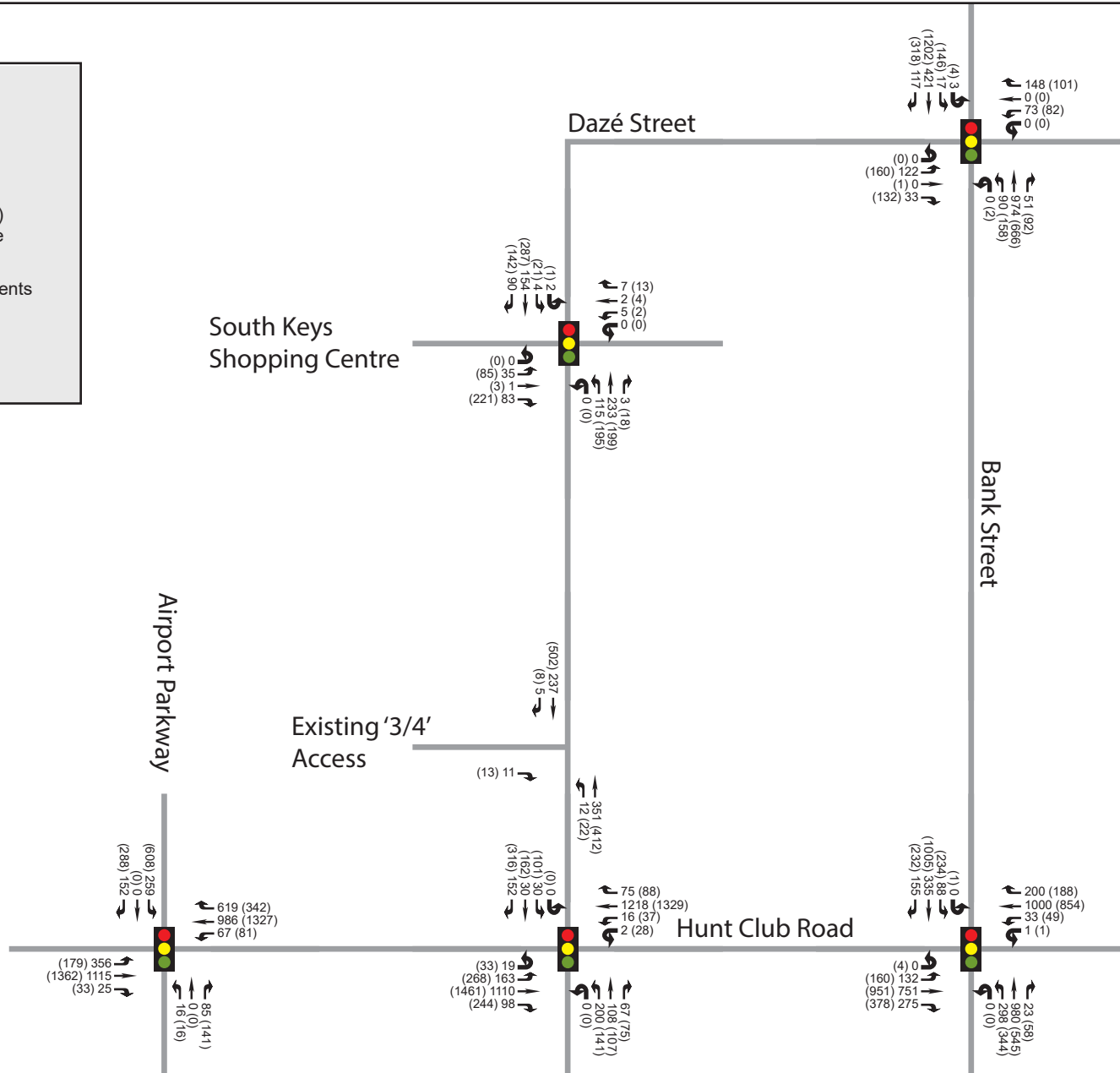
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements



xxx (xxx)  
xxx (xxx)  
xxx (xxx)

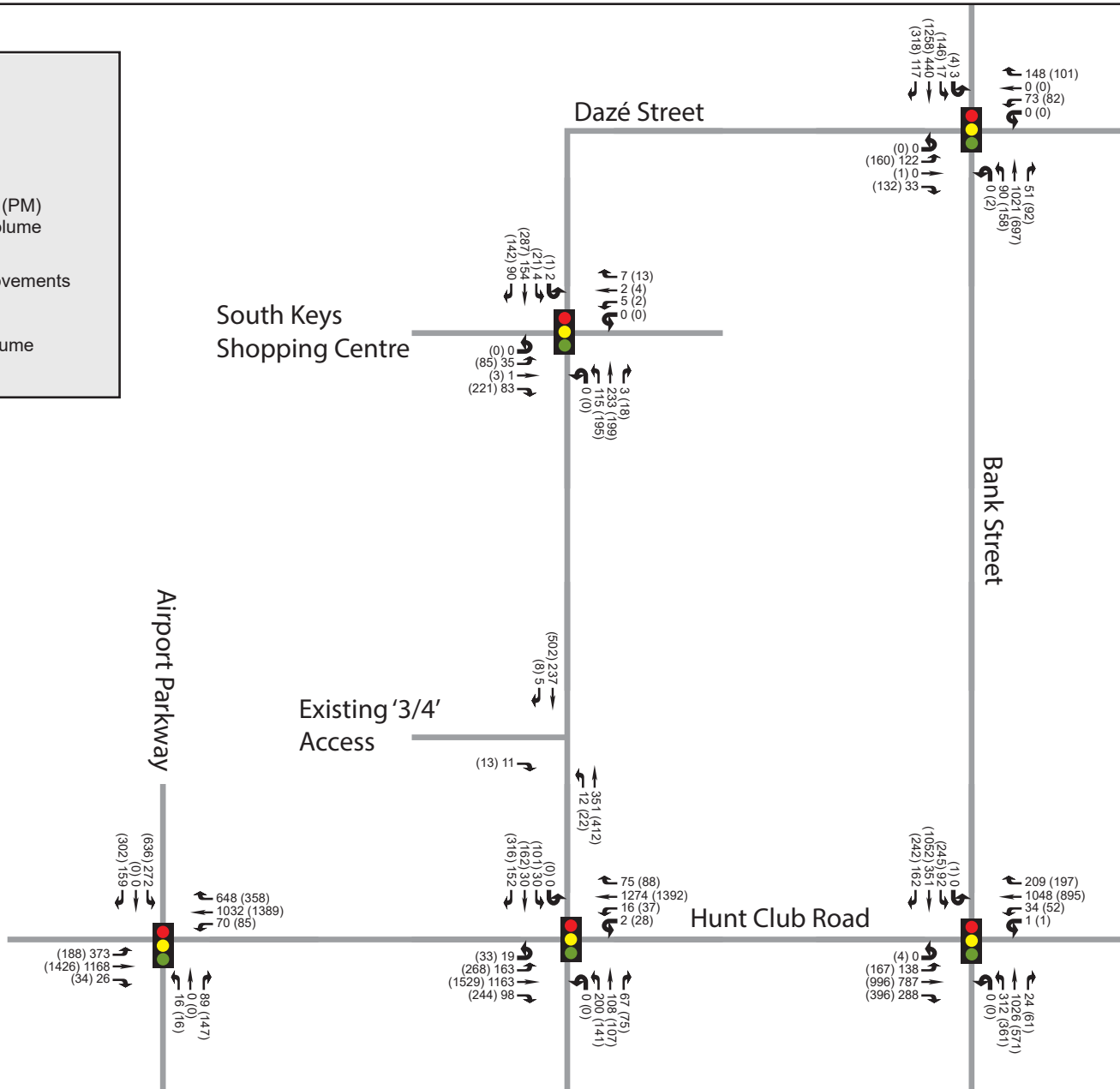
Vehicular Volume





**Legend**

-  Traffic Signal
- xxx (xxx)  
Weekday AM (PM)  
Peak Hour Volume
-  Permitted Movements
- xxx (xxx)  
xxx (xxx)  
xxx (xxx)  
Vehicular Volume



#### **4.4.2 Future Total Traffic Volumes**

As discussed previously, the 2026 and 2031 analysis years for this study were selected based on the year of Phase 1 occupancy and a 5-year horizon after occupancy. The year 2041 is also included as the build-out year for Phases 1-4 of the new development. For the 2041 analysis year, the number of vehicle trips associated with the existing movie theatre and restaurant were deducted from the background traffic as the new development will replace these existing uses.

**Exhibit 13, Exhibit 14** and **Exhibit 15** present the Future (2026), Future (2031) and Future (2041) Total Traffic Volumes, respectively.



**Legend**

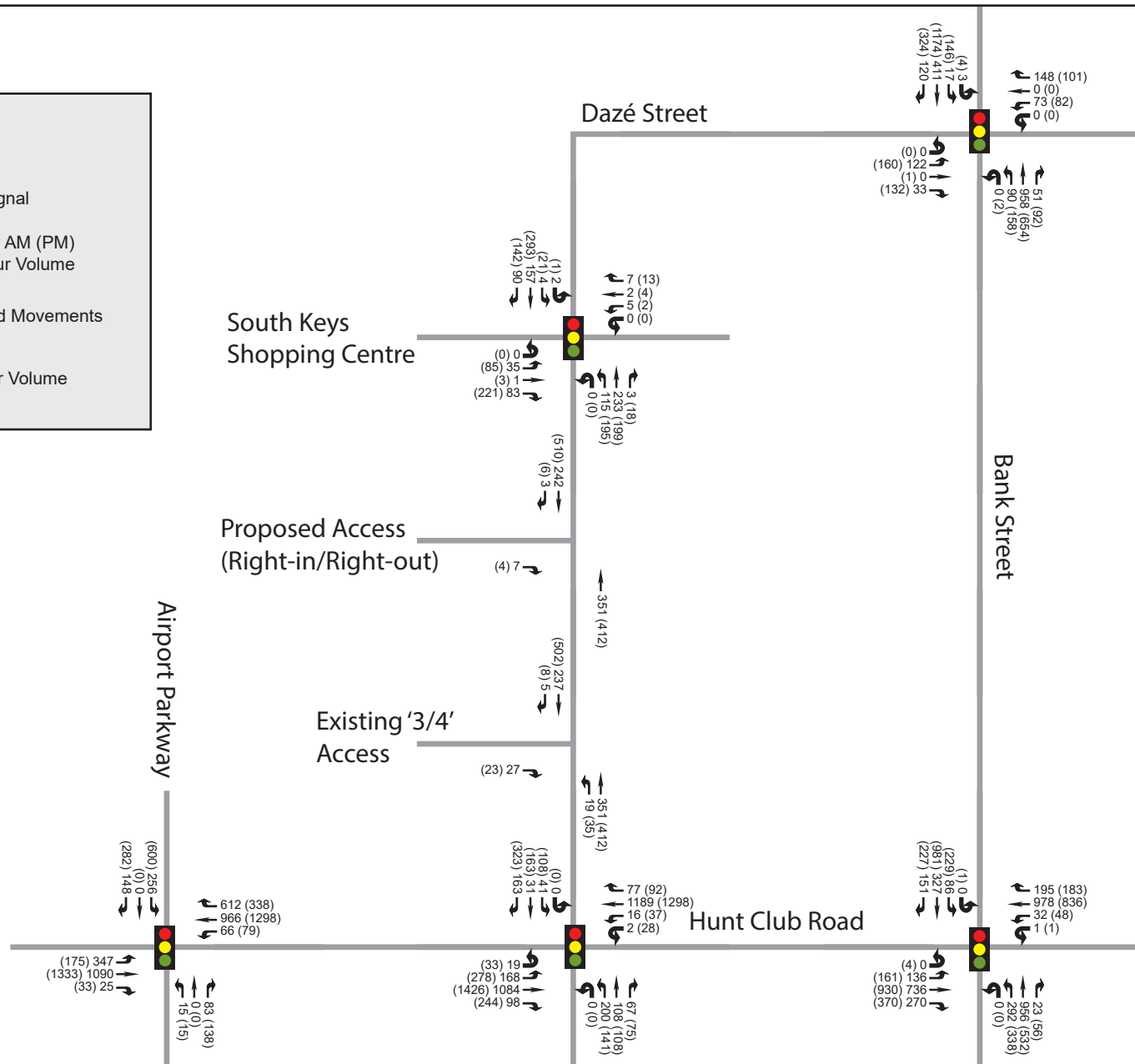


Traffic Signal

xxx (xxx)  
Weekday AM (PM)  
Peak Hour Volume

↔ ↕ ↗  
Permitted Movements

xxx (xxx)  
xxx (xxx)  
xxx (xxx)  
Vehicular Volume





### Legend



Traffic Signal

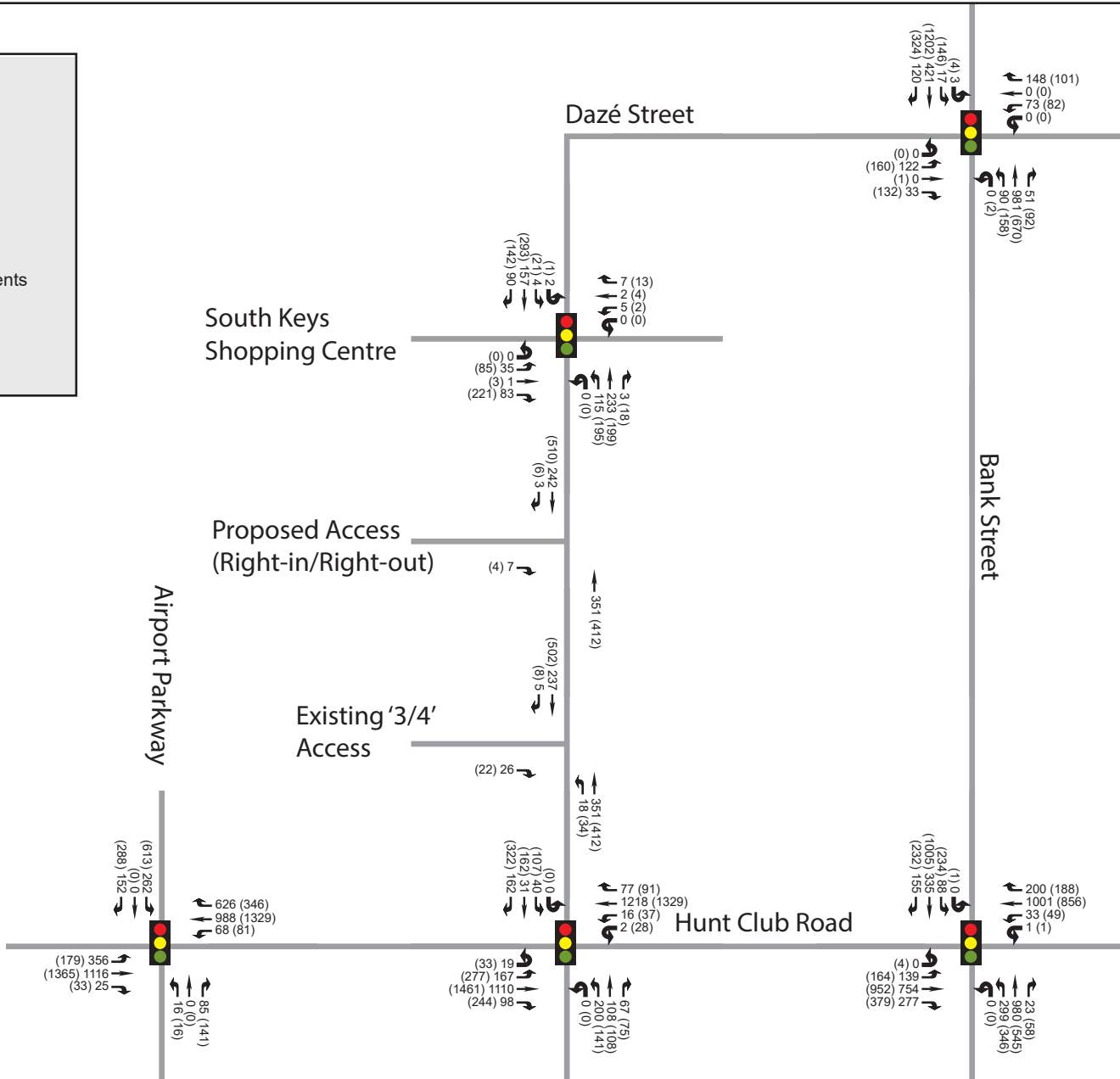
xxx (xxx)  
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements



Vehicular Volume





### Legend



Traffic Signal

xxx (xxx)

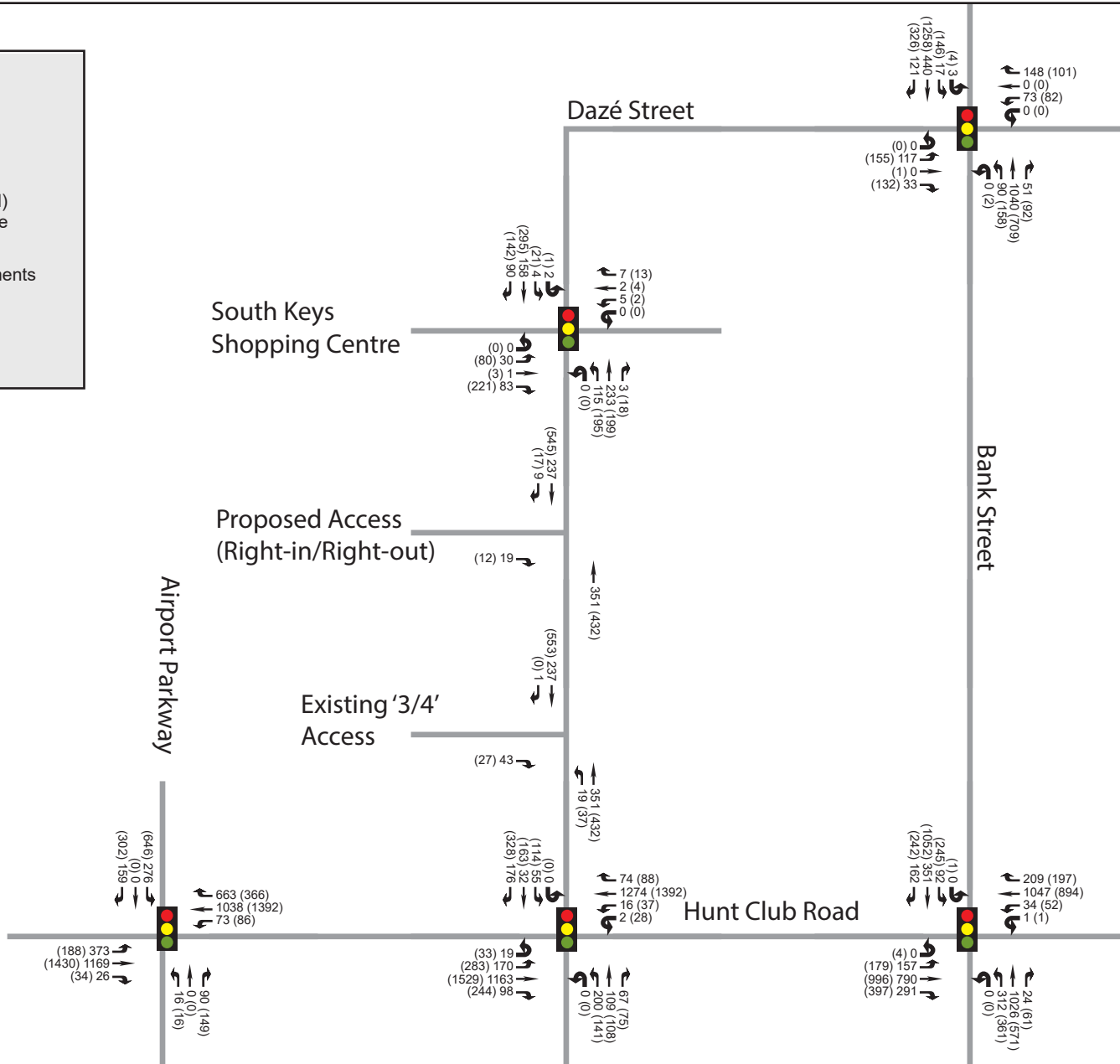
Weekday AM (PM)  
Peak Hour Volume



Permitted Movements

xxx (xxx)  
xxx (xxx)  
xxx (xxx)

Vehicular Volume



## 5 Analysis

### 5.1 Development Design

#### 5.1.1 Design for Sustainable Modes

For consistency with the City of Ottawa’s Urban Design Guidelines and transportation policies, new developments shall provide safe and efficient access for all users, while creating an environment that encourages walking, cycling and transit use.

The proposed development is located within an existing Transit-Oriented Development (TOD) zone and immediately adjacent to the South Keys Transitway Station, which is planned to incorporate LRT service in tandem with its existing BRT service in early 2024. This high-density residential development is well suited in this context, given its proximity to high quality transit service and the numerous amenities offered at South Keys Shopping Centre. The development conforms to city policies that encourage dense development within TOD zones.

A Transit Plaza is planned immediately adjacent to the site which provides direct access to South Keys Station from both the site and Dazé Street. This plaza will allow residents to access the BRT and LRT services available at the station with a walking distance of approximately 170 metres from the center of the proposed development.

As indicated previously in **Exhibit 3**, concrete sidewalks are located throughout the proposed development with convenient connections to Dazé Street and the adjacent Transit Plaza.

The above design and infrastructure elements contribute to a development that significantly reduces dependence on private automobile usage by integrating well with the existing and proposed sustainable transportation infrastructure.

The TDM-Supportive Development Design and Infrastructure Checklist was completed and is provided in **Appendix F**. This checklist identifies anticipated measures that are being considered in association with the proposed development to offset the vehicular impact on the adjacent road network. Some notable measures are listed below:

- Providing direct pedestrian access to the buildings to and from the public sidewalks along with the Transit Plaza;
- Designing access and circulation roads for cycling use with a target operating speed of no more than 30km/h;
- Providing secure bicycle parking spaces equivalent to at least the number of units as well as a permanent bike repair station with commonly used tools; and
- Providing separate areas for short-term and long-term parking to permit access controls and simplify enforcement.

#### 5.1.2 Circulation and Access

All site-generated traffic will access the proposed development via two access driveways on Dazé Street: one proposed right-in/right-out driveway and one existing ‘3/4 access’ driveway. Internal private streets are proposed to have drive aisle widths of 7.0m to allow for the circulation of fire trucks and waste collection vehicles.

Within the parking podium for phase 1, all drive aisles are proposed to have widths of 6.0m. There is a turn-around circle in the southeast corner of the site to allow for vehicles to circulate through the site without requiring access to the parking garages.

A swept-path analysis was undertaken which confirms the ability of the three design vehicles including the delivery truck, fire truck and a front-loading waste collection vehicle to access the site, circulate within the internal drive aisle and egress back onto Dazé Street. Swept path analyses for each design vehicle can be found in **Appendix G**.

### 5.1.3 New Street Networks

The New Street Networks element is exempt from this TIA, as defined in the study scope. This element is not required for Site Plan applications. It should be noted, however, that the internal private streets have been designed with City-standard cross-section elements, including 2.0m sidewalks, 7.0m pavement width offering two 3.5m lanes, as well as on-street parking bays and street trees. The road network layout has been designed for potential expansion as adjacent lands are redeveloped.

## 5.2 Parking

### 5.2.1 Parking Supply

Based on the location and size of the proposed development, the Zoning Bylaw requirements for visitor parking are a minimum of 0.1 spaces per unit beyond the first twelve units and a maximum of 1.75 spaces per unit, as the proposed development is within Area 'Z'. The parking ratio for residents will be 0.52 spaces/unit. Phase 1 of the proposed Master Plan includes a total of 180 parking spaces within the podium levels of the development, including the maximum permitted 28 parking spaces for visitors. In addition to this, 94 surface parking spaces will be retained for the existing restaurant and 126 surface spaces retained for the movie theatre. Therefore, the proposed parking supply is within the permissible range.

For Phase 1, there are 300 bicycle spaces proposed total, with 290 being provided in two secure bike cages on the ground floor and 10 additional exterior bike parking spaces. Bicycle parking rates for the proposed development are proposed at a 1:1 ratio for residential dwelling units and therefore exceed the by-law requirement by at least two-fold.

### 5.2.2 Spillover Parking

The proposed development is expected to provide a sufficient supply of on-site parking to meet the market demand while acknowledging the proximity to rapid transit. No spillover parking demand is expected and rates will be refined for subsequent phases.

The ITE Parking Generation Manual (5<sup>th</sup> Edition) indicates a parking ratio in the order of 0.5 to 0.6 spaces per dwelling unit is appropriate for a high-rise residential development within a 'Dense Multi-Use' urban setting and within 0.5 miles (i.e. ~0.8 km) of rail transit. Given that the subject development is located well within the Transit-oriented Development (TOD) zone, it is reasonable to assume that a parking rate of 0.53 vehicle spaces per unit for Phase 1 will be appropriate in this context. As such, no further review of spillover parking is required as part of this study.

Relevant extracts from the Parking Generation Manual are located in **Appendix E**.

## 5.3 Boundary Streets

The proposed development is located adjacent to only one boundary street: Dazé Street.



### 5.3.1 Mobility

Segment-based Multi-Modal Level of Service (MMLOS) results for the portion of Dazé Street adjacent to the site are provided in **Table 10** below. Details of the segment-based MMLOS analysis are provided in **Appendix H**.

Table 10 - Segment-based MMLOS Results

LOCATION	LEVEL OF SERVICE BY MODE			
	PEDESTRIAN (PLOS)	BICYCLE (BLOS)	TRANSIT (TLOS)	TRUCK (TkLOS)
<b>Existing Conditions</b>				
Dazé Street <sup>1</sup>	<b>E</b> (Target: A)	<b>E</b> (Target: B)	N/A <sup>2</sup>	A (Target: A)

Notes:

<sup>1</sup> – It is assumed the road cross-section for Dazé Street does not change under Existing and Future conditions.

<sup>2</sup> – There is no existing or known future transit service proposed on Dazé Street adjacent to the site.

The results of the Segment-based MMLOS indicate that Dazé Street does not currently meet its PLOS or BLOS targets. Sensitivity analysis indicates that increasing the boulevard width, providing exclusive bike lanes and reducing operating speeds to 40 km/h (i.e. speed limit reduction and passive traffic calming measures) are all measures that could improve the PLOS and BLOS.

It should be noted that the measures listed above are intended only as suggestions to the City on how the MMLOS within the study area could be improved and do not identify measures to be implemented as a direct consequence of this development. The MMLOS analysis identifies existing deficiencies in the study area and these deficiencies are not expected to be exacerbated by the proposed development.

### 5.3.2 Road Safety

A summary of all reported collisions within the study period over the past five years was presented in the Scoping section of this TIA. The City requires a safety review if at least six collisions for any one movement or of a discernible pattern have occurred over a five-year period. Preliminary analyses identified that all study area intersections may be of potential concern. Further review was therefore conducted, as summarized below:

#### 5.3.2.1 Intersections

**Table 11** summarizes the number of collisions recorded at each study intersection in the five-year period, subdivided by collision type.

Table 11 - Intersection Collisions by Type

INTERSECTION	COLLISION TYPE					
	Angle	Rear End	Sideswipe	Turning Mvmt	Single Motor Vehicle	Other
Hunt Club Rd & Airport Parkway	5	51	13	2	5	4
Hunt Club Rd & Dazé St	10	43	15	10	1	1
Bank St & Hunt Club Rd	20	70	31	7	8	3
Bank St & Dazé St	3	12	7	22	3	0
Dazé St & South Keys SC	0	2	0	3	0	0

Based on the summary of collision data for each study area intersection presented in **Table 11** above, it is acknowledged that there were a significant number of most collisions types recorded which will be further subdivided and analysed by approach to identify any potential reoccurring patterns. The Dazé Street and South Keys Shopping Centre (SC) intersection was exempt from a more in depth review, given that there were less than 6 collisions of any type recorded at this location.

**Table 12** summarizes the above intersection collisions and subdivides them by the approach direction of the at-fault vehicle. The ‘other’ collision type as well as the Dazé Street and South Keys Shopping Centre intersection have been excluded from this analysis.

Table 12 - Intersection Collisions by Direction and Type

INTERSECTION	VEHICLE 1 DIRECTION	COLLISION TYPE				
		Angle	Rear End	Sideswipe	Turning Movement	Single Motor Vehicle
Hunt Club Rd & Airport Parkway	Northbound	2	2	1	0	0
	Southbound	2	7	1	0	1
	Eastbound	0	19	3	2	2
	Westbound	1	23	8	0	2
Hunt Club Rd & Dazé St	Northbound	2	5	2	3	0
	Southbound	2	7	2	2	0
	Eastbound	6	13	7	4	1
	Westbound	0	16	4	0	0
Bank St & Hunt Club Rd	Northbound	11	21	17	3	0
	Southbound	2	9	6	2	3
	Eastbound	4	19	10	1	3
	Westbound	2	21	3	0	2
Bank St & Dazé St	Northbound	1	4	2	13	0
	Southbound	0	4	4	7	0
	Eastbound	2	1	1	0	2
	Westbound	0	2	0	2	1

The significant collision patterns identified above have been analysed below in order to identify potential contributing factors:

**Hunt Club Road & Airport Parkway:**

Based on the collision records provided, the majority of the south, east and westbound rear-end collisions involved vehicles slowing or stopping throughout all lanes of traffic, either to perform turning movements or as a result of weekday peak period congestion. The eastbound left-turn volumes and westbound right-turn volumes at this intersection are also significant during the weekday morning peak hour which may result in long delays and contribute to driver impatience and/or more dangerous behaviour. The vast majority of rear-end collisions caused property damage only or resulted in only minor injuries and therefore can be considered minor in nature.

The majority of sideswipe collisions occurred on the westbound approach and involved vehicles stopping or slowing with the addition of inclement weather conditions such as rain, ice and snow. All reported sideswipe collisions resulted in property damage only.

**Hunt Club Road & Dazé Street:**

A high frequency of east and westbound rear-end collisions were observed at the Hunt Club & Dazé intersection, the majority of which involved collisions with a stopped vehicle. This may be an indication of excessive speeding on these approaches, which are straight with few site access connections, or may be the result of vehicles stopping sooner than expected to turn into the commercial area to the north.

The eastbound approach also has an excess of angle and sideswipe collisions with vehicles travelling in both the north and southbound directions. Based on the collision records, the majority of these collisions involved eastbound vehicles failing to obey the traffic signals resulting in a collision with either south or northbound vehicles.

**Bank Street & Hunt Club Road:**

A number of sideswipe collisions on the north, south and eastbound approaches were recorded at this intersection along with some angle collisions on the northbound approach. The majority of these collisions occurred due to vehicles changing lanes and other turning movements.

A large number of rear-end collisions were recorded on all approaches at the Bank Street & Hunt Club Road intersection. The majority of these collisions involved stopped vehicles which may be an indication of speeding on both Bank Street and Hunt Club Road. High volumes of traffic could also be an influencing factor in the high number of collisions present at this intersection.

**Bank Street & Dazé Street:**

The collision records for this intersection indicate that the majority of northbound and southbound turning movement collisions involved vehicles turning left and failing to yield to vehicles travelling in the opposite direction. The signal timing plan should be reviewed to ensure sufficient cycle length is provided to the left-turn movements.

**5.3.2.2 Roadway Segments**

**Table 13** summarizes the number of collisions recorded along each roadway segment within the study area in the five-year period, subdivided by collision type. As the segment of Dazé Street between 200 metres west of Bank Street and Bank Street experienced less than six collisions in the five-year period, it has been excluded from further analysis.

Table 13 - Roadway Segment Collisions by Type

ROADWAY SEGMENT	COLLISION TYPE					
	Angle	Rear End	Sideswipe	Turning Mvmt	Single Motor Vehicle	Other
Dazé St – Hunt Club to 200m west of Bank St	1	0	0	4	2	0

As indicated above, no significant collision patterns (i.e. 6 collisions or more) have been noted within the five-year period along the site frontage. As such, no further analysis is required.

**5.4 Access Intersections**

**5.4.1 Location and Design of Access**

The proposed development will be accessed via Dazé Street through a proposed right-in/right-out driveway and an existing '3/4' movements driveway. Phase 1 of the proposed development may also continue to be accessed via a third access driveway at the southeast corner of the site. It should be noted that, for the purposes of this analysis, all traffic volume projections have been consolidated to the two access points described above. The proposed site access is in

conformance with the City of Ottawa Private Approach By-law 2003-447, with particular confirmation of the following items:

- Width: A private approach will have a minimum width of 2.4m and a maximum width of 9.0m.
  - The proposed site access will be 7.0m wide. ✓
- Distance from Intersecting Road: For a residential development with 300 or more parking spaces, the proposed private approach must be at least 60 metres from the nearest intersecting street line.
  - The proposed right-in/right-out access on Dazé Street is approximately 35m from the nearest intersecting street line which is less than the required 60m, however due to the magnitude of the new development, a secondary access is required at this site. ✓
  - The existing '3/4' access on Dazé Street is approximately 85m from the nearest intersecting street line and is therefore in conformance with the by-law. ✓
- Quantity and Spacing of Private Approaches: For sites with frontage between 46 and 150 metres, one (1) two-way and two (2) one-way, or two (2) two-way private approaches are permitted. Any two private approaches must be separated by at least 9.0m and can be reduced to 2.0m in the case of two one-way driveways. On lots that abut more than one roadway, these provisions apply to each frontage separately.
  - The frontage of the subject site on Dazé Street is approximately 150m and therefore two (2) two-way private approaches are compliant with the by-law. ✓
- Distance from Property Line: Private approaches must be at least 3.0m from the abutting property line, however this requirement can be reduced to 0.3m provided that the access is a safe distance from the access serving the adjacent property, sight lines are adequate and that it does not create a traffic hazard.
  - The offset from the neighboring property is approximately 2.0 metres and therefore just slightly less than 3.0 metres which is typically required. Given that this access is restricted to right-in/right-out movements, proposed on the outside of a horizontal curve to maximize sightlines and the proposed transit plaza immediately to the north property is not expected to require a vehicular access, this location is deemed to be acceptable from a traffic operations and safety perspective. ✓

Based on the Transportation Association of Canada's (TAC) Geometric Design Guide for Canadian Roads (June 2017), for a residential development of more than 200 units a minimum clear throat length of 25m is suggested for site access driveways on collector roadways. The clear throat length is provided to mitigate the potential for queue spillback onto the collector road. A clear throat length of approximately 110m is proposed for the right-in/right-out Dazé Street access for Phase 1 and a clear throat length of approximately 45m is proposed for the long-term Master Plan, both of which are well above the suggested minimum clear throat length.

For the existing '3/4' movement access on Dazé Street the clear throat length for Phase 1 as well as Phases 2 to 4 is approximately 35 m which meets the minimum requirements according to the TAC Design Guide for Canadian Roads.

#### **5.4.2 Access Intersection Control**

Both proposed site access driveways will be unsignalized and are expected to operate acceptably, as confirmed through intersection capacity analyses presented in subsequent sections of this report.

### 5.4.3 Access Intersection Design

Both proposed site access driveways will be unsignalized therefore MMLOS analysis is not required. As a result of the proposed internal street alignment, it is proposed that the existing '3/4 access be modified and shifted east by approximately 3.5 metres. Figures supporting a Roadway Modification Applications (RMA) have therefore been prepared and provided in **Appendix K**. The design of this intersection modification has taken into consideration minimum vehicle storage requirements and turning radii for the site's design vehicles, including an emergency vehicle (fire truck). Curb radii have also been reduced to minimum requirements and the access will include continuous sidewalk and depressed curb per City standards.

## 5.5 Transportation Demand Management (TDM)

The City of Ottawa is committed to implementing Transportation Demand Management (TDM) measures on a City-wide basis in an effort to reduce automobile dependence, particularly during the weekday peak travel periods. TDM initiatives are aimed at encouraging individuals to use non-auto modes of travel during the peak periods. To complement these efforts, a TDM strategy is also a requirement of planned developments.

### 5.5.1 Context for TDM

As discussed previously, the proposed development is located immediately adjacent to South Keys BRT and future LRT Station and is within the TOD zone. The site is also surrounded by numerous services and amenities, therefore this level of density and compact growth is appropriate in this context.

As described in the Forecasting section of this report, the transit mode share targets have been refined to account for the significant improvements to the transit system which are expected to occur within the timeframe of this study.

The proposed development aligns with the South Keys Community Design Plan (CDP) but is not located within a Design Priority Area (DPA). The proposed development offers a diversity of units with a variety of layouts from 1 bedroom to 3 bedrooms.

### 5.5.2 Need and Opportunity

The existing site is currently within close proximity to South Keys BRT Station but is also surrounded by a significant amount of surface parking and is challenging for pedestrians to navigate. High quality transit service is expected to be fully operational prior to full build-out of Phase 1 and therefore an opportunity exists to encourage residents to use this service upon move-in.

A well-connected pathway network is planned within the surrounding community and the planned Transit Plaza that is adjacent to the site will help shift the environment from auto-oriented to more pedestrian friendly.

### 5.5.3 TDM Program

The proposed development conforms to the City's TDM principles by providing convenient and direct connections to adjacent pedestrian, cycling and transit facilities where available. The proposed on-site pedestrian facilities will provide direct and convenient connections to adjacent roadways and commercial developments.

The City of Ottawa's TDM Measures Checklist was completed for the proposed development, and the results are provided in **Appendix F**. Notable measures that are being considered include:

- Ensuring maps and OC Transpo brochures are available for residents;

- Designate an internal coordinator or, or contract with an external coordinator
- Providing multimodal travel option information package to new residents; and
- Unbundling parking costs from monthly rent.

## 5.6 Neighbourhood Traffic Management

Although technically the subject lands are reliant on a collector road for access, Revisions to the TIA Guidelines (June 2023) provided additional clarity on the need for a Neighborhood Traffic Management component of a TIA. These revisions include requirements for an area with a ‘significant sensitive land use presence’ or a local/collector road where site-generated traffic would increase traffic volumes by at least 50%. Given that there are no existing ‘sensitive land uses’ as defined in the TIA Guidelines update and the site-generated traffic contributions are not anticipated to alter the role or function of Dazé Street, a Neighbourhood Traffic Calming plan is not required as part of the City’s approval process.

## 5.7 Transit

### 5.7.1 Route Capacity

The estimated future total transit passenger demand within the study area was provided in Section 4.1.2.4. The results have been summarized in **Table 14**.

Table 14 - Future Development Generated Transit Demand

PERIOD	PEAK PERIOD DEMAND (PERSON TRIPS)			
	2026 (Phase 1)		2041 (Phases 1 to 4)	
	IN	OUT	IN	OUT
AM	21	47	138	307
PM	38	27	248	179

Overall transit demand of the site is expected to be easily accommodated by the BRT and LRT service which are planned to operate in tandem at South Keys Station, as well as the other local transit routes operating nearby on Bank Street or Hunt Club Road that were discussed previously in the Scoping component of this study.

### 5.7.2 Transit Priority Measures

Not Applicable - Higher-order transit service for new residents will be provided by the LRT/BRT network.

## 5.8 Review of Network Concept

As discussed in the Scoping section of this TIA, the following screenlines are applicable to this study: SL13 – CNR East; and SL20 – Rideau River (South). A summary comparison of the City 2031 Network Concept demand and capacity has been provided in **Table 15** below.

Table 15 – 2031 Network Concept

SCREENLINE	AM 2031 PREFERRED INBOUND		
	DEMAND	CAPACITY	V/C RATIO
SL13 – CNR East	7,934	9,000	0.88
SL42 – Rideau River (Manotick)	4,536	7,400	0.61

Source: Road Network Development Report: Final Report (December 2013)

Based on **Table 15** above, it is not expected that site-generated traffic will trigger any deficiencies across either screenline. Traffic generated exclusively by the proposed development is expected to contribute less than the threshold inbound weekday morning and afternoon peak hour trips for the screenlines to be operating above capacity. Further, it is important to note that since the publication of the TMP, the City has significantly increased investment in local transit infrastructure with the planned extension of the Trillium LRT Line into the Riverside South Community Core, which is expected to help reduce overall reliance on auto trips during the weekday peak periods across both screenlines.

## 5.9 Intersection Design

The following sections summarize the methodology and results of the multi-modal intersection capacity analysis conducted within the study area.

### 5.9.1 Intersection Control

#### 5.9.1.1 Traffic Signal Warrants

Traffic signal warrants for site access intersections were discussed previously in Section 5.4. All other study Intersections are currently signalized, therefore no further signal warrant analysis is required.

#### 5.9.1.2 Roundabout Analysis

Due to property limitations surrounding the site, roundabouts are not able to be easily accommodated as a form of traffic control. Roundabouts typically require a larger footprint in comparison with traffic signals and are not envisioned as part of the City's long-term vision for this area in the CDP. As such, no further analysis on the feasibility of roundabouts at the study intersections was conducted.

### 5.9.2 Intersection Analysis Criteria (Automobile)

The following section outlines the City of Ottawa's methodology for determining motor vehicle Level-of-Service (LOS) at signalized and unsignalized intersections.

#### 5.9.2.1 Signalized Intersections

In qualitative terms, the Level-of-Service (LOS) defines operational conditions within a traffic stream and their perception by motorists. A LOS definition generally describes these conditions in terms of such factors as delay, speed and travel time, freedom to manoeuvre, traffic interruptions, safety, comfort and convenience. LOS can also be related to the ratio of the volume to capacity (v/c) which is simply the relationship of the traffic volume (either measured or forecast) to the capability of the intersection or road section to accommodate a given traffic volume. This capability varies depending on the factors described above. LOS are given letter designations from 'A' to 'F'. LOS 'A' represents the best operating conditions and LOS 'E' represents the level at which the



intersection or an approach to the intersection is carrying the maximum traffic volume that can, practicably, be accommodated. LOS 'F' indicates that the intersection is operating beyond its theoretical capacity.

The City of Ottawa has developed criteria as part of the Transportation Impact Assessment Guidelines, which directly relate the volume to capacity (v/c) ratio of a signalized intersection to a LOS designation. These criteria are as follows:

Table 16 - LOS Criteria for Signalized Intersections

LOS	VOLUME TO CAPACITY RATIO (v/c)
A	0 to 0.60
B	0.61 to 0.70
C	0.71 to 0.80
D	0.81 to 0.90
E	0.91 to 1.00
F	> 1.00

The intersection capacity analysis technique provides an indication of the LOS for each movement at the intersection under consideration and for the intersection as a whole. The overall v/c ratio for an intersection is defined as the sum of equivalent volumes for all deficient movements at the intersection divided by the sum of capacities for all deficient movements.

The Level of Service calculation is based on locally-specific parameters as described in the TIA Guidelines and incorporates existing signal timing plans obtained from the City of Ottawa. The analysis existing conditions utilized a Peak Hour Factor (PHF) of 0.90, while future conditions consider optimized signal timing plans and use of a Peak Hour Factor (PHF) of 1.0 to recognize peak spreading beyond a 15-minute period in congested conditions.

The target LOS for Transit-oriented Development (TOD) zones is LOS 'E' or better, as prescribed by the City of Ottawa.

#### 5.9.2.2 Unsignalized Intersections

The capacity of an unsignalized intersection can also be expressed in terms of the LOS it provides. For an unsignalized intersection, the Level of Service is defined in terms of the average movement delays at the intersection. This is defined as the total elapsed time from when a vehicle stops at the end of the queue until the vehicle departs from the stop line; this includes the time required for a vehicle to travel from the last-in-queue position to the first-in-queue position. The average delay for any particular minor movement at the un-signalized intersection is a function of the capacity of the approach and the degree of saturation.

The Highway Capacity Manual 2010 (HCM), prepared by the Transportation Research Board, includes the following Levels of Service criteria for un-signalized intersections, related to average movement delays at the intersection, as indicated in **Table 17** below.

Table 17 - LOS Criteria for Unsignalized Intersections

LOS	DELAY (seconds)
A	<10
B	>10 and <15
C	>15 and <25
D	>25 and <35
E	>35 and <50
F	>50

The unsignalized intersection capacity analysis technique included in the HCM and used in the current study provides an indication of the Level of Service for each movement of the intersection under consideration. By this technique, the performance of the unsignalized intersection can be compared under varying traffic scenarios, using the Level of Service concept in a qualitative sense. One unsignalized intersection can be compared with another unsignalized intersection using this concept. Level of Service 'E' represents the capacity of the movement under consideration and generally, in large urban areas, Level of Service 'D' is considered to represent an acceptable operating condition. Level of Service 'E' is considered an acceptable operating condition for planning purposes for intersections located within Ottawa's Urban Core (the downtown and its vicinity). Level of Service 'F' indicates that the movement is operating beyond its design capacity.

### 5.9.3 Intersection Capacity Analysis

Following the established intersection capacity analysis criteria described above, the existing and future conditions are analyzed during the weekday peak hour traffic volumes derived in this study.

The following section presents the results of the intersection capacity analysis. All tables summarize study area intersection LOS results during the weekday morning and afternoon peak hour periods.

The Synchro output files have been provided in **Appendix I**.

5.9.3.1 Existing Traffic

An intersection capacity analysis has been undertaken using the Existing Traffic volumes presented in **Exhibit 5**, yielding the following results:

Table 18 - Intersection Capacity Analysis: Existing Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	<b>F (1.06)</b>	<b>WBTR (1.36)</b>	<b>E (0.97)</b>	<b>WBTR (1.10)</b>
Hunt Club Rd & Dazé St	Signalized	<b>F (1.03)</b>	<b>EBL (1.83)</b>	<b>F (1.16)</b>	<b>EBL (2.84)</b>
Bank St & Hunt Club Rd	Signalized	<b>E (0.94)</b>	<b>WBT (1.14)</b>	C (0.80)	<b>SBL (2.07)</b>
Bank St & Dazé St	Signalized	A (0.49)	EBTL (0.70)	B (0.67)	EBTL (0.79)
Dazé St & South Keys Shopping Centre	Signalized	A (0.17)	EBTR (0.35)	A (0.32)	EBTR (0.56)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.1s)	EBR (9.1s)	B (10.5s)	EBR (10.5s)

Based on the above, several of the study area intersections are presently operating well over capacity during both the weekday morning and afternoon peak hours, while the intersections within the South Keys Shopping Centre are shown to be operating at excellent Levels of Service.

It is important to note that an observed traffic volume can not exceed the theoretical capacity of a given movement. Based on the results of the existing conditions analysis, excessive v/c ratios are an indication that several intersections are presently operating under congested conditions which may lead to an elevated risk of collisions from more aggressive driver behavior such as lower gap-acceptance and reduced headways.

5.9.3.2 Future (2026) Background Traffic

An intersection capacity analysis has been undertaken using the Future (2026) Background Traffic volumes presented in **Exhibit 10**, yielding the following results:

Table 19 - Intersection Capacity Analysis: 2026 Background Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	E (0.92)	WBTR (1.05)	E (0.91)	WBTR (1.00)
Hunt Club Rd & Dazé St	Signalized	D (0.88)	EBL (1.64)	F (1.10)	EBL (2.69)
	Signalized <sup>1</sup>	B (0.68)	WBT (0.72)	E (0.91)	WBL (1.18)
Bank St & Hunt Club Rd	Signalized	C (0.80)	WBT (0.99)	C (0.75)	SBL (1.92)
Bank St & Dazé St	Signalized	A (0.43)	EBTL (0.68)	A (0.60)	EBTL (0.76)
Dazé St & South Keys Shopping Centre	Signalized	A (0.14)	EBTR (0.33)	A (0.28)	EBTR (0.55)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.0s)	EBR (9.0s)	A (9.9s)	EBR (9.9s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.

Under Future (2026) Background Traffic conditions, the results indicate slight improvements, however this is directly attributable to the use of a Peak Hour Factor of 1.0 suggesting that traffic demands are expected to extend beyond 15-minute periods and be more evenly distributed throughout the hour. Despite this, conditions at the Bank & Hunt Club intersection are still expected to continue operating at or above capacity.

In order to combat the LOS 'F' attributed to the eastbound left-turn movement at the Hunt Club & Dazé intersection, a U-turn prohibition was introduced, and the U-turn movements were re-assigned to the eastbound left-turn movement. This shift results in a significant improvement for both the overall intersection level of service and the eastbound left-turn movement for the morning and afternoon peak hours, while still retaining reasonable alternative routes in lieu of this maneuver. All remaining future scenarios will consider both the original traffic flow and the prohibition of eastbound U-turns.

5.9.3.3 Future (2031) Background Traffic

An intersection capacity analysis has been undertaken using the Future (2031) Background Traffic volumes presented in **Exhibit 11**, yielding the following results:

Table 20 - Intersection Capacity Analysis: 2031 Background Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	E (0.94)	WBTR (1.10)	E (0.93)	WBTR (1.04)
Hunt Club Rd & Dazé St	Signalized	D (0.90)	EBL (1.64)	F (1.11)	EBL (2.69)
	Signalized <sup>1</sup>	B (0.69)	WBT (0.73)	E (0.93)	WBL (1.18)
Bank St & Hunt Club Rd	Signalized	D (0.85)	WBT (1.02)	C (0.77)	SBL (1.96)
Bank St & Dazé St	Signalized	A (0.44)	EBTL (0.68)	B (0.62)	EBTL (0.76)
Dazé St & South Keys Shopping Centre	Signalized	A (0.14)	EBTR (0.33)	A (0.28)	EBTR (0.55)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.0s)	EBR (9.0s)	A (9.9s)	EBR (9.9s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.

By the 2031 horizon year, conditions at the outer study area intersections will continue to be exacerbated as a result of continued background traffic growth.

5.9.3.4 Future (2041) Background Traffic

An intersection capacity analysis has been undertaken using the Future (2041) Background Traffic volumes presented in **Exhibit 12**, yielding the following results:

Table 21 - Intersection Capacity Analysis: 2041 Background Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	E (1.00)	WBTR (1.21)	E (0.98)	WBTR (1.12)
Hunt Club Rd & Dazé St	Signalized	E (0.93)	EBL (1.64)	F (1.16)	EBL (2.69)
	Signalized <sup>1</sup>	C (0.72)	WBT (0.77)	E (0.96)	WBL (1.18)
Bank St & Hunt Club Rd	Signalized	D (0.89)	WBT (1.08)	C (0.80)	SBL (2.05)
Bank St & Dazé St	Signalized	A (0.46)	EBTL (0.68)	B (0.65)	EBTL (0.76)
Dazé St & South Keys Shopping Centre	Signalized	A (0.14)	EBTR (0.33)	A (0.28)	EBTR (0.55)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.0s)	EBR (9.0s)	A (9.9s)	EBR (9.9s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.

It should be noted that Hunt Club is identified as a Transit Priority Corridor in the TMP however, there is no timeline known for the implementation of transit priority measures along this road. As such, this analysis does not take into consideration the potential improvements to vehicular Level of Service that are associated with a Transit Priority Corridor, therefore ensuring a conservative approach to the analysis to isolate the direct impacts of the proposed development. These impacts are outlined in the following sections of this report.

5.9.3.5 Future (2026) Total Traffic

An intersection capacity analysis has been undertaken using the Future (2026) Total Traffic volumes presented in **Exhibit 13**, yielding the following results:

Table 22 - Intersection Capacity Analysis: 2026 Total Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	E (0.98)	WBTR (1.18)	E (0.96)	WBTR (1.09)
Hunt Club Rd & Dazé St	Signalized	E (0.96)	EBL (1.76)	F (1.16)	EBL (2.93)
	Signalized <sup>1</sup>	B (0.68)	WBT (0.72)	E (0.92)	WBL (1.18)
Bank St & Hunt Club Rd	Signalized	D (0.85)	WBT (1.07)	C (0.80)	SBL (2.02)
Bank St & Dazé St	Signalized	A (0.46)	EBTL (0.69)	B (0.64)	EBTL (0.78)
Dazé St & South Keys Shopping Centre	Signalized	A (0.15)	EBTR (0.33)	A (0.31)	EBTR (0.55)
Dazé St & proposed Ri/Ro Access	Unsignalized	A (9.0s)	EBR (9.0s)	A (10.0s)	EBR (10.0s)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.1s)	EBR (9.1s)	B (10.0s)	EBR (10.0s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.

Based on a comparison with background conditions, the proposed development is expected to have an insignificant impact on study area intersections at the build-out of Phase 1.

5.9.3.6 Future (2031) Total Traffic

An intersection capacity analysis has been undertaken using the Future (2031) Total Traffic volumes presented in **Exhibit 14**, yielding the following results:

Table 23 - Intersection Capacity Analysis: 2031 Total Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	<b>F (1.01)</b>	<b>WBTR (1.24)</b>	<b>E (0.99)</b>	<b>WBTR (1.13)</b>
Hunt Club Rd & Dazé St	Signalized	<b>E (0.98)</b>	<b>EBL (1.75)</b>	<b>F (1.19)</b>	<b>EBL (2.92)</b>
	Signalized <sup>1</sup>	B (0.70)	WBT (0.74)	<b>E (0.93)</b>	<b>WBL (1.18)</b>
Bank St & Hunt Club Rd	Signalized	D (0.90)	<b>WBT (1.10)</b>	D (0.81)	<b>SBL (2.06)</b>
Bank St & Dazé St	Signalized	A (0.47)	EBTL (0.69)	B (0.66)	EBTL (0.78)
Dazé St & South Keys Shopping Centre	Signalized	A (0.15)	EBTR (0.33)	A (0.31)	EBTR (0.55)
Dazé St & proposed Ri/Ro Access	Unsignalized	A (9.0s)	EBR (9.0s)	A (10.0s)	EBR (10.0s)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.1s)	EBR (9.1s)	A (9.9s)	EBR (9.9s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.



5.9.3.7 Future (2041) Total Traffic

An intersection capacity analysis has been undertaken using the Future (2041) Total Traffic volumes presented in **Exhibit 15**, yielding the following results:

Table 24 - Intersection Capacity Analysis: 2041 Total Traffic

INTERSECTION	TRAFFIC CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)	OVERALL LOS (V/C OR DELAY)	MOST DEFICIENT MOVEMENT (V/C OR DELAY)
Airport Parkway & Hunt Club Rd	Signalized	<b>F (1.08)</b>	<b>WBTR (1.39)</b>	<b>F (1.04)</b>	<b>WBTR (1.22)</b>
Hunt Club Rd & Dazé St	Signalized	<b>F (1.02)</b>	<b>EBL (1.78)</b>	<b>F (1.24)</b>	<b>EBL (2.98)</b>
	Signalized <sup>1</sup>	C (0.73)	WBT (0.79)	<b>E (0.98)</b>	<b>WBL (1.18)</b>
Bank St & Hunt Club Rd	Signalized	<b>E (0.95)</b>	<b>WBT (1.16)</b>	D (0.85)	<b>SBL (2.16)</b>
Bank St & Dazé St	Signalized	A (0.48)	EBTL (0.68)	B (0.69)	EBTL (0.77)
Dazé St & South Keys Shopping Centre	Signalized	A (0.15)	EBTR (0.34)	A (0.31)	EBTR (0.55)
Dazé St & Proposed Ri/Ro Access	Unsignalized	A (9.0s)	EBR (9.0s)	B (10.1s)	EBR (10.1s)
Dazé St & Existing '3/4' Access	Unsignalized	A (9.1s)	EBR (9.1s)	A (9.9s)	EBR (9.9s)

Note: <sup>1</sup>Introduction of Eastbound U-Turn prohibition.

Upon full build-out of the Master Plan, impacts to the outer study area intersections are notable, however can be considered insignificant with regards to the projected background operating conditions. Within closer proximity to the site access points along Dazé Street, the proposed development is expected to be easily accommodated within the capacity constraints of those intersections.

### 5.9.4 Multi-Modal Level of Service

An analysis of existing and future conditions for each mode has been conducted based on the methodology prescribed in the 2017 Multi-Modal Level of Service (MMLOS) Guidelines Addendum. The Level of Service (LOS) for each mode has been calculated for each intersection where signals exist or are anticipated, based on the City’s standardized spreadsheet that includes different targets for each respective area of the City.

The Future (2041) Total intersection MMLOS results have been summarized in **Table 25**. Detailed analysis results for existing and future conditions are provided **Appendix H**.

Table 25 - Intersection MMLOS - Existing and Future Conditions

LOCATION	LEVEL OF SERVICE BY MODE			
	PEDESTRIAN (PLOS)	BICYCLE (BLOS)	TRANSIT (TLOS)	TRUCK (TkLOS)
<b>INTERSECTIONS</b>				
Bank St & Dazé St	<b>F</b> (Target: A)	<b>F</b> (Target: C)	<b>F</b> (Target: N/A)	<b>E</b> (Target: D)
Bank St & Hunt Club Rd	<b>F</b> (Target: A)	<b>F</b> (Target: C)	<b>F</b> (Target: N/A)	<b>A</b> (Target: D)
Dazé St & South Keys Shopping Centre	<b>F</b> (Target: A)	<b>F</b> (Target: D)	<b>N/A</b> <sup>1</sup>	<b>F</b> (Target: D)
Hunt Club Rd & Dazé St	<b>F</b> (Target: A)	<b>F</b> (Target: C)	<b>F</b> (Target: N/A)	<b>F</b> (Target: D)
Airport Parkway & Hunt Club Rd	<b>F</b> (Target: A)	<b>F</b> (Target: C)	<b>F</b> (Target: D)	<b>C</b> (Target: D)

<sup>1</sup>Not Applicable - No existing or future transit routes are expected at this intersection.

#### 5.9.4.1 Intersection Pedestrian Level of Service (PLOS)

The PLOS at intersections is based on several factors including the number of traffic lanes that pedestrians must cross, corner radii, and whether the crossing allows for permissive or protective right or left turns, among others.

The results of the analysis indicate that all study intersections are expected to operate below their respective PLOS targets. This is primarily due to number of lanes that pedestrians must cross (i.e. crossing distance/3.5m) on each approach. The PLOS could potentially be improved if the following were implemented:

- High-visibility crosswalk markings;
- Median refuges for approaches with a larger number of lanes;
- Leading pedestrian intervals; and
- Removal of channelized right-turn lanes as well as auxiliary right-turn lanes.

It should be noted, however, that implementing these measures could also further exacerbate the poor vehicular LOS at these intersections and therefore careful consideration should be given to implementing any of the above to ensure that an appropriate balance is achieved between various modes at each intersection. Due to its proximity to the transit station and plaza, the intersection of Dazé/South Keys Shopping Centre would benefit from improved PLOS and has been shown to have excess vehicular capacity that could be reallocated to active travel modes. This would benefit

the broader area but would not be required to accommodate the development-generated demands.

#### *5.9.4.2 Intersection Bicycle Level of Service (BLOS)*

The BLOS at intersections is dependent on several factors: the number of lanes that the cyclist is required to cross to make a left-turn; the presence of a dedicated right-turn lane on the approach; and the operating speed of each approach.

Based on the analysis, no study area intersections meet their BLOS target due to a lack of cycling facilities (i.e. mixed traffic) and/or due to the number of traffic lanes that cyclists must cross to turn left at intersections. Implementing a protected intersection design at all intersections (or bike lanes paired with two-stage left-turn bike boxes) could allow the intersections to meet or exceed the BLOS target with the exception of the intersections of Hunt Club with the Airport Parkway or Bank Street due to the high operating speed along these arterial roadways.

#### *5.9.4.3 Intersection Transit Level of Service (TLOS)*

Intersection TLOS is based on the average signal delay experienced by transit vehicles at each study area intersection.

The results of the analysis indicate that the TLOS is not met at any of the study area intersections during the future conditions. This is triggered by the expected increase in background volume along with the site-generated traffic. It should be noted Hunt Club is identified as a Transit Priority Corridor in the TMP and is likely to be one of the most successful tactics for reducing automobile demand at these congested intersections. There are currently no transit priority plans for Bank Street.

#### *5.9.4.4 Intersection Truck Level of Service (TkLOS)*

The Truck LOS (TkLOS) is based on the right-turn radii, as well as the number of receiving lanes for vehicles making a right-turn from the traffic lane being analysed.

The intersections Hunt Club with Bank and the Airport Parkway meet the City's target with TkLOS of 'A' and 'C', respectively, while the remaining intersections exceed the targeted TkLOS. This is due to the tighter turning radii and the fewer number of receiving lanes on the approaches at these intersections. The accommodation of trucks is of practical importance but has negative consequences primarily to pedestrian safety. Given that the study area is expected to be a highly-pedestrianized area, substandard TkLOS results for intersections along Dazé Street should be considered acceptable.

The recommended measures listed above are intended only as suggestions to the City on how the MMLOS within the study area could be improved and do not identify measures to be implemented as a direct consequence of this development. The MMLOS analysis identifies existing deficiencies in the study area and these deficiencies are not expected to be exacerbated by the proposed development.

## **5.10 Geometric Review**

The following section reviews all geometric requirements for the study area intersections.

### **5.10.1 Sight Distance and Corner Clearances**

The proposed right-in/right-out access driveway is located on Dazé Street approximately 35m south of the intersection of Dazé and South Keys Shopping Centre which is within the minimum

recommended corner clearance of 55m indicated in the Transportation Association of Canada (TAC) Design Guide for Canadian Roads.

This location of the proposed right-in/right-out within relatively close proximity to the signalized intersection is due to the site requiring secondary access to accommodate any emergency vehicles requiring access to the site. As a result of the site's relatively short frontage to a municipal road (Dazé Street) the site is constrained and therefore there are limited options for providing a secondary access that meets the recommended standards. Further review indicates that the right-in/right-out access is proposed on the outside edge of a gradual horizontal curve affords sightlines in excess of the 135-metre Intersection Sight Distance (ISD) recommended in TAC for a road with a 60km/h design speed, as shown in **Figure 7** below. Also, as the proposed development will be transit-oriented, vehicular demands are expected to be relatively low and primarily concentrated at the '3/4' access to the south. As such, the proposed right-in/right-out access is not expected to be a concern despite its proximity to a signalized intersection.

Figure 7 - Right-in/Right-out Access Sightlines



### 5.10.2 Auxiliary Lane Analysis

Auxiliary turning lane requirements for all intersections within the study area are described as follows:

#### 5.10.2.1 Unsignalized Auxiliary Left-Turn Lane Requirements

An auxiliary left-turn lane warranted analysis was conducted for the northbound approach associated with the existing '3/4' access driveway on Dazé Street using the multi-lane warrant methodology outline in the Ministry of Transportation (MTO) Design Supplement (2017). Based on advancing and opposing volumes projected at this intersection under Future (2041) Total

Traffic conditions, a northbound left-turn lane with 15m of storage is required. The existing left-turn lane satisfies this requirement, providing approximately 23 metres of parallel lane length.

A functional design in support of a Roadway Modification Application (RMA) was carried out to identify minor alterations required to relocate the existing '3/4' access driveway approximately 3.5m metres south to accommodate a fire truck/heavy single unit (HSU) design vehicle, standardize the width of the northbound left-turn auxiliary lane and help to ensure that outbound left-turns from the site are physically restricted at this location. These minor modifications are expected to have a negligible impact on the overall storage capacity of the northbound auxiliary left-turn lane which would remain at approximately 20 metres. A detailed queuing analysis at this location using SimTraffic software indicates that the maximum calculated queue under Future (2041) Total Traffic conditions is approximately 9.0m. As such, this auxiliary lane is expected to sufficiently accommodate the additional left-turning site-generated contributions.

The results of the left-turn lane warrant analysis are provided in **Appendix J**, and the RMA functional design drawings are provided in **Appendix K**.

#### 5.10.2.2 Signalized Auxiliary Left-Turn Requirements

A review of auxiliary left-turn lane storage requirements was completed at all signalized study area intersections under Future (2041) Total Traffic conditions. The review compared the projected 95th percentile queue lengths from Synchro operational results, and the standard queue length calculation based on the following equation:

$$\text{Storage Length} = \frac{NL}{C} \times 1.5$$

Where:

$N$  = number of vehicles per hour

$L$  = Length occupied by a vehicle in the queue = 7 m

$C$  = number of traffic signal cycles per hour

The worst-case scenario between weekday morning and afternoon peak hours was used in the analysis for the 95<sup>th</sup> percentile queue length. The results of the auxiliary left-turn lane analysis are summarized in **Table 26** below.

Table 26 - Auxiliary Left-Turn Storage Analysis at Signalized Intersections

INTERSECTION	APPROACH	95TH %ILE QUEUE LENGTH (M)	CALCULATED QUEUE LENGTH (M)	EXISTING PARALLEL LANE LENGTH (M)	STORAGE DEFICIENCY (M)
Airport Parkway & Hunt Club Road	SB	97	139	150 120 (S) <sup>1</sup>	Existing Storage Adequate
	WB	24	34	150	Existing Storage Adequate
Hunt Club Road & Dazé Street	SB	66	47	50	Existing Storage Adequate
	EB	110	65	130 100 (S) <sup>1</sup>	Existing Storage Adequate
Bank Street & Hunt Club Road	NB	78	48	60 60 (S) <sup>1</sup>	Existing Storage Adequate
	EB	57	36	100 95 (S) <sup>1</sup>	Existing Storage Adequate
Bank Street & Dazé Street	EB	56	56	>150	Existing Storage Adequate

(S)<sup>1</sup> – Inner left-turn lane.

As per the results of the queue length analyses presented above, all left-turn movements affected by the proposed development have adequate storage under Future (2041) Total Traffic conditions.

#### 5.10.2.3 Unsignalized Auxiliary Right-Turn Lane Requirements

The Transportation Association of Canada (TAC) suggests that auxiliary right-turn lanes be considered “when the volume of decelerating or accelerating vehicles compared with through vehicles causes undue hazard.” Consideration for auxiliary right-turn lanes is typically given when the right-turning traffic exceeds 10% of the through volume and is at least 60 vehicles per hour, as well as the approach volume which could be impacted by decelerating vehicles.

Neither of the unsignalized access driveways are projected to exceed these thresholds under Future (2041) Total Traffic conditions, therefore auxiliary right-turn lanes were not considered at either location.

#### 5.10.2.4 Signalized Auxiliary Right-Turn Lane Requirements

Similarly for signalized intersections, Section 9.14 of TAC suggests that auxiliary right-turn lanes shall be considered when more than 10% of vehicles on an approach are turning right and when the peak hour demand exceeds 60 vehicles. The purpose of this guideline is to mitigate operational impacts to through-traffic, particularly on high-speed arterial roadways, and may not be applicable in all circumstances.

The worst-case scenario between weekday morning and afternoon peak hours was used in the analysis for the 95<sup>th</sup> percentile queue length and right-turn volume. The results of the auxiliary right-turn lane analysis are summarized in **Table 27** below.

Table 27 – Auxiliary Right-Turn Lane Storage Analysis at Signalized Intersections

INTERSECTION	APPROACH	RIGHT TURN VOLUME	APPROACH VEHICLES TURNING RIGHT (%)	95TH %ILE QUEUE LENGTH (M)	EXISTING/ PROPOSED PARALLEL LANE LENGTH (M)	STORAGE DEFICIENCY (M)
Airport Parkway & Hunt Club Road	NB	152	90%	14	40	Existing Storage Adequate
Hunt Club Road & Dazé Street	SB	345	55%	84	>150	Existing Storage Adequate
	WB	95	6%	<10	90	Existing Storage Adequate
Bank Street & Hunt Club Road	SB	242	16%	31	120	Existing Storage Adequate
	EB	398	25%	58	>150	Existing Storage Adequate
Bank Street & Dazé Street	SB	344	20%	20	75	Existing Storage Adequate

Based on the above results, no storage deficiencies are expected at any of the study area intersections within the timeframe of this study.

## 5.11 Summary of Improvements Indicated and Modification Options

Based on the intersection capacity, Multi-Modal Level of Service and auxiliary lane analyses results presented above, off-site improvements to the adjacent road network have been recommended in order to accommodate multi-modal demands of both background traffic and additional traffic generated by the proposed development.

### 5.11.1 Airport Parkway & Hunt Club Road

The results of the analysis indicate that the Airport Parkway & Hunt Club intersection is presently approaching its theoretical capacity with a LOS 'E' during the weekday afternoon peak hour, and is operating over its theoretical capacity with a LOS 'F' during the morning peak hour. This intersection is expected to continue to operate with poor levels of service throughout the study timeframe with and without the proposed development. The westbound through-right lane is considered the most deficient movement in both the weekday morning and afternoon peak hours. The proposed development is expected to contribute negligible additional traffic to this movement throughout all phases of the development.

Queue length analyses indicates that there are no storage deficiencies present at this intersection during Future (2041) Total Traffic conditions.

As indicated by the MMLOS results, it has also been noted that the intersection is expected to perform poorly for other modes of travel, and a review of potential options indicated that there are

no feasible improvements that would not impact vehicular capacity. The only exception is the truck LOS, where the intersection is expected to operate with a TkLOS 'C' under future conditions. The implementation of Transit Priority measures along Hunt Club are identified as one of the most reliable methods for reducing long-term traffic growth along this corridor and should be considered by the City in the near future.

### **5.11.2 Hunt Club Road & Dazé Street**

The results of the analysis indicate that the Hunt Club and Dazé intersection is currently operating above its theoretical capacity with a LOS 'F' during both the weekday morning and afternoon peak hours. This intersection is expected to continue to operate with poor levels of service during these peak periods with and without the proposed development traffic. Consideration should be given to implementing a U-Turn prohibition on the eastbound approach in order to significantly improve the overall intersection level of service, as well as traffic operations associated with the eastbound left-turn movement. A review of the surrounding road network indicates that there are alternative routes to accommodate necessary U-turns on Hunt Club, but that the majority of this demand is likely associated with the office building at the corner of Hunt Club/Dazé and can be easily redirected to the alternative access on Dazé.

The existing left and right-turn auxiliary lanes provide adequate storage for all movements affected by the new development, based on queue length analyses.

The MMLoS analysis for this intersection indicates that it is expected to perform poorly for all other modes. In order to improve the expected PLOS, high visibility crosswalk markings could be implemented without affecting vehicular LOS.

### **5.11.3 Bank Street & Hunt Club Road**

The results of the analysis indicate that the Bank & Hunt Club intersection is currently operating approaching its theoretical capacity with a LOS 'E' during the weekday morning peak hour and is operating within acceptable limits (i.e. LOS 'D' or higher) during the afternoon peak hour. Without the implementation of transit priority measures on Hunt Club Road, this condition is not expected to change under Future 2041 Background or Total Traffic conditions. The westbound through and southbound left-turn movements are considered the most deficient movement during the weekday morning and afternoon peak hours, respectively. The site generated traffic for the new development is not expected to contribute a marginal impact on the level-of-service at this intersection.

Synchro results and the City's queue length calculation indicate that the existing right and left-turn lanes are capable of accommodating traffic volumes under Future (2041) Total Traffic conditions.

The MMLoS analysis of this intersection indicates that the PLOS and TLOS are expected to operate poorly due to inadequate walk times and long delays. A possibility for improving the PLOS includes implementing high-visibility crosswalk markings. As indicated previously, Transit Priority measures are recommended to reduce vehicular demand.

### **5.11.4 Bank Street & Dazé Street**

Based on the results of the analysis, the Bank & Dazé intersection is expected to operate at a high level of service (i.e. LOS 'A' and 'B') for the weekday morning and afternoon peak hours, respectively, under the Future (2041) Total Traffic conditions. The eastbound left-turn movement is considered deficient for both weekday peak hours and the new development is expected to contribute negligible impacts to this movement.

Auxiliary lane analyses indicate that all storage lanes are sufficient for the projected traffic volumes under Future (2041) Total Traffic conditions.



### **5.11.5 Dazé Street & Proposed Right-in/Right-out Access**

Based on the results of the analysis, the Dazé and right-in/right-out Access intersection is expected to operate at LOS 'A' and 'B' during all weekday morning peak hour conditions, respectively, beyond the 2041 study horizon year.

The queue length analysis conducted for this study indicates that there is no requirement for a southbound right-turn auxiliary lane and that the proposed eastbound right-turn lane from the Shopping Centre is expected to provide adequate storage.

### **5.11.6 Dazé Street & Existing '3/4' Access**

Based on the results of the analysis, the Dazé and '3/4' Access intersection is expected to operate with negligible delays and a LOS 'A' during all weekday morning peak hour conditions and a LOS 'B' under all afternoon peak hours.

Both Synchro results and the first-principles queue length calculation indicate that there are no requirements for a southbound right-turn lane and the eastbound right-turn lane is expected to provide adequate storage.

A functional design Roadway Modification Application (RMA) was carried out to identify minor alterations required to relocate the existing '3/4' access driveway approximately 3.5m metres south which would accommodate a fire truck/heavy single unit (HSU) design vehicle by standardizing the width of the northbound left-turn auxiliary lane and help to ensure that outbound left-turns from the site are physically restricted at this location. This RMA is expected to have a negligible impact on the overall storage capacity of the intersection which will remain at approximately 20 metres. RMA figures are provided in **Appendix K**.

## 6 Conclusion

The proposed residential development at 2200 Bank Street and 1131 Hunt Club Road is located within an existing Transit-Oriented Development (TOD) zone and immediately adjacent to the South Keys Transitway Station. A Transit Plaza is proposed to the north of the site and will facilitate direct pedestrian access to South Keys Station from both the subject site and Dazé Street.

The proposed development is expected to generate up to 34 and 93 two-way weekday peak hour vehicular trips upon full build-out of Phase 1 and the long-term Master Plan, respectively. These vehicular travel demands were developed based on mode share targets for the Hunt Club Traffic Assessment Zone (TAZ) from the 2020 TRANS Trip Generation Manual and refined with consideration of the significant improvements to the transit system and the strengthening of active transportation connections which are expected to occur within the timeframe of this study. Site-generated traffic contributions were divided amongst the two site access driveways and assigned to the adjacent road network based on the weekday morning peak period commuter travel patterns from the Hunt Club TAZ as specified in the 2011 O-D Survey, as well as the distribution of relevant employment nodes throughout the City.

A suite of Transportation Demand Management (TDM) measures is proposed to offset the site-generated vehicular demand and to support non-auto mode share targets proposed in this study. Some of the TDM measures under consideration include designating an internal coordinator or contracting with an external coordinator, providing multimodal travel option information package to new residents and unbundling parking costs from monthly rent.

A multi-modal analysis of each study area intersection and adjacent roadway segment identified deficiencies in the existing road network and potential remediation measures have been suggested which the City could consider in order to meet the prescribed targets. These remediation measures would improve mobility and comfort for all transportation modes but are not required to safely accommodate the proposed development.

The arterial intersections within the study area are expected to operate above their theoretical capacities based on existing and future conditions. As a result, the relative impact of any increase in future traffic demand is exaggerated in oversaturated conditions. The performance of these intersections when compared to future background traffic conditions is not expected to be largely impacted by the site-generated traffic. The intersections along Dazé Street are expected to operate well under their theoretical capacities beyond the 2041 study horizon year. As indicated through queuing analysis, all right and left-turn auxiliary lanes impacted by the new development are expected to provide adequate storage for vehicles within the study area.

A functional design Roadway Modification Application (RMA) was carried out to identify minor alterations required to relocate the existing '3/4' access driveway approximately 3.5m metres south which would accommodate a fire truck/heavy single unit (HSU) design vehicle by standardizing the width of the northbound left-turn and help to ensure that outbound left-turns from the site are physically restricted. Detailed queuing analysis confirmed that proposed modifications can be accommodated.

A Post-Development Monitoring Plan is deemed unnecessary, as the site-generated traffic demand is not expected to exacerbate or trigger any additional traffic operational issues at any of the study area intersections beyond those identified under background traffic conditions.

Ultimately, the key solution to the existing and anticipated traffic congestion within the study area is improved transit service to reduce area-wide reliance on private automobiles and planned development that is transit-oriented to minimize the vehicular demand on the road network. With the re-opening of the Trillium Line in 2024, the proposed development is well positioned to accommodate growth while minimizing the impact to the surrounding road network through TDM

measures. It is recommended that the City continue to invest in transit and active transportation infrastructure in the area to further reduce future traffic demand.


**Based on the findings of this study, it is the overall opinion of Arcadis that the proposed development will integrate well with and can be safely accommodated by the adjacent transportation network with the recommended actions and modifications in place.**

## Appendix A – TIA Screening From

---

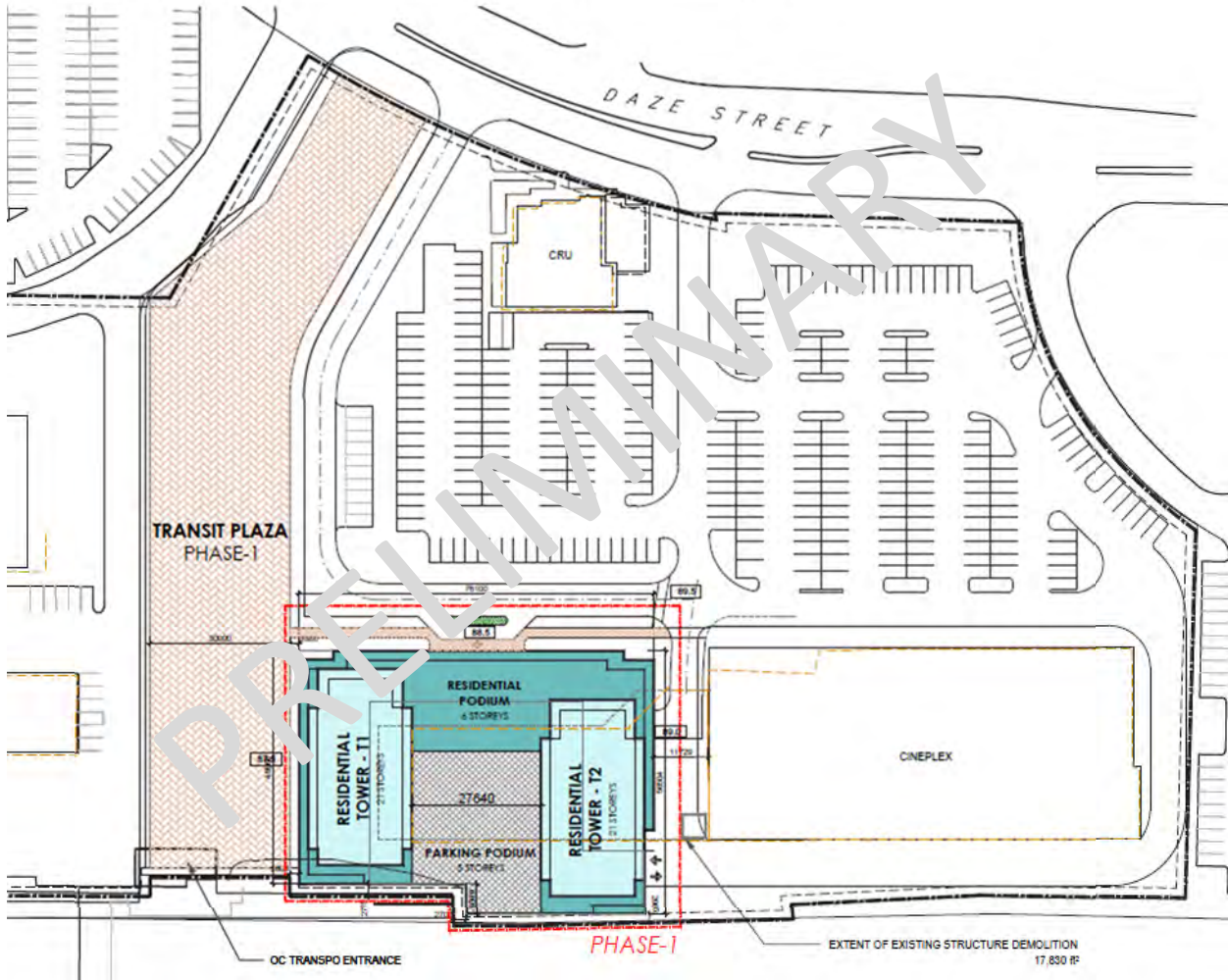
**City of Ottawa 2017 TIA Guidelines Screening Form**

**1. Description of Proposed Development**

Municipal Address	2200 Bank St and 1131 Hunt Club Road, Ottawa ON
Description of Location	<p>The site is situated southwest of Bank Street with direct frontage on Dazé St. It is adjacent to the South Keys Shopping Centre, the Transitway and the future South Keys LRT Station.</p>  <p><i>Note: Orange is overall site, Red is redevelopment site, Blue is Phase 1</i></p>
Land Use Classification	Mixed-Use (High-Rise Residential & Commercial)
Development Size (units)	Phase 1: 290 High-Rise Residential units


Development Size (m <sup>2</sup> )	Phase 1: Commercial Uses – 409.1 m <sup>2</sup> (4,404 ft <sup>2</sup> )
Number of Accesses and Locations	<ul style="list-style-type: none"> <li>• Dazé St             <ul style="list-style-type: none"> <li>○ One (1) New Right-In/Right out access</li> <li>○ One (1) Existing “3/4” Access</li> </ul> </li> </ul>
Phase of Development	Phase 1 of a four-phase development
Buildout Year	Phase 1: 2026 Full Buildout of Master Plan: 2041

If available, please attach a sketch of the development or site plan to this form.



## 2. Trip Generation Trigger



Considering the Development's Land Use type and Size (as filled out in the previous section), please refer to the Trip Generation Trigger checks below.

Land Use Type	Minimum Development Size
Single-family homes	40 units
Townhomes or apartments	90 units 
Office	3,500 m <sup>2</sup>
Industrial	5,000 m <sup>2</sup>
Fast-food restaurant or coffee shop	100 m <sup>2</sup>
Destination retail	1,000 m <sup>2</sup>
Gas station or convenience market	75 m <sup>2</sup>

*\* If the development has a land use type other than what is presented in the table above, estimates of person-trip generation may be made based on average trip generation characteristics represented in the current edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual.*

**Based on the above, the Trip Generation Trigger is satisfied.**

## 3. Location Triggers

	Yes	No
Does the development propose a new driveway to a boundary street that is designated as part of the City's Transit Priority, Rapid Transit or Spine Bicycle Networks?		
Is the development in a Design Priority Area (DPA) or Transit-oriented Development (TOD) zone?*		

*\*DPA and TOD are identified in the City of Ottawa Official Plan (DPA in Section 2.5.1 and Schedules A and B; TOD in Annex 6). See Chapter 4 for a list of City of Ottawa Planning and Engineering documents that support the completion of TIA).*

**Based on the above, the Location Trigger is satisfied.**

#### 4. Safety Triggers

	Yes	No
Are posted speed limits on a boundary street are 80 km/hr or greater?		<input checked="" type="checkbox"/>
Are there any horizontal/vertical curvatures on a boundary street limits sight lines at a proposed driveway?	<input checked="" type="checkbox"/>	
Is the proposed driveway within the area of influence of an adjacent traffic signal or roundabout (i.e. within 300 m of intersection in rural conditions, or within 150 m of intersection in urban/ suburban conditions)?	<input checked="" type="checkbox"/>	
Is the proposed driveway within auxiliary lanes of an intersection?		<input checked="" type="checkbox"/>
Does the proposed driveway make use of an existing median break that serves an existing site?	<input checked="" type="checkbox"/>	
Is there is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development?		<input checked="" type="checkbox"/>
Does the development include a drive-thru facility?		<input checked="" type="checkbox"/>

Based on the above, the Safety Trigger is satisfied.

#### 5. Summary

	Yes	No
Does the development satisfy the Trip Generation Trigger?	<input checked="" type="checkbox"/>	
Does the development satisfy the Location Trigger?	<input checked="" type="checkbox"/>	
Does the development satisfy the Safety Trigger?	<input checked="" type="checkbox"/>	

Based on the results of the TIA Screening Form, the Trip Generation, Location and Safety Triggers are all satisfied. As such, a TIA is required for the proposed South Keys Shopping Centre Phase 1 development at 2200 Bank Street and 1131 Hunt Club Road.



## Appendix B – Traffic Count Data

---

## Turning Movement Count - Peak Hour Diagram

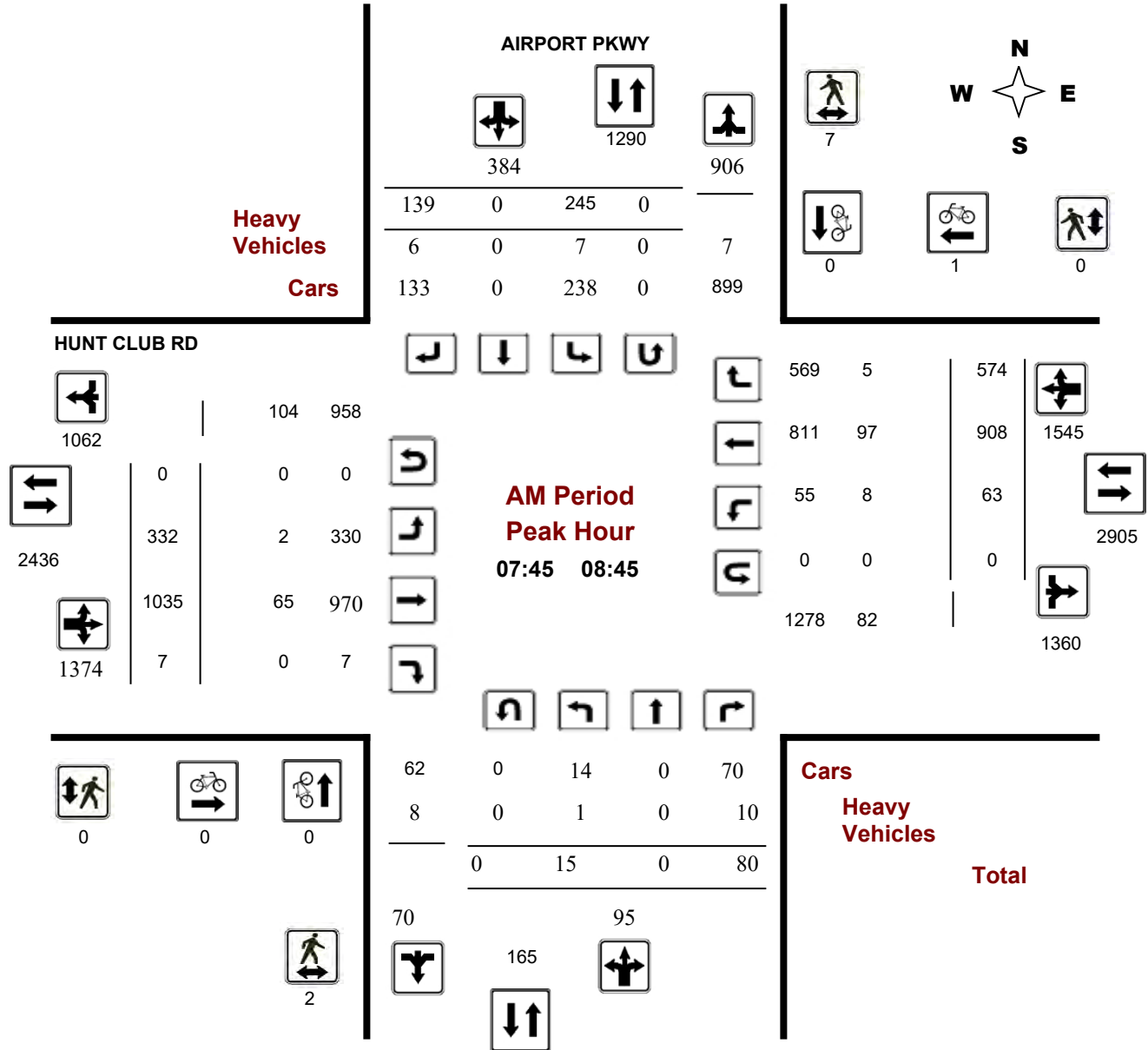
### AIRPORT PKWY @ HUNT CLUB RD

**Survey Date:** Tuesday, November 26, 2019

**Start Time:** 07:00

**WO No:** 39099

**Device:** Miovision



**Comments**



# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

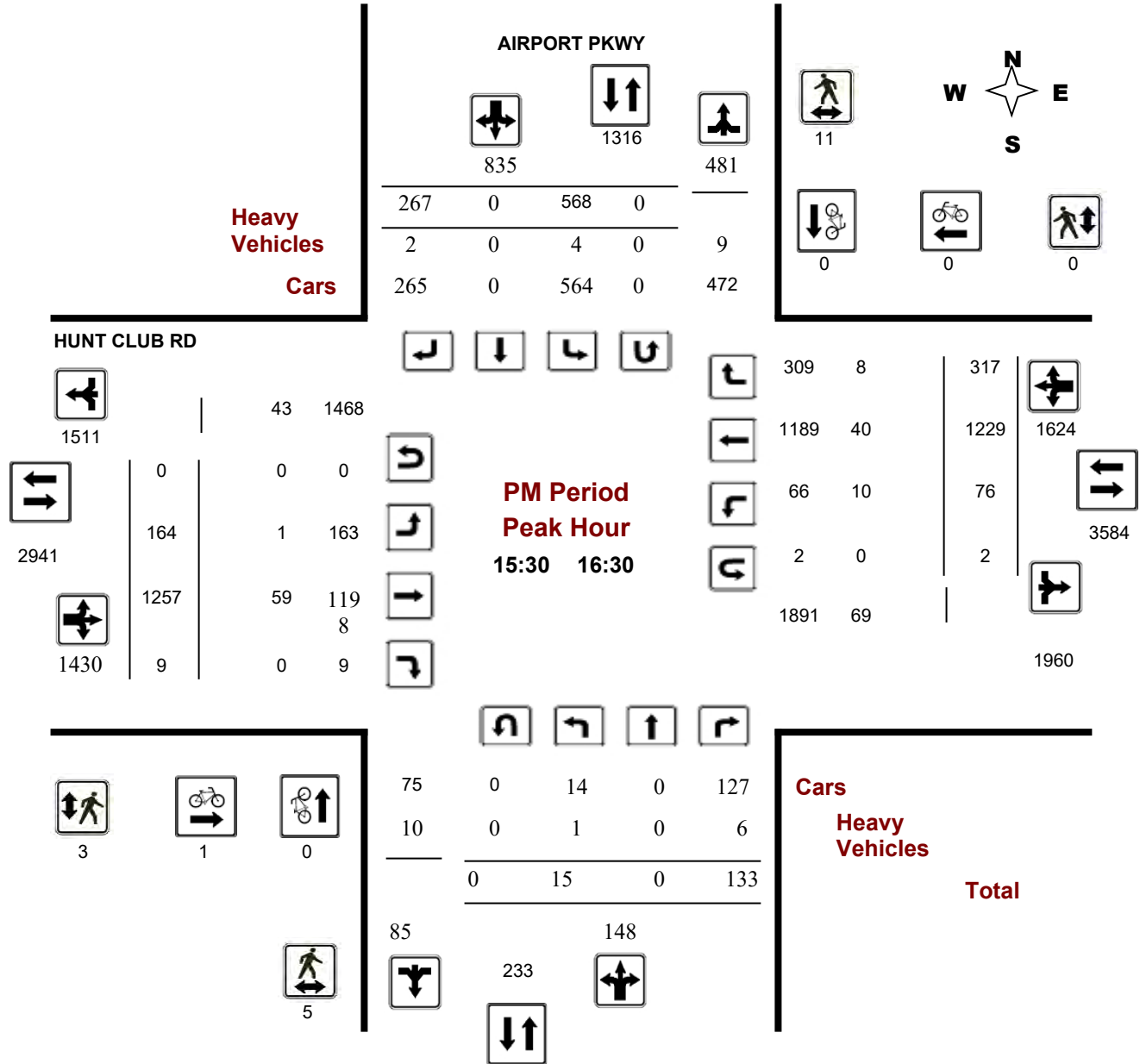
### AIRPORT PKWY @ HUNT CLUB RD

**Survey Date:** Tuesday, November 26, 2019

**Start Time:** 07:00

**WO No:** 39099

**Device:** Miovision





# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

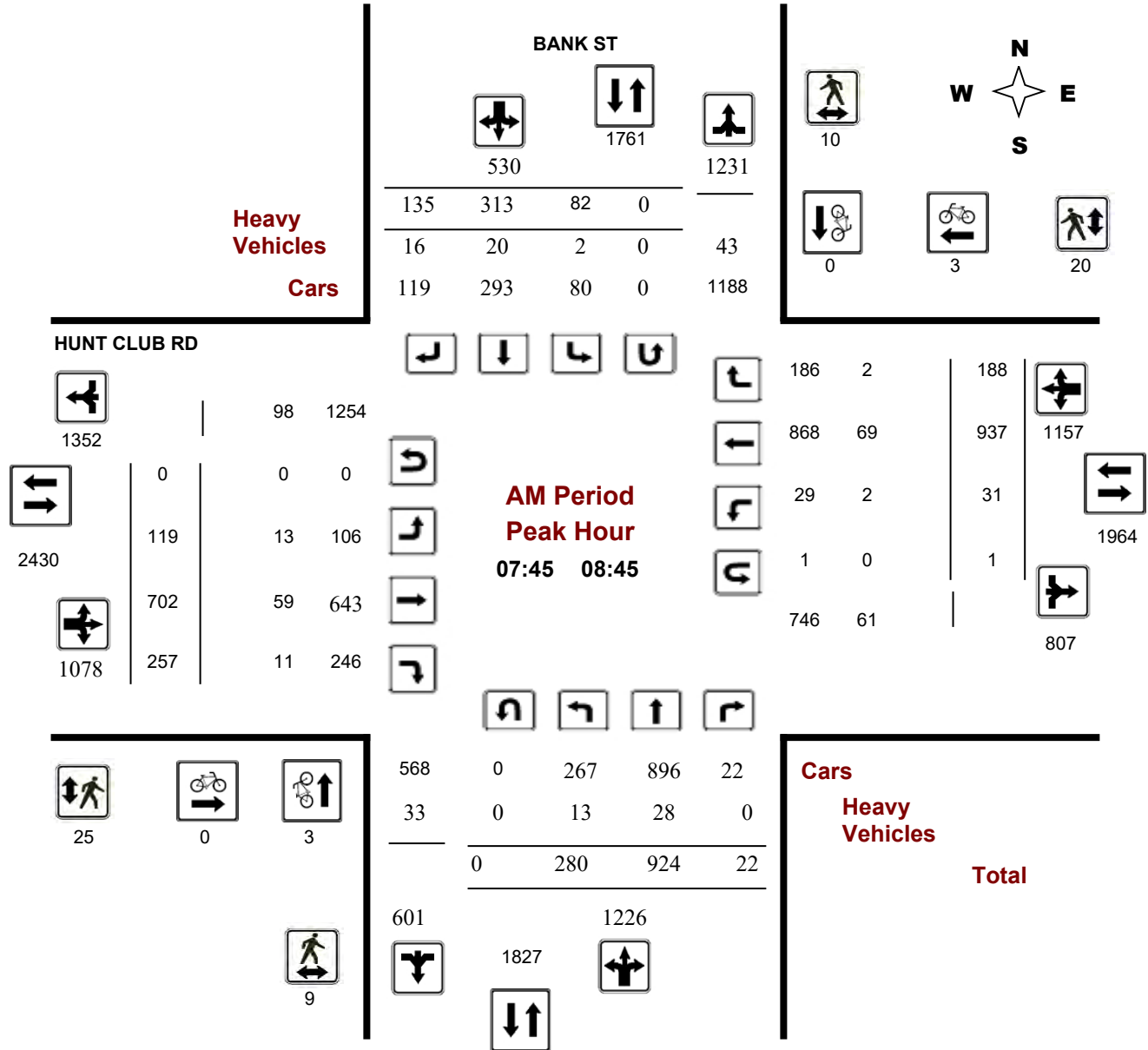
### BANK ST @ HUNT CLUB RD

**Survey Date:** Wednesday, June 12, 2019

**Start Time:** 07:00

**WO No:** 38656

**Device:** Miovision



**Comments**



# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

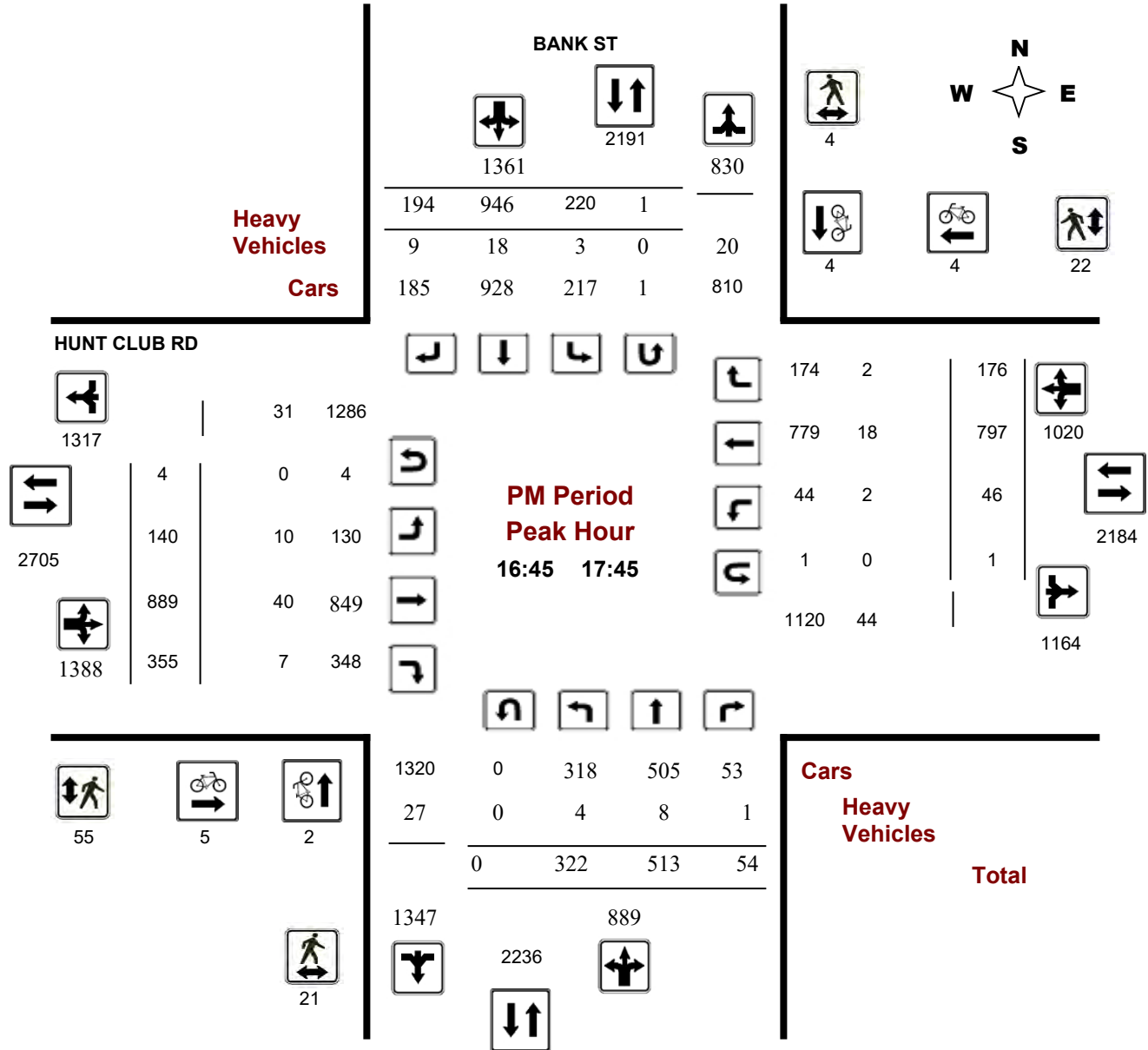
### BANK ST @ HUNT CLUB RD

**Survey Date:** Wednesday, June 12, 2019

**Start Time:** 07:00

**WO No:** 38656

**Device:** Miovision





# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

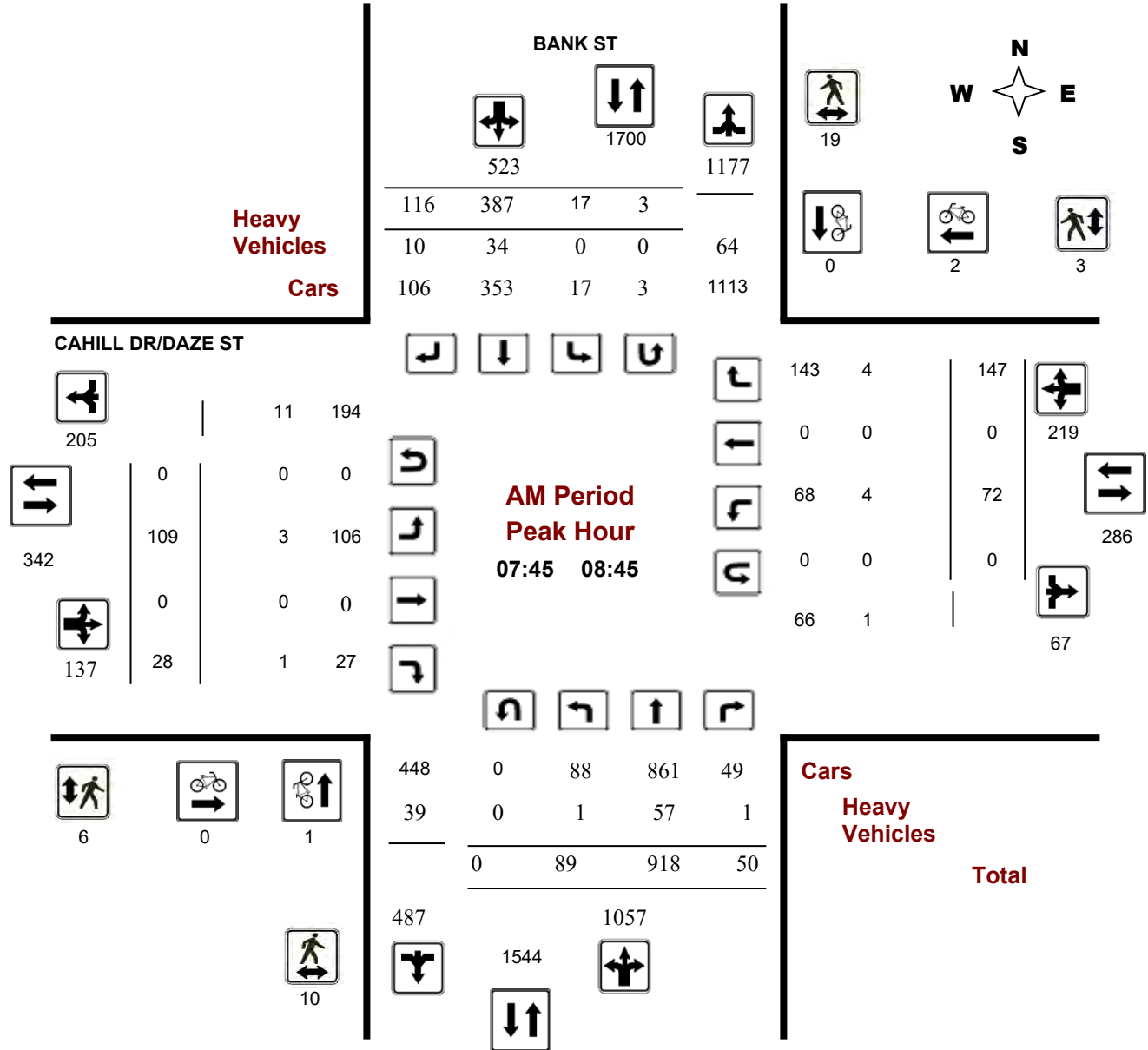
### BANK ST @ CAHILL DR/DAZE ST

**Survey Date:** Tuesday, September 01, 2015

**Start Time:** 07:00

**WO No:** 35337

**Device:** Miovision





# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

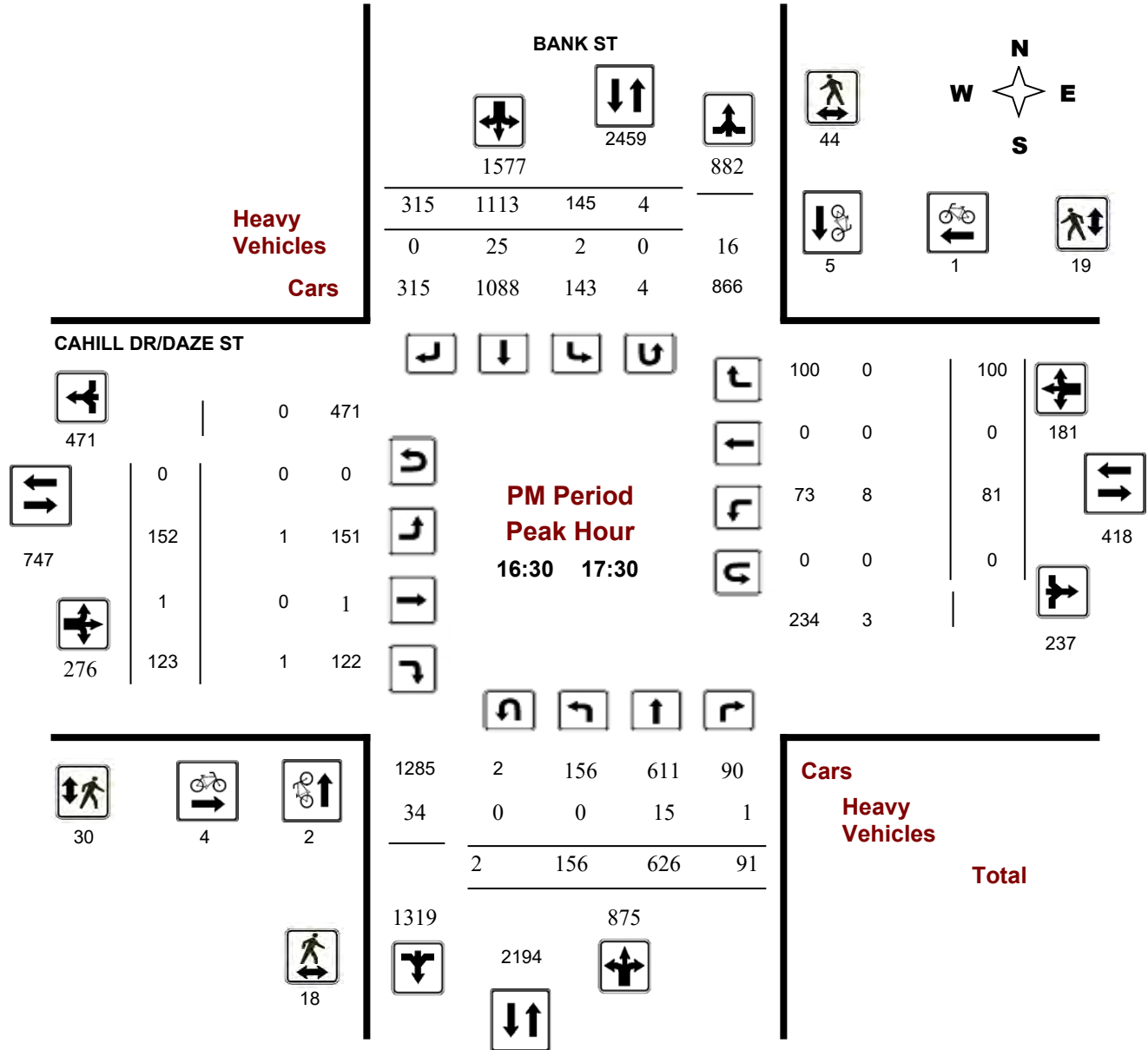
### BANK ST @ CAHILL DR/DAZE ST

**Survey Date:** Tuesday, September 01, 2015

**Start Time:** 07:00

**WO No:** 35337

**Device:** Miovision





# Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

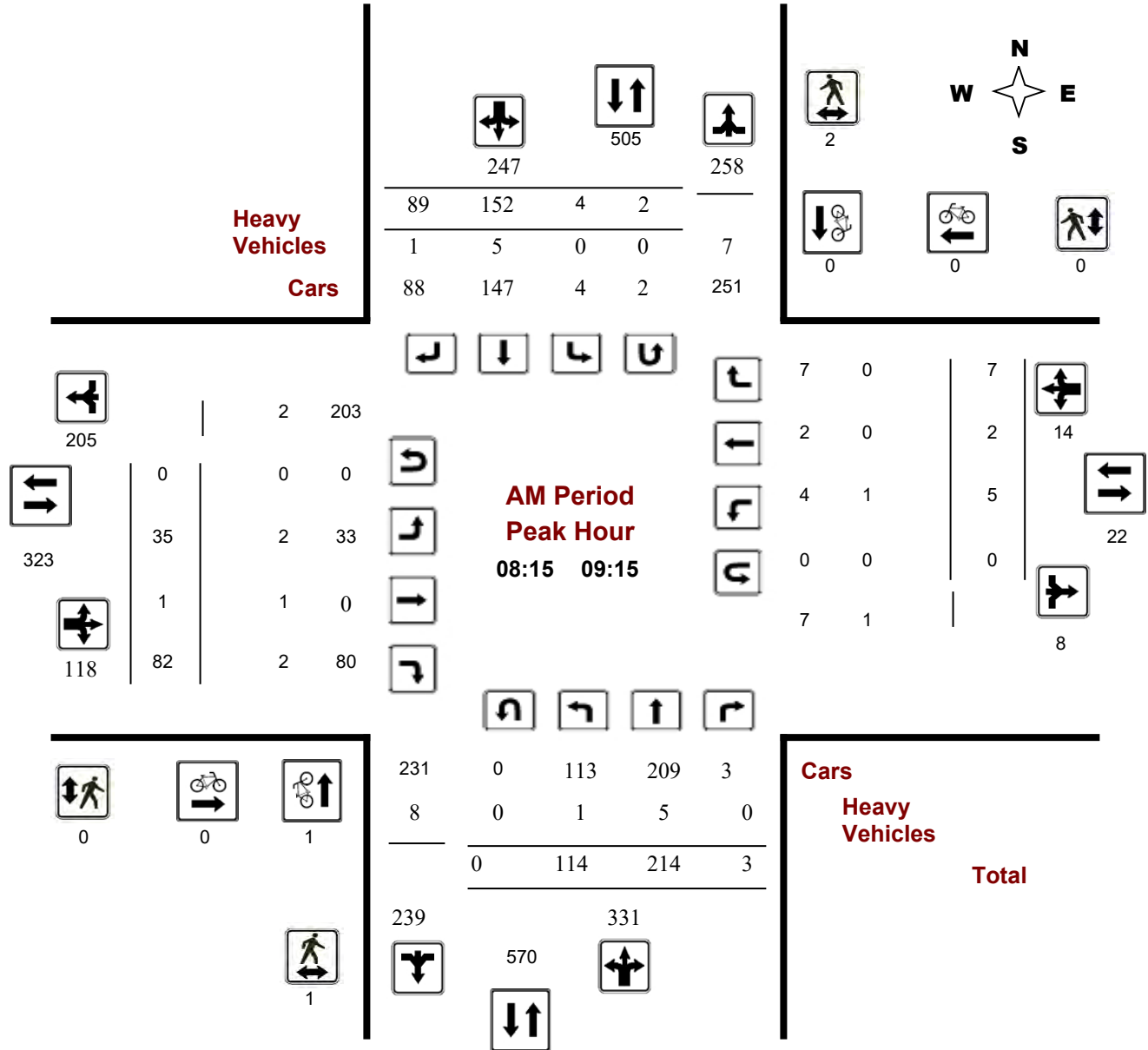
### DAZE ST @ 200 W OF BANK ST/SOUTHKEYS SC

**Survey Date:** Thursday, April 05, 2018

**Start Time:** 07:00

**WO No:** 37695

**Device:** Miovision



**Comments**



## Turning Movement Count - Peak Hour Diagram

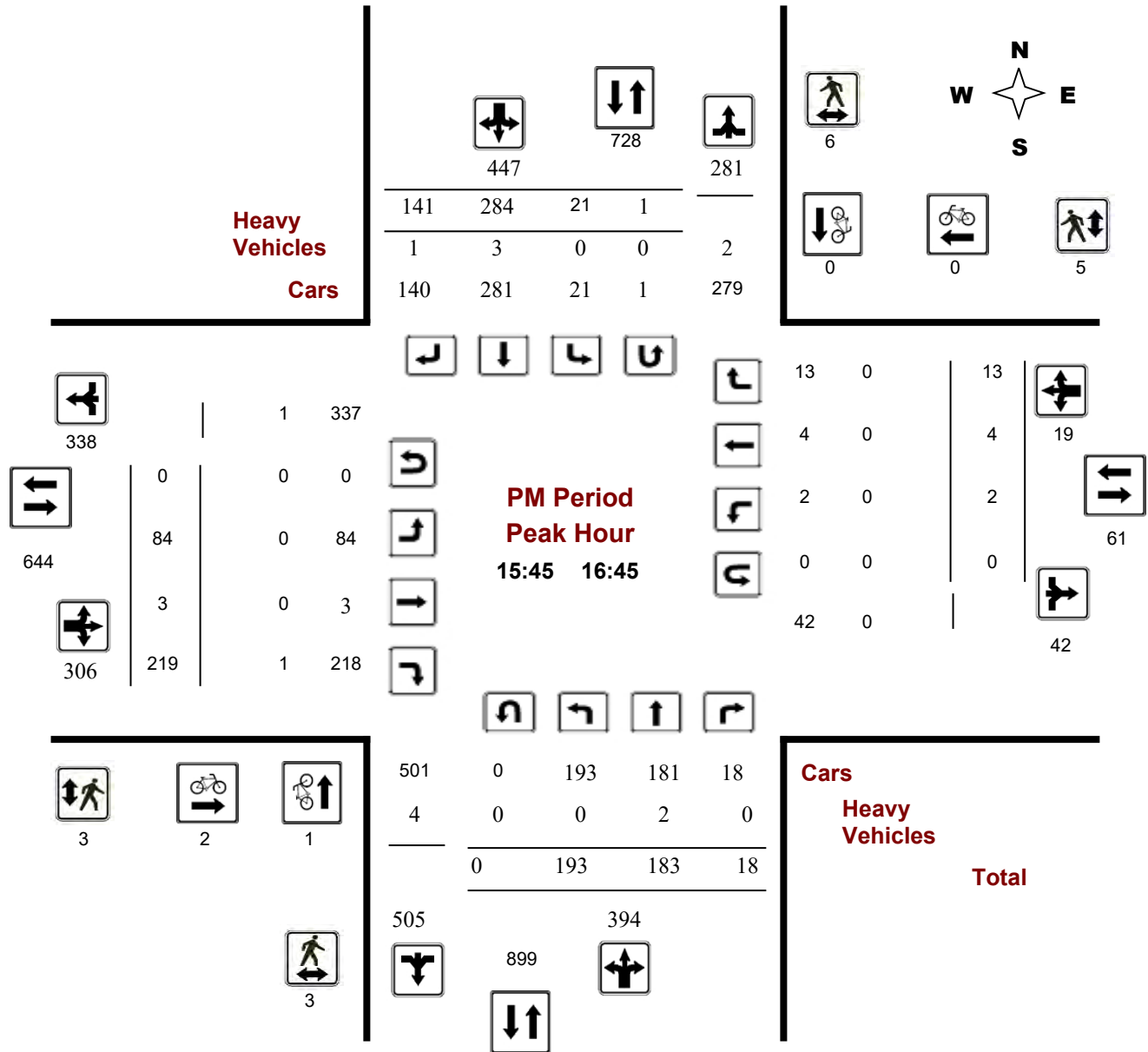
### DAZE ST @ 200 W OF BANK ST/SOUTHKEYS SC

**Survey Date:** Thursday, April 05, 2018

**Start Time:** 07:00

**WO No:** 37695

**Device:** Miovision



**Comments**



# Transportation Services - Traffic Services

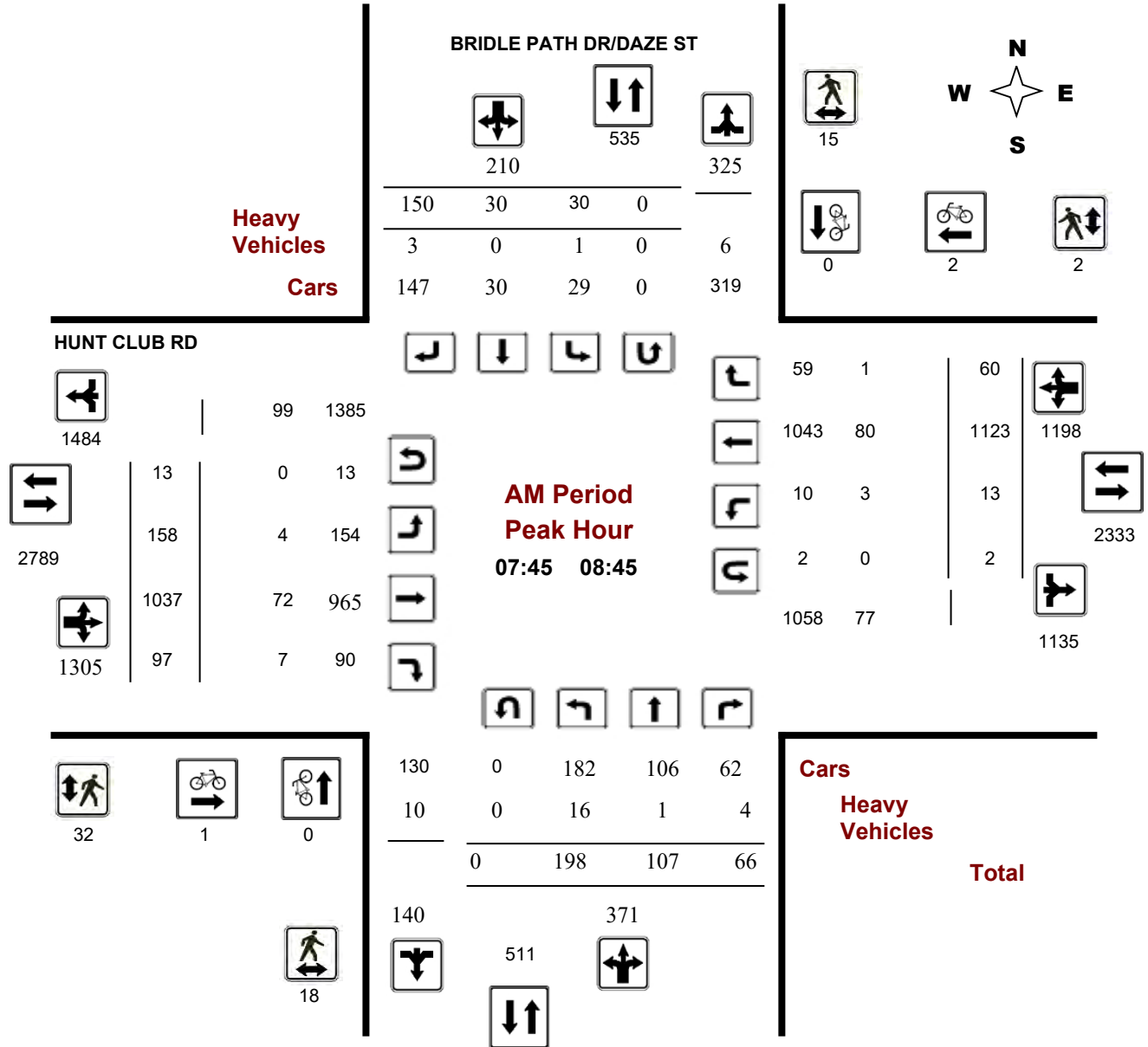
## Turning Movement Count - Peak Hour Diagram HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

**Survey Date:** Wednesday, March 20, 2019

**Start Time:** 07:00

**WO No:** 38379

**Device:** Miovision





# Transportation Services - Traffic Services

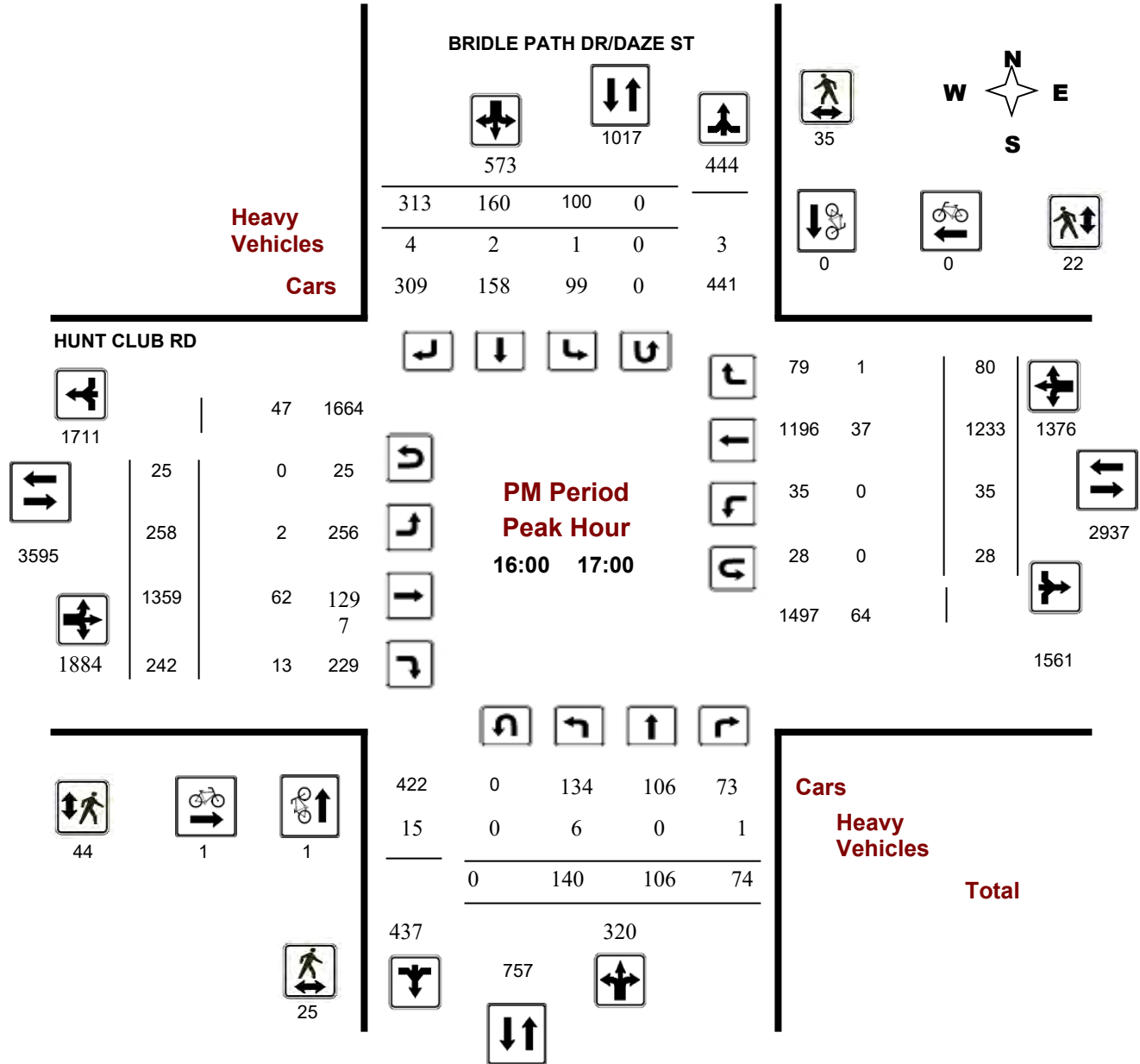
## Turning Movement Count - Peak Hour Diagram HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

**Survey Date:** Wednesday, March 20, 2019

**Start Time:** 07:00

**WO No:** 38379

**Device:** Miovision





# Transportation Services - Traffic Services

## Turning Movement Count - Study Results

### HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

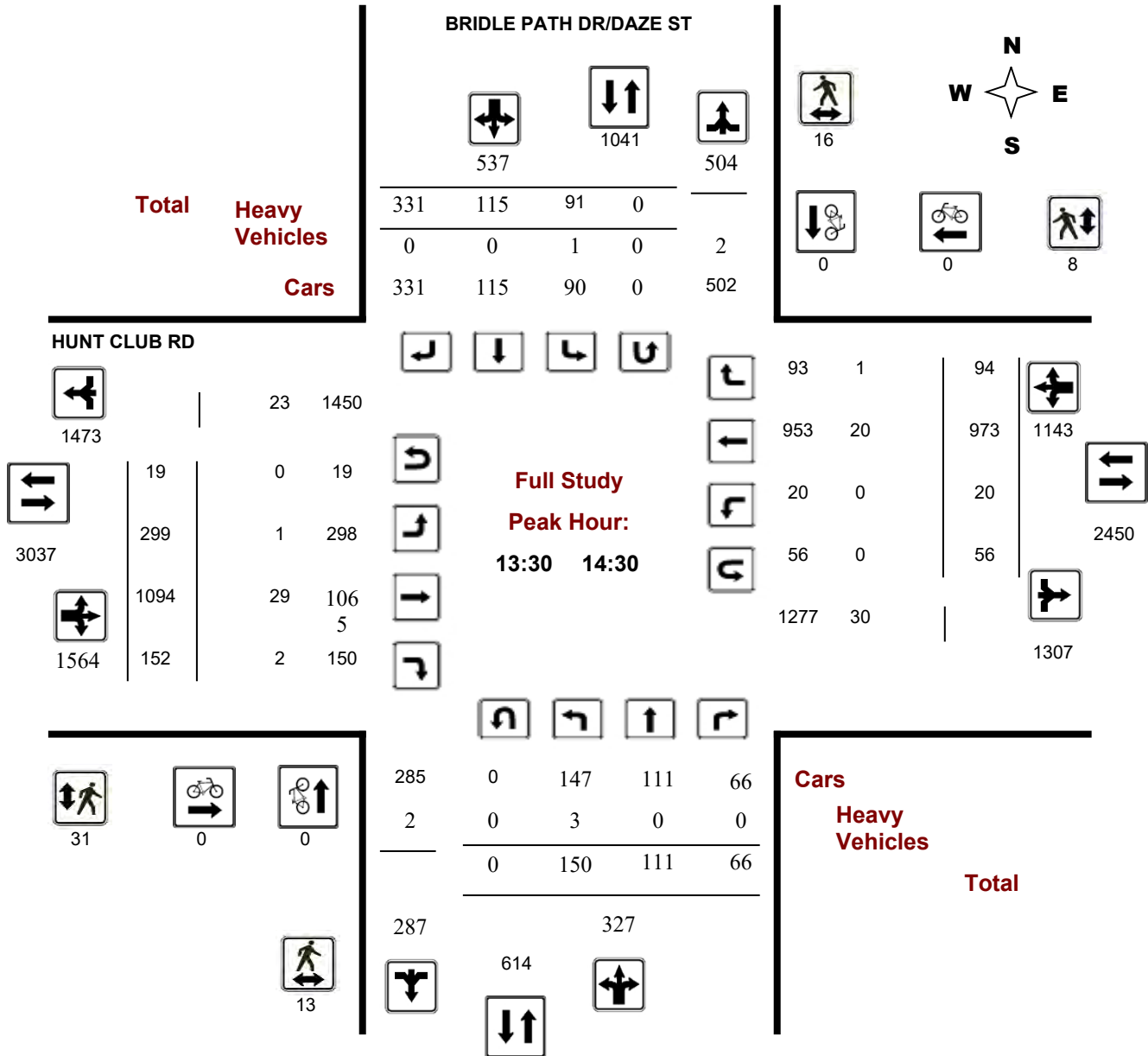
**Survey Date:** Saturday, February 15, 2020

**WO No:** 39486

**Start Time:** 11:00

**Device:** Miovision

### Full Study Peak Hour Diagram



5473968 - FEB 15, 2020 - 5HRS - LORETTA

## Appendix C – OC Transpo Routes

---

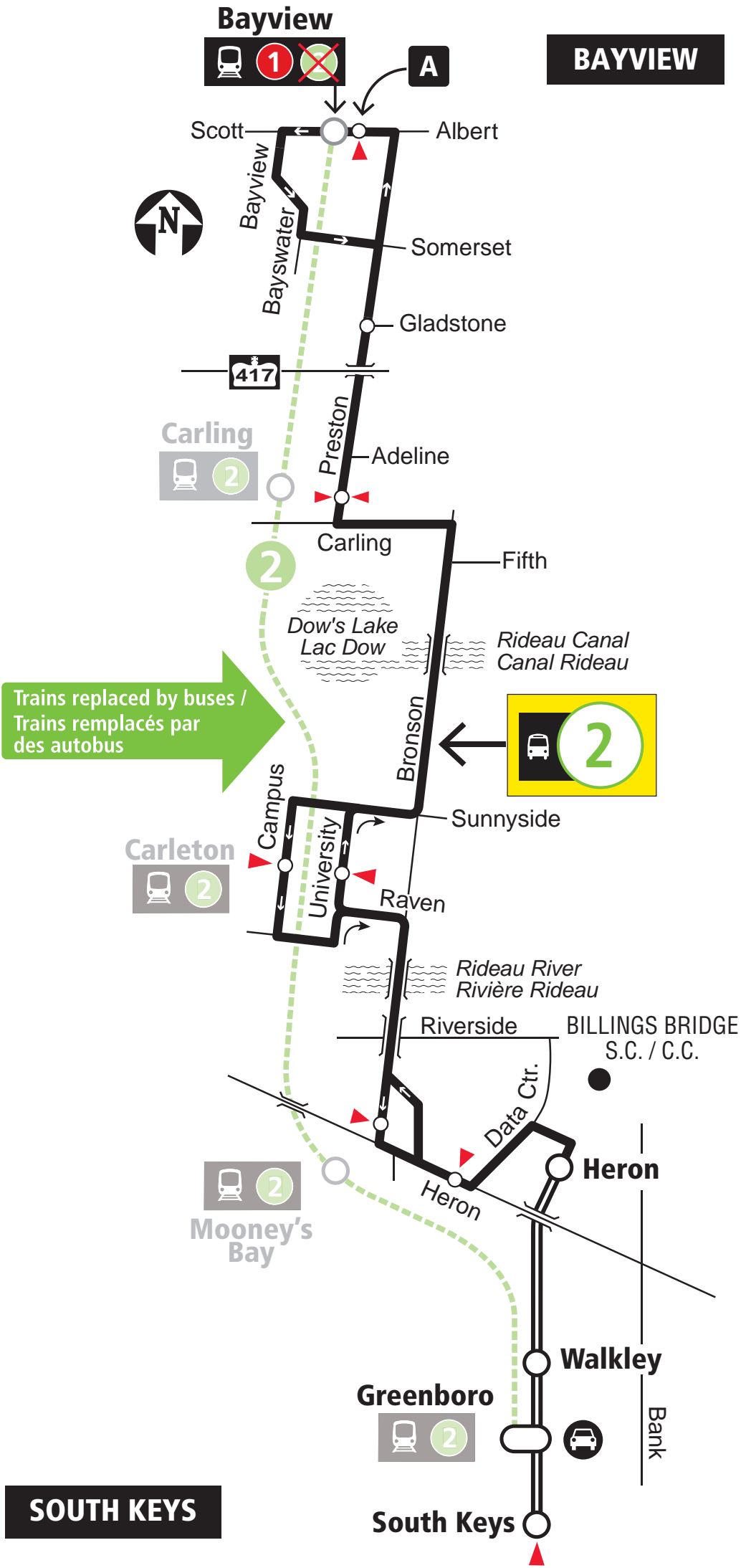


# 2

## BAYVIEW SOUTH KEYS

Bus service during  
O-Train Line 2 expansion

Service d'autobus durant le  
prolongement de la Ligne 2 de l'O-Train



Transitway & Station



Limited stops / Arrêts limités



Park & Ride / Parc-o-bus



Timepoint / Heures de passage

2020.09



**Schedule / Horaire.....613-560-1000**

**Text / Texto .....560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective Fall 2020**

**En vigueur automne 2020**



**INFO 613-741-4390**  
**octranspo.com**



# 6

## ROCKCLIFFE GREENBORO

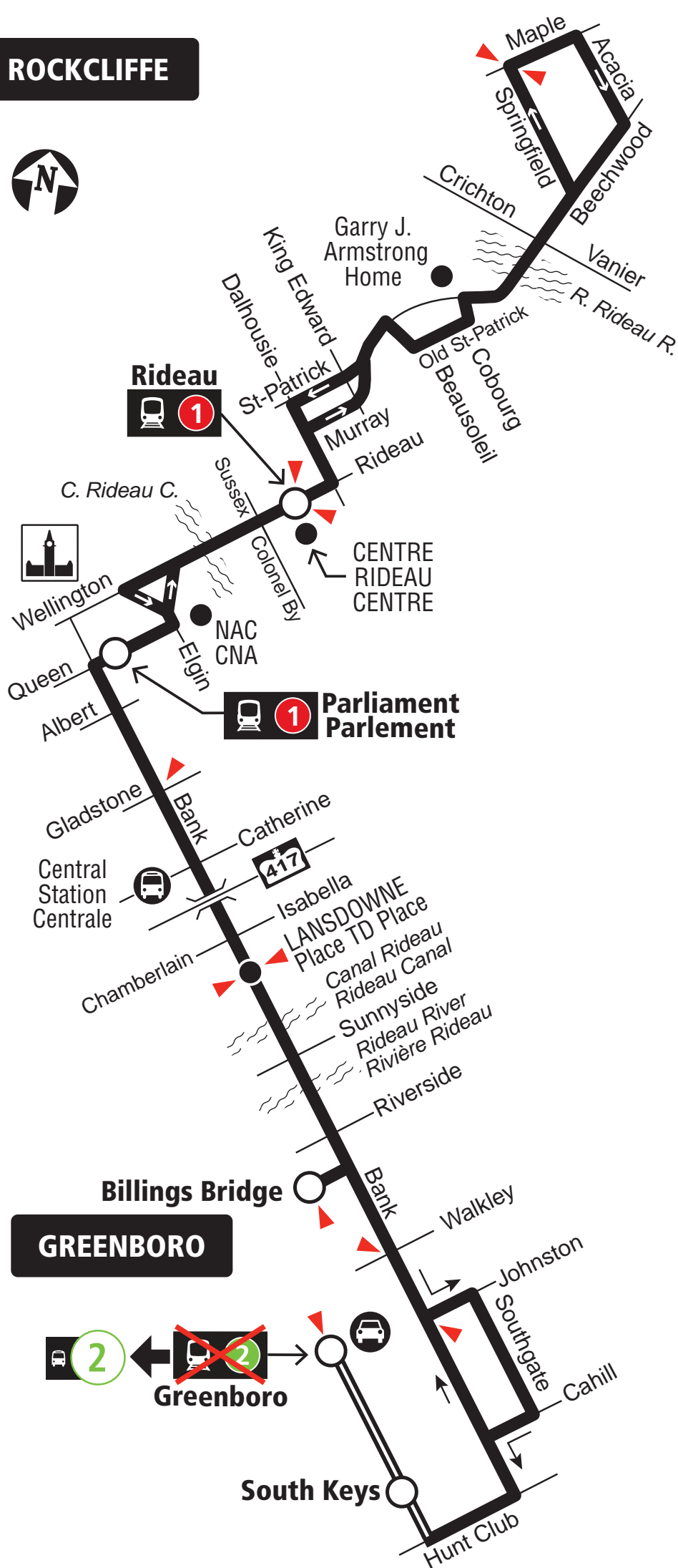
### Fréquent

### 7 days a week / 7 jours par semaine

All day service

Service toute la journée

#### ROCKCLIFFE



2

Greenboro

2023/09

2023.09



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-560-5000**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective Fall 2020**

**En vigueur automne 2020**



**INFO 613-560-5000**  
**octranspo.com**



# 40

## ST-LAURENT GREENBORO

### Fréquent

#### 7 days a week / 7 jours par semaine

All day service

Service toute la journée

**ST-LAURENT**

ST-LAURENT  
S.C. / C.C.

St-Laurent



417

OTTAWA  
TRAIN  
YARDS

Belfast

Industrial

St-Laurent

Innes

Canada Science and  
Technology Museum  
Musée des sciences et de  
la technologie du Canada

Smyth

Lancaster

ELMVALE ACRES  
S.C. / C.C.

Russell

Pleasant Park



St-Laurent

Walkley

St-Laurent

Conroy

Johnston

Johnston

Tapiola

Zaidan

Lorry  
Greenberg

Karsh

Blohm

Esson

**GREENBORO**



Transitway & Station

01/2023



Some trips early morning only /  
Quelques trajets tôt le matin seulement



Park & Ride / Parc-o-bus



Timepoint / Heures de passage

01.2023



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-560-5000**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective January 30, 2023**

**En vigueur 30 janvier 2023**



**INFO 613-560-5000**  
**octranspo.com**





# 90

## GREENBORO HURDMAN

### Fréquent

#### 7 days a week / 7 jours par semaine

All day service

Service toute la journée

**HURDMAN**

**Hurdman**



Lycée Claudel

Smyth

Riverside **H**

Pleasant Park

BILLINGS BRIDGE

Data Centre

**Billings Bridge**

Heron

~~2~~ **2**

**Mooney's Bay**

CANADA POST  
POSTES CANADA

TERRY FOX

ST. PATRICK'S  
HOME

MOONEY'S BAY

Brookfield

Springland

Ridgewood

Walkley

**Greenboro**

~~2~~ **2**

**South Keys**

Uplands

Paul Anka

McCarthy

Gahill

Hunt Club

Uplands

Downpatrick

Airport Pkwy  
Prom. de l'aéroport

**GREENBORO**



Transitway & Station



Park & Ride / Parc-o-bus



Timepoint / Heures de passage

2020.04



**Schedule / Horaire.....613-560-1000**

**Text / Texto .....560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



**INFO 613-741-4390**  
**octranspo.com**



# 92

## GREENBORO HURDMAN

### Local

**7 days a week / 7 jours par semaine**  
All day service  
Service toute la journée

### HURDMAN

Hurdman



Lycée Claudel  
Smyth

Riverside



Pleasant Park

Billings Bridge

Heron

Heron

Promenade de l'aéroport  
Airport Parkway



Walkley

Walkley

Southmore

### GREENBORO



Greenboro



South Keys

Bank

Uplands

Paul Anka

Hunt Club

McCarthy

Plante

McCarthy



Transitway & Station



Park & Ride / Parc-o-bus



Timepoint / Heures de passage

2020.04

**Schedule / Horaire ..... 613-560-1000**

**Text / Texto ..... 560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



INFO 613-741-4390  
octranspo.com



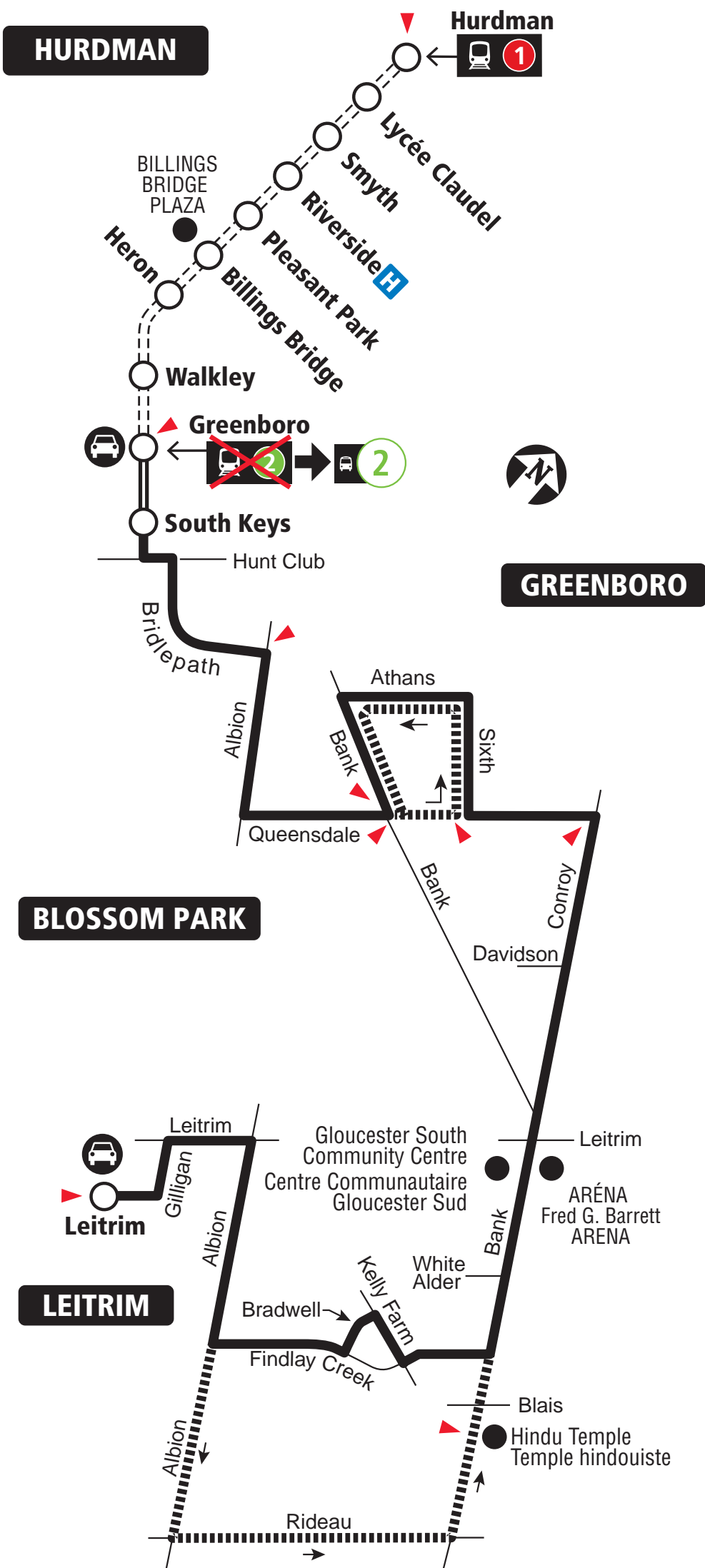
# 93

## Local

### LEITRIM BLOSSOM PARK

### GREENBORO HURDMAN

**7 days a week / 7 jours par semaine**  
All day service  
Service toute la journée



	Transitway & Station	2022.06
	Peak periods/ Périodes de pointe	
	Some Sunday trips / Quelques trajets le dimanche	
	Park & Ride / Parc-o-bus	
	Timepoint / Heures de passage	

2022.06

**Schedule / Horaire ..... 613-560-1000**  
**Text / Texto\* ..... 560560**  
*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*  
\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

**Customer Service**  
**Service à la clientèle ..... 613-560-5000**

**Lost and Found / Objets perdus..... 613-563-4011**

**Security / Sécurité ..... 613-741-2478**

**Effective June 26, 2022**  
**En vigueur 26 juin 2022**

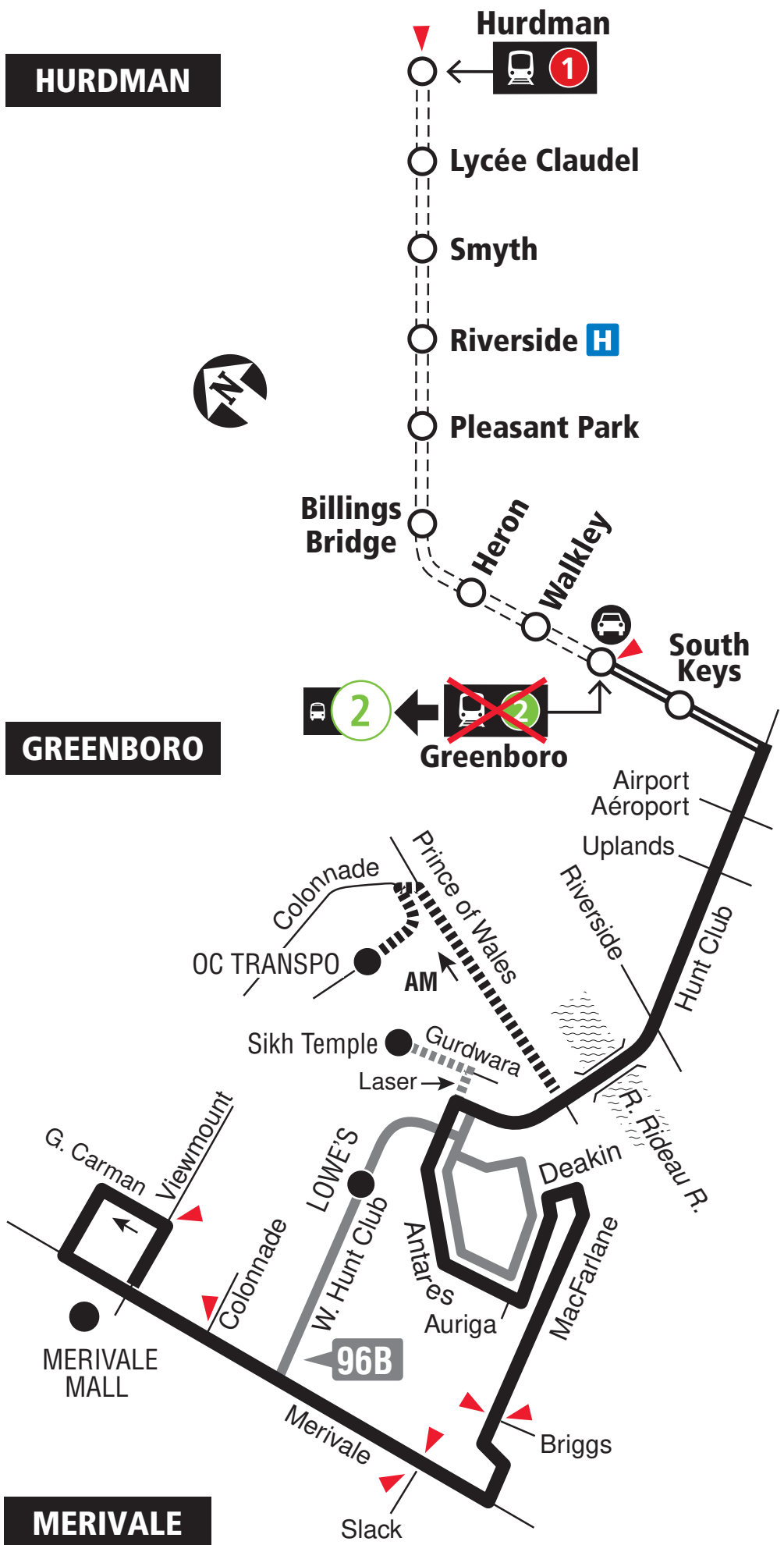


# 96

## MERIVALE GREENBORO HURDMAN

### Local

### 7 days a week / 7 jours par semaine



- Transitway & Station
- Transitway & Station (Peak periods only / Périodes de pointe seulement)
- 96B
- 96B Some trips / 96B Quelques trajets
- Some trips / Quelques trajets
- Park & Ride / Parc-o-bus
- Timepoint / Heures de passage

2019.06



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto ..... 560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



**INFO 613-741-4390**  
**octranspo.com**



Rapid<sup>e</sup>

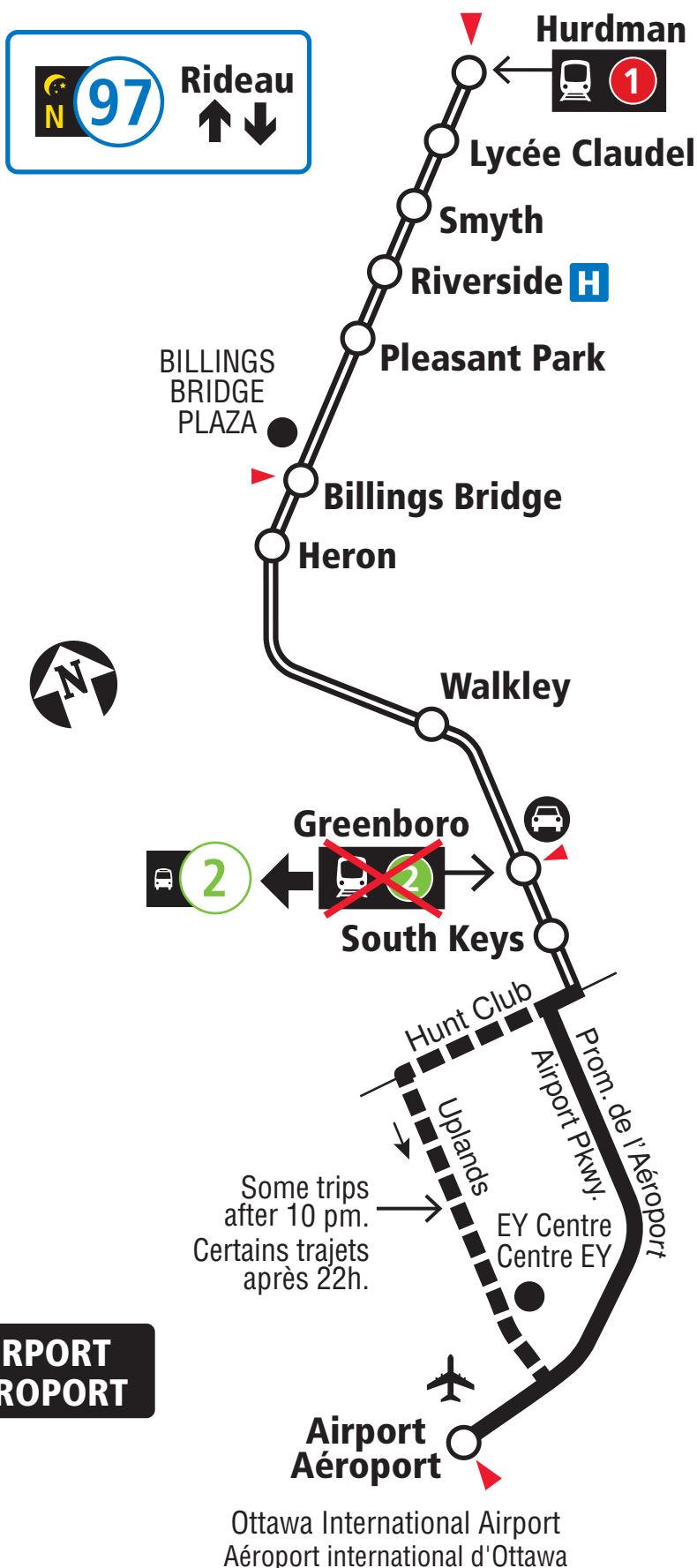
# AIRPORT / AÉROPORT HURDMAN

7 days a week / 7 jours par semaine

All day service and limited overnight

Service toute la journée et limité la nuit

**HURDMAN**



**AIRPORT  
AÉROPORT**



Transitway & Station



Park & Ride / Parc-o-bus



Timepoint / Heures de passage



When O-Train Line 1 is not running overnight, Route 97 will be extended downtown to Rideau Station. / Lorsque la ligne 1 de l'O-Train ne circule pas la nuit, le circuit 97 sera prolongée au centre-ville jusqu'à la station Rideau.

2020.04



**Schedule / Horaire.....613-560-1000**

**Text / Texto .....560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



**INFO 613-741-4390**  
**octranspo.com**



Rapid<sup>e</sup>

# HAWTHORNE HURDMAN

7 days a week / 7 jours par semaine

All day service

Service toute la journée

**HURDMAN**



Hurdman



Lycée Claudel

Smyth

Riverside **H**

Pleasant Park

BILLINGS  
BRIDGE  
PLAZA

Billings Bridge

Heron

Walkley

**HAWTHORNE**

Greenboro



South  
Keys

Cahill

Lorry Greenberg

Johnston

Karsh

Blohm

Hunt Club

Hawthorne



Transitway & Station



Park & Ride | Parc-o-bus



Timepoint | Heures de passage

2020.04



**Schedule / Horaire.....613-560-1000**

**Text / Texto .....560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



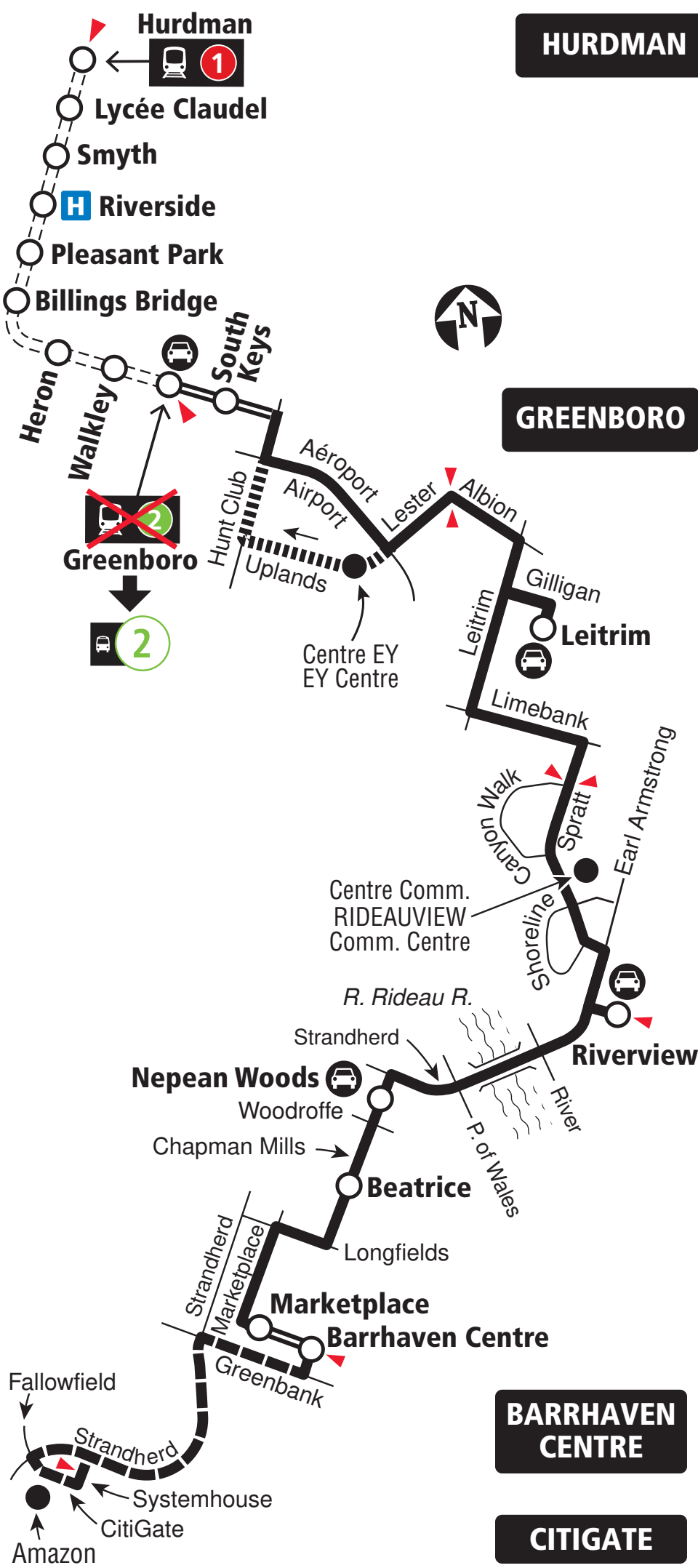
**INFO 613-741-4390**  
**octranspo.com**



Rapid<sup>e</sup>

# CITIGATE BARRHAVEN CENTRE HURDMAN GREENBORO

7 days a week / 7 jours par semaine



2021.09



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-560-5000**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective September 5, 2021**

**En vigueur 5 septembre 2021**



**INFO 613-560-5000**  
**octranspo.com**



# 197

## GREENBORO UPLANDS

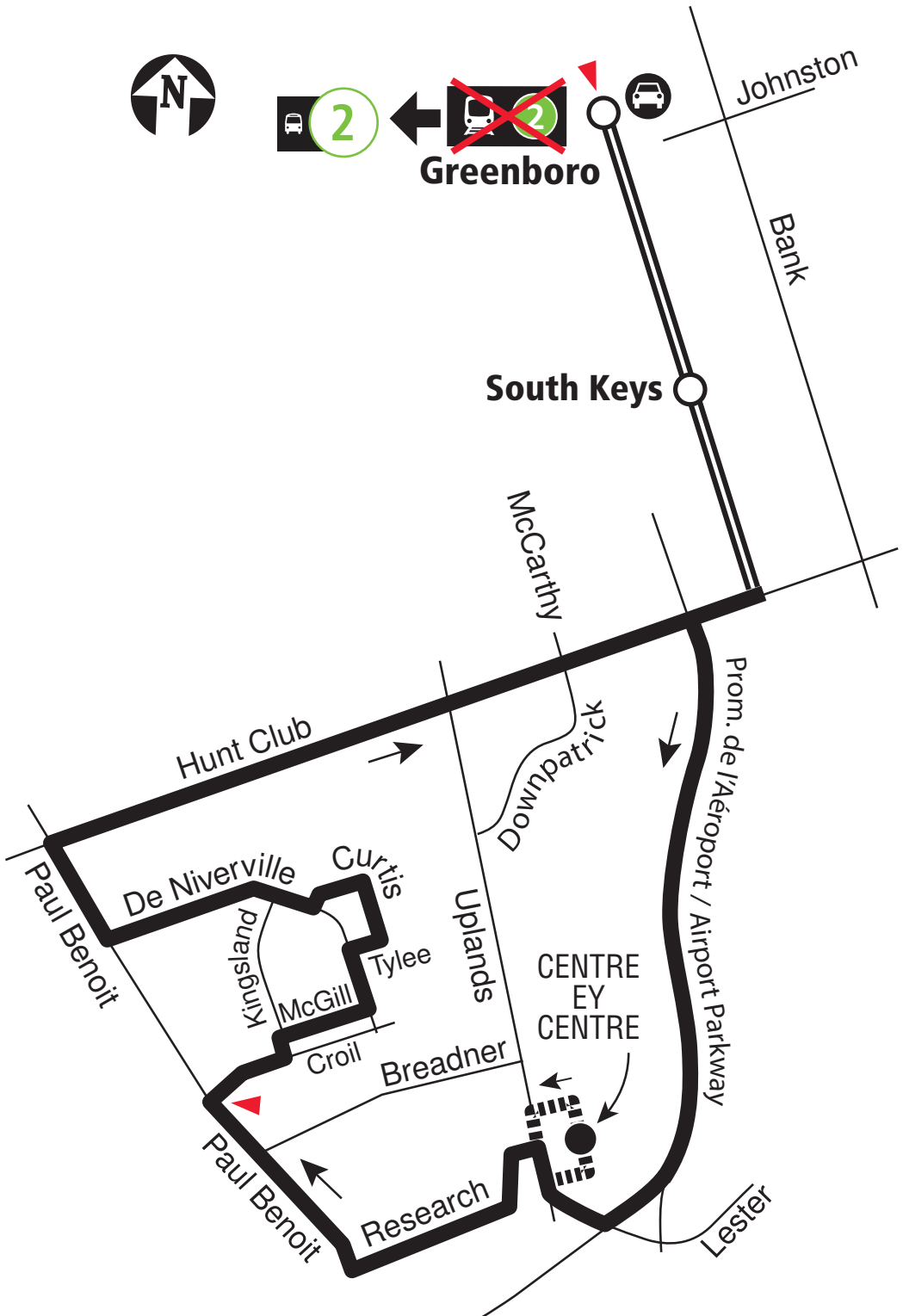
### Local

**7 days a week / 7 jours par semaine**

No weekend evening service

Aucun service en soirée la fin de semaine

### GREENBORO



### UPLANDS



Transitway & Station



Monday to Friday after noon and all day  
Saturday and Sunday / Lundi au vendredi après  
12 h et toute la journée samedi et dimanche



Park & Ride / Parc-o-bus



Timepoint / Heures de passage

2020.04



**Schedule / Horaire.....613-560-1000**

**Text / Texto .....560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective May 3, 2020**

**En vigueur 3 mai 2020**



INFO 613-741-4390  
octranspo.com





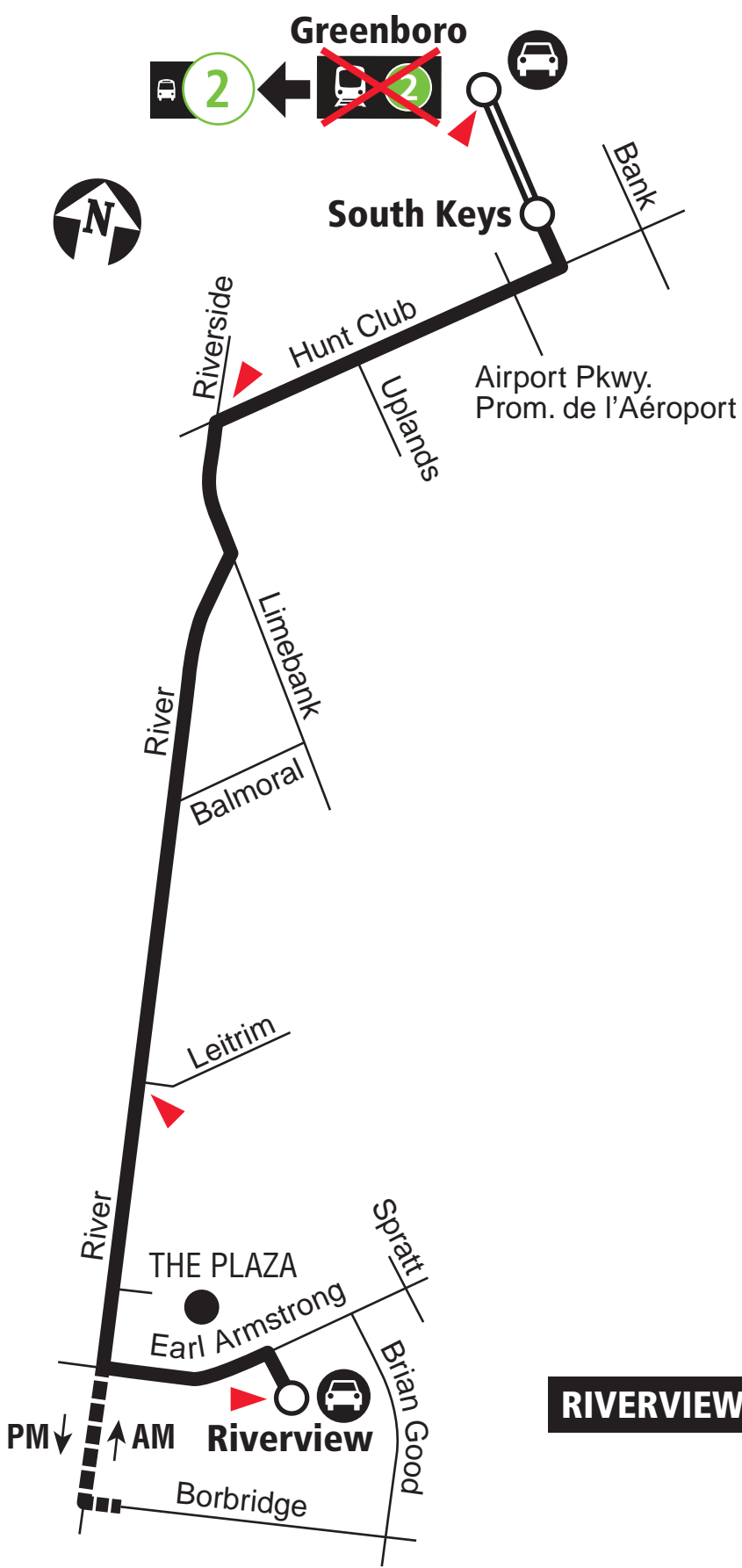
# 198

## RIVERVIEW GREENBORO

### Local

**Monday to Friday / Lundi au vendredi**  
Peak periods only  
Périodes de pointe seulement

**GREENBORO**



**RIVERVIEW**

2022.04

- Transitway & Station
- Some trips / Quelques trajets
- Park & Ride / Parc-o-bus
- Timepoint / Heures de passage

2022.04



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-560-5000**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective April 24, 2022**

**En vigueur 24 avril 2022**



**INFO 613-560-5000**  
**octranspo.com**

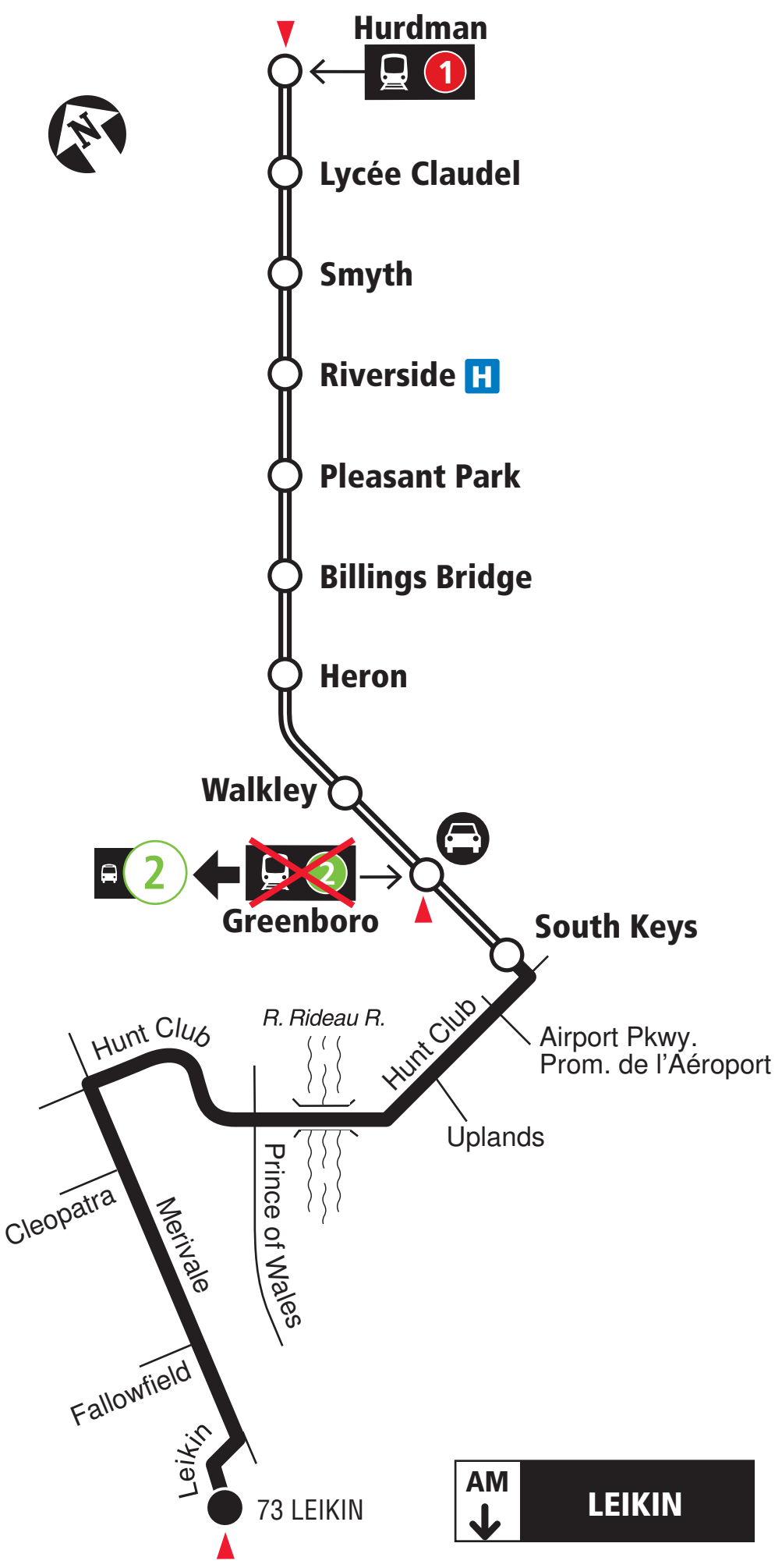
# 199

## LEIKIN HURDMAN

*Local*


**Monday to Friday / Lundi au vendredi**  
Peak periods only  
Périodes de pointe seulement

**PM**  
↑  
**HURDMAN**



-  Transitway & Station
-  Park & Ride / Parc-o-bus
-  Timepoint / Heures de passage

2020.04

 **Schedule / Horaire.....613-560-1000**  
**Text / Texto .....560560**  
*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

**Customer Service**  
**Service à la clientèle ..... 613-741-4390**  
**Lost and Found / Objets perdus..... 613-563-4011**  
**Security / Sécurité ..... 613-741-2478**

**Effective May 3, 2020**  
**En vigueur 3 mai 2020**

 **INFO 613-741-4390**  
**octranspo.com**



# 294

## HURDMAN FINDLAY CREEK

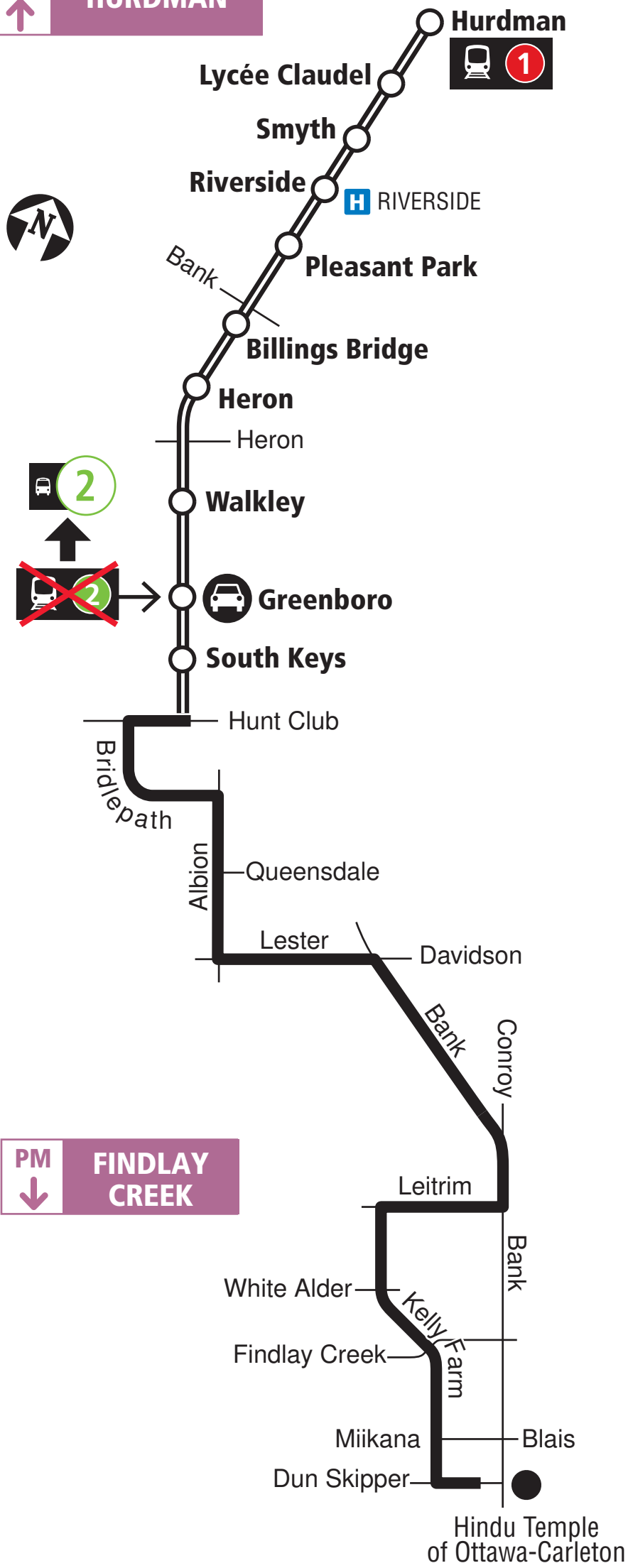
### Connexion

Monday to Friday / Lundi au vendredi

Peak periods only

Périodes de pointe seulement

AM  
↑  
**HURDMAN**



PM  
↓  
**FINDLAY CREEK**

- Transitway & Station
- Park & Ride / Parc-o-bus

2021.06



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-741-4390**

Lost and Found / Objets perdus..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective June 20, 2021**

**En vigueur 20 juin 2021**



**INFO 613-741-4390**  
**octranspo.com**



# 299

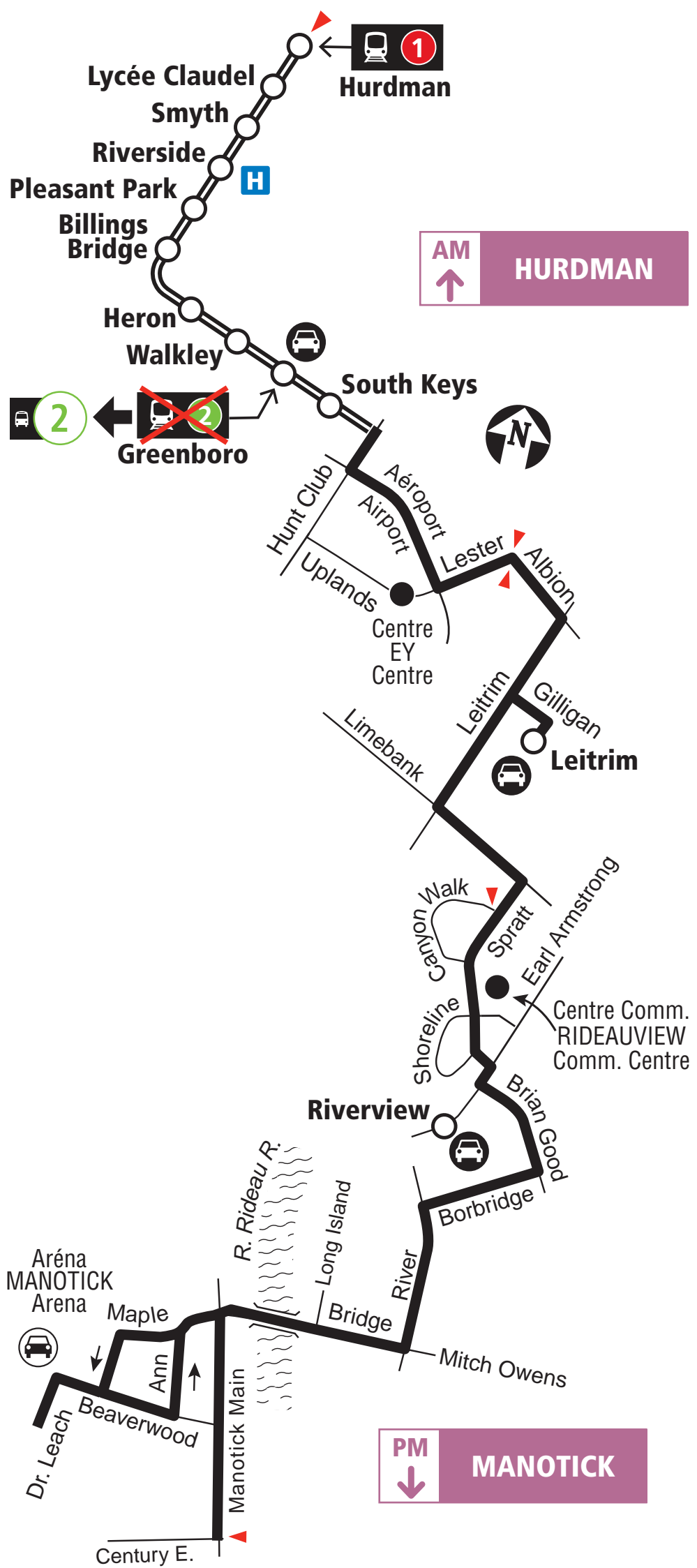
## MANOTICK HURDMAN

### Connexion

#### Monday to Friday / Lundi au vendredi

Peak periods only

Périodes de pointe seulement



2022.04

2022.04



**Schedule / Horaire ..... 613-560-1000**

**Text / Texto\* ..... 560560**

*plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres*

\*Standard message rates may apply / Les tarifs réguliers de messagerie texte peuvent s'appliquer

Customer Service

Service à la clientèle ..... **613-560-5000**

Lost and Found / Objets perdus ..... **613-563-4011**

Security / Sécurité ..... **613-741-2478**

**Effective April 24, 2022**

**En vigueur 24 avril 2022**



**INFO 613-560-5000**  
**octranspo.com**

## Appendix D – Collision Data

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# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Jan-04, Sun,03:14	Freezing Rain	Sideswipe	P.D. only	Slush	West	Slowing or stopping	Pick-up truck	Skidding/sliding	0
					West	Slowing or stopping	Pick-up truck	Other motor vehicle	
2015-Jan-26, Mon,14:35	Clear	Rear end	P.D. only	Dry	West	Changing lanes	Unknown	Other motor vehicle	0
					West	Stopped	Passenger van	Other motor vehicle	
2015-Feb-04, Wed,17:10	Snow	Rear end	P.D. only	Slush	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2015-Feb-07, Sat,21:14	Snow	Turning movement	P.D. only	Loose snow	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Feb-17, Tue,17:19	Clear	SMV other	P.D. only	Dry	West	Going ahead	Unknown	Pole (utility, power)	0
2015-Feb-27, Fri,00:49	Snow	Other	P.D. only	Loose snow	West	Reversing	Construction equipment	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Aug-23, Sun,20:00	Clear	Angle	P.D. only	Dry	North	Unknown	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	
2015-Sep-22, Tue,16:45	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Dec-21, Mon,00:20	Clear	Angle	P.D. only	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Turning left	Automobile, station wagon	Other motor vehicle	
2015-Dec-23, Wed,15:23	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Dec-24, Thu,02:19	Clear	SMV other	P.D. only	Wet	West	Going ahead	Automobile, station wagon	Curb	0
2015-Dec-28, Mon,15:59	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2016-Feb-17, Wed,06:55	Clear	Sideswipe	P.D. only	Wet	West	Overtaking	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Municipal transit bus	Other motor vehicle	
2016-Feb-25, Thu,07:41	Freezing Rain	Rear end	P.D. only	Ice	East	Turning left	Pick-up truck	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2016-Apr-01, Fri,22:07	Rain	Rear end	P.D. only	Wet	East	Going ahead	Passenger van	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2016-May-27, Fri,12:06	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2016-Jul-22, Fri,14:15	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Oct-18, Tue,16:20	Rain	Rear end	P.D. only	Wet	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2016-Nov-17, Thu,19:38	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Unknown	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Dec-29, Thu,13:59	Snow	Rear end	P.D. only	Loose snow	East	Slowing or stopping	Automobile, station wagon	Skidding/sliding	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2017-Jan-05, Thu,08:20	Clear	Sideswipe	P.D. only	Ice	East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	
2017-Jan-05, Thu,14:22	Clear	Sideswipe	P.D. only	Ice	West	Going ahead	Automobile, station wagon	Skidding/sliding	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Jan-05, Thu,14:42	Clear	SMV other	P.D. only	Ice	East	Going ahead	Pick-up truck	Skidding/sliding	0
2017-Jan-13, Fri,14:48	Clear	Sideswipe	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2017-Feb-10, Fri,14:26	Clear	Rear end	P.D. only	Dry	South	Going ahead	Pick-up truck	Other motor vehicle	0
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2017-Feb-12, Sun,00:03	Snow	Other	P.D. only	Packed snow	South	Reversing	Snow plow	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Feb-15, Wed,09:12	Snow	Rear end	Non-fatal injury	Loose snow	West	Slowing or stopping	Pick-up truck	Skidding/sliding	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2017-Mar-15, Wed,07:51	Snow	Rear end	P.D. only	Slush	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Turning left	Pick-up truck	Other motor vehicle	
2017-Apr-19, Wed,13:31	Rain	Sideswipe	P.D. only	Wet	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Turning left	Pick-up truck	Other motor vehicle	
2017-May-05, Fri,16:14	Rain	Rear end	Non-fatal injury	Wet	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-May-25, Thu,19:23	Rain	Sideswipe	P.D. only	Wet	West	Changing lanes	Municipal transit bus	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Jun-13, Tue,09:15	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Pick-up truck	Other motor vehicle	
2017-Aug-13, Sun,12:35	Clear	Rear end	Non-fatal injury	Dry	East	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Sep-16, Sat,19:00	Clear	Sideswipe	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Merging	Automobile, station wagon	Other motor vehicle	
2017-Sep-20, Wed,15:30	Clear	Rear end	P.D. only	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	





# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2017-Oct-07, Sat,20:07	Clear	Approaching	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Oct-12, Thu,06:44	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Nov-15, Wed,13:28	Clear	Rear end	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Nov-22, Wed,20:07	Clear	Rear end	Non-fatal injury	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Dec-11, Mon,17:14	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Unknown	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Dec-21, Thu,08:38	Clear	Rear end	P.D. only	Ice	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2018-Jan-08, Mon,00:23	Snow	SMV other	P.D. only	Packed snow	East	Going ahead	Automobile, station wagon	Pole (sign, parking meter)	0
2018-Jan-08, Mon,16:45	Snow	Rear end	P.D. only	Packed snow	West	Slowing or stopping	Automobile, station wagon	Skidding/sliding	0
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					West	Slowing or stopping	Automobile, station wagon	Skidding/sliding	
2018-Jan-16, Tue,08:01	Snow	Sideswipe	P.D. only	Slush	West	Slowing or stopping	Passenger van	Skidding/sliding	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-May-19, Sat,16:56	Rain	Rear end	Non-fatal injury	Wet	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Municipal transit bus	Other motor vehicle	
2018-May-27, Sun,20:40	Clear	Angle	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Truck - closed	Other motor vehicle	
2018-Jun-26, Tue,07:10	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Jun-26, Tue,17:36	Clear	Other	P.D. only	Dry	East	Reversing	Passenger van	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Aug-21, Tue,16:58	Rain	Angle	P.D. only	Wet	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2018-Aug-23, Thu,13:06	Clear	Rear end	P.D. only	Dry	East	Going ahead	Delivery van	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-17, Wed,21:28	Clear	Rear end	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-18, Thu,15:18	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Nov-13, Tue,12:35	Snow	Rear end	P.D. only	Wet	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Unknown	Unknown	Other motor vehicle	
2018-Nov-23, Fri,08:10	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Dec-03, Mon,15:20	Clear	Rear end	P.D. only	Wet	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2018-Dec-07, Fri,17:00	Clear	Rear end	P.D. only	Dry	East	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Dec-09, Sun,01:14	Clear	SMV other	P.D. only	Wet	South	Going ahead	Automobile, station wagon	Ran off road	0
2018-Dec-14, Fri,20:22	Rain	Rear end	P.D. only	Ice	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	
					South	Turning left	Automobile, station wagon	Other motor vehicle	
2018-Dec-14, Fri,20:30	Freezing Rain	Sideswipe	P.D. only	Ice	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Passenger van	Other motor vehicle	
2018-Dec-14, Fri,20:32	Freezing Rain	Rear end	P.D. only	Ice	South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Pick-up truck	Other motor vehicle	
2018-Dec-14, Fri,20:47	Freezing Rain	Rear end	P.D. only	Ice	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Unknown	Automobile, station wagon	Other motor vehicle	
2018-Dec-17, Mon,13:00	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jan-21, Mon,12:45	Clear	Sideswipe	P.D. only	Ice	East	Changing lanes	Automobile, station wagon	Skidding/sliding	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Feb-04, Mon,10:46	Clear	Turning movement	P.D. only	Wet	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Turning left	Snow plow	Other motor vehicle	
2019-Feb-19, Tue,14:35	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2019-Mar-24, Sun,09:32	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Truck and trailer	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Apr-24, Wed,09:21	Clear	Rear end	P.D. only	Wet	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Apr-24, Wed,12:08	Clear	Rear end	Non-fatal injury	Dry	West	Going ahead	Truck - closed	Other motor vehicle	0
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2019-Jun-13, Thu,19:28	Rain	Rear end	P.D. only	Wet	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Jun-14, Fri,17:15	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jun-16, Sun,21:53	Clear	Angle	Non-fatal injury	Dry	South	Turning left	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
					South	Turning left	Automobile, station wagon	Debris falling off vehicle	
2019-Aug-08, Thu,11:45	Clear	Sideswipe	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Aug-11, Sun,18:06	Clear	Rear end	P.D. only	Dry	East	Going ahead	Passenger van	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Sep-17, Tue,20:51	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Sep-26, Thu,11:30	Clear	Rear end	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2019-Oct-18, Fri,14:08	Clear	Rear end	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** AIRPORT PKWY @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2019-Nov-09, Sat,17:39	Snow	Rear end	P.D. only	Wet	East	Unknown	Unknown	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Dec-12, Thu,08:37	Clear	Rear end	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Construction equipment	Other motor vehicle	
					West	Going ahead	Truck - closed	Other motor vehicle	
2019-Dec-18, Wed,21:00	Clear	Rear end	P.D. only	Dry	North	Turning right	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Dec-28, Sat,11:13	Clear	Rear end	Non-fatal injury	Wet	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	

**Location:** BANK ST @ CAHILL DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 47

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-Jan-06, Tue,18:14	Clear	Turning movement	Non-fatal injury	Wet	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Mar-23, Mon,16:54	Clear	Rear end	P.D. only	Dry	West	Turning right	Pick-up truck	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Apr-02, Thu,07:30	Freezing Rain	Sideswipe	P.D. only	Ice	North	Going ahead	Passenger van	Other motor vehicle	0
					North	Going ahead	Pick-up truck	Other motor vehicle	
2015-Apr-19, Sun,16:45	Clear	Turning movement	Non-fatal injury	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Pick-up truck	Other motor vehicle	
2015-Jul-11, Sat,14:15	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ CAHILL DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 47

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-Aug-03, Mon,13:33	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Delivery van	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Dec-13, Sun,12:35	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Passenger van	Other motor vehicle	
2015-Dec-17, Thu,16:30	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2016-Mar-14, Mon,11:10	Rain	Turning movement	P.D. only	Wet	South	Turning left	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2016-Aug-01, Mon,16:21	Clear	Rear end	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Passenger van	Other motor vehicle	
2016-Sep-09, Fri,12:10	Clear	Rear end	P.D. only	Dry	West	Turning right	Passenger van	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2016-Nov-18, Fri,13:45	Clear	Rear end	P.D. only	Dry	South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Jan-05, Thu,08:05	Clear	Rear end	P.D. only	Ice	North	Slowing or stopping	Passenger van	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Jan-22, Sun,14:30	Clear	Turning movement	Non-fatal injury	Dry	West	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Mar-30, Thu,08:45	Clear	Sideswipe	Non-fatal injury	Dry	South	Changing lanes	Pick-up truck	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2017-Jul-01, Sat,13:37	Rain	Turning movement	Non-fatal injury	Wet	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ CAHILL DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 47

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Aug-08, Tue,12:58	Clear	Rear end	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2017-Aug-21, Mon,19:15	Clear	Turning movement	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Aug-30, Wed,15:15	Clear	Angle	Non-fatal injury	Dry	East	Going ahead	Bicycle	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Cyclist	
2017-Sep-02, Sat,15:35	Clear	Rear end	P.D. only	Dry	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2017-Sep-25, Mon,11:29	Clear	Angle	Non-fatal injury	Dry	North	Unknown	Automobile, station wagon	Other motor vehicle	0
					East	Unknown	Automobile, station wagon	Other motor vehicle	
2018-Jan-11, Thu,14:15	Rain	SMV other	Non-fatal injury	Wet	East	Turning left	Automobile, station wagon	Pedestrian	1
2018-Feb-10, Sat,17:26	Snow	Sideswipe	P.D. only	Loose snow	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Mar-08, Thu,18:35	Snow	Turning movement	Non-fatal injury	Ice	West	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Mar-23, Fri,14:18	Clear	SMV other	Non-fatal injury	Dry	East	Turning left	Automobile, station wagon	Pedestrian	1
2018-Apr-29, Sun,17:03	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jul-16, Mon,21:00	Clear	SMV other	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Ran off road	0
2018-Aug-12, Sun,08:15	Clear	Rear end	P.D. only	Dry	North	Going ahead	Pick-up truck	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-11, Thu,17:53	Clear	Rear end	Non-fatal injury	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ CAHILL DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 47

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-Nov-03, Sat,20:06	Clear	Rear end	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Dec-24, Mon,18:07	Clear	Turning movement	Non-fatal injury	Loose snow	North	Turning left	Passenger van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jan-14, Mon,17:43	Clear	Turning movement	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Jan-18, Fri,09:30	Snow	Rear end	P.D. only	Slush	East	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Jan-19, Sat,18:25	Snow	Turning movement	Non-fatal injury	Loose snow	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Feb-02, Sat,10:40	Snow	Turning movement	P.D. only	Wet	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Feb-19, Tue,15:20	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Feb-22, Fri,11:04	Clear	Sideswipe	P.D. only	Wet	South	Changing lanes	Passenger van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Mar-02, Sat,09:37	Clear	Angle	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Mar-02, Sat,19:32	Snow	Turning movement	P.D. only	Loose snow	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Mar-23, Sat,19:51	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-May-24, Fri,14:56	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	





# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ CAHILL DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 47

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2019-Jun-19, Wed,11:13	Clear	Turning movement	P.D. only	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jul-11, Thu,13:18	Clear	Turning movement	Non-fatal injury	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Motorcycle	Other motor vehicle	
2019-Aug-29, Thu,21:54	Clear	Turning movement	Non-fatal injury	Dry	South	Turning left	Passenger van	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Sep-17, Tue,11:50	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Oct-14, Mon,18:44	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Dec-22, Sun,10:21	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-Jan-12, Mon,06:21	Snow	Angle	P.D. only	Ice	North	Slowing or stopping	Pick-up truck	Skidding/sliding	0
					West	Going ahead	Passenger van	Other motor vehicle	
2015-Feb-02, Mon,19:45	Snow	Rear end	Non-fatal injury	Packed snow	South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2015-Feb-04, Wed,14:12	Clear	Rear end	Non-fatal injury	Slush	East	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Stopped	Passenger van	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-Feb-08, Sun,14:08	Snow	Angle	P.D. only	Loose snow	North	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Feb-10, Tue,15:45	Clear	Sideswipe	P.D. only	Wet	North	Changing lanes	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Truck - dump	Other motor vehicle	
2015-Feb-14, Sat,13:49	Clear	Rear end	P.D. only	Ice	South	Going ahead	Pick-up truck	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Feb-20, Fri,19:06	Snow	Rear end	P.D. only	Loose snow	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Feb-21, Sat,15:50	Snow	Rear end	P.D. only	Loose snow	South	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Feb-23, Mon,16:57	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2015-Feb-24, Tue,15:42	Clear	Angle	P.D. only	Dry	North	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Turning left	Automobile, station wagon	Other motor vehicle	
2015-Mar-07, Sat,09:29	Clear	Sideswipe	P.D. only	Wet	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Truck - closed	Other motor vehicle	
2015-Mar-20, Fri,13:12	Clear	Rear end	Non-fatal injury	Dry	East	Turning right	Pick-up truck	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Mar-25, Wed,08:08	Clear	Rear end	P.D. only	Dry	East	Turning right	Pick-up truck	Other motor vehicle	0
					East	Turning right	Passenger van	Other motor vehicle	
2015-Apr-13, Mon,17:00	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-May-06, Wed,13:30	Clear	Rear end	P.D. only	Dry	West	Going ahead	Unknown	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2015-May-07, Thu,20:39	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Passenger van	Other motor vehicle	0
					East	Turning right	Pick-up truck	Other motor vehicle	
2015-May-12, Tue,13:52	Clear	Rear end	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2015-May-22, Fri,23:13	Clear	Angle	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-May-29, Fri,13:14	Clear	Sideswipe	P.D. only	Dry	North	Slowing or stopping	Truck - closed	Other motor vehicle	0
					North	Changing lanes	Automobile, station wagon	Other motor vehicle	
2015-Jun-11, Thu,14:36	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Unknown	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Jun-14, Sun,01:31	Clear	Angle	Non-fatal injury	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Passenger van	Other motor vehicle	
2015-Jun-19, Fri,18:06	Clear	Rear end	Non-fatal injury	Dry	North	Turning right	Automobile, station wagon	Other motor vehicle	0
					North	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Jun-27, Sat,21:52	Clear	Rear end	P.D. only	Dry	North	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					North	Stopped	Pick-up truck	Other motor vehicle	
2015-Jul-04, Sat,12:51	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Changing lanes	Automobile, station wagon	Other motor vehicle	
2015-Jul-09, Thu,15:11	Clear	Rear end	P.D. only	Dry	East	Turning right	Unknown	Other motor vehicle	0
					East	Turning right	Pick-up truck	Other motor vehicle	
2015-Aug-11, Tue,13:47	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					East	Slowing or stopping	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Sep-04, Fri,12:07	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Sep-15, Tue,14:57	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Truck - dump	Other motor vehicle	
2015-Sep-23, Wed,08:00	Clear	Rear end	P.D. only	Dry	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Pick-up truck	Other motor vehicle	
2015-Oct-12, Mon,06:49	Clear	Angle	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Pick-up truck	Other motor vehicle	
2015-Oct-21, Wed,11:00	Clear	Rear end	P.D. only	Dry	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					West	Turning right	Pick-up truck	Other motor vehicle	
2015-Dec-04, Fri,14:07	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Dec-24, Thu,15:52	Clear	Rear end	P.D. only	Wet	East	Turning right	Pick-up truck	Other motor vehicle	0
					East	Turning right	Pick-up truck	Other motor vehicle	
2016-Jan-08, Fri,11:46	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2016-Jan-16, Sat,10:58	Rain	Sideswipe	P.D. only	Wet	West	Overtaking	Pick-up truck	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Jan-18, Mon,08:28	Snow	Rear end	P.D. only	Loose snow	West	Turning right	Delivery van	Other motor vehicle	0
					West	Turning right	Pick-up truck	Other motor vehicle	
2016-Feb-05, Fri,17:13	Clear	Sideswipe	P.D. only	Dry	East	Unknown	Unknown	Other motor vehicle	0
					East	Stopped	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2016-Feb-06, Sat,21:12	Clear	Angle	Non-fatal injury	Dry	North	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
					South	Turning left	Passenger van	Other motor vehicle	
					South	Turning left	Passenger van	Other motor vehicle	
2016-Feb-08, Mon,17:08	Clear	Rear end	P.D. only	Dry	South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Pick-up truck	Other motor vehicle	
2016-Feb-12, Fri,18:12	Snow	Rear end	Non-fatal injury	Ice	East	Turning right	Unknown	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2016-Feb-19, Fri,10:52	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Pick-up truck	Other motor vehicle	
2016-Feb-19, Fri,22:30	Snow	Rear end	P.D. only	Loose snow	East	Changing lanes	Unknown	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Mar-28, Mon,06:40	Rain	Rear end	P.D. only	Wet	West	Turning right	Pick-up truck	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2016-Apr-02, Sat,16:48	Clear	Rear end	P.D. only	Dry	South	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Apr-19, Tue,14:00	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2016-Apr-29, Fri,00:46	Clear	Angle	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2016-May-03, Tue,17:30	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	



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## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2016-May-13, Fri,19:43	Clear	Sideswipe	P.D. only	Dry	North	Going ahead	Motorcycle	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
					West	Turning left	Bus (other)	Other motor vehicle	
2016-May-19, Thu,17:39	Clear	Sideswipe	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2016-Jun-03, Fri,17:10	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2016-Jun-23, Thu,15:44	Clear	Angle	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Pick-up truck	Other motor vehicle	
					North	Stopped	Pick-up truck	Other motor vehicle	
2016-Jul-19, Tue,14:40	Clear	Rear end	Non-fatal injury	Dry	South	Going ahead	Truck - closed	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2016-Jul-25, Mon,16:10	Clear	SMV other	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Pole (utility, power)	0
2016-Aug-11, Thu,16:06	Clear	Rear end	P.D. only	Dry	East	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Stopped	Passenger van	Other motor vehicle	
2016-Aug-28, Sun,16:26	Rain	Rear end	P.D. only	Wet	East	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					East	Slowing or stopping	Pick-up truck	Other motor vehicle	
2016-Aug-31, Wed,17:36	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					West	Slowing or stopping	Pick-up truck	Other motor vehicle	
2016-Sep-02, Fri,14:38	Clear	Other	P.D. only	Dry	West	Reversing	Truck and trailer	Other motor vehicle	0
					East	Stopped	Pick-up truck	Other motor vehicle	
2016-Sep-20, Tue,00:25	Clear	Angle	P.D. only	Dry	North	Unknown	Unknown	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2016-Nov-15, Tue,16:50	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Pick-up truck	Other motor vehicle	
2016-Nov-24, Thu,08:45	Clear	Rear end	P.D. only	Loose snow	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Pick-up truck	Other motor vehicle	
2016-Nov-30, Wed,12:41	Rain	Sideswipe	P.D. only	Wet	North	Going ahead	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Pick-up truck	Other motor vehicle	
2016-Dec-15, Thu,10:26	Clear	Angle	Non-fatal injury	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2017-Jan-05, Thu,22:29	Rain	Rear end	P.D. only	Ice	North	Going ahead	Automobile, station wagon	Skidding/sliding	0
					North	Stopped	Pick-up truck	Other motor vehicle	
2017-Jan-06, Fri,11:04	Clear	Rear end	P.D. only	Ice	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Pick-up truck	Other motor vehicle	
2017-Feb-02, Thu,07:10	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Feb-10, Fri,12:40	Clear	Rear end	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Intercity bus	Other motor vehicle	
					East	Stopped	Delivery van	Other motor vehicle	
2017-Feb-14, Tue,00:08	Clear	SMV other	P.D. only	Dry	South	Reversing	Construction equipment	Pole (utility, power)	0
2017-Apr-17, Mon,13:56	Clear	SMV other	Non-fatal injury	Dry	West	Going ahead	Passenger van	Curb	0
2017-Apr-24, Mon,20:57	Clear	Turning movement	P.D. only	Dry	North	Turning left	Pick-up truck	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Apr-25, Tue,05:17	Clear	Angle	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2017-May-09, Tue,05:51	Clear	Angle	Non-fatal injury	Dry	East	Going ahead	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Jun-12, Mon,18:00	Clear	Rear end	P.D. only	Dry	North	Turning right	Automobile, station wagon	Other motor vehicle	0
					North	Turning right	Automobile, station wagon	Other motor vehicle	
2017-Jun-22, Thu,17:20	Clear	Sideswipe	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2017-Jul-29, Sat,15:29	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Unknown	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Unknown	Other motor vehicle	
2017-Jul-30, Sun,20:38	Clear	Sideswipe	P.D. only	Dry	East	Turning right	Unknown	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Aug-29, Tue,10:42	Clear	Turning movement	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Sep-02, Sat,09:41	Clear	Angle	P.D. only	Dry	North	Going ahead	Truck - dump	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Sep-06, Wed,17:55	Clear	Rear end	P.D. only	Dry	North	Slowing or stopping	Passenger van	Other motor vehicle	0
					North	Stopped	Passenger van	Other motor vehicle	
2017-Sep-25, Mon,14:53	Clear	Angle	Non-fatal injury	Dry	South	Going ahead	Bicycle	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Cyclist	
2017-Sep-29, Fri,13:00	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Sep-30, Sat,11:00	Clear	Rear end	P.D. only	Dry	South	Unknown	Unknown	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	





# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2017-Oct-10, Tue, 14:00	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Nov-09, Thu, 12:08	Rain	SMV other	P.D. only	Wet	South	Slowing or stopping	Automobile, station wagon	Pole (utility, power)	0
2017-Nov-28, Tue, 15:40	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Dec-28, Thu, 08:10	Snow	Rear end	P.D. only	Loose snow	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2018-Jan-02, Tue, 12:26	Snow	Rear end	P.D. only	Slush	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2018-Jan-11, Thu, 14:47	Clear	Sideswipe	P.D. only	Wet	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Feb-09, Fri, 03:30	Clear	SMV other	P.D. only	Packed snow	South	Going ahead	Automobile, station wagon	Pole (sign, parking meter)	0
2018-Feb-22, Thu, 20:15	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Mar-02, Fri, 08:30	Clear	Rear end	P.D. only	Dry	North	Going ahead	Unknown	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Mar-11, Sun, 15:35	Clear	Rear end	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Mar-26, Mon, 12:11	Clear	Rear end	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2018-Apr-26, Thu, 14:27	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-May-10, Thu,19:30	Clear	Rear end	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Jun-11, Mon,16:00	Clear	Rear end	P.D. only	Dry	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Jun-22, Fri,16:00	Clear	Rear end	P.D. only	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Jul-05, Thu,21:04	Clear	Rear end	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Jul-27, Fri,19:00	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Sep-09, Sun,22:44	Clear	Angle	Non-fatal injury	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2018-Oct-02, Tue,15:52	Clear	Rear end	Non-fatal injury	Dry	North	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-07, Sun,19:40	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Oct-17, Wed,08:05	Clear	Rear end	Non-fatal injury	Dry	North	Changing lanes	Pick-up truck	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-30, Tue,09:33	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Nov-02, Fri,16:52	Rain	Other	P.D. only	Wet	South	Reversing	Truck - closed	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Nov-12, Mon,07:31	Clear	SMV other	Non-fatal injury	Ice	East	Turning left	Automobile, station wagon	Pole (utility, power)	0



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-Nov-17, Sat,22:39	Clear	Angle	P.D. only	Wet	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Nov-30, Fri,15:20	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jan-06, Sun,18:15	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Changing lanes	Automobile, station wagon	Other motor vehicle	
2019-Jan-10, Thu,10:18	Clear	Angle	P.D. only	Slush	East	Going ahead	Pick-up truck	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Jan-12, Sat,14:35	Clear	Rear end	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jan-20, Sun,09:59	Snow	Sideswipe	P.D. only	Loose snow	East	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jan-25, Fri,09:57	Clear	Rear end	P.D. only	Ice	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-06, Wed,18:30	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Mar-12, Tue,06:00	Clear	SMV other	P.D. only	Ice	West	Turning right	Automobile, station wagon	Pole (sign, parking meter)	0
2019-Mar-20, Wed,07:03	Clear	Rear end	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-27, Wed,06:45	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

**From:** January 1, 2015    **To:** December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2019-Mar-28, Thu,15:17	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Pick-up truck	Other motor vehicle	
2019-Apr-28, Sun,23:20	Clear	Rear end	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-May-16, Thu,15:57	Clear	Sideswipe	P.D. only	Dry	North	Turning left	Pick-up truck	Other motor vehicle	0
					North	Turning left	Truck and trailer	Other motor vehicle	
2019-Jun-03, Mon,10:08	Rain	Angle	Non-fatal injury	Wet	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jun-17, Mon,15:53	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Pick-up truck	Other motor vehicle	
2019-Jun-22, Sat,10:00	Clear	Other	P.D. only	Dry	North	Turning right	Automobile, station wagon	Other	0
					West	Turning left	Pick-up truck	Debris falling off vehicle	
2019-Jun-24, Mon,09:15	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2019-Jul-17, Wed,23:42	Clear	Angle	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jul-24, Wed,19:20	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Aug-08, Thu,21:25	Clear	Rear end	Non-fatal injury	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2019-Aug-11, Sun,16:39	Clear	Rear end	P.D. only	Dry	West	Turning right	Automobile, station wagon	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Sep-04, Wed,09:56	Clear	Turning movement	P.D. only	Dry	South	Turning right	Tow truck	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Sep-29, Sun,12:34	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Oct-07, Mon,16:00	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Oct-29, Tue,11:36	Clear	Sideswipe	P.D. only	Dry	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Oct-31, Thu,11:11	Clear	Turning movement	Non-fatal injury	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Truck - tank	Other motor vehicle	
2019-Nov-06, Wed,13:20	Clear	Rear end	P.D. only	Dry	South	Going ahead	Pick-up truck	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Nov-07, Thu,14:45	Clear	Rear end	P.D. only	Dry	West	Changing lanes	Passenger van	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Nov-12, Tue,02:23	Snow	SMV other	P.D. only	Loose snow	East	Turning right	Automobile, station wagon	Curb	0
2019-Nov-13, Wed,10:04	Clear	Sideswipe	P.D. only	Packed snow	North	Turning left	Truck - tank	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2019-Nov-13, Wed,11:31	Clear	Rear end	P.D. only	Ice	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Nov-29, Fri,16:00	Clear	Rear end	P.D. only	Dry	West	Turning right	Pick-up truck	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** BANK ST @ HUNT CLUB RD

**Traffic Control:** Traffic signal

**Total Collisions:** 139

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2019-Dec-28, Sat,09:08	Clear	Rear end	P.D. only	Wet	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Pick-up truck	Other motor vehicle	

**Location:** DAZE ST @ 200 W OF BANK ST/SOUTHKEYS SC

**Traffic Control:** Traffic signal

**Total Collisions:** 5

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Jan-22, Thu,17:03	Clear	Turning movement	P.D. only	Dry	North	Turning left	Passenger van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Feb-14, Sat,14:47	Snow	Rear end	P.D. only	Slush	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2016-Mar-03, Thu,09:57	Clear	Turning movement	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Dec-02, Sat,22:10	Clear	Turning movement	P.D. only	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Pick-up truck	Other motor vehicle	
2017-Dec-15, Fri,23:45	Snow	Rear end	P.D. only	Loose snow	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	

**Location:** DAZE ST btwn 200 W OF BANK ST & BANK ST

**Traffic Control:** No control

**Total Collisions:** 3

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Oct-25, Sun,12:20	Clear	Sideswipe	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	
2016-May-16, Mon,15:30	Clear	Angle	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** DAZE ST btwn 200 W OF BANK ST & BANK ST

**Traffic Control:** No control

**Total Collisions:** 3

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2018-Oct-16, Tue,07:15	Clear	Angle	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	

**Location:** DAZE ST btwn HUNT CLUB RD & 200 W OF BANK ST

**Traffic Control:** No control

**Total Collisions:** 7

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Mar-17, Tue,15:54	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2016-Feb-14, Sun,00:29	Clear	Turning movement	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Pick-up truck	Other motor vehicle	
2016-Jun-28, Tue,12:15	Clear	SMV other	P.D. only	Dry	North	Going ahead	Pick-up truck	Curb	0
2016-Dec-30, Fri,10:49	Clear	Angle	P.D. only	Wet	West	Turning left	Delivery van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-May-26, Fri,14:14	Rain	SMV other	P.D. only	Wet	South	Going ahead	Automobile, station wagon	Skidding/sliding	0
2019-Mar-29, Fri,16:09	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Dec-11, Wed,17:30	Snow	Turning movement	P.D. only	Packed snow	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	

**Location:** HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Jan-06, Tue,17:08	Snow	Turning movement	P.D. only	Loose snow	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2015-Jan-20, Tue,18:20	Clear	Sideswipe	P.D. only	Wet	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Pick-up truck	Other motor vehicle	
2015-Mar-14, Sat,13:50	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Pick-up truck	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-Mar-17, Tue,15:20	Clear	Rear end	Non-fatal injury	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Stopped	Passenger van	Other motor vehicle	
2015-Mar-20, Fri,08:22	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Pick-up truck	Other motor vehicle	0
					East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
2015-Apr-27, Mon,13:06	Clear	Turning movement	Non-fatal injury	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2015-May-25, Mon,16:00	Rain	Angle	P.D. only	Wet	South	Turning right	Pick-up truck	Other motor vehicle	0
					West	Going ahead	Municipal transit bus	Other motor vehicle	
2015-Jul-30, Thu,17:57	Clear	Rear end	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2015-Sep-01, Tue,16:34	Clear	Rear end	Non-fatal injury	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Stopped	Passenger van	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2015-Sep-22, Tue,15:30	Clear	Rear end	P.D. only	Dry	West	Going ahead	Pick-up truck	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2015-Nov-08, Sun,12:29	Clear	Rear end	P.D. only	Dry	East	Unknown	Unknown	Other motor vehicle	0
					East	Stopped	Pick-up truck	Other motor vehicle	
2015-Dec-04, Fri,18:36	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	





# Transportation Services - Traffic Services

## Collision Details Report - Public Version

From: January 1, 2015 To: December 31, 2019

**Location:** HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

**Traffic Control:** Traffic signal

**Total Collisions:** 80

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuver	Vehicle type	First Event	No. Ped
2015-Dec-28, Mon,13:40	Clear	Rear end	P.D. only	Dry	East	Going ahead	Pick-up truck	Other motor vehicle	0
					East	Stopped	Pick-up truck	Other motor vehicle	
2016-Mar-23, Wed,07:45	Clear	Rear end	P.D. only	Dry	West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Passenger van	Other motor vehicle	
2016-Apr-22, Fri,10:19	Rain	Turning movement	P.D. only	Wet	South	Going ahead	Pick-up truck	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2016-Jun-29, Wed,10:35	Clear	Angle	P.D. only	Dry	East	Turning right	Delivery van	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2016-Sep-01, Thu,23:42	Clear	Rear end	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2016-Sep-17, Sat,09:08	Clear	Other	P.D. only	Dry	South	Reversing	Pick-up truck	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2016-Oct-24, Mon,18:30	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Passenger van	Other motor vehicle	
2016-Nov-04, Fri,18:53	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Jan-19, Thu,11:05	Clear	SMV other	Non-fatal injury	Wet	East	Going ahead	Passenger van	Pedestrian	1
2017-Jan-23, Mon,21:31	Clear	Rear end	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Jan-27, Fri,21:37	Clear	Rear end	Non-fatal injury	Ice	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	



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Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2017-Feb-09, Thu,13:11	Clear	Rear end	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Apr-20, Thu,21:03	Clear	Turning movement	Non-fatal injury	Dry	East	Turning right	Passenger van	Other motor vehicle	0
					West	Turning left	Automobile, station wagon	Other motor vehicle	
2017-Apr-28, Fri,16:06	Clear	Rear end	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Cyclist	0
					East	Going ahead	Bicycle	Other motor vehicle	
2017-May-03, Wed,15:39	Clear	Rear end	P.D. only	Dry	East	Slowing or stopping	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Jul-03, Mon,09:09	Clear	Angle	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Aug-14, Mon,09:30	Clear	Angle	Non-fatal injury	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Sep-14, Thu,08:25	Clear	Rear end	P.D. only	Dry	West	Stopped	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Sep-23, Sat,17:40	Clear	Turning movement	P.D. only	Dry	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2017-Oct-23, Mon,13:21	Clear	Rear end	P.D. only	Dry	East	Going ahead	Passenger van	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2017-Oct-28, Sat,10:30	Clear	Sideswipe	P.D. only	Dry	South	Unknown	Automobile, station wagon	Other motor vehicle	0
					South	Unknown	Automobile, station wagon	Other motor vehicle	
2017-Dec-17, Sun,13:42	Clear	Rear end	Non-fatal injury	Slush	South	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Turning left	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

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2017-Dec-20, Wed,10:30	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					North	Turning left	Automobile, station wagon	Other motor vehicle	
2018-Mar-05, Mon,14:52	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Passenger van	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-May-12, Sat,13:15	Clear	Rear end	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Automobile, station wagon	Other motor vehicle	
2018-May-21, Mon,19:20	Clear	Turning movement	P.D. only	Dry	East	Turning right	Unknown	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jun-03, Sun,12:07	Freezing Rain	Rear end	Non-fatal injury	Wet	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Jul-01, Sun,12:55	Clear	Turning movement	P.D. only	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jul-03, Tue,20:24	Clear	Rear end	Non-fatal injury	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Jul-06, Fri,23:20	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Jul-15, Sun,08:27	Clear	Angle	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Stopped	Passenger van	Other motor vehicle	
2018-Jul-16, Mon,08:49	Clear	Angle	P.D. only	Dry	North	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Jul-19, Thu,15:30	Clear	Rear end	P.D. only	Dry	East	Stopped	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Pick-up truck	Other motor vehicle	



# Transportation Services - Traffic Services

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**Location:** HUNT CLUB RD @ BRIDLE PATH DR/DAZE ST

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Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuvre	Vehicle type	First Event	No. Ped
2018-Jul-31, Tue,08:05	Clear	Rear end	Non-fatal injury	Dry	West	Going ahead	Passenger van	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Sep-08, Sat,17:45	Clear	Turning movement	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2018-Oct-06, Sat,14:07	Clear	Rear end	Non-fatal injury	Dry	East	Slowing or stopping	Truck and trailer	Other motor vehicle	0
					East	Stopped	Passenger van	Other motor vehicle	
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Oct-07, Sun,11:30	Clear	Sideswipe	P.D. only	Dry	North	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Oct-11, Thu,16:30	Fog, mist, smoke, dust	Sideswipe	P.D. only	Dry	East	Merging	Unknown	Other motor vehicle	0
					East	Merging	Automobile, station wagon	Other motor vehicle	
2018-Oct-30, Tue,18:30	Clear	Rear end	P.D. only	Wet	South	Unknown	Unknown	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Nov-22, Thu,11:30	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Delivery van	Other motor vehicle	
2018-Dec-15, Sat,17:16	Clear	Rear end	Non-fatal injury	Wet	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Slowing or stopping	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2018-Dec-18, Tue,19:47	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2018-Dec-19, Wed,16:01	Clear	Rear end	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
					East	Going ahead	Automobile, station wagon	Other motor vehicle	



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2018-Dec-24, Mon,13:04	Clear	Rear end	P.D. only	Loose snow	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jan-27, Sun,14:40	Clear	Rear end	P.D. only	Loose snow	North	Turning right	Pick-up truck	Other motor vehicle	0
					North	Turning right	Passenger van	Other motor vehicle	
2019-Jan-31, Thu,16:05	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Truck and trailer	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Feb-09, Sat,18:00	Clear	Sideswipe	P.D. only	Ice	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Feb-13, Wed,19:20	Snow	Rear end	P.D. only	Loose snow	West	Unknown	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Mar-14, Thu,21:20	Clear	Rear end	P.D. only	Dry	East	Unknown	Unknown	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-May-13, Mon,12:22	Clear	Sideswipe	P.D. only	Dry	West	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					West	Turning right	Automobile, station wagon	Other motor vehicle	
2019-May-15, Wed,21:10	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-May-18, Sat,15:00	Clear	Rear end	P.D. only	Dry	South	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Jun-08, Sat,06:09	Clear	Angle	P.D. only	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					North	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Jun-10, Mon,17:09	Clear	Rear end	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jun-27, Thu,21:46	Rain	Sideswipe	P.D. only	Wet	East	Changing lanes	Automobile, station wagon	Cyclist	0
					East	Going ahead	Bicycle	Other motor vehicle	



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2019-Jul-04, Thu,13:50	Clear	Rear end	Non-fatal injury	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Stopped	Automobile, station wagon	Other motor vehicle	
					South	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Jul-07, Sun,18:36	Clear	Turning movement	P.D. only	Dry	North	Turning left	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Aug-08, Thu,19:03	Clear	Rear end	P.D. only	Dry	West	Unknown	Unknown	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Aug-20, Tue,15:05	Clear	Rear end	Non-fatal injury	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Pick-up truck	Other motor vehicle	
2019-Aug-23, Fri,17:48	Clear	Angle	Non-fatal injury	Dry	South	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Aug-31, Sat,18:02	Clear	Angle	Non-fatal injury	Dry	East	Turning right	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Sep-01, Sun,13:51	Clear	Rear end	P.D. only	Dry	East	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					East	Going ahead	Automobile, station wagon	Other motor vehicle	
2019-Sep-12, Thu,06:00	Clear	Sideswipe	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Going ahead	Pick-up truck	Other motor vehicle	
2019-Sep-14, Sat,13:04	Clear	Angle	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	



# Transportation Services - Traffic Services

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2019-Sep-17, Tue,17:00	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	0
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Sep-19, Thu,13:30	Clear	Rear end	Non-fatal injury	Dry	East	Turning right	Pick-up truck	Other motor vehicle	0
					East	Turning right	Automobile, station wagon	Other motor vehicle	
2019-Sep-20, Fri,15:30	Clear	Sideswipe	P.D. only	Dry	East	Changing lanes	Pick-up truck	Other motor vehicle	0
					East	Stopped	Automobile, station wagon	Other motor vehicle	
2019-Dec-08, Sun,16:43	Clear	Sideswipe	P.D. only	Wet	South	Changing lanes	Automobile, station wagon	Other motor vehicle	0
					South	Going ahead	Automobile, station wagon	Other motor vehicle	

## Appendix E – Trip Generation Data

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# Hunt Club

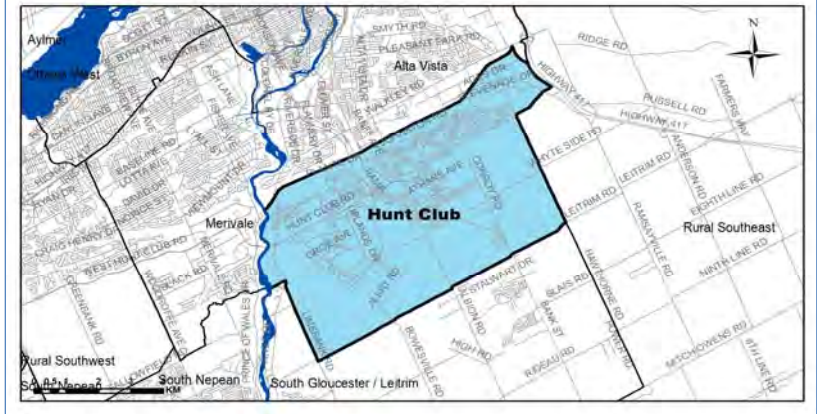
## Demographic Characteristics

Population	56,820	Actively Travelled	45,210
Employed Population	25,400	Number of Vehicles	30,390
Households	22,130	Area (km <sup>2</sup> )	52.3

Occupation Status (age 5+)	Male	Female	Total
Full Time Employed	11,620	10,650	22,280
Part Time Employed	1,130	2,000	3,130
Student	7,910	7,300	15,210
Retiree	3,690	4,680	8,380
Unemployed	730	700	1,430
Homemaker	90	1,950	2,030
Other	420	660	1,080
<b>Total:</b>	<b>25,580</b>	<b>27,950</b>	<b>53,520</b>

Traveller Characteristics	Male	Female	Total
Transit Pass Holders	5,960	7,020	12,980
Licensed Drivers	18,420	19,280	37,700
Telecommuters	80	190	270
Trips made by residents	66,220	74,780	141,000

Selected Indicators	
Daily Trips per Person (age 5+)	2.63
Vehicles per Person	0.53
Number of Persons per Household	2.57
Daily Trips per Household	6.37
Vehicles per Household	1.37
Workers per Household	1.15
Population Density (Pop/km <sup>2</sup> )	1090

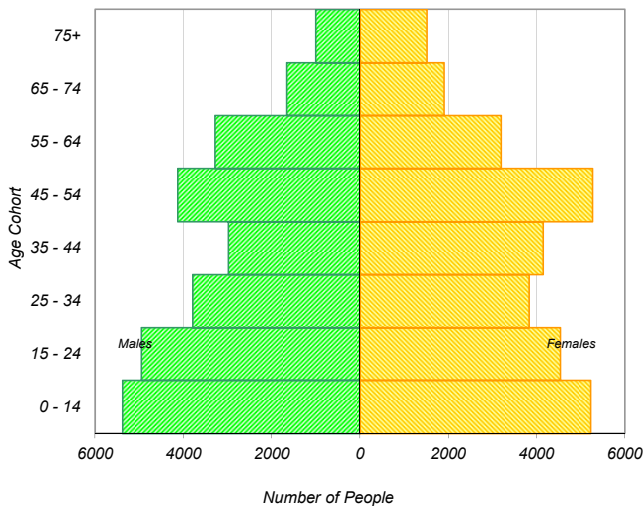


Household Size		
1 person	4,880	22%
2 persons	7,100	32%
3 persons	3,880	18%
4 persons	3,940	18%
5+ persons	2,330	11%
<b>Total:</b>	<b>22,130</b>	<b>100%</b>

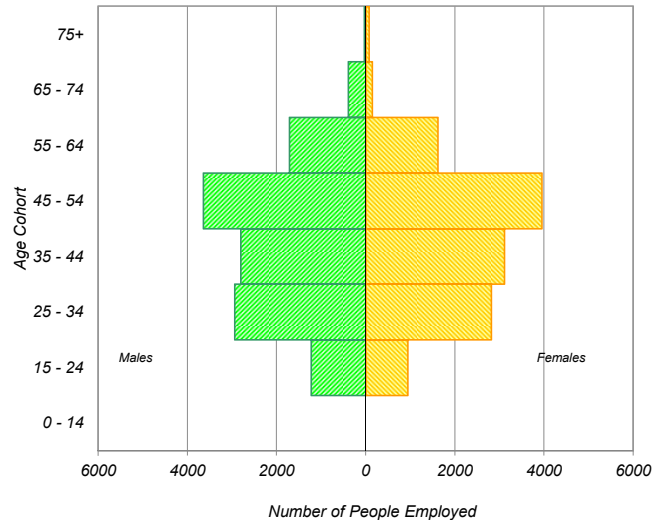
Households by Vehicle Availability		
0 vehicles	2,030	9%
1 vehicle	11,340	51%
2 vehicles	7,400	33%
3 vehicles	1,220	6%
4+ vehicles	140	1%
<b>Total:</b>	<b>22,130</b>	<b>100%</b>

Households by Dwelling Type		
Single-detached	6,980	32%
Semi-detached	2,150	10%
Townhouse	8,900	40%
Apartment/Condo	4,110	19%
<b>Total:</b>	<b>22,130</b>	<b>100%</b>

Population



Employed Population



\* In 2005 data was only collected for household members aged 11+ therefore these results cannot be compared to the 2011 data.

## Travel Patterns

### Top Five Destinations of Trips from Hunt Club

#### AM Peak Period



### Summary of Trips to and from Hunt Club

#### AM Peak Period (6:30 - 8:59)

Districts	Destinations of Trips From		Origins of Trips To	
	District	% Total	District	% Total
Ottawa Centre	3,320	10%	180	1%
Ottawa Inner Area	3,060	10%	830	4%
Ottawa East	960	3%	540	3%
Beacon Hill	380	1%	170	1%
Alta Vista	7,990	25%	1,980	10%
Hunt Club	8,550	27%	8,550	44%
Merivale	3,130	10%	960	5%
Ottawa West	580	2%	360	2%
Bayshore / Cedarview	540	2%	230	1%
Orléans	630	2%	950	5%
Rural East	50	0%	140	1%
Rural Southeast	190	1%	1,210	6%
South Gloucester / Leirtrim	870	3%	1,100	6%
South Nepean	440	1%	920	5%
Rural Southwest	180	1%	220	1%
Kanata / Stittsville	420	1%	490	3%
Rural West	60	0%	80	0%
Île de Hull	380	1%	50	0%
Hull Périphérie	170	1%	50	0%
Plateau	0	0%	80	0%
Aylmer	0	0%	160	1%
Rural Northwest	0	0%	110	1%
Pointe Gatineau	70	0%	70	0%
Gatineau Est	80	0%	120	1%
Rural Northeast	30	0%	20	0%
Buckingham / Masson-Angers	0	0%	0	0%
<b>Ontario Sub-Total:</b>	<b>31,350</b>	<b>98%</b>	<b>18,910</b>	<b>97%</b>
<b>Québec Sub-Total:</b>	<b>730</b>	<b>2%</b>	<b>660</b>	<b>3%</b>
<b>Total:</b>	<b>32,080</b>	<b>100%</b>	<b>19,570</b>	<b>100%</b>

### Trips by Trip Purpose

24 Hours	From District		To District		Within District	
Work or related	19,270	25%	12,680	16%	3,720	9%
School	9,690	12%	1,260	2%	3,410	8%
Shopping	6,290	8%	9,030	12%	7,130	17%
Leisure	6,830	9%	5,190	7%	3,880	9%
Medical	2,210	3%	1,090	1%	180	0%
Pick-up / drive passenger	5,400	7%	5,740	7%	3,610	9%
Return Home	25,220	32%	39,090	51%	18,040	43%
Other	3,490	4%	3,100	4%	2,190	5%
<b>Total:</b>	<b>78,400</b>	<b>100%</b>	<b>77,180</b>	<b>100%</b>	<b>42,160</b>	<b>100%</b>

AM Peak (06:30 - 08:59)	From District		To District		Within District	
Work or related	12,470	53%	6,990	63%	1,840	22%
School	7,350	31%	1,150	10%	3,190	37%
Shopping	260	1%	390	4%	330	4%
Leisure	360	2%	340	3%	370	4%
Medical	650	3%	140	1%	20	0%
Pick-up / drive passenger	1,480	6%	880	8%	1,340	16%
Return Home	420	2%	570	5%	670	8%
Other	560	2%	570	5%	780	9%
<b>Total:</b>	<b>23,550</b>	<b>100%</b>	<b>11,030</b>	<b>100%</b>	<b>8,540</b>	<b>100%</b>

PM Peak (15:30 - 17:59)	From District		To District		Within District	
Work or related	460	3%	530	2%	140	1%
School	350	2%	0	0%	50	1%
Shopping	1,370	9%	2,130	10%	1,530	16%
Leisure	1,440	9%	1,230	6%	1,080	11%
Medical	240	2%	120	1%	10	0%
Pick-up / drive passenger	1,420	9%	2,010	9%	930	9%
Return Home	9,130	59%	15,540	70%	5,730	58%
Other	990	6%	780	3%	400	4%
<b>Total:</b>	<b>15,400</b>	<b>100%</b>	<b>22,340</b>	<b>100%</b>	<b>9,870</b>	<b>100%</b>

Peak Period (%)	Total:	% of 24 Hours	Within District (%)
24 Hours	197,740		21%
AM Peak Period	43,120	22%	20%
PM Peak Period	47,610	24%	21%

### Trips by Primary Travel Mode

24 Hours	From District		To District		Within District	
Auto Driver	47,460	61%	47,270	61%	22,130	52%
Auto Passenger	12,000	15%	11,370	15%	6,360	15%
Transit	13,980	18%	13,850	18%	1,660	4%
Bicycle	560	1%	580	1%	360	1%
Walk	310	0%	350	0%	8,370	20%
Other	4,100	5%	3,740	5%	3,290	8%
<b>Total:</b>	<b>78,410</b>	<b>100%</b>	<b>77,160</b>	<b>100%</b>	<b>42,170</b>	<b>100%</b>

AM Peak (06:30 - 08:59)	From District		To District		Within District	
Auto Driver	10,420	44%	8,350	76%	3,700	43%
Auto Passenger	2,740	12%	1,080	10%	1,190	14%
Transit	7,540	32%	710	6%	270	3%
Bicycle	220	1%	130	1%	100	1%
Walk	150	1%	20	0%	1,720	20%
Other	2,490	11%	760	7%	1,570	18%
<b>Total:</b>	<b>23,560</b>	<b>100%</b>	<b>11,050</b>	<b>100%</b>	<b>8,550</b>	<b>100%</b>

PM Peak (15:30 - 17:59)	From District		To District		Within District	
Auto Driver	10,960	71%	12,380	55%	5,340	54%
Auto Passenger	2,590	17%	2,910	13%	1,880	19%
Transit	1,330	9%	5,460	24%	270	3%
Bicycle	120	1%	180	1%	80	1%
Walk	30	0%	40	0%	1,710	17%
Other	360	2%	1,360	6%	580	6%
<b>Total:</b>	<b>15,390</b>	<b>100%</b>	<b>22,330</b>	<b>100%</b>	<b>9,860</b>	<b>100%</b>

Avg Vehicle Occupancy	From District		To District		Within District	
24 Hours	1.25		1.24		1.29	
AM Peak Period	1.26		1.13		1.32	
PM Peak Period	1.24		1.24		1.35	

Transit Modal Split	From District		To District		Within District	
24 Hours	19%		19%		6%	
AM Peak Period	36%		7%		5%	
PM Peak Period	9%		26%		4%	

### 3.2 Recommended Residential Trip Generation Rates

A blended trip rate was developed from the three data sources through application of a rank-sum weighting process, considering the strengths and weaknesses of each dataset for the dwelling type in question. The recommended blended **residential person-trip rates** are presented in **Table 3**. All rates represent person-trips per dwelling unit and are to be applied to the **AM or PM peak period**.

**Table 3: Recommended Residential Person-trip Rates**

ITE Land Use Code	Dwelling Unit Type	Period	Person-Trip Rate
210	Single-detached	AM	2.05
		PM	2.48
220	Multi-Unit (Low-Rise)	AM	1.35
		PM	1.58
221 & 222	Multi-Unit (High-Rise)	AM	0.80
		PM	0.90

### 3.3 Adjustment Factors – Peak Period to Peak Hour

The various trip generation data sources require some adjustment to standardize the data for developing robust blended trip rates. The peak period conversion factor in **Table 4** may be used where applicable to develop trip generation rate estimates in the desired format.

**Table 4: Adjustment Factors for Residential Trip Generation Rates**

Factor	Application	Apply To	Period	Value
Peak Period Conversion Factor	<b>Peak period to peak hour conversion.</b> Because the 2020 TRANS Trip Generation Study reports trip generation rates by peak period, factors must be applied if the practitioner requires peak hour rates. In practice, the conversion to peak hour trip rates should occur <b>after</b> the application of modal shares.	Person-trip rates per peak period	AM	0.50
			PM	0.44
		Vehicle trip rates per peak period	AM	0.48
			PM	0.44
		Transit trip rates per peak period	AM	0.55
			PM	0.47
		Cycling trip rates per peak period	AM	0.58
			PM	0.48
		Walking trip rates per peak period	AM	0.58
			PM	0.52

**Table 8: Residential Mode Share for High-Rise Multifamily Housing**

District	Period	Mode				
		Auto Driver	Auto Pass.	Transit	Cycling	Walking
Ottawa Centre	AM	18%	2%	26%	1%	52%
	PM	17%	9%	21%	1%	52%
Ottawa Inner Area	AM	26%	6%	28%	5%	34%
	PM	25%	8%	21%	6%	39%
Île de Hull	AM	27%	3%	37%	12%	21%
	PM	26%	8%	27%	11%	28%
Ottawa East	AM	39%	7%	38%	2%	13%
	PM	40%	14%	28%	3%	15%
Beacon Hill	AM	48%	9%	30%	3%	10%
	PM	52%	16%	28%	0%	4%
Alta Vista	AM	38%	12%	42%	2%	7%
	PM	45%	16%	28%	2%	9%
Hunt Club	AM	39%	6%	44%	1%	9%
	PM	44%	11%	35%	2%	9%
Merivale	AM	41%	6%	42%	2%	8%
	PM	41%	11%	33%	2%	13%
Ottawa West	AM	28%	11%	41%	3%	16%
	PM	33%	11%	26%	7%	23%
Bayshore/Cedarview	AM	40%	12%	38%	2%	8%
	PM	40%	15%	33%	1%	11%
Hull Périphérie	AM	48%	11%	30%	1%	10%
	PM	47%	15%	23%	3%	13%
Orleans	AM	54%	7%	29%	0%	10%
	PM	61%	13%	21%	0%	6%
South Gloucester / Leitrim	AM	50%	15%	25%	1%	9%
	PM	53%	17%	21%	1%	9%
South Nepean	AM	58%	6%	30%	2%	4%
	PM	54%	15%	25%	0%	7%
Kanata - Stittsville	AM	43%	26%	28%	0%	4%
	PM	55%	19%	21%	0%	5%
Plateau	AM	53%	9%	35%	3%	1%
	PM	65%	7%	25%	2%	1%
Aylmer	AM	45%	17%	25%	0%	13%
	PM	31%	21%	23%	4%	20%
Pointe Gatineau	AM	44%	15%	24%	3%	14%
	PM	52%	15%	20%	2%	11%
Gatineau Est	AM	53%	10%	25%	0%	12%
	PM	61%	10%	25%	0%	4%
Masson-Angers	AM	63%	15%	19%	0%	3%
	PM	64%	18%	16%	0%	1%
Other Rural Districts	AM	63%	15%	19%	0%	3%
	PM	64%	18%	16%	0%	1%

# Movie Theater (445)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Weekday,**  
**AM Peak Hour of Generator**

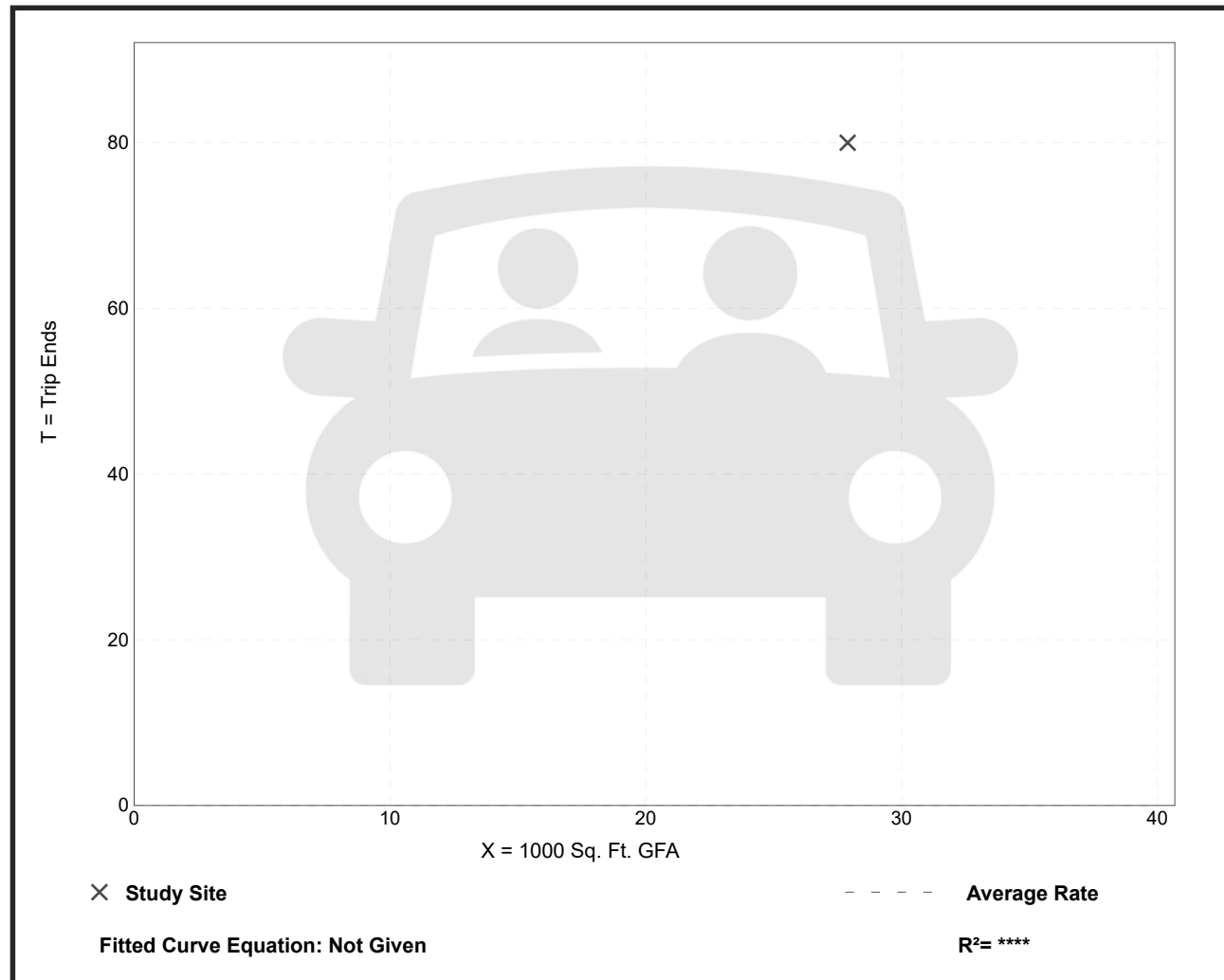
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 1  
 Avg. 1000 Sq. Ft. GFA: 28  
 Directional Distribution: Not Available

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.87	2.87 - 2.87	*

## Data Plot and Equation

*Caution – Small Sample Size*



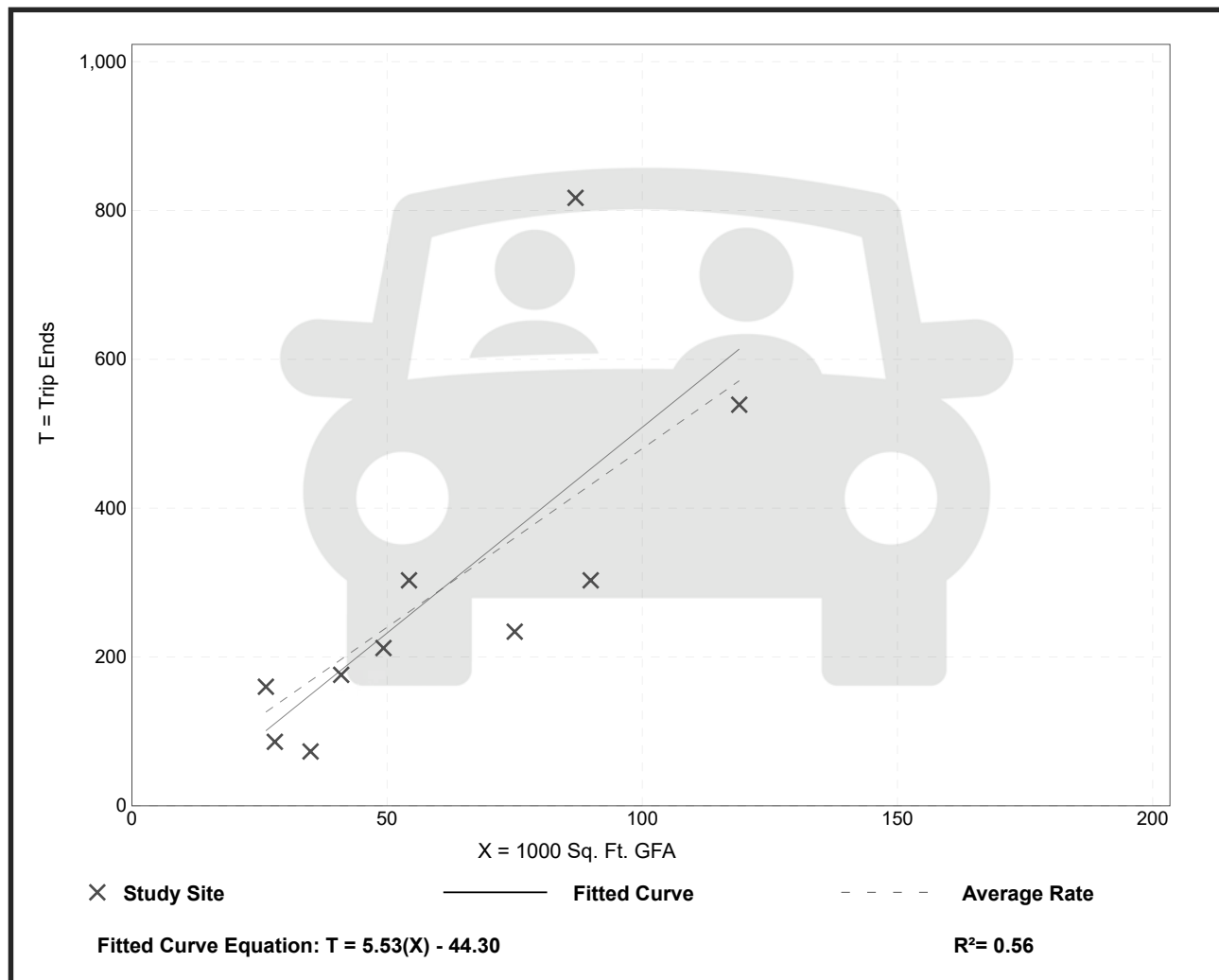
# Movie Theater (445)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Friday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 4 and 6 p.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 10  
 Avg. 1000 Sq. Ft. GFA: 60  
 Directional Distribution: 62% entering, 38% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
4.80	2.09 - 9.40	2.22

## Data Plot and Equation



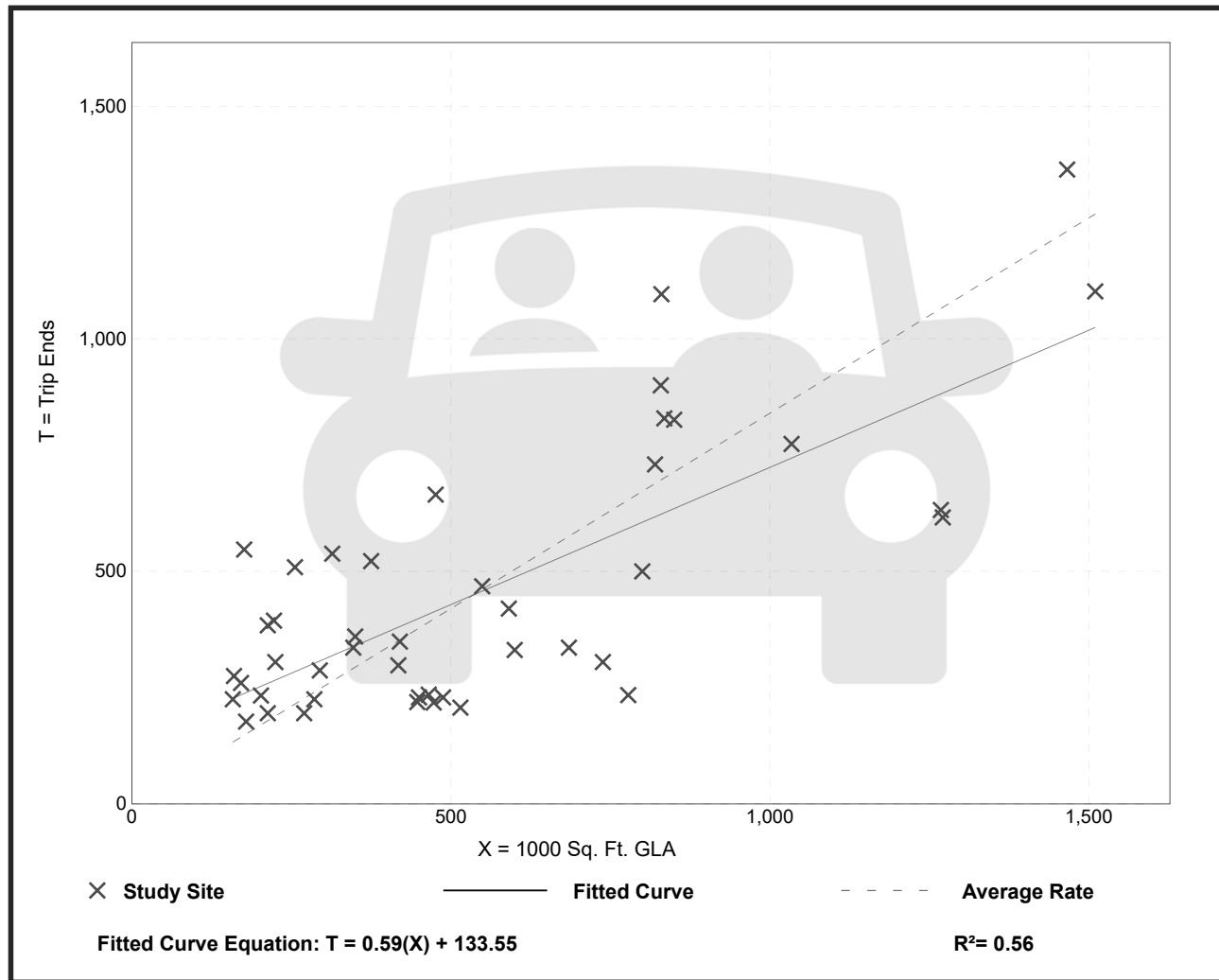
# Shopping Center (>150k) (820)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GLA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 7 and 9 a.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 44  
 Avg. 1000 Sq. Ft. GLA: 546  
 Directional Distribution: 62% entering, 38% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
0.84	0.30 - 3.11	0.42

## Data Plot and Equation



# Strip Retail Plaza (<40k) (822)

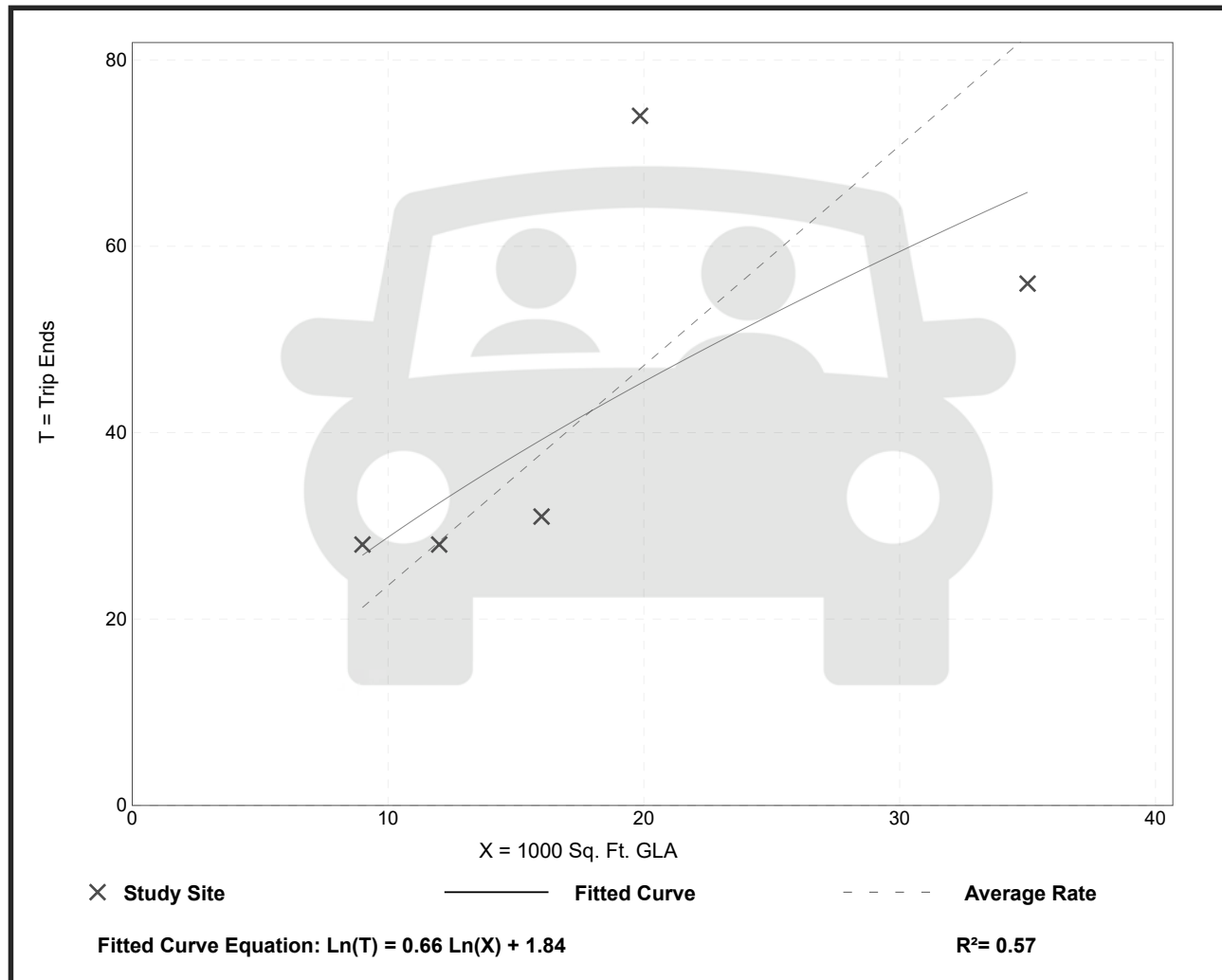
**Vehicle Trip Ends vs: 1000 Sq. Ft. GLA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 7 and 9 a.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 5  
 Avg. 1000 Sq. Ft. GLA: 18  
 Directional Distribution: 60% entering, 40% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
2.36	1.60 - 3.73	0.94

## Data Plot and Equation

*Caution – Small Sample Size*





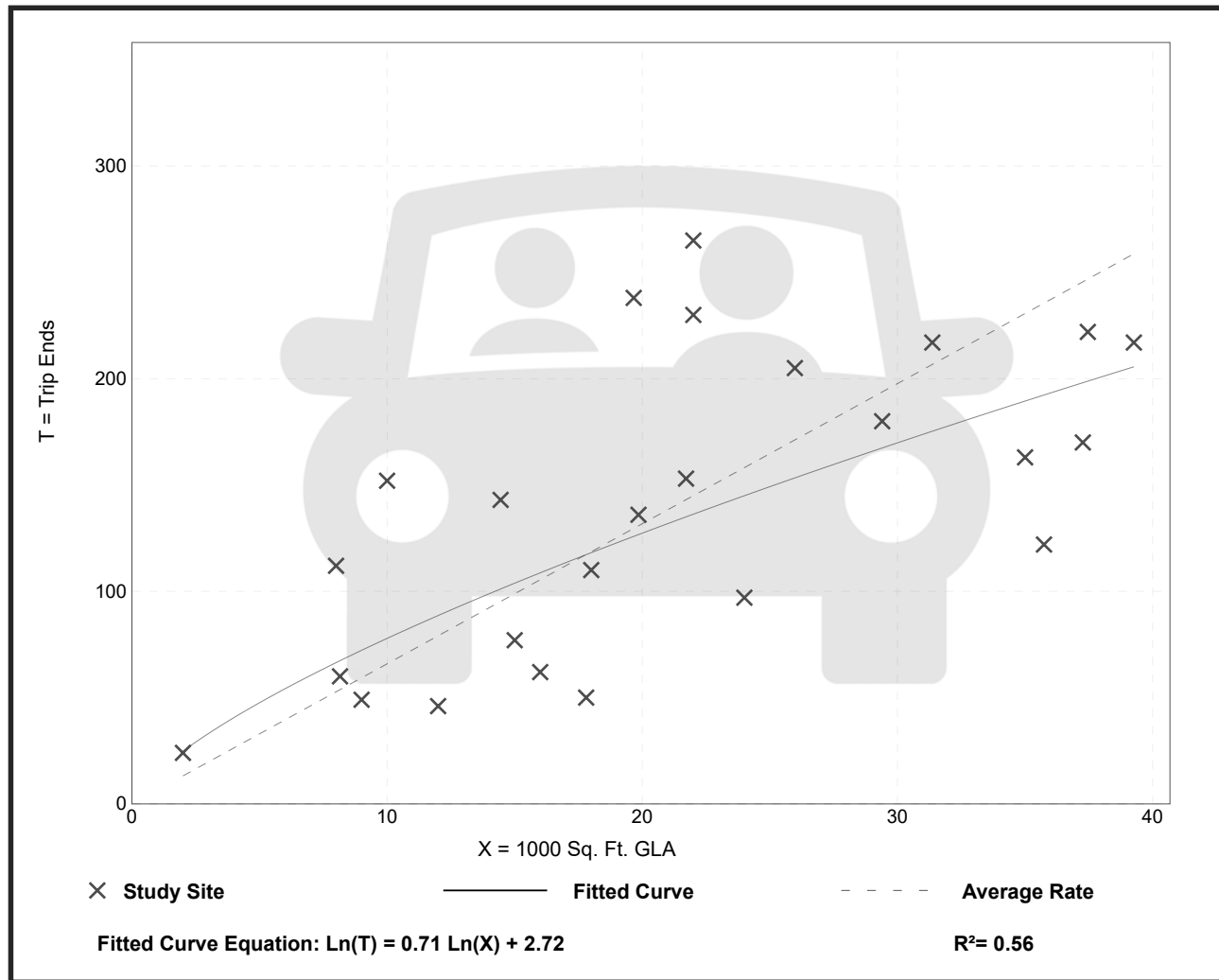
# Strip Retail Plaza (<40k) (822)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GLA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 4 and 6 p.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 25  
 Avg. 1000 Sq. Ft. GLA: 21  
 Directional Distribution: 50% entering, 50% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.59	2.81 - 15.20	2.94

## Data Plot and Equation



# Apparel Store (876)

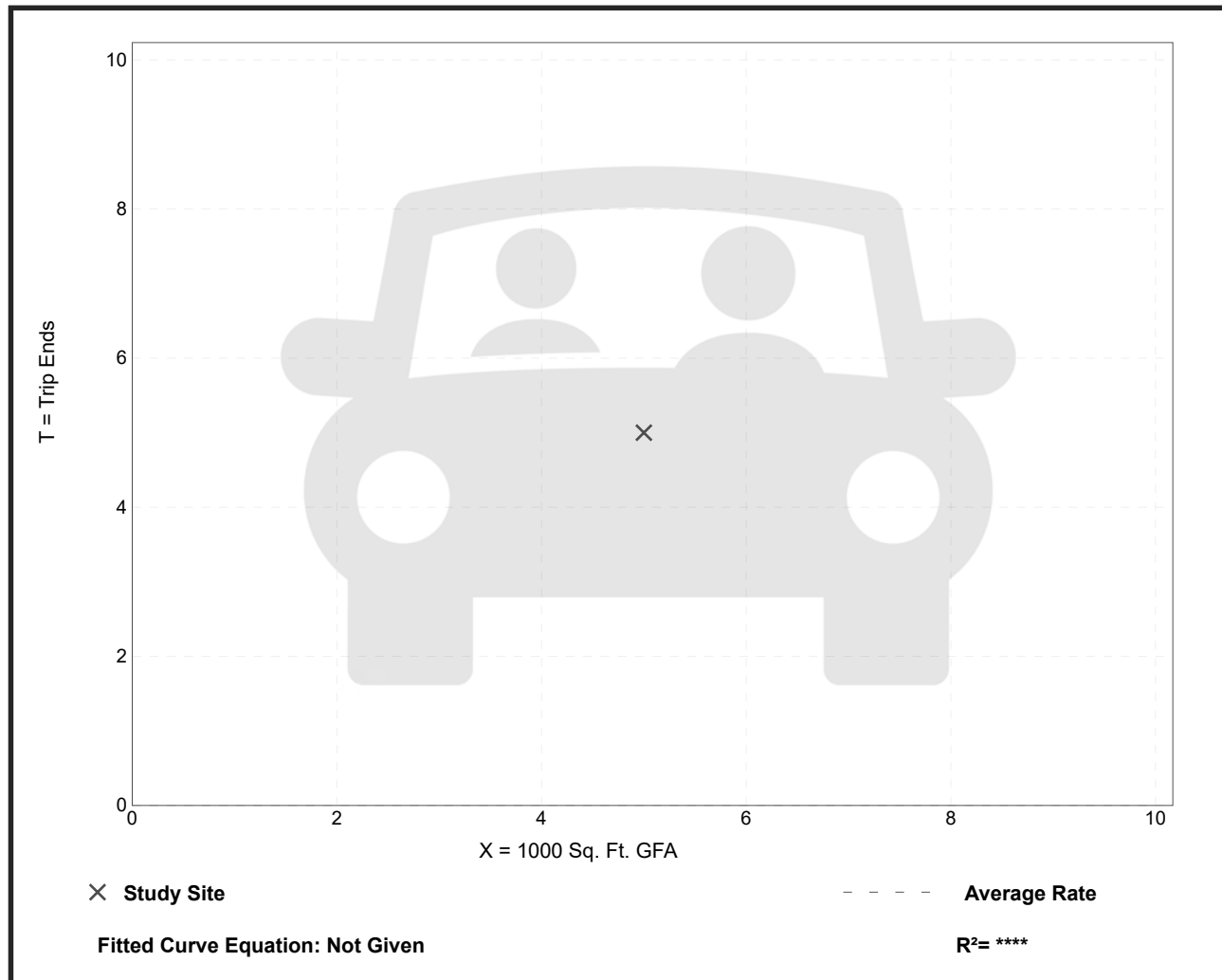
**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 7 and 9 a.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 1  
 Avg. 1000 Sq. Ft. GFA: 5  
 Directional Distribution: 80% entering, 20% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.00	1.00 - 1.00	*

## Data Plot and Equation

*Caution – Small Sample Size*





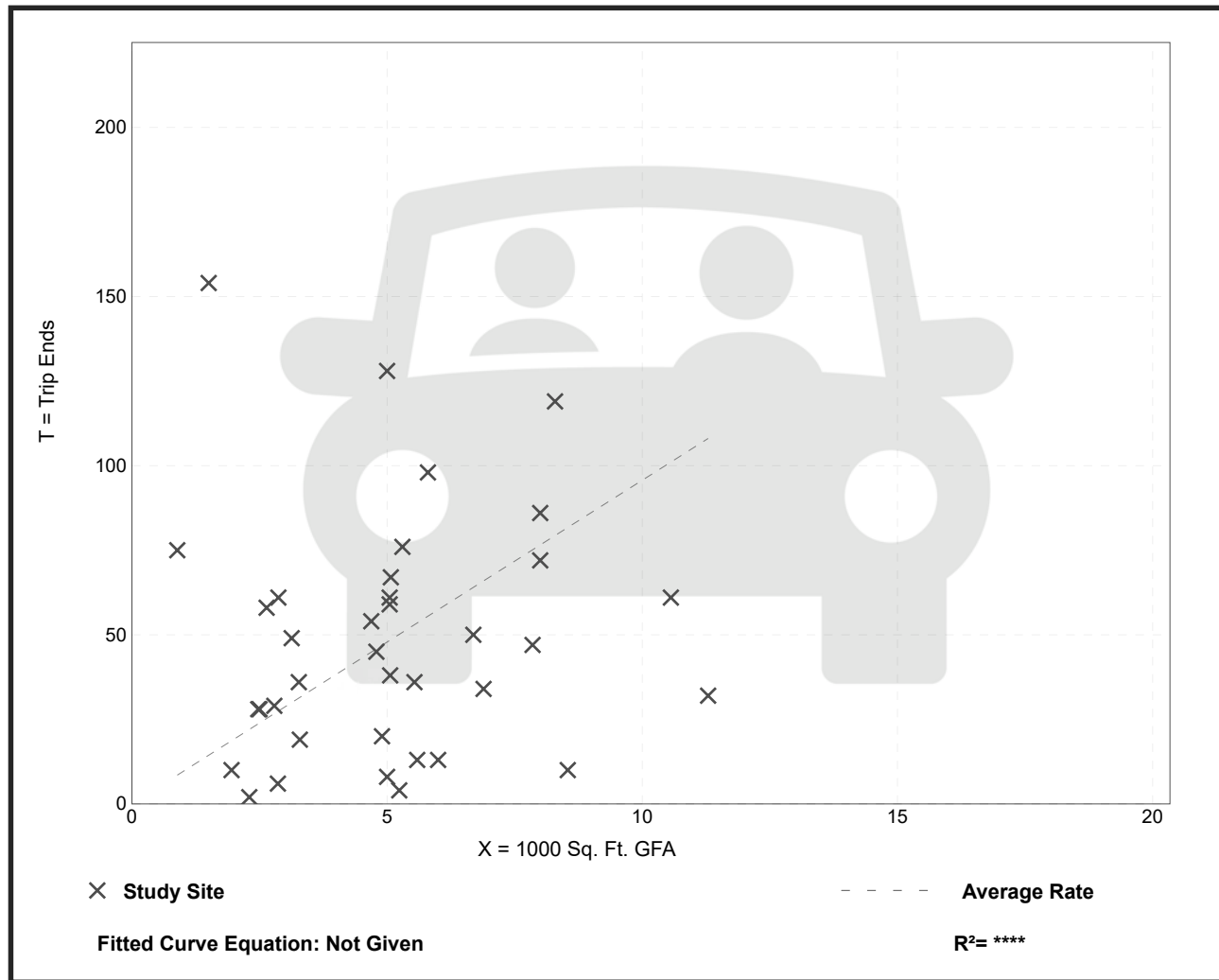
# High-Turnover (Sit-Down) Restaurant (932)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 7 and 9 a.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 37  
 Avg. 1000 Sq. Ft. GFA: 5  
 Directional Distribution: 55% entering, 45% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.57	0.76 - 102.39	11.61

## Data Plot and Equation



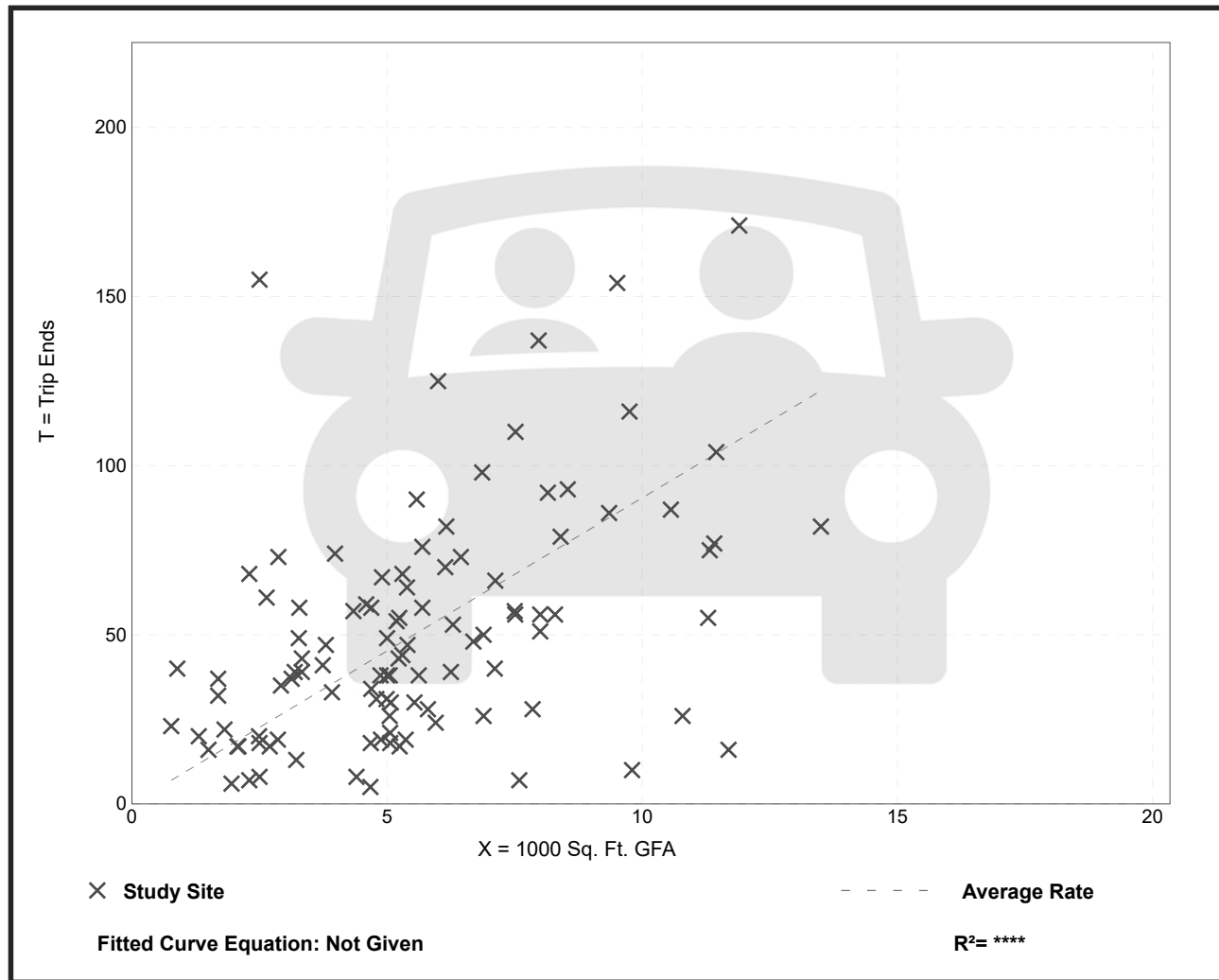
# High-Turnover (Sit-Down) Restaurant (932)

**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Weekday,**  
**Peak Hour of Adjacent Street Traffic,**  
**One Hour Between 4 and 6 p.m.**  
**Setting/Location: General Urban/Suburban**  
 Number of Studies: 104  
 Avg. 1000 Sq. Ft. GFA: 6  
 Directional Distribution: 61% entering, 39% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.05	0.92 - 62.00	6.18

## Data Plot and Equation



# Land Use: 222 Multifamily Housing (High-Rise)

## Description

High-rise multifamily housing includes apartments and condominiums that have more than 10 levels (floors) of residence. They are likely to have one or more elevators. Multifamily housing (low-rise) (Land Use 220), multifamily housing (mid-rise) (Land Use 221), and affordable housing (Land Use 223) are related land uses.

## Additional Data

In prior editions of *Parking Generation*, the high-rise multifamily housing sites were further divided into rental and condominium categories. An investigation of parking demand data found no clear differences in parking demand patterns between the rental and condominium sites within the ITE database. As more data are compiled for future editions, this land use classification can be reinvestigated.

The average parking supply ratios for the study sites with parking supply information are shown in the table below.

Setting	Proximity to Rail Transit	Parking Supply Ratio	
		Per Dwelling Unit	Per Bedroom
Center City Core	Within ½ mile of rail transit	0.7 (14 sites)	0.6 (13 sites)
Dense Multi-Use Urban	Within ½ mile of rail transit	0.6 (6 sites)	0.5 (6 sites)
	Not within ½ mile of rail transit	0.6 (1 site)	0.3 (1 site)
General Urban/Suburban	Within ½ mile of rail transit	Not Available	Not Available
	Not within ½ mile of rail transit	1.2 (6 sites)	0.9 (1 site)

The sites were surveyed in the 1980s, the 2000s, and the 2010s in District of Columbia, Tennessee, and Virginia.

*It is expected that the number of bedrooms and number of residents are likely correlated to the parking demand generated by a residential site. Parking studies of multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex). Future parking studies should also indicate the number of levels contained in the residential building.*

## Source Numbers

71, 402, 583

# Multifamily Housing (High Rise) (222)

## Peak Period Parking Demand vs: Dwelling Units

On a: Weekday (Monday - Friday)

Setting/Location: Dense Multi-Use Urban (< 1/2 mile to rail transit)

Peak Period of Parking Demand: 10:00 p.m. - 5:00 a.m.

Number of Studies: 3

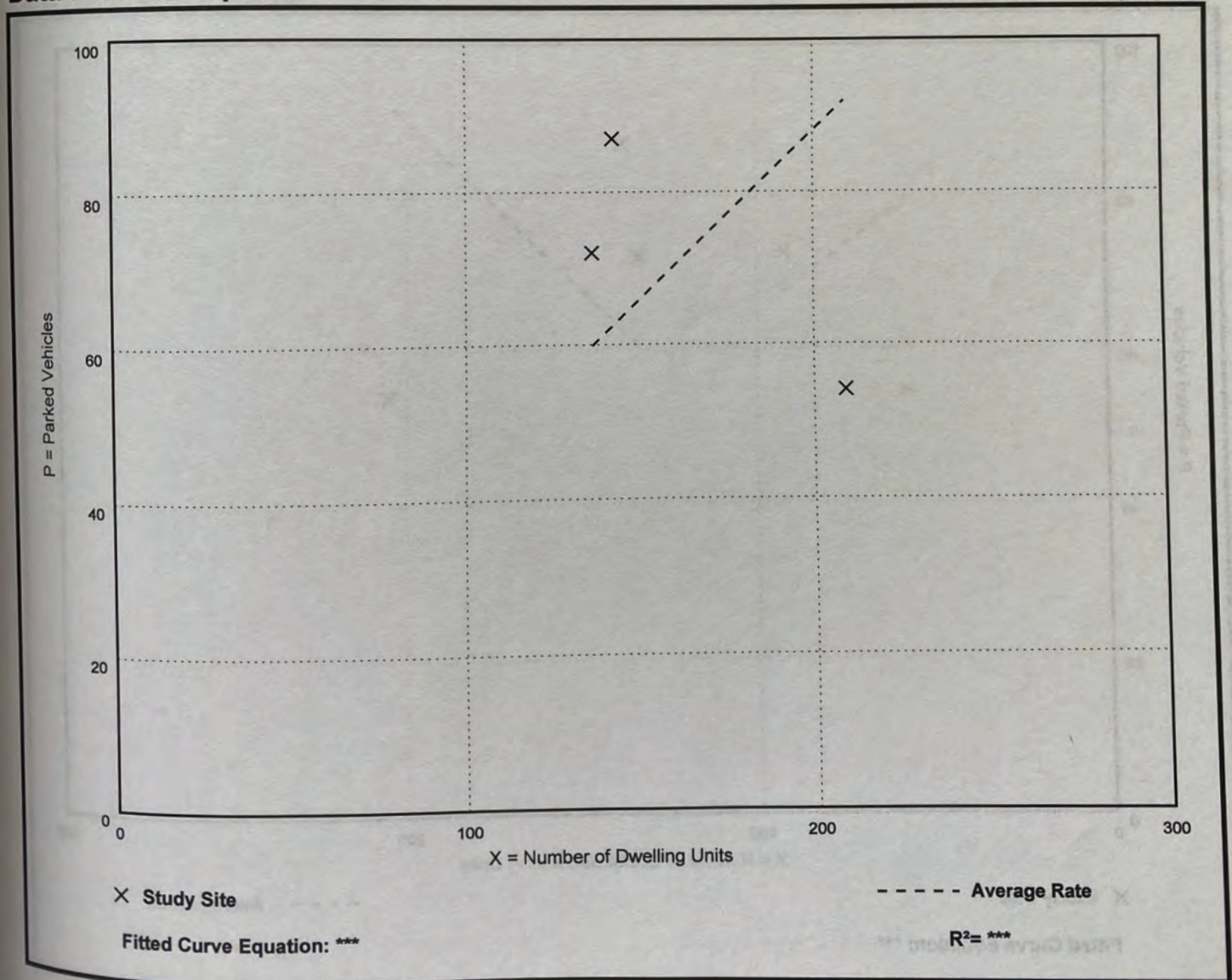
Avg. Num. of Dwelling Units: 162

## Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.44	0.26 - 0.61	0.35 / 0.61	***	0.19 ( 43% )

## Data Plot and Equation

Caution - Small Sample Size



# Multifamily Housing (High Rise) (222)

Peak Period Parking Demand vs: Occupied Dwelling Units

On a: Weekday (Monday - Friday)

Setting/Location: Dense Multi-Use Urban (< 1/2 mile to rail transit)

Peak Period of Parking Demand: 10:00 p.m. - 5:00 a.m.

Number of Studies: 3

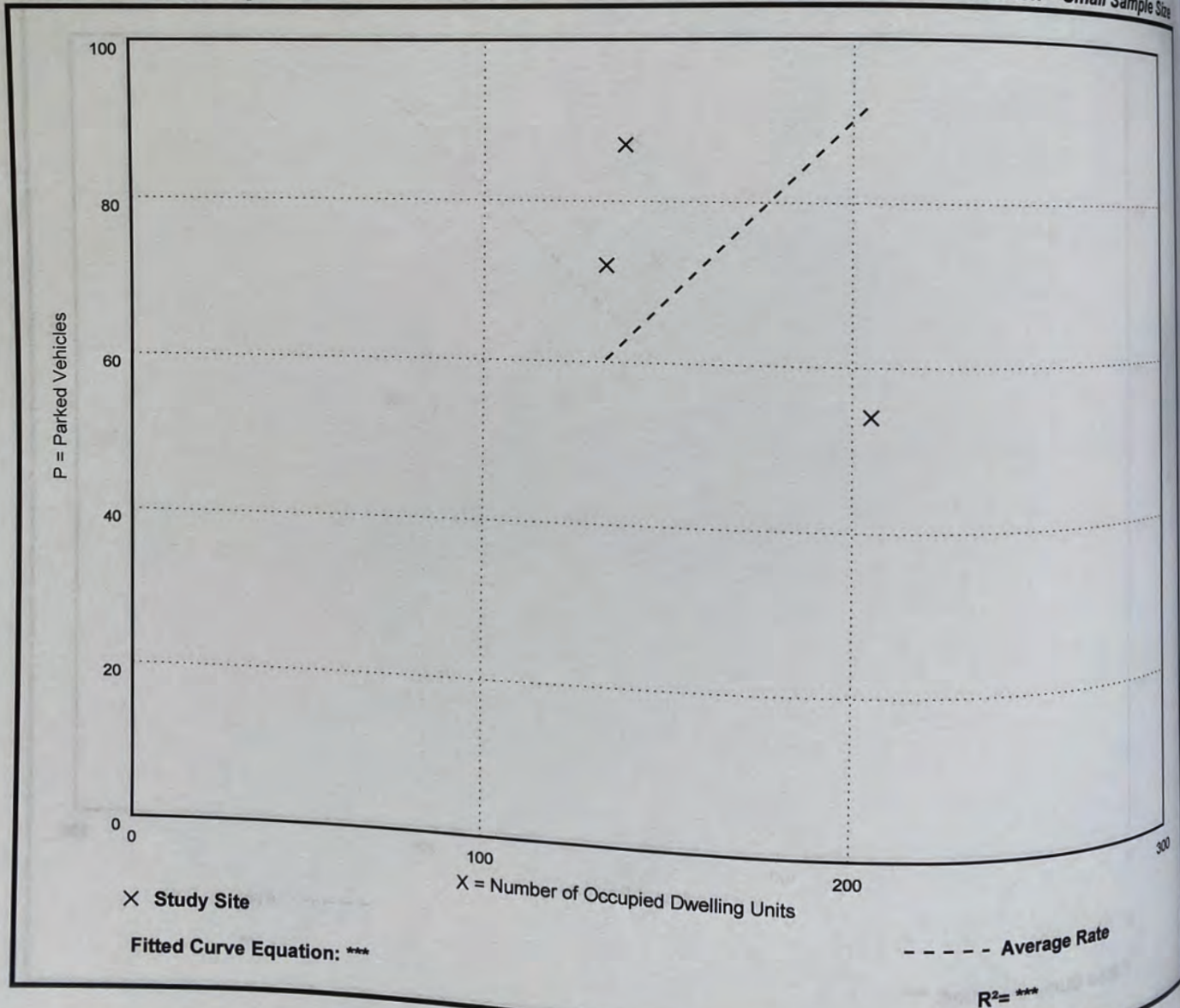
Avg. Num. of Occupied Dwelling Units: 159

## Peak Period Parking Demand per Occupied Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.45	0.26 - 0.63	0.35 / 0.63	***	0.20 (44%)

## Data Plot and Equation

Caution - Small Sample Size





# Multifamily Housing (High Rise) (222)

## Peak Period Parking Demand vs: Bedrooms

On a: Weekday (Monday - Friday)

Setting/Location: Dense Multi-Use Urban (< 1/2 mile to rail transit)

Peak Period of Parking Demand: 10:00 p.m. - 5:00 a.m.

Number of Studies: 3

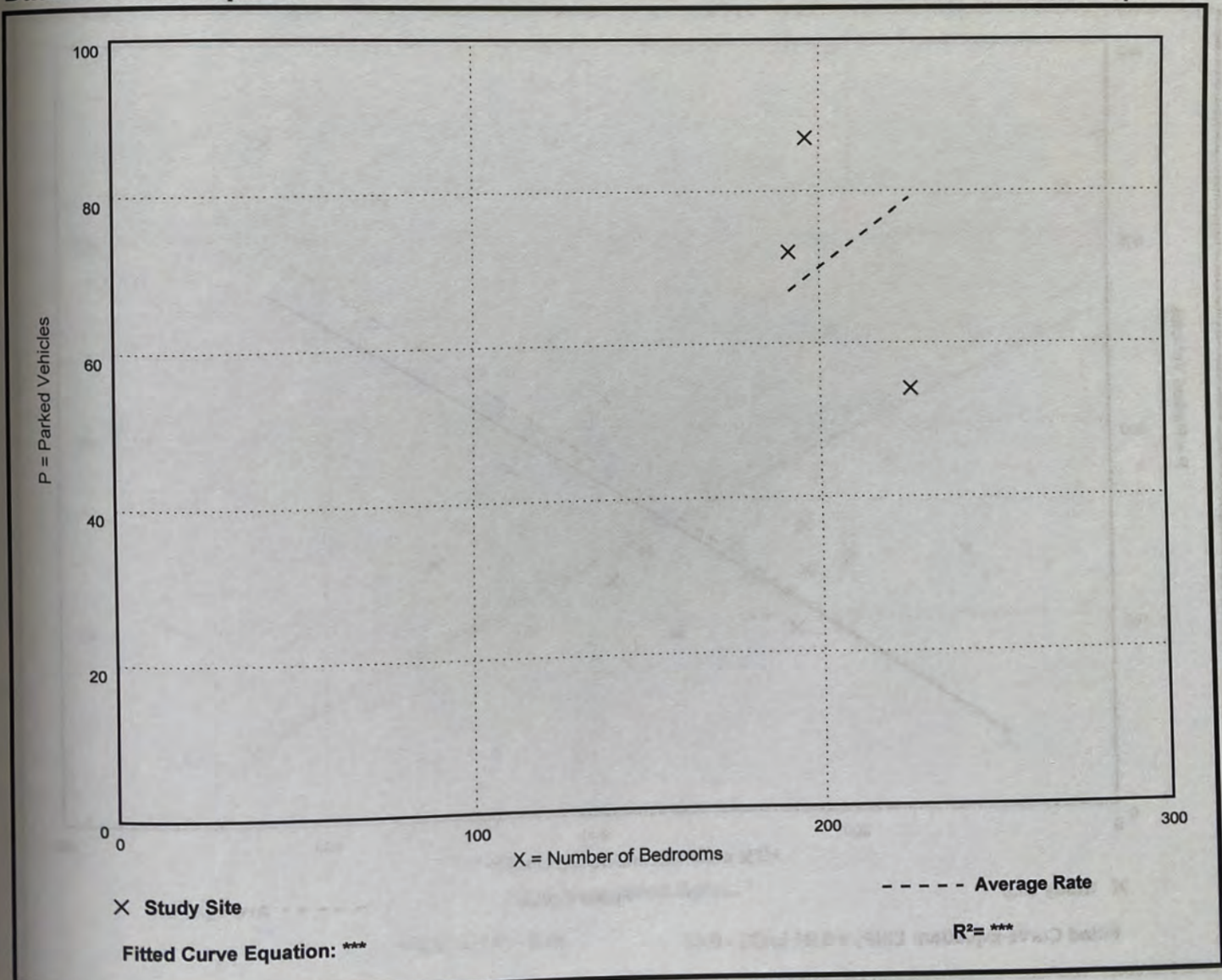
Avg. Num. of Bedrooms: 204

## Peak Period Parking Demand per Bedroom

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.35	0.24 - 0.44	0.28 / 0.44	***	0.11 ( 31% )

## Data Plot and Equation

Caution - Small Sample Size



## Appendix F – TDM Checklists

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## TDM-Supportive Development Design and Infrastructure Checklist: *Residential Developments (multi-family or condominium)*

<i>Legend</i>	
<b>REQUIRED</b>	The Official Plan or Zoning By-law provides related guidance that must be followed
<b>BASIC</b>	The measure is generally feasible and effective, and in most cases would benefit the development and its users
<b>BETTER</b>	The measure could maximize support for users of sustainable modes, and optimize development performance

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>1. WALKING &amp; CYCLING: ROUTES</b>		
<b>1.1 Building location &amp; access points</b>		
BASIC	1.1.1 Locate building close to the street, and do not locate parking areas between the street and building entrances	<input checked="" type="checkbox"/>
BASIC	1.1.2 Locate building entrances in order to minimize walking distances to sidewalks and transit stops/stations	<input checked="" type="checkbox"/>
BASIC	1.1.3 Locate building doors and windows to ensure visibility of pedestrians from the building, for their security and comfort	<input checked="" type="checkbox"/>
<b>1.2 Facilities for walking &amp; cycling</b>		
REQUIRED	1.2.1 Provide convenient, direct access to stations or major stops along rapid transit routes within 600 metres; minimize walking distances from buildings to rapid transit; provide pedestrian-friendly, weather-protected (where possible) environment between rapid transit accesses and building entrances; ensure quality linkages from sidewalks through building entrances to integrated stops/stations ( <i>see Official Plan policy 4.3.3</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.2 Provide safe, direct and attractive pedestrian access from public sidewalks to building entrances through such measures as: reducing distances between public sidewalks and major building entrances; providing walkways from public streets to major building entrances; within a site, providing walkways along the front of adjoining buildings, between adjacent buildings, and connecting areas where people may congregate, such as courtyards and transit stops; and providing weather protection through canopies, colonnades, and other design elements wherever possible ( <i>see Official Plan policy 4.3.12</i> )	<input checked="" type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
REQUIRED	1.2.3 Provide sidewalks of smooth, well-drained walking surfaces of contrasting materials or treatments to differentiate pedestrian areas from vehicle areas, and provide marked pedestrian crosswalks at intersection sidewalks (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.4 Make sidewalks and open space areas easily accessible through features such as gradual grade transition, depressed curbs at street corners and convenient access to extra-wide parking spaces and ramps (see <i>Official Plan policy 4.3.10</i> )	<input checked="" type="checkbox"/>
REQUIRED	1.2.5 Include adequately spaced inter-block/street cycling and pedestrian connections to facilitate travel by active transportation. Provide links to the existing or planned network of public sidewalks, multi-use pathways and on-road cycle routes. Where public sidewalks and multi-use pathways intersect with roads, consider providing traffic control devices to give priority to cyclists and pedestrians (see <i>Official Plan policy 4.3.11</i> )	<input checked="" type="checkbox"/>
BASIC	1.2.6 Provide safe, direct and attractive walking routes from building entrances to nearby transit stops	<input checked="" type="checkbox"/>
BASIC	1.2.7 Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible	<input checked="" type="checkbox"/>
BASIC	1.2.8 Design roads used for access or circulation by cyclists using a target operating speed of no more than 30 km/h, or provide a separated cycling facility	<input checked="" type="checkbox"/>
<b>1.3 Amenities for walking &amp; cycling</b>		
BASIC	1.3.1 Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails	<input checked="" type="checkbox"/>
BASIC	1.3.2 Provide wayfinding signage for site access (where required, e.g. when multiple buildings or entrances exist) and egress (where warranted, such as when directions to reach transit stops/stations, trails or other common destinations are not obvious)	<input checked="" type="checkbox"/>

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>2. WALKING &amp; CYCLING: END-OF-TRIP FACILITIES</b>		
<b>2.1 Bicycle parking</b>		
REQUIRED	2.1.1 Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see <i>Official Plan policy 4.3.6</i> )	<input checked="" type="checkbox"/>
REQUIRED	2.1.2 Provide the number of bicycle parking spaces specified for various land uses in different parts of Ottawa; provide convenient access to main entrances or well-used areas (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
REQUIRED	2.1.3 Ensure that bicycle parking spaces and access aisles meet minimum dimensions; that no more than 50% of spaces are vertical spaces; and that parking racks are securely anchored (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BASIC	2.1.4 Provide bicycle parking spaces equivalent to the expected number of resident-owned bicycles, plus the expected peak number of visitor cyclists	<input checked="" type="checkbox"/>
<b>2.2 Secure bicycle parking</b>		
REQUIRED	2.2.1 Where more than 50 bicycle parking spaces are provided for a single residential building, locate at least 25% of spaces within a building/structure, a secure area (e.g. supervised parking lot or enclosure) or bicycle lockers (see <i>Zoning By-law Section 111</i> )	<input checked="" type="checkbox"/>
BETTER	2.2.2 Provide secure bicycle parking spaces equivalent to at least the number of units at condominiums or multi-family residential developments	<input checked="" type="checkbox"/>
<b>2.3 Bicycle repair station</b>		
BETTER	2.3.1 Provide a permanent bike repair station, with commonly used tools and an air pump, adjacent to the main bicycle parking area (or secure bicycle parking area, if provided)	<input checked="" type="checkbox"/>
<b>3. TRANSIT</b>		
<b>3.1 Customer amenities</b>		
BASIC	3.1.1 Provide shelters, lighting and benches at any on-site transit stops	<input type="checkbox"/> N/A
BASIC	3.1.2 Where the site abuts an off-site transit stop and insufficient space exists for a transit shelter in the public right-of-way, protect land for a shelter and/or install a shelter	<input type="checkbox"/> N/A
BETTER	3.1.3 Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	<input type="checkbox"/> N/A

TDM-supportive design & infrastructure measures: <i>Residential developments</i>		Check if completed & add descriptions, explanations or plan/drawing references
<b>4. RIDESHARING</b>		
<b>4.1 Pick-up &amp; drop-off facilities</b>		
<b>BASIC</b>	4.1.1 Provide a designated area for carpool drivers (plus taxis and ride-hailing services) to drop off or pick up passengers without using fire lanes or other no-stopping zones	<input type="checkbox"/> UNDER CONSIDERATION
<b>5. CARSHARING &amp; BIKESHARING</b>		
<b>5.1 Carshare parking spaces</b>		
<b>BETTER</b>	5.1.1 Provide up to three carshare parking spaces in an R3, R4 or R5 Zone for specified residential uses (see <i>Zoning By-law Section 94</i> )	<input type="checkbox"/> N/A
<b>5.2 Bikeshare station location</b>		
<b>BETTER</b>	5.2.1 Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	<input type="checkbox"/> UNDER CONSIDERATION
<b>6. PARKING</b>		
<b>6.1 Number of parking spaces</b>		
<b>REQUIRED</b>	6.1.1 Do not provide more parking than permitted by zoning, nor less than required by zoning, unless a variance is being applied for	<input checked="" type="checkbox"/>
<b>BASIC</b>	6.1.2 Provide parking for long-term and short-term users that is consistent with mode share targets, considering the potential for visitors to use off-site public parking	<input checked="" type="checkbox"/>
<b>BASIC</b>	6.1.3 Where a site features more than one use, provide shared parking and reduce the cumulative number of parking spaces accordingly (see <i>Zoning By-law Section 104</i> )	<input checked="" type="checkbox"/>
<b>BETTER</b>	6.1.4 Reduce the minimum number of parking spaces required by zoning by one space for each 13 square metres of gross floor area provided as shower rooms, change rooms, locker rooms and other facilities for cyclists in conjunction with bicycle parking (see <i>Zoning By-law Section 111</i> )	<input type="checkbox"/> UNDER CONSIDERATION
<b>6.2 Separate long-term &amp; short-term parking areas</b>		
<b>BETTER</b>	6.2.1 Provide separate areas for short-term and long-term parking (using signage or physical barriers) to permit access controls and simplify enforcement (i.e. to discourage residents from parking in visitor spaces, and vice versa)	<input checked="" type="checkbox"/>

**TDM Measures Checklist:**  
*Residential Developments (multi-family, condominium or subdivision)*

Legend	
<b>BASIC</b>	The measure is generally feasible and effective, and in most cases would benefit the development and its users
<b>BETTER</b>	The measure could maximize support for users of sustainable modes, and optimize development performance
★	The measure is one of the most dependably effective tools to encourage the use of sustainable modes

TDM measures: Residential developments		Check if proposed & add descriptions
<b>1. TDM PROGRAM MANAGEMENT</b>		
<b>1.1 Program coordinator</b>		
<b>BASIC</b>	★ 1.1.1	Designate an internal coordinator, or contract with an external coordinator <input checked="" type="checkbox"/>
<b>1.2 Travel surveys</b>		
<b>BETTER</b>	1.2.1	Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress <input type="checkbox"/> under consideration
<b>2. WALKING AND CYCLING</b>		
<b>2.1 Information on walking/cycling routes &amp; destinations</b>		
<b>BASIC</b>	2.1.1	Display local area maps with walking/cycling access routes and key destinations at major entrances ( <i>multi-family, condominium</i> ) <input checked="" type="checkbox"/>
<b>2.2 Bicycle skills training</b>		
<b>BETTER</b>	2.2.1	Offer on-site cycling courses for residents, or subsidize off-site courses <input type="checkbox"/>

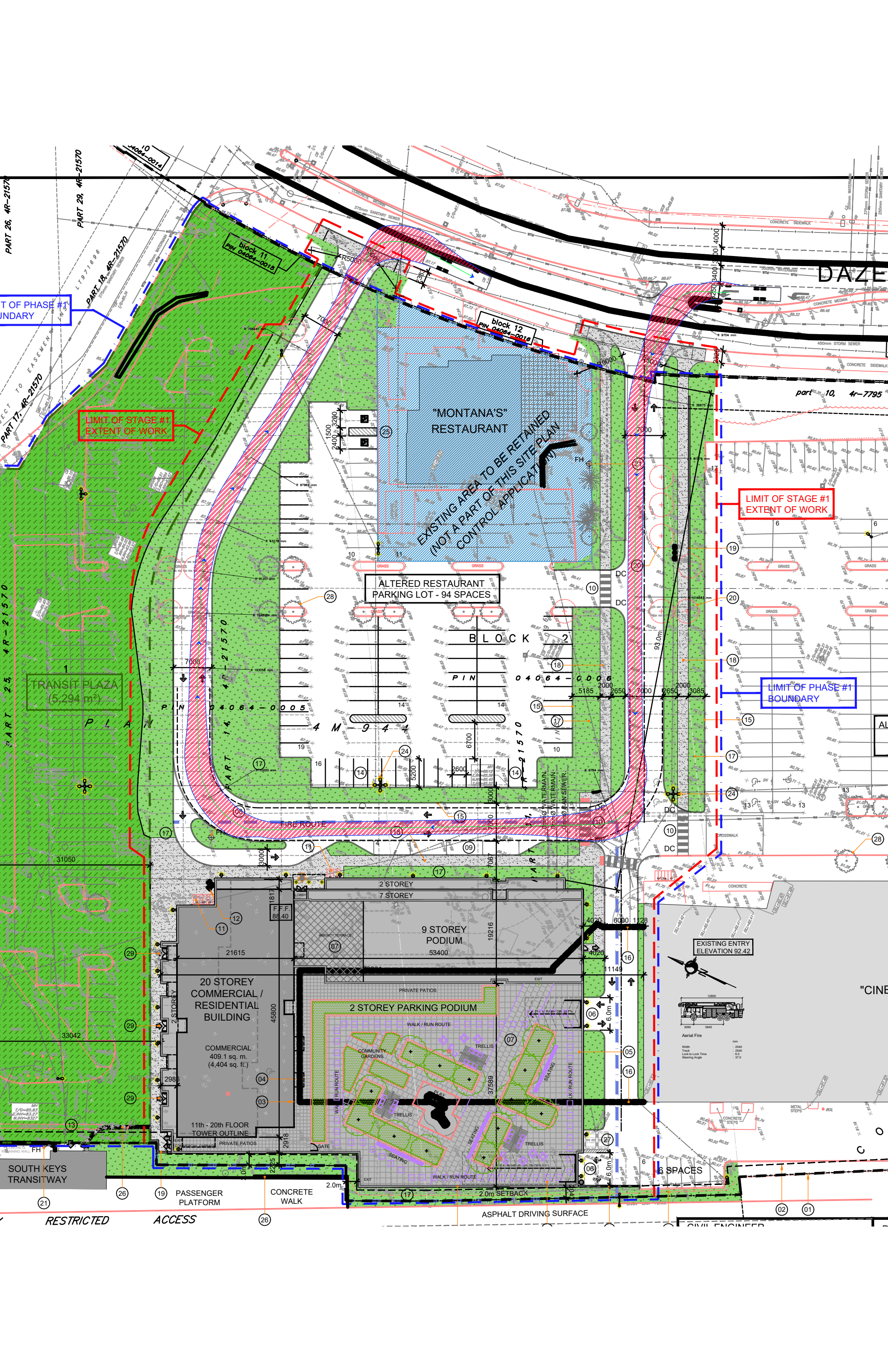
TDM measures: Residential developments		Check if proposed & add descriptions
<b>3. TRANSIT</b>		
<b>3.1 Transit information</b>		
BASIC	3.1.1 Display relevant transit schedules and route maps at entrances ( <i>multi-family, condominium</i> )	<input checked="" type="checkbox"/>
BETTER	3.1.2 Provide real-time arrival information display at entrances ( <i>multi-family, condominium</i> )	<input type="checkbox"/> under consideration
<b>3.2 Transit fare incentives</b>		
BASIC ★	3.2.1 Offer PRESTO cards preloaded with one monthly transit pass on residence purchase/move-in, to encourage residents to use transit	<input type="checkbox"/> under consideration
BETTER	3.2.2 Offer at least one year of free monthly transit passes on residence purchase/move-in	<input type="checkbox"/> under consideration
<b>3.3 Enhanced public transit service</b>		
BETTER ★	3.3.1 Contract with OC Transpo to provide early transit services until regular services are warranted by occupancy levels ( <i>subdivision</i> )	<input type="checkbox"/> not applicable
<b>3.4 Private transit service</b>		
BETTER	3.4.1 Provide shuttle service for seniors homes or lifestyle communities (e.g. scheduled mall or supermarket runs)	<input type="checkbox"/> not applicable
<b>4. CARSHARING &amp; BIKESHARING</b>		
<b>4.1 Bikeshare stations &amp; memberships</b>		
BETTER	4.1.1 Contract with provider to install on-site bikeshare station ( <i>multi-family</i> )	<input type="checkbox"/>
BETTER	4.1.2 Provide residents with bikeshare memberships, either free or subsidized ( <i>multi-family</i> )	<input type="checkbox"/>
<b>4.2 Carshare vehicles &amp; memberships</b>		
BETTER	4.2.1 Contract with provider to install on-site carshare vehicles and promote their use by residents	<input type="checkbox"/>
BETTER	4.2.2 Provide residents with carshare memberships, either free or subsidized	<input type="checkbox"/>
<b>5. PARKING</b>		
<b>5.1 Priced parking</b>		
BASIC ★	5.1.1 Unbundle parking cost from purchase price ( <i>condominium</i> )	<input type="checkbox"/> not applicable
BASIC ★	5.1.2 Unbundle parking cost from monthly rent ( <i>multi-family</i> )	<input checked="" type="checkbox"/>



TDM measures: <i>Residential developments</i>		Check if proposed & add descriptions
<b>6. TDM MARKETING &amp; COMMUNICATIONS</b>		
<b>6.1 Multimodal travel information</b>		
<b>BASIC</b> ★	6.1.1 Provide a multimodal travel option information package to new residents	<input checked="" type="checkbox"/>
<b>6.2 Personalized trip planning</b>		
<b>BETTER</b> ★	6.2.1 Offer personalized trip planning to new residents	<input type="checkbox"/> under consideration

## Appendix G – Swept Path Analysis

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DAZE

part 10, 4r-7795

LIMIT OF STAGE #1 EXTENT OF WORK

LIMIT OF PHASE #1 BOUNDARY

"CINE

EXISTING ENTRY ELEVATION 92.42

Aerial Fire

Width : 2540  
Track : 2540  
Lock to Lock Time : 8.0  
Steering Angle : 37.0

6 SPACES

ASPHALT DRIVING SURFACE

RESTRICTED ACCESS

PASSENGER PLATFORM

CONCRETE WALK

SOUTH KEYS TRANSITWAY

TRANSIT PLAZA (5,294 m<sup>2</sup>)

ALTERED RESTAURANT PARKING LOT - 94 SPACES

"MONTANA'S" RESTAURANT

BLOCK 2

PIN 04064-0006

4 M 9 4 1

LIMIT OF PHASE #1 BOUNDARY

LIMIT OF STAGE #1 EXTENT OF WORK

PART 29, 4R-21570

PART 18, 4R-21570

PART 26, 4R-21570

PART 25, 4R-21570

PART 21

19

26

17

06

05

06

07

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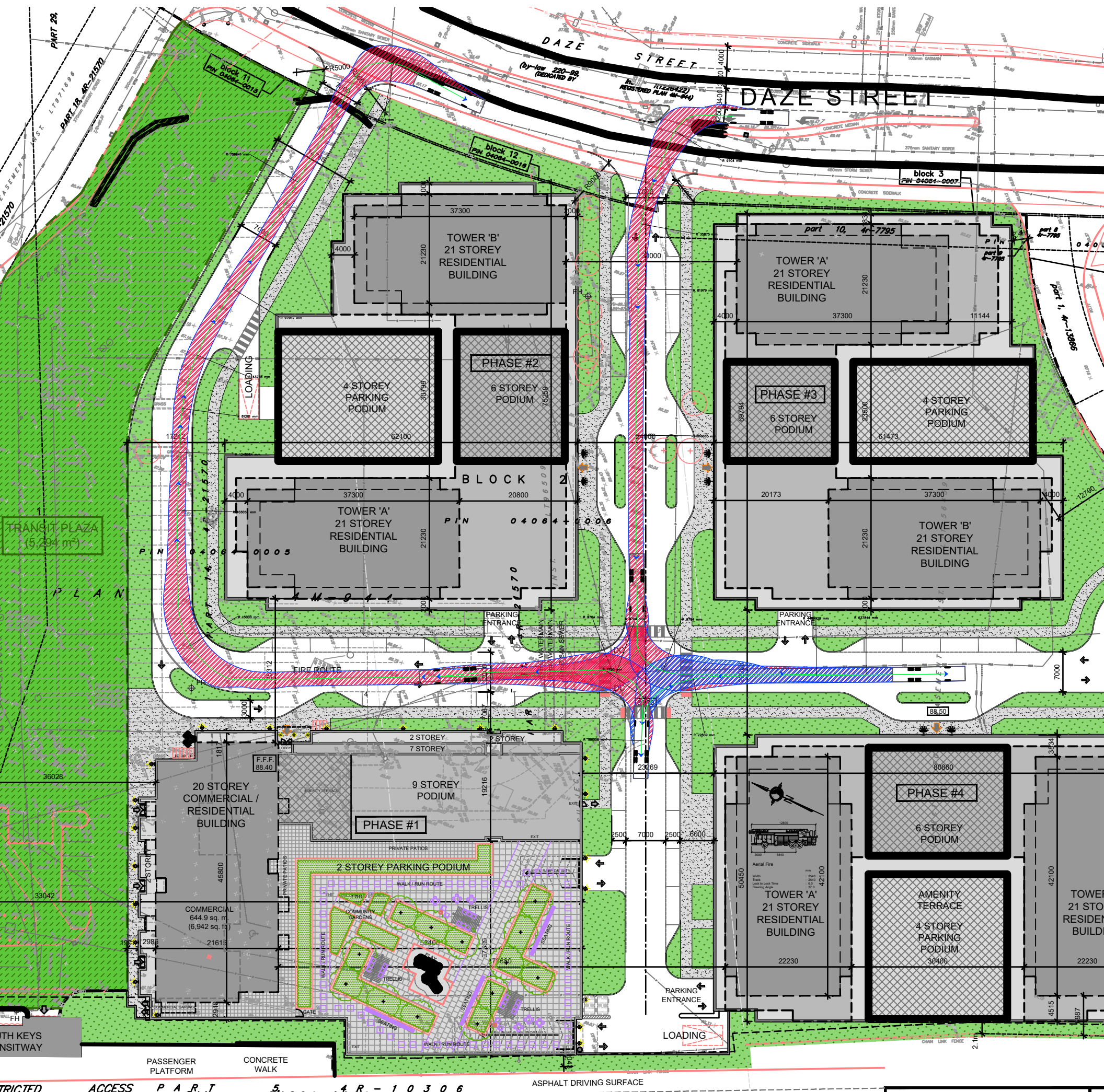
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97

98

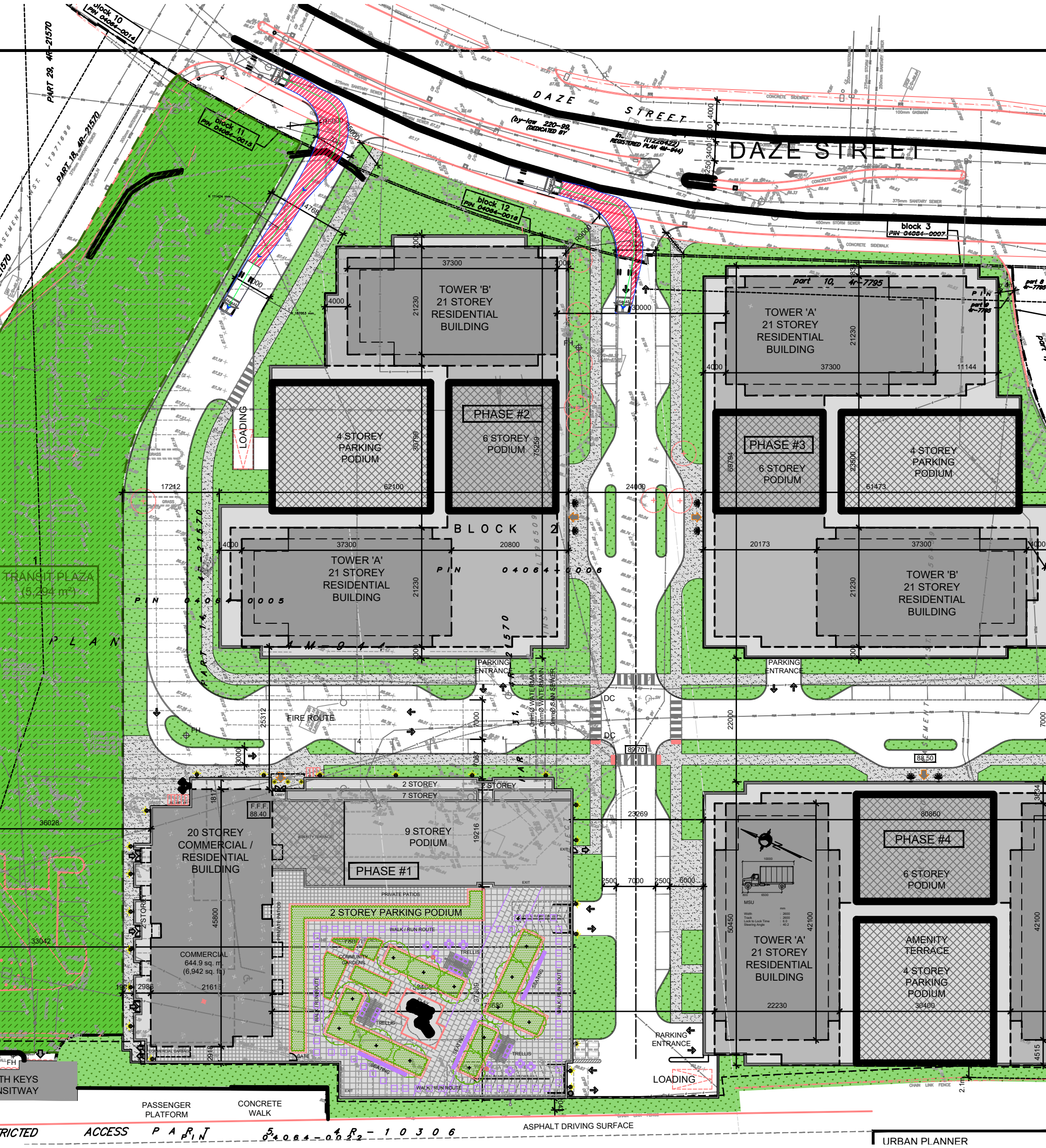
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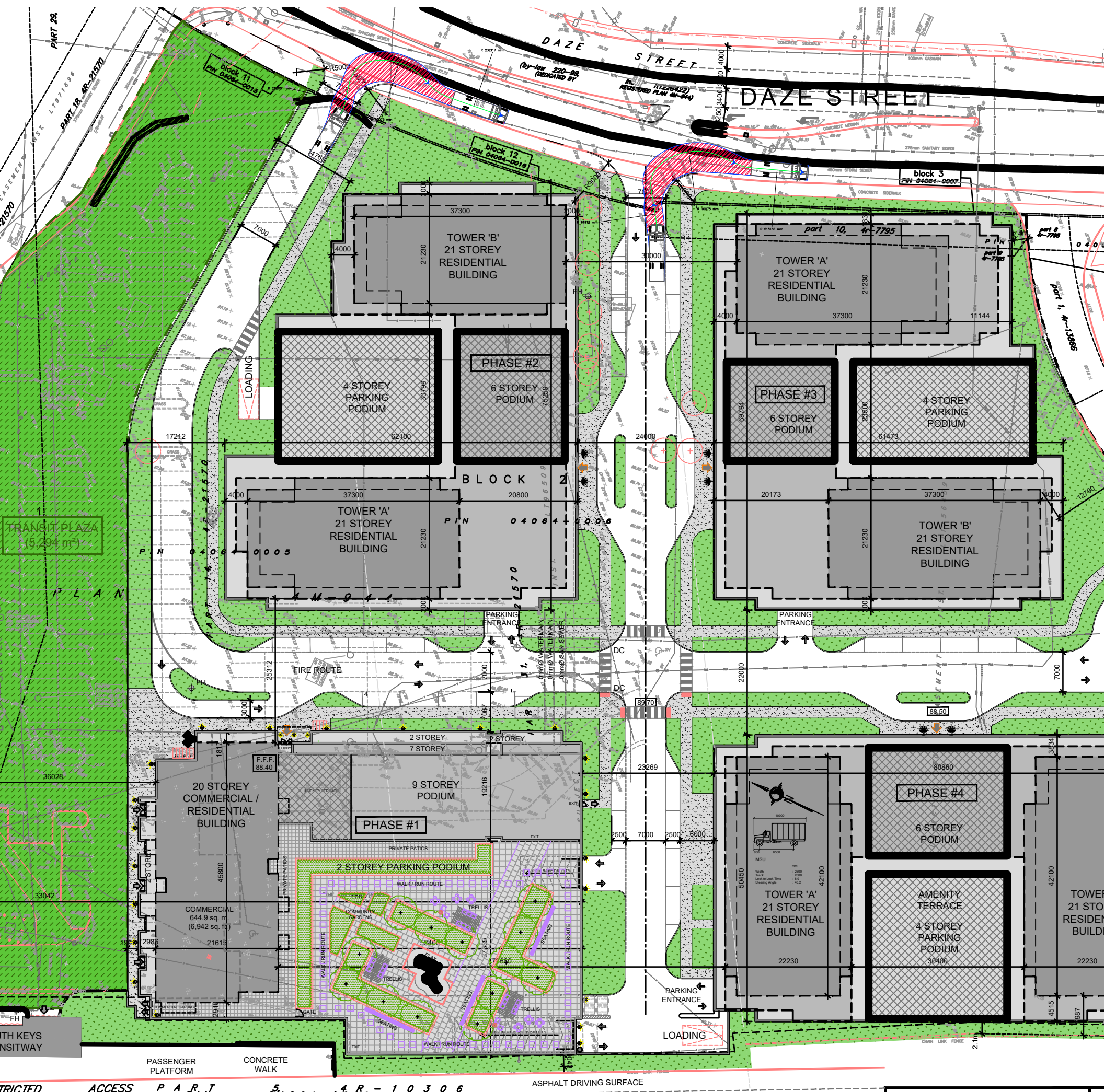


RESTRICTED ACCESS PARCEL 54064-0032-10306 LOT 5 (RIDEAU FRONT)

URBAN PLANNER  
**Stantec**  
 1331 Clyde Avenue, Suite 400  
 Ottawa ON K2C 3G4  
 Phone: (613) 724-1006



RESTRICTED ACCESS PART 54064-0032-10306 ASPHALT DRIVING SURFACE URBAN PLANNER

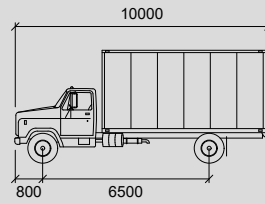
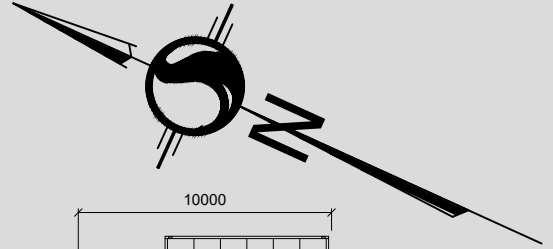


RESTRICTED ACCESS PARIN 54064-0032-10306 ASPHALT DRIVING SURFACE

URBAN PLANNER  
**Stantec**  
 1331 Clyde Avenue, Suite 400  
 Ottawa ON K2C 3G4  
 Phone: (613) 724-1006

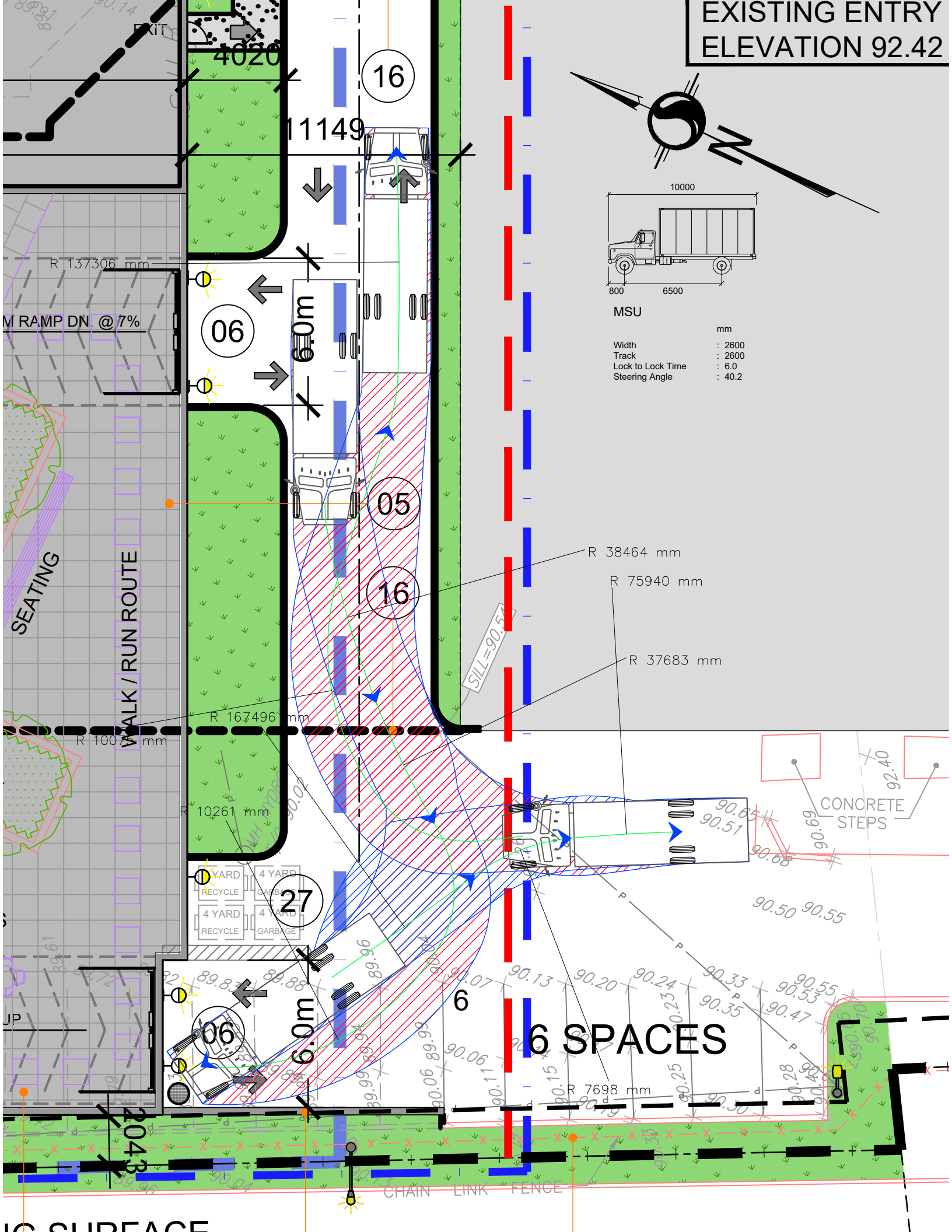
N 3 (RIDEAU FRONT) LOT 5

EXISTING ENTRY  
ELEVATION 92.42



MSU

	mm
Width	: 2600
Track	: 2600
Lock to Lock Time	: 6.0
Steering Angle	: 40.2



CONCRETE  
STEPS

6 SPACES

IC SURFACE

23269

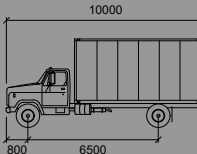
EXIT

2500

7000

2500

6000



MSU

Width	: 2600
Track	: 2600
Lock to Lock Time	: 6.0
Steering Angle	: 40.2

# TOWER 'A' 21 STOREY RESIDENTIAL BUILDING

22230

50450

42100

PARKING  
ENTRANCE

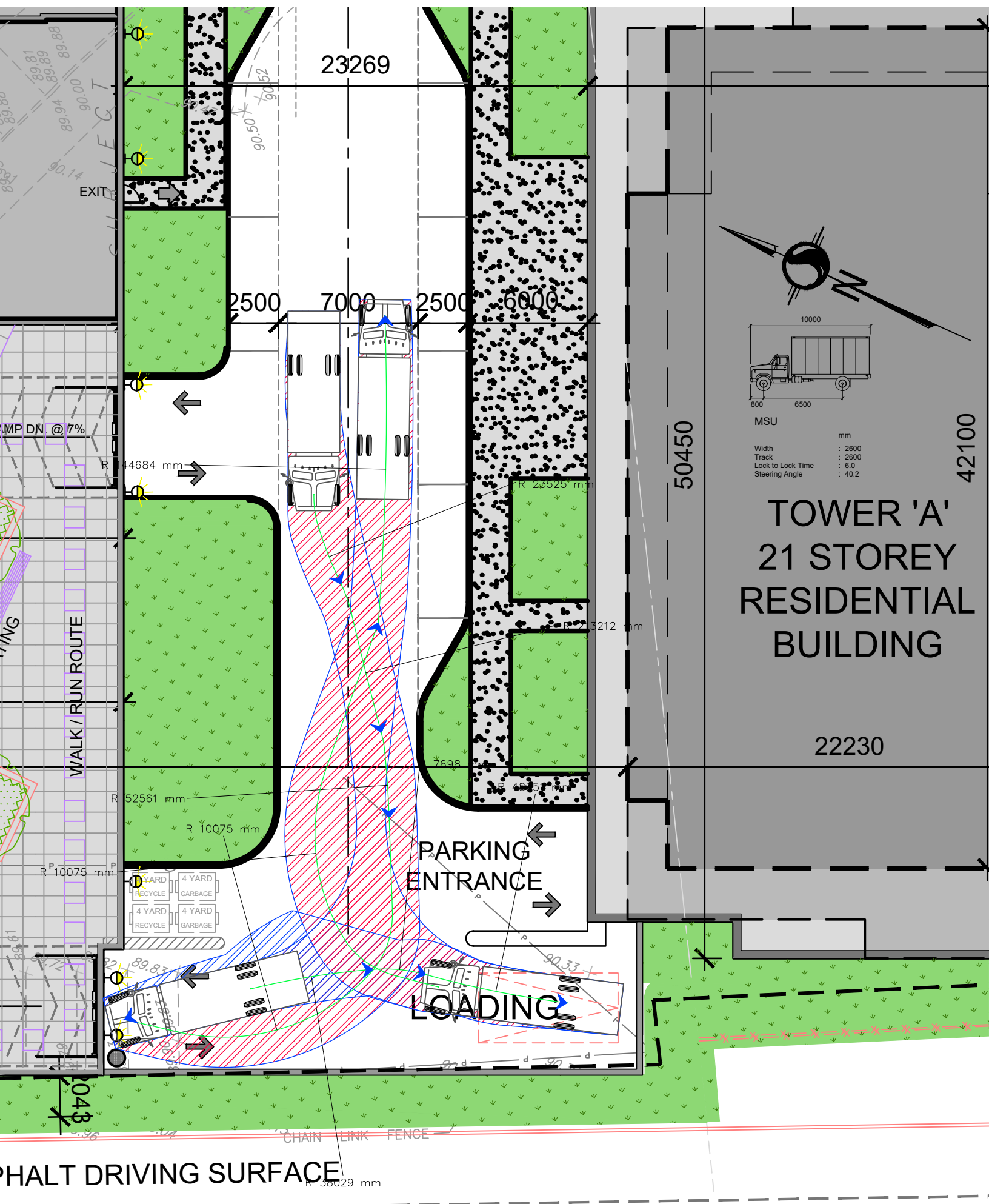
LOADING

WALK / RUN ROUTE



ASPHALT DRIVING SURFACE

CHAIN LINK FENCE





# Appendix H – MMLOS Analysis

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Multi-Modal Level of Service - Intersections Form

Consultant	Arcadis	Project	South Keys 134569
Scenario	Existing/Future Conditions	Date	
Comments			

To add intersections Select columns LMNO, right-click and Copy; Then select column P, right-click and Insert Copied Cells

To add intersections Select columns LMNO, right-click and Copy; Then select column P, right-click and Insert Copied Cells

To add intersections Select columns LMNO, right-click and Copy; Then select column P, right-click and Insert Copied Cells

INTERSECTIONS		Bank St & Dazé St				Bank St & Hunt Club Rd				Dazé St & South Keys SC				Hunt Club Rd & Dazé St				Airport Parkway & Hunt Club Rd			
Crossing Side		NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST
Pedestrian	Lanes	10+	8	8	6	10+	10+	10+	10+	6	7	5	6	7	10+	10+	10+	6	5	7	7
	Median	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	No Median - 2.4 m	Median > 2.4 m	Median > 2.4 m	No Median - 2.4 m	No Median - 2.4 m
	Conflicting Left Turns	Protected/ Permissive	Protected/ Permissive	Permissive	Permissive	Protected	Protected	Protected	Protected	Protected/ Permissive	Protected/ Permissive	Permissive	Permissive	Protected	Protected	Protected	Protected	Protected	Protected	Protected	Protected
	Conflicting Right Turns	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control	Permissive or yield control
	Right Turns on Red (RTOR) ?	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed	RTOR allowed
	Ped Signal Leading Interval?	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No
	Right Turn Channel	Conventional with Receiving Lane	No Channel	Conv'tl without Receiving Lane	Conventional with Receiving Lane	Conventional with Receiving Lane	Conventional with Receiving Lane	Conventional with Receiving Lane	Conventional with Receiving Lane	No Channel	No Channel	No Channel	No Channel	Smart Channel	Conv'tl without Receiving Lane	Smart Channel	Conv'tl without Receiving Lane	Conventional with Receiving Lane	Conv'tl without Receiving Lane	Conventional with Receiving Lane	Conv'tl without Receiving Lane
	Corner Radius	10-15m	5-10m	10-15m	10-15m	15-25m	>25m	>25m	>25m	5-10m	5-10m	5-10m	5-10m	5-10m	5-10m	5-10m	5-10m	15-25m	15-25m	15-25m	15-25m
	Crosswalk Type	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Std transverse markings	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings	Zebra stripe hi-vis markings
	PETSI Score	-39	-6	-5	24	-38	-39	-39	-39	21	5	38	21	19	-32	-30	-32	37	55	14	17
	Ped. Exposure to Traffic LoS	#N/A	F	F	F	#N/A	#N/A	#N/A	#N/A	F	F	E	F	F	#N/A	#N/A	#N/A	E	D	F	F
	Cycle Length	120	120	120	120	120	120	120	120	75	75	75	75	130	130	130	130	130	130	130	130
	Effective Walk Time	33.7	33.7	9.9	9.9	10.3	18.3	18.5	9.5	6.9	6.9	17.1	17.1	27.8	27.8	7	7	33.7	33.7	7.2	7.2
	Average Pedestrian Delay	31	31	51	51	50	43	43	51	31	31	22	22	40	40	58	58	36	36	58	58
Pedestrian Delay LoS	D	D	E	E	E	E	E	E	D	D	C	C	E	E	E	E	D	D	E	E	
Level of Service	#N/A	F	F	F	#N/A	#N/A	#N/A	#N/A	F	F	E	F	F	#N/A	#N/A	#N/A	E	D	F	F	
Approach From	NORTH SOUTH EAST WEST				NORTH SOUTH EAST WEST				NORTH SOUTH EAST WEST				NORTH SOUTH EAST WEST				NORTH SOUTH EAST WEST				
Bicycle	Bicycle Lane Arrangement on Approach	Pocket Bike Lane	Mixed Traffic	Pocket Bike Lane	Pocket Bike Lane	Curb Bike Lane, Cycletrack or MUP	Mixed Traffic	Curb Bike Lane, Cycletrack or MUP	Curb Bike Lane, Cycletrack or MUP	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Pocket Bike Lane	Curb Bike Lane, Cycletrack or MUP	Curb Bike Lane, Cycletrack or MUP	Mixed Traffic	Mixed Traffic	Curb Bike Lane, Cycletrack or MUP	Curb Bike Lane, Cycletrack or MUP
	IF Dedicated Right Turn Lane, THEN Right Turn Configuration, ELSE <blank>	> 50 m Introduced right turn lane		≤ 50 m Introduced right turn lane	> 50 m Introduced right turn lane	Not Applicable	≤ 50 m	Not Applicable	Not Applicable					> 50 m	≤ 50 m Introduced right turn lane	≤ 50 m Introduced right turn lane	Not Applicable	> 50 m	≤ 50 m	Not Applicable	Not Applicable
	Dedicated Right Turning Speed	≤ 25 km/h	Not Applicable	≤ 25 km/h	≤ 25 km/h	≤ 25 km/h	≤ 25 km/h	>25 to 30 km/h	>25 to 30 km/h					≤ 25 km/h	≤ 25 km/h	≤ 25 km/h	>25 to 30 km/h	≤ 25 km/h	≤ 25 km/h	Not Applicable	>25 to 30 km/h
	Cyclist Through Movement	D		B	D	Not Applicable	D	Not Applicable	Not Applicable					F	B	Not Applicable	Not Applicable	F	D	Not Applicable	Not Applicable
	Separated or Mixed Traffic	Separated	Mixed Traffic	Separated	Separated	Separated	Mixed Traffic	Separated	Separated	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Separated	Separated	Separated	Mixed Traffic	Mixed Traffic	Separated	Separated
	Left Turn Approach	≥ 2 lanes crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	No lane crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	≥ 2 lanes crossed	No lane crossed	One lane crossed	≥ 2 lanes crossed	1 lane crossed	≥ 2 lanes crossed	1 lane crossed	≥ 2 lanes crossed	No lane crossed	1 lane crossed	1 lane crossed
Operating Speed	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≤ 40 km/h	≤ 40 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	≥ 60 km/h	
Left Turning Cyclist	F	F	F	F	F	C	F	F	F	F	B	B	F	E	F	E	F	C	E	E	
Level of Service	F	F	F	F	F	D	F	F	F	F	B	B	F	E	F	E	F	D	E	E	
Transit	Average Signal Delay	≤ 30 sec	≤ 20 sec				≤ 20 sec	> 40 sec	> 40 sec					≤ 10 sec		> 40 sec	> 40 sec	≤ 10 sec		> 40 sec	≤ 40 sec
	Level of Service	D	C	-	-		C	F	F	-	-	-	-	B	-	F	F	B	-	F	E
Truck	Effective Corner Radius	10 - 15 m			< 10 m	> 15 m	> 15 m	> 15 m	> 15 m	< 10 m	< 10 m	< 10 m	< 10 m	< 10 m	< 10 m	< 10 m	< 10 m	> 15 m	10 - 15 m	> 15 m	> 15 m
	Number of Receiving Lanes on Departure from Intersection	1	0	0	2+	2+	2+	2+	2+	1	1	2+	2+	2+	2+	2+	1	2+	2+	1	1
Level of Service	E	-	-	D	A	A	A	A	F	F	D	D	D	D	D	F	A	B	C	C	
Auto	Volume to Capacity Ratio																				
	Level of Service																				



# Appendix I – Intersection Capacity Analysis

Existing Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Existing Conditions

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	335	1045	7	64	917	580	15	0	81	247	0	140
Future Volume (vph)	335	1045	7	64	917	580	15	0	81	247	0	140
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.999			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3260	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3260	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			115				164			156
Link Speed (k/h)		60			60			80				80
Link Distance (m)		431.4			316.9			354.1				189.5
Travel Time (s)		25.9			19.0			15.9				8.5
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	372	1161	8	71	1019	644	17	0	90	274	0	156
Shared Lane Traffic (%)												
Lane Group Flow (vph)	372	1169	0	71	1663	0	17	0	90	274	0	156
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	41.4	82.6		11.3	49.8		16.3		16.3	16.3		16.3
Actuated g/C Ratio	0.32	0.64		0.09	0.38		0.13		0.13	0.13		0.13

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Existing Conditions  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.68	0.56		0.53	1.36		0.08		0.28	0.67		0.48
Control Delay	46.7	16.7		45.5	194.7		49.3		2.2	62.2		12.6
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	46.7	16.7		45.5	194.7		49.3		2.2	62.2		12.6
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.9			188.6			9.7				44.2
Approach LOS		C			F			A				D
Queue Length 50th (m)	85.3	89.2		17.4	~271.7		3.9		0.0	35.1		0.0
Queue Length 95th (m)	118.6	131.7		m21.1	m#284.9		10.8		0.0	47.5		18.9
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	544	2072		292	1226		203		316	1007		567
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.68	0.56		0.24	1.36		0.08		0.28	0.27		0.28

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 150  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.36  
 Intersection Signal Delay: 100.7 Intersection LOS: F  
 Intersection Capacity Utilization 93.3% 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road





2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Existing Conditions  
AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↕↕↕				↕	↕↕	↕	↕↕	↕	↕
Traffic Volume (vph)	13	160	1047	98	2	13	1134	61	200	108	67	30
Future Volume (vph)	13	160	1047	98	2	13	1134	61	200	108	67	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.987					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3293	4557	0	0	1439	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.133				0.851			0.950			0.950
Satd. Flow (perm)	0	458	4557	0	0	1281	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			13					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	14	178	1163	109	2	14	1260	68	222	120	74	33
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	192	1272	0	0	16	1260	68	222	120	74	33
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		30.1	77.4			8.7	48.1	48.1	13.8	22.6	22.6	8.1
Actuated g/C Ratio		0.23	0.60			0.07	0.37	0.37	0.11	0.17	0.17	0.06

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Existing Conditions  
AM Peak Hour

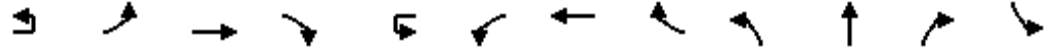


Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	30	152
Future Volume (vph)	30	152
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Frt		0.850
Flt Protected		
Satd. Flow (prot)	1820	1517
Flt Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	0.90	0.90
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	33	169
Shared Lane Traffic (%)		
Lane Group Flow (vph)	33	169
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.9	11.9
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Existing Conditions

AM Peak Hour

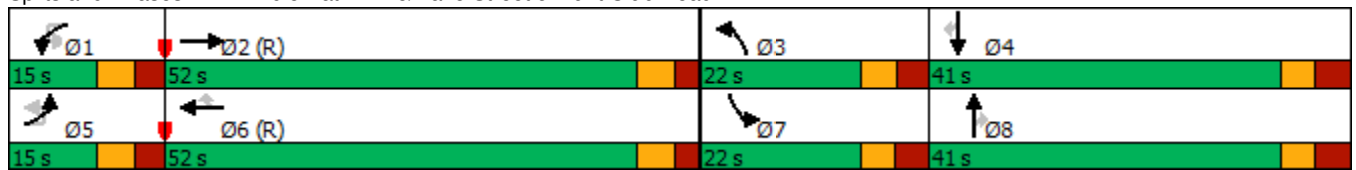


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.83	0.47			0.19	1.05	0.11	0.68	0.38	0.20	0.32
Control Delay		433.1	12.3			60.6	81.2	0.3	66.5	52.9	1.3	65.6
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		433.1	12.3			60.6	81.2	0.3	66.5	52.9	1.3	65.6
LOS		F	B			E	F	A	E	D	A	E
Approach Delay			67.5				76.9			51.0		
Approach LOS			E				E			D		
Queue Length 50th (m)		~38.3	37.3			4.0	167.3	0.0	28.5	29.2	0.0	8.3
Queue Length 95th (m)		#65.6	57.6			11.2	#235.4	0.0	41.5	46.9	0.0	18.8
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		105	2717			96	1195	631	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.83	0.47			0.17	1.05	0.11	0.60	0.25	0.16	0.17

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.83  
 Intersection Signal Delay: 67.0  
 Intersection LOS: E  
 Intersection Capacity Utilization 89.1%  
 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: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Existing Conditions  
 AM Peak Hour

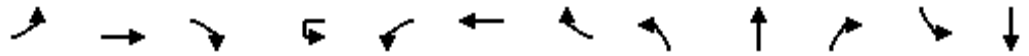


Lane Group	SBT	SBR
v/c Ratio	0.20	0.66
Control Delay	56.2	27.0
Queue Delay	0.0	0.0
Total Delay	56.2	27.0
LOS	E	C
Approach Delay	36.5	
Approach LOS	D	
Queue Length 50th (m)	8.1	7.9
Queue Length 95th (m)	17.6	29.8
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.07	0.35
Intersection Summary		

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Existing Conditions

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	120	709	260	1	31	946	190	283	933	22	83	316
Future Volume (vph)	120	709	260	1	31	946	190	283	933	22	83	316
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5			2.5	
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950				0.769			0.950			0.950	
Satd. Flow (perm)	3006	3202	1452	0	1318	3232	1489	3089	3357	1487	3255	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			289				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	133	788	289	1	34	1051	211	314	1037	24	92	351
Shared Lane Traffic (%)												
Lane Group Flow (vph)	133	788	289	0	35	1051	211	314	1037	24	92	351
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.6	40.9	40.9		6.4	34.2	34.2	16.1	41.6	41.6	6.8	32.3
Actuated g/C Ratio	0.09	0.34	0.34		0.05	0.28	0.28	0.13	0.35	0.35	0.06	0.27

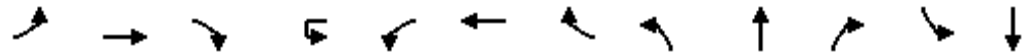
3: Bank Street & Hunt Club Road  
South Keys Phase 1

Existing Conditions  
AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	136
Future Volume (vph)	136
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	0.90
Heavy Vehicles (%)	12%
Adj. Flow (vph)	151
Shared Lane Traffic (%)	
Lane Group Flow (vph)	151
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.3
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Existing Conditions  
AM Peak Hour

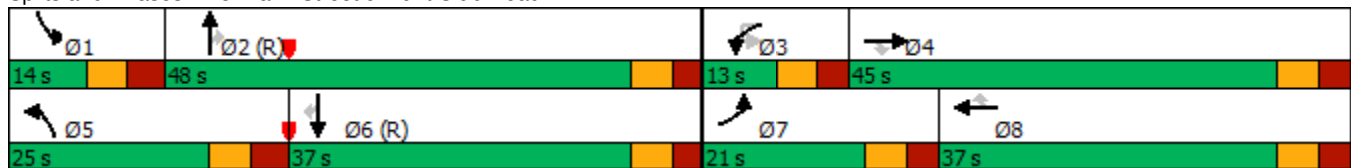


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.50	0.72	0.42		0.50	1.14	0.34	0.74	0.89	0.04	0.49	0.40
Control Delay	58.3	40.0	5.4		79.5	116.2	2.6	60.5	48.0	0.1	67.7	29.3
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	40.0	5.4		79.5	116.2	2.6	60.5	48.0	0.1	67.7	29.3
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		33.8				96.7			50.0			28.1
Approach LOS		C				F			D			C
Queue Length 50th (m)	15.6	87.9	0.0		8.2	~152.2	0.0	36.8	120.9	0.0	11.2	23.8
Queue Length 95th (m)	25.0	111.4	19.0		#21.2	#203.7	5.2	51.5	#158.2	0.0	19.4	32.0
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1090	685		71	921	623	476	1163	656	189	879
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	0.36	0.72	0.42		0.49	1.14	0.34	0.66	0.89	0.04	0.49	0.40

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.14  
 Intersection Signal Delay: 56.3  
 Intersection LOS: E  
 Intersection Capacity Utilization 86.0%  
 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: 3: Bank Street & Hunt Club Road





Lane Group	SBR
v/c Ratio	0.27
Control Delay	1.2
Queue Delay	0.0
Total Delay	1.2
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.2
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	561
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.27
Intersection Summary	



4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Existing Conditions  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖	↗		↖	↗	↖	↗	↖		↖	↗
Traffic Volume (vph)	110	0	28	73	0	148	90	927	51	3	17	391
Future Volume (vph)	110	0	28	73	0	148	90	927	51	3	17	391
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6					7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	1.00	1.00				1.00
Fr <sub>t</sub>			0.850			0.850		0.992				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3237	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.704			0.626		0.454				0.263	
Satd. Flow (perm)	0	1202	1440	0	1067	1426	814	3237	0	0	478	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			151		8				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	31	81	0	164	100	1030	57	3	19	434
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	31	0	81	164	100	1087	0	0	22	434
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.0	71.0
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Existing Conditions  
 AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	117		
Future Volume (vph)	117		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	130		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	0.90		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	130		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	130		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.0		
Actuated g/C Ratio	0.59		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Existing Conditions  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.70	0.10		0.52	0.49	0.16	0.47			0.08	0.23
Control Delay		67.9	0.7		57.8	13.4	6.4	6.6			14.2	13.1
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.7		57.8	13.4	6.4	6.6			14.2	13.1
LOS		E	A		E	B	A	A			B	B
Approach Delay		54.3			28.1			6.6				10.8
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		17.9	2.7	4.4	25.8			2.1	23.9
Queue Length 95th (m)		45.0	0.0		31.7	20.4	m8.4	m44.9			7.4	40.0
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		309	448		274	479	639	2296			282	1875
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.30	0.34	0.16	0.47			0.08	0.23

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.70  
 Intersection Signal Delay: 13.5      Intersection LOS: B  
 Intersection Capacity Utilization 81.2%      ICU Level of Service D  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive





Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.15		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	9.5		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	872		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.15		
Intersection Summary			

5: Dazé Street & South Keys SC  
South Keys Phase 1

Existing Conditions

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	216	3	2	4	154
Future Volume (vph)	35	1	83	5	2	7	115	216	3	2	4	154
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.880			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1485	0	1441	1584	0	1712	3383	0	0	1729	3196
Fl <sub>t</sub> Permitted	0.751			0.697			0.532				0.601	
Satd. Flow (perm)	1287	1485	0	1056	1584	0	959	3383	0	0	1094	3196
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		92			8			2				100
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	39	1	92	6	2	8	128	240	3	2	4	171
Shared Lane Traffic (%)												
Lane Group Flow (vph)	39	93	0	6	10	0	128	243	0	0	6	271
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.3	7.3		7.3	7.3		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.70			0.63	0.58

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	0.90
Heavy Vehicles (%)	1%
Adj. Flow (vph)	100
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Existing Conditions

AM Peak Hour

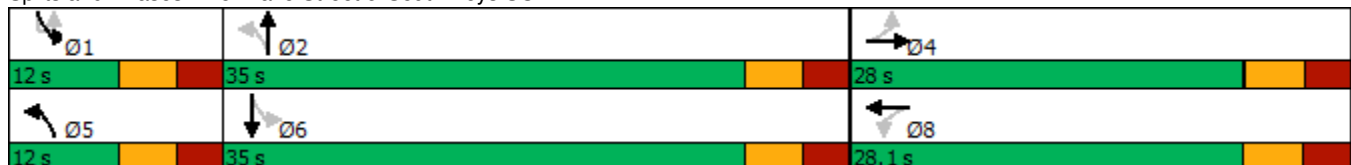


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.24	0.35		0.05	0.05		0.17	0.10			0.01	0.14
Control Delay	27.7	10.6		23.8	16.0		4.3	5.4			4.0	6.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.7	10.6		23.8	16.0		4.3	5.4			4.0	6.0
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			18.9			5.0				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	4.0	0.1		0.6	0.2		3.8	3.7			0.2	5.0
Queue Length 95th (m)	11.4	10.6		3.4	3.7		9.3	13.4			1.1	11.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	487	620		398	602		749	2380			766	1904
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.08	0.15		0.02	0.02		0.17	0.10			0.01	0.14

Intersection Summary

Area Type:	Other
Cycle Length:	75.1
Actuated Cycle Length:	58.7
Natural Cycle:	70
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.35
Intersection Signal Delay:	7.4
Intersection LOS:	A
Intersection Capacity Utilization	38.1%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 5: Dazé Street & South Keys SC





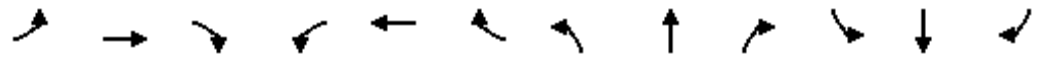
Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	



1: Airport Parkway & Hunt Club Road  
South keys Phase 1

Existing Conditions

PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	166	1270	9	77	1241	320	15	0	134	574	0	270
Future Volume (vph)	166	1270	9	77	1241	320	15	0	134	574	0	270
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.999			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1807	3473	0	1615	3425	0	1706	0	1570	3506	0	1617
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	3473	0	1613	3425	0	1688	0	1570	3506	0	1593
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			27				164			300
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	184	1411	10	86	1379	356	17	0	149	638	0	300
Shared Lane Traffic (%)												
Lane Group Flow (vph)	184	1421	0	86	1735	0	17	0	149	638	0	300
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	18.4	65.2		12.2	59.1		30.0		30.0	30.0		30.0
Actuated g/C Ratio	0.14	0.50		0.09	0.45		0.23		0.23	0.23		0.23

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South keys Phase 1

Existing Conditions  
PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.72	0.82		0.57	1.10		0.04		0.31	0.79		0.50
Control Delay	68.9	33.5		54.5	83.9		36.4		5.7	54.1		7.1
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	68.9	33.5		54.5	83.9		36.4		5.7	54.1		7.1
LOS	E	C		D	F		D		A	D		A
Approach Delay		37.6			82.6			8.8				39.1
Approach LOS		D			F			A				D
Queue Length 50th (m)	45.7	156.7		21.9	~256.7		3.4		0.0	79.7		0.0
Queue Length 95th (m)	66.9	#240.2		m23.5	m#292.1		9.1		12.7	93.9		20.9
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	298	1742		255	1571		390		488	1111		709
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.62	0.82		0.34	1.10		0.04		0.31	0.57		0.42

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.10  
 Intersection Signal Delay: 54.9 Intersection LOS: D  
 Intersection Capacity Utilization 89.1% 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: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South keys Phase 1

Existing Conditions  
PM Peak hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔			↔	↔↔	↔	↔↔	↔	↔	↔
Traffic Volume (vph)	25	261	1373	244	28	35	1245	81	141	107	75	101
Future Volume (vph)	25	261	1373	244	28	35	1245	81	141	107	75	101
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.977					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3509	4818	0	0	1825	3544	1617	3404	1921	1617	1807
Fl <sub>t</sub> Permitted		0.190				0.202			0.950			0.950
Satd. Flow (perm)	0	695	4818	0	0	386	3544	1511	3181	1921	1556	1768
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			31					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	28	290	1526	271	31	39	1383	90	157	119	83	112
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	318	1797	0	0	70	1383	90	157	119	83	112
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2				6.5	6.2	6.2	6.5	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		21.0	49.0			19.8	47.8	47.8	9.9	24.7	24.7	10.2
Actuated g/C Ratio		0.16	0.38			0.15	0.37	0.37	0.08	0.19	0.19	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South keys Phase 1

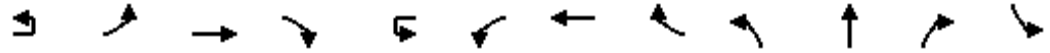
Existing Conditions  
 PM Peak hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	162	316
Future Volume (vph)	162	316
Ideal Flow (vphpl)	1900	1900
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Frt		0.850
Flt Protected		
Satd. Flow (prot)	1902	1617
Flt Permitted		
Satd. Flow (perm)	1902	1517
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	0.90	0.90
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	180	351
Shared Lane Traffic (%)		
Lane Group Flow (vph)	180	351
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	25.1	25.1
Actuated g/C Ratio	0.19	0.19

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South keys Phase 1

Existing Conditions  
 PM Peak hour

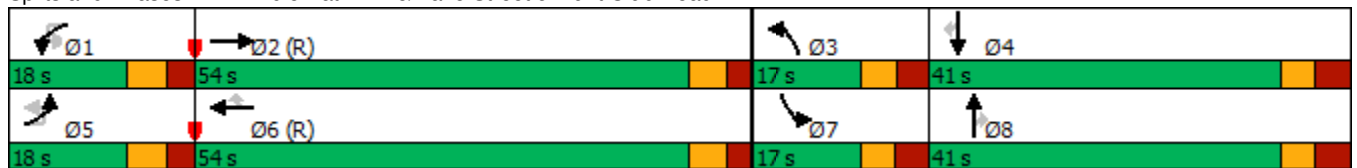


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.84	0.98			1.19	1.06	0.14	0.61	0.33	0.20	0.79
Control Delay		868.3	48.8			226.8	82.7	1.1	68.4	45.6	1.7	95.0
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		868.3	48.8			226.8	82.7	1.1	68.4	45.6	1.7	95.0
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			172.1				84.5			45.4		
Approach LOS			F				F			D		
Queue Length 50th (m)		~75.5	~159.6			~22.1	~204.8	0.0	20.3	26.2	0.0	28.6
Queue Length 95th (m)		m#104.8	#200.2			#59.0	#247.4	2.0	31.7	40.5	1.7	#59.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		112	1834			59	1303	646	274	502	508	144
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.84	0.98			1.19	1.06	0.14	0.57	0.24	0.16	0.78

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.84  
 Intersection Signal Delay: 117.7      Intersection LOS: F  
 Intersection Capacity Utilization 95.7%      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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South keys Phase 1

Existing Conditions  
 PM Peak hour

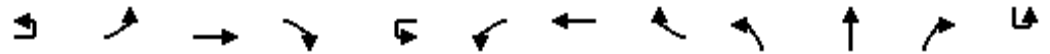


Lane Group	SBT	SBR
v/c Ratio	0.49	0.87
Control Delay	49.8	51.7
Queue Delay	0.0	0.0
Total Delay	49.8	51.7
LOS	D	D
Approach Delay	58.7	
Approach LOS	E	
Queue Length 50th (m)	41.0	55.2
Queue Length 95th (m)	58.8	86.3
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	497	497
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.36	0.71
Intersection Summary		

3: Bank Street & Hunt Club Road  
South keys Phase 1

Existing Conditions

PM Peak hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↗↗	↕↕	↖		↖	↕↕	↖	↗↗	↕↕	↖	
Traffic Volume (vph)	4	141	898	359	1	46	805	178	325	518	55	1
Future Volume (vph)	4	141	898	359	1	46	805	178	325	518	55	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3314	3510	1601	0	1756	3579	1617	3506	3579	1601	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1326	3510	1532	0	979	3579	1583	3411	3579	1535	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				274				196			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	157	998	399	1	51	894	198	361	576	61	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	998	399	0	52	894	198	361	576	61	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	



3: Bank Street & Hunt Club Road  
South keys Phase 1

Existing Conditions

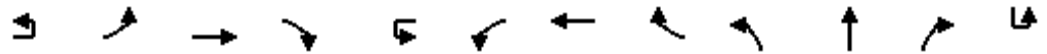
PM Peak hour



Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	222	955	196
Future Volume (vph)	222	955	196
Ideal Flow (vphpl)	1900	1900	1900
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3506	3579	1555
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1219	3579	1425
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	0.90	0.90	0.90
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	247	1061	218
Shared Lane Traffic (%)			
Lane Group Flow (vph)	248	1061	218
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
 South keys Phase 1

Existing Conditions  
 PM Peak hour

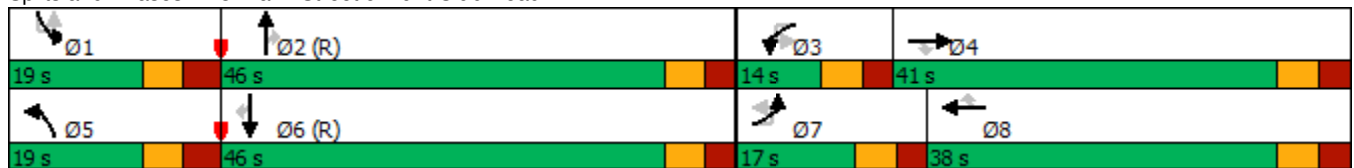


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.39	1.00	0.63		0.85	0.96	0.36	1.04	0.49	0.10	
Control Delay		259.4	70.3	16.4		134.9	64.9	6.9	111.5	33.9	0.3	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		259.4	70.3	16.4		134.9	64.9	6.9	111.5	33.9	0.3	
LOS		F	E	B		F	E	A	F	C	A	
Approach Delay			76.0				58.1			59.9		
Approach LOS			E				E			E		
Queue Length 50th (m)		~26.0	123.5	23.8		12.4	109.5	0.4	~47.2	56.8	0.0	
Queue Length 95th (m)		#47.9	#168.4	57.7		#36.5	#149.6	18.1	#77.0	73.7	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0			60.0
Base Capacity (vph)		116	1003	633		61	933	557	347	1178	610	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.39	1.00	0.63		0.85	0.96	0.36	1.04	0.49	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.07  
 Intersection Signal Delay: 81.1      Intersection LOS: F  
 Intersection Capacity Utilization 87.0%      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: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South keys Phase 1

Existing Conditions

PM Peak hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.07	0.90	0.38
Control Delay	533.4	41.7	12.3
Queue Delay	0.0	0.0	0.0
Total Delay	533.4	41.7	12.3
LOS	F	D	B
Approach Delay		117.4	
Approach LOS		F	
Queue Length 50th (m)	~48.8	52.5	3.0
Queue Length 95th (m)	#75.6	#139.2	27.2
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	120	1178	574
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.07	0.90	0.38
<b>Intersection Summary</b>			

4: Bank Street & Dazé Street/Cahill Drive  
South keys Phase 1

Existing Conditions  
PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↖	↗		↖	↗		↖	↗			↖
Traffic Volume (vph)	154	1	124	82	0	101	2	158	632	92	4	146
Future Volume (vph)	154	1	124	82	0	101	2	158	632	92	4	146
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.99
Fr <sub>t</sub>			0.850			0.850			0.981			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1813	1617	0	1659	1633	0	1825	3478	0	0	1807
Fl <sub>t</sub> Permitted		0.661			0.529			0.129				0.294
Satd. Flow (perm)	0	1160	1535	0	900	1471	0	248	3478	0	0	552
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			136			112			18			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	171	1	138	91	0	112	2	176	702	102	4	162
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	172	138	0	91	112	0	178	804	0	0	166
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1		6.3	6.3			6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.7	22.7		22.7	22.7		74.6	64.3			72.5
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.60

4: Bank Street & Dazé Street/Cahill Drive  
 South keys Phase 1

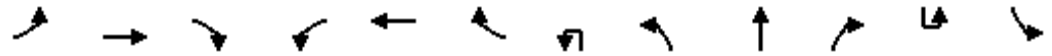
Existing Conditions  
 PM Peak hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1124	318		
Future Volume (vph)	1124	318		
Ideal Flow (vphpl)	1900	1900		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Frt		0.850		
Flt Protected				
Satd. Flow (prot)	3579	1633		
Flt Permitted				
Satd. Flow (perm)	3579	1514		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		322		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	0.90	0.90		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1249	353		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1249	353		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	63.3	63.3		
Actuated g/C Ratio	0.53	0.53		

4: Bank Street & Dazé Street/Cahill Drive  
 South keys Phase 1

Existing Conditions  
 PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.79	0.34		0.54	0.30		0.62	0.43			0.39
Control Delay		69.3	8.7		53.9	8.7		35.6	14.8			11.5
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		69.3	8.7		53.9	8.7		35.6	14.8			11.5
LOS		E	A		D	A		D	B			B
Approach Delay		42.3			29.0				18.6			
Approach LOS		D			C				B			
Queue Length 50th (m)		38.8	0.4		19.4	0.0		29.0	39.8			13.3
Queue Length 95th (m)		59.1	15.6		33.9	13.7		m46.7	m51.8			26.4
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		298	496		231	461		304	1872			453
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.58	0.28		0.39	0.24		0.59	0.43			0.37

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.79  
 Intersection Signal Delay: 21.7  
 Intersection LOS: C  
 Intersection Capacity Utilization 86.0%  
 ICU Level of Service E  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South keys Phase 1

Existing Conditions  
 PM Peak hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.66	0.37		
Control Delay	24.3	4.2		
Queue Delay	0.0	0.0		
Total Delay	24.3	4.2		
LOS	C	A		
Approach Delay	19.0			
Approach LOS	B			
Queue Length 50th (m)	110.0	3.5		
Queue Length 95th (m)	153.3	21.0		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1886	950		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.66	0.37		
Intersection Summary				

5: Dazé Street & South Keys SC  
South keys Phase 1

Existing Conditions

PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	185	18	1	21	287
Future Volume (vph)	85	3	221	2	4	13	195	185	18	1	21	287
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.883			0.987				0.950
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1825	1608	0	1825	1669	0	1825	3560	0	0	1825	3404
Fl <sub>t</sub> Permitted	0.746			0.342			0.422				0.611	
Satd. Flow (perm)	1421	1608	0	655	1669	0	809	3560	0	0	1165	3404
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		246			14			13				79
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	94	3	246	2	4	14	217	206	20	1	23	319
Shared Lane Traffic (%)												
Lane Group Flow (vph)	94	249	0	2	18	0	217	226	0	0	24	477
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.7	11.7		11.7	11.7		56.4	52.6			48.0	42.1
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.59	0.52



Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1900
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	0.90
Heavy Vehicles (%)	1%
Adj. Flow (vph)	158
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
 South keys Phase 1

Existing Conditions

PM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.46	0.56		0.02	0.07		0.32	0.10			0.03	0.26
Control Delay	40.7	10.4		32.5	19.1		5.5	6.3			4.6	9.5
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.7	10.4		32.5	19.1		5.5	6.3			4.6	9.5
LOS	D	B		C	B		A	A			A	A
Approach Delay		18.7			20.5			5.9				9.3
Approach LOS		B			C			A				A
Queue Length 50th (m)	12.4	0.4		0.2	0.5		8.4	4.1			0.8	15.3
Queue Length 95th (m)	29.7	20.0		2.3	6.4		18.7	13.7			3.2	29.1
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	533	756		245	635		939	2324			835	1812
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.18	0.33		0.01	0.03		0.23	0.10			0.03	0.26

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	80.7
Natural Cycle:	75
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.56
Intersection Signal Delay:	10.8
Intersection LOS:	B
Intersection Capacity Utilization:	62.8%
ICU Level of Service:	B
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

## Future (2026) Background Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	347	1089	25	66	963	604	15	0	83	253	0	148
Future Volume (vph)	347	1089	25	66	963	604	15	0	83	253	0	148
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			113				164			148
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	347	1089	25	66	963	604	15	0	83	253	0	148
Shared Lane Traffic (%)												
Lane Group Flow (vph)	347	1114	0	66	1567	0	15	0	83	253	0	148
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	37.1	83.8		10.9	54.9		15.5		15.5	15.5		15.5
Actuated g/C Ratio	0.29	0.64		0.08	0.42		0.12		0.12	0.12		0.12

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2026) Background Traffic  
 AM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.71	0.53		0.51	1.17		0.08		0.27	0.65		0.48
Control Delay	50.9	15.3		47.9	113.6		49.9		2.1	62.5		13.1
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	50.9	15.3		47.9	113.6		49.9		2.1	62.5		13.1
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.8			111.0			9.4				44.3
Approach LOS		C			F			A				D
Queue Length 50th (m)	80.8	80.5		16.2	~232.3		3.5		0.0	32.3		0.0
Queue Length 95th (m)	112.9	118.6		m20.9	m#276.2		9.9		0.0	44.7		18.6
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	488	2099		292	1339		192		309	1007		562
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.71	0.53		0.23	1.17		0.08		0.27	0.25		0.26

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 150  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.17  
 Intersection Signal Delay: 65.3  
 Intersection LOS: E  
 Intersection Capacity Utilization 96.2%  
 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

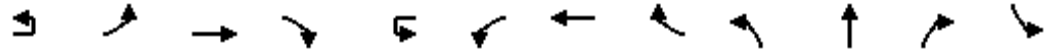
Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔			↔	↔↔	↔	↔↔	↔	↔	↔
Traffic Volume (vph)	19	163	1084	98	2	16	1189	75	200	108	67	30
Future Volume (vph)	19	163	1084	98	2	16	1189	75	200	108	67	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4562	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.136				0.800			0.950			0.950
Satd. Flow (perm)	0	469	4562	0	0	1200	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			13					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	163	1084	98	2	16	1189	75	200	108	67	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	182	1182	0	0	18	1189	75	200	108	67	30
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.5	78.5			9.1	50.0	50.0	13.2	21.4	21.4	7.8
Actuated g/C Ratio		0.23	0.60			0.07	0.38	0.38	0.10	0.16	0.16	0.06



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic  
AM Peak Hour

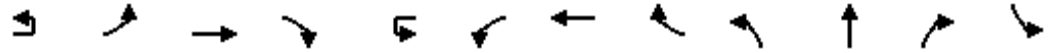


Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	30	152
Future Volume (vph)	30	152
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Frt		0.850
Flt Protected		
Satd. Flow (prot)	1820	1517
Flt Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	30	152
Shared Lane Traffic (%)		
Lane Group Flow (vph)	30	152
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.1	11.1
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour

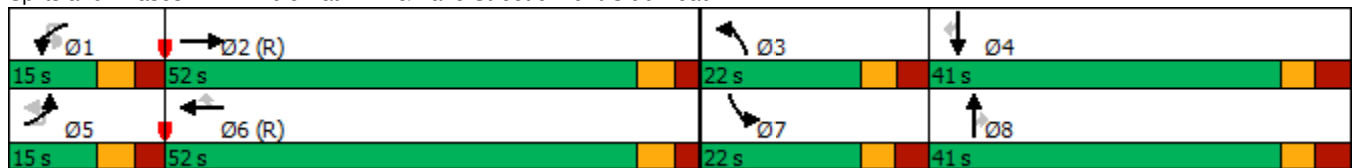


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.72	0.43			0.21	0.96	0.12	0.63	0.36	0.19	0.30
Control Delay		390.7	11.6			61.3	56.1	0.4	65.2	53.8	1.2	65.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		390.7	11.6			61.3	56.1	0.4	65.2	53.8	1.2	65.2
LOS		F	B			E	E	A	E	D	A	E
Approach Delay			62.2				52.9			50.5		
Approach LOS			E				D			D		
Queue Length 50th (m)		~36.0	34.4			4.5	147.7	0.0	25.6	26.2	0.0	7.5
Queue Length 95th (m)		#61.3	51.1			12.1	#211.4	0.0	37.7	43.4	0.0	17.2
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2758			93	1242	649	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.72	0.43			0.19	0.96	0.12	0.54	0.23	0.14	0.15

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.72  
 Intersection Signal Delay: 55.3  
 Intersection LOS: E  
 Intersection Capacity Utilization 91.0%  
 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour

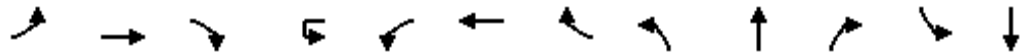


Lane Group	SBT	SBR
v/c Ratio	0.19	0.61
Control Delay	57.6	22.8
Queue Delay	0.0	0.0
Total Delay	57.6	22.8
LOS	E	C
Approach Delay	33.7	
Approach LOS	C	
Queue Length 50th (m)	7.3	3.7
Queue Length 95th (m)	16.5	24.3
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.06	0.32
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↖	↕↕↗			↖	↕↕	↗	↖↖	↕	↗	↖	↕
Traffic Volume (vph)	182	1084	98	2	16	1189	75	200	108	67	30	30
Future Volume (vph)	182	1084	98	2	16	1189	75	200	108	67	30	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Fr <sub>t</sub>		0.988					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4562	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Fl <sub>t</sub> Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3264	4562	0	0	1200	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		13					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	182	1084	98	2	16	1189	75	200	108	67	30	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	182	1182	0	0	18	1189	75	200	108	67	30	30
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	13.1	78.8			9.1	66.8	66.8	13.2	21.1	21.1	7.8	10.7
Actuated g/C Ratio	0.10	0.61			0.07	0.51	0.51	0.10	0.16	0.16	0.06	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

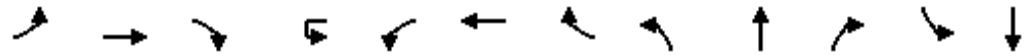
Future (2026) Background Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	152
Future Volume (vph)	152
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Fr <sub>t</sub>	0.850
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	1517
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	152
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	152
Shared Lane Traffic (%)	
Lane Group Flow (vph)	152
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	10.7
Actuated g/C Ratio	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Background Traffic

AM Peak Hour

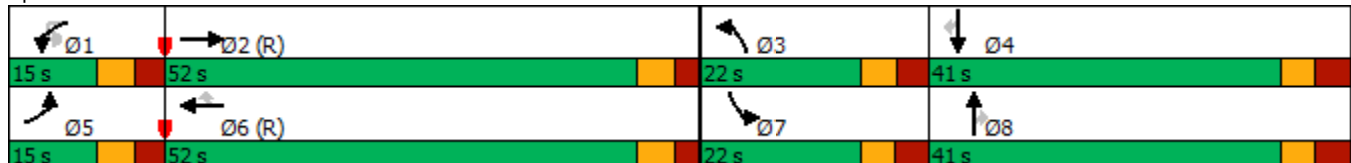


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.43			0.21	0.72	0.09	0.63	0.37	0.19	0.30	0.20
Control Delay	73.6	11.4			61.3	28.5	0.2	65.2	54.4	1.2	65.2	58.4
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.6	11.4			61.3	28.5	0.2	65.2	54.4	1.2	65.2	58.4
LOS	E	B			E	C	A	E	D	A	E	E
Approach Delay		19.7				27.3			50.6			30.5
Approach LOS		B				C			D			C
Queue Length 50th (m)	25.6	34.4			4.5	119.3	0.0	25.6	26.2	0.0	7.5	7.3
Queue Length 95th (m)	38.0	44.8			12.1	165.6	0.0	37.7	44.0	0.0	17.2	16.7
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	330	2769			93	1659	820	370	471	477	198	476
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	0.55	0.43			0.19	0.72	0.09	0.54	0.23	0.14	0.15	0.06

Intersection Summary

Area Type:	Other
Cycle Length:	130
Actuated Cycle Length:	130
Offset:	1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green
Natural Cycle:	115
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.72
Intersection Signal Delay:	27.0
Intersection LOS:	C
Intersection Capacity Utilization	80.1%
ICU Level of Service	D
Analysis Period (min)	15

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



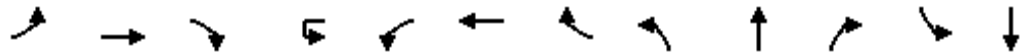


Lane Group	SBR
v/c Ratio	0.59
Control Delay	18.1
Queue Delay	0.0
Total Delay	18.1
LOS	B
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.0
Queue Length 95th (m)	20.2
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	489
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.31
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↑↑	↖		↖	↑↑	↖	↖↗	↑↑	↖	↖↗	↑↑
Traffic Volume (vph)	129	734	268	1	32	977	195	291	956	23	86	327
Future Volume (vph)	129	734	268	1	32	977	195	291	956	23	86	327
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5				2.5
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950				0.950
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950							0.950				0.950
Satd. Flow (perm)	3005	3202	1452	0	1713	3232	1489	3086	3357	1487	3251	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			268				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	129	734	268	1	32	977	195	291	956	23	86	327
Shared Lane Traffic (%)												
Lane Group Flow (vph)	129	734	268	0	33	977	195	291	956	23	86	327
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.5	43.5	43.5		6.4	34.3	34.3	15.6	44.3	44.3	6.8	32.8
Actuated g/C Ratio	0.09	0.36	0.36		0.05	0.29	0.29	0.13	0.37	0.37	0.06	0.27



3: Bank Street & Hunt Club Road  
South Keys Phase 1

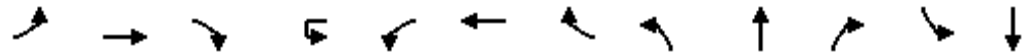
Future (2026) Background Traffic  
AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	151
Future Volume (vph)	151
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	151
Shared Lane Traffic (%)	
Lane Group Flow (vph)	151
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.8
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour

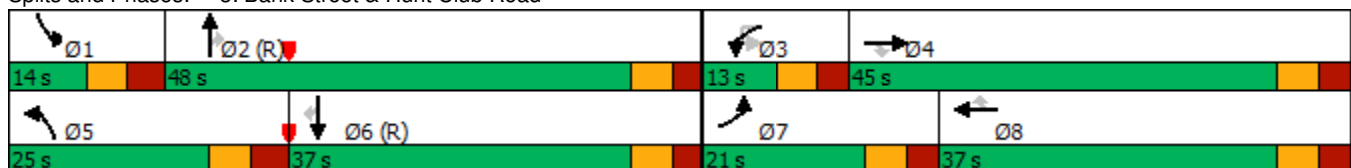


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.49	0.63	0.38		0.37	1.06	0.31	0.70	0.77	0.03	0.46	0.37
Control Delay	58.2	35.9	5.3		66.4	87.5	1.8	59.3	39.4	0.1	67.2	28.8
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.2	35.9	5.3		66.4	87.5	1.8	59.3	39.4	0.1	67.2	28.8
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		31.2				73.0			43.3			27.2
Approach LOS		C				E			D			C
Queue Length 50th (m)	15.1	80.0	0.0		7.7	~132.8	0.0	34.1	107.6	0.0	10.6	22.1
Queue Length 95th (m)	24.4	102.1	18.3		18.3	#183.4	1.8	47.9	134.0	0.0	18.8	30.1
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1160	697		92	924	625	476	1238	685	189	892
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	0.35	0.63	0.38		0.36	1.06	0.31	0.61	0.77	0.03	0.46	0.37

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.06  
 Intersection Signal Delay: 46.4  
 Intersection LOS: D  
 Intersection Capacity Utilization 87.1%  
 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: 3: Bank Street & Hunt Club Road



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Lane Group	SBR
v/c Ratio	0.27
Control Delay	1.2
Queue Delay	0.0
Total Delay	1.2
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	565
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.27
Intersection Summary	

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖	↗		↖	↗	↖	↗			↖	↗
Traffic Volume (vph)	122	0	33	73	0	148	90	951	51	3	17	411
Future Volume (vph)	122	0	33	73	0	148	90	951	51	3	17	411
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6					7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	0.99	1.00				1.00
Fr <sub>t</sub>			0.850			0.850		0.992				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3237	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.709			0.626		0.467				0.286	
Satd. Flow (perm)	0	1210	1440	0	1067	1426	837	3237	0	0	519	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		8				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	33	73	0	148	90	951	51	3	17	411
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	33	0	73	148	90	1002	0	0	20	411
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.3	71.3
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic  
AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	117		
Future Volume (vph)	117		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	117		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	117		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	117		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.3		
Actuated g/C Ratio	0.59		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.69	0.11		0.47	0.44	0.14	0.44			0.06	0.22
Control Delay		67.9	0.8		55.4	10.9	5.9	6.1			13.7	12.8
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.8		55.4	10.9	5.9	6.1			13.7	12.8
LOS		E	A		E	B	A	A			B	B
Approach Delay		53.6			25.6			6.1				10.7
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		16.0	0.0	4.0	24.3			1.9	22.3
Queue Length 95th (m)		45.0	0.0		29.0	16.8	m8.5	42.2			6.7	37.4
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		274	477	653	2299			308	1884
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.27	0.31	0.14	0.44			0.06	0.22

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay: 13.1

Intersection LOS: B

Intersection Capacity Utilization 81.9%

ICU Level of Service D

Analysis Period (min) 15

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

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive





Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.13		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	8.9		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	870		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.13		
Intersection Summary			

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Future Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3196
Fl <sub>t</sub> Permitted	0.752			0.702			0.546				0.605	
Satd. Flow (perm)	1289	1484	0	1064	1590	0	984	3383	0	0	1101	3196
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Shared Lane Traffic (%)												
Lane Group Flow (vph)	35	84	0	5	9	0	115	236	0	0	6	244
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.2	7.2		7.1	7.1		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.63	0.58



Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Background Traffic

AM Peak Hour

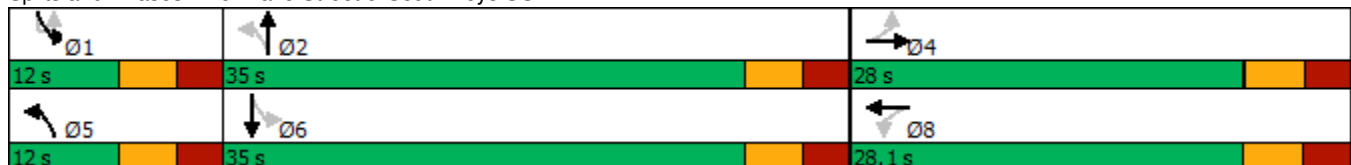


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.22	0.33		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			19.0			4.9				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.6	0.1		0.5	0.2		3.4	3.6			0.2	4.4
Queue Length 95th (m)	10.5	10.1		3.1	3.5		8.4	13.0			1.1	10.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	489	615		402	606		766	2386			771	1904
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.07	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type:	Other
Cycle Length:	75.1
Actuated Cycle Length:	58.5
Natural Cycle:	70
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.33
Intersection Signal Delay:	7.3
Intersection LOS:	A
Intersection Capacity Utilization	38.1%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

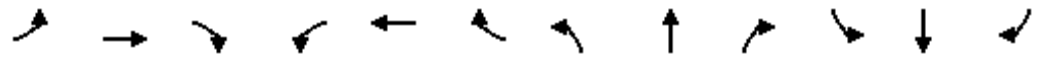
Future (2026) Background Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	11	12	351	237	5
Future Vol, veh/h	0	11	12	351	237	5
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	11	12	351	237	5
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	-	121	242	0	0	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Critical Hdwy	-	6.9	4.1	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	
Follow-up Hdwy	-	3.3	2.2	-	-	
Pot Cap-1 Maneuver	0	914	1336	-	-	
Stage 1	0	-	-	-	-	
Stage 2	0	-	-	-	-	
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	-	914	1336	-	-	
Mov Cap-2 Maneuver	-	-	-	-	-	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Approach	EB	NB	SB			
HCM Control Delay, s	9	0.3	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1336	-	914	-	-	
HCM Lane V/C Ratio	0.009	-	0.012	-	-	
HCM Control Delay (s)	7.7	-	9	-	-	
HCM Lane LOS	A	-	A	-	-	
HCM 95th %tile Q(veh)	0	-	0	-	-	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	175	1331	33	79	1296	334	15	0	137	593	0	282
Future Volume (vph)	175	1331	33	79	1296	334	15	0	137	593	0	282
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.996			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3282	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3282	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			27				164			282
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	175	1331	33	79	1296	334	15	0	137	593	0	282
Shared Lane Traffic (%)												
Lane Group Flow (vph)	175	1364	0	79	1630	0	15	0	137	593	0	282
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	18.4	68.9		12.0	59.6		29.4		29.4	29.4		29.4
Actuated g/C Ratio	0.14	0.53		0.09	0.46		0.23		0.23	0.23		0.23

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.72	0.78		0.56	1.09		0.04		0.30	0.79		0.50
Control Delay	69.6	31.2		54.5	76.2		36.7		4.6	55.1		7.5
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	69.6	31.2		54.5	76.2		36.7		4.6	55.1		7.5
LOS	E	C		D	E		D		A	E		A
Approach Delay		35.5			75.2			7.7				39.7
Approach LOS		D			E			A				D
Queue Length 50th (m)	43.4	150.2		20.1	~238.0		3.0		0.0	74.2		0.0
Queue Length 95th (m)	64.5	#233.6		m22.5	m#274.7		8.4		9.6	88.1		20.5
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	284	1740		242	1502		361		463	1052		670
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.62	0.78		0.33	1.09		0.04		0.30	0.56		0.42

Intersection Summary

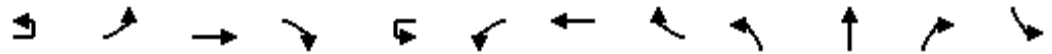
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.09  
 Intersection Signal Delay: 51.3      Intersection LOS: D  
 Intersection Capacity Utilization 96.1%      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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↖↗	↖↗↘			↖	↖↖	↖	↖↗	↖	↖	↖
Traffic Volume (vph)	33	268	1426	244	28	37	1298	88	141	107	75	101
Future Volume (vph)	33	268	1426	244	28	37	1298	88	141	107	75	101
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.978					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3325	4571	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.175				0.196			0.950			0.950
Satd. Flow (perm)	0	605	4571	0	0	355	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			29					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	268	1426	244	28	37	1298	88	141	107	75	101
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	301	1670	0	0	65	1298	88	141	107	75	101
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.9	50.4			20.4	47.8	47.8	9.8	22.9	22.9	10.0
Actuated g/C Ratio		0.18	0.39			0.16	0.37	0.37	0.08	0.18	0.18	0.08



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

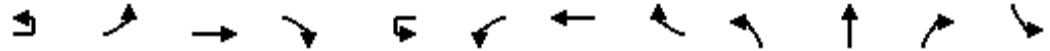
Future (2026) Background Traffic  
PM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	162	316
Future Volume (vph)	162	316
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1802	1532
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	162	316
Shared Lane Traffic (%)		
Lane Group Flow (vph)	162	316
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	23.3	23.3
Actuated g/C Ratio	0.18	0.18

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic  
PM Peak Hour

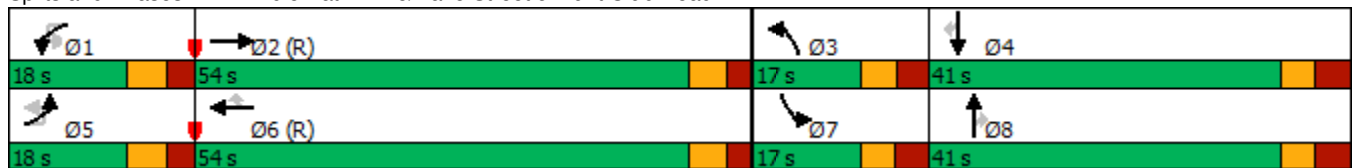


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.84	0.93			1.18	1.05	0.14	0.58	0.33	0.20	0.77
Control Delay		864.5	42.8			225.1	80.3	1.0	67.9	47.1	1.2	93.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		864.5	42.8			225.1	80.3	1.0	67.9	47.1	1.2	93.2
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			168.3				82.0			45.5		
Approach LOS			F				F			D		
Queue Length 50th (m)		~70.9	141.6			~19.0	~190.7	0.0	18.1	24.0	0.0	25.7
Queue Length 95th (m)		m#103.2	#185.0			#56.6	#233.0	1.5	29.1	37.3	0.0	#53.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1788			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.84	0.93			1.18	1.05	0.14	0.54	0.22	0.15	0.74

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.84  
 Intersection Signal Delay: 115.3      Intersection LOS: F  
 Intersection Capacity Utilization 100.4%      ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Background Traffic  
 PM Peak Hour

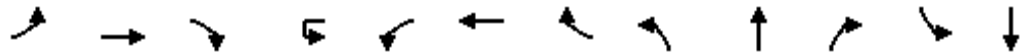


Lane Group	SBT	SBR
v/c Ratio	0.50	0.85
Control Delay	51.8	49.4
Queue Delay	0.0	0.0
Total Delay	51.8	49.4
LOS	D	D
Approach Delay	57.7	
Approach LOS	E	
Queue Length 50th (m)	37.6	46.2
Queue Length 95th (m)	53.9	74.5
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.34	0.66
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↑↑↘			↖	↑↑	↖	↖↗	↑	↖	↖	↑
Traffic Volume (vph)	301	1426	244	28	37	1298	88	141	107	75	101	162
Future Volume (vph)	301	1426	244	28	37	1298	88	141	107	75	101	162
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.98	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.978					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4571	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.177			0.950			0.950	
Satd. Flow (perm)	3271	4571	0	0	321	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		29					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	301	1426	244	28	37	1298	88	141	107	75	101	162
Shared Lane Traffic (%)												
Lane Group Flow (vph)	301	1670	0	0	65	1298	88	141	107	75	101	162
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	18.0	51.6			22.6	56.2	56.2	9.8	19.4	19.4	10.0	19.7
Actuated g/C Ratio	0.14	0.40			0.17	0.43	0.43	0.08	0.15	0.15	0.08	0.15

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

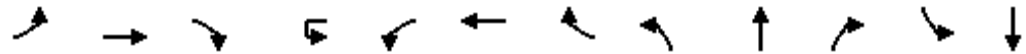
Future (2026) Background Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	316
Future Volume (vph)	316
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	200
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	316
Shared Lane Traffic (%)	
Lane Group Flow (vph)	316
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	19.7
Actuated g/C Ratio	0.15

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Background Traffic

PM Peak Hour

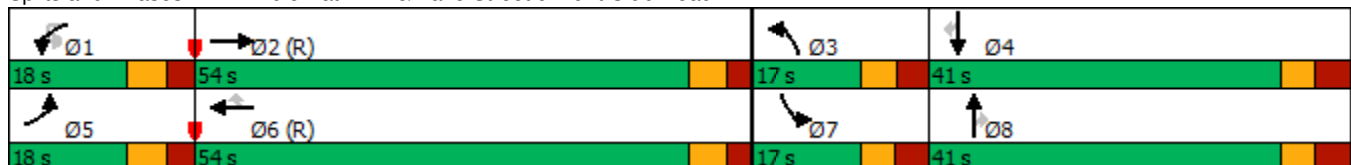


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.91			1.18	0.89	0.13	0.58	0.39	0.22	0.77	0.59
Control Delay	63.9	39.9			224.3	44.3	0.8	67.9	51.9	1.5	93.2	58.8
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	63.9	39.9			224.3	44.3	0.8	67.9	51.9	1.5	93.2	58.8
LOS	E	D			F	D	A	E	D	A	F	E
Approach Delay		43.6				49.7			47.2			52.0
Approach LOS		D				D			D			D
Queue Length 50th (m)	42.3	130.9			~18.2	160.5	0.0	18.1	25.4	0.0	25.7	39.7
Queue Length 95th (m)	m#60.2	#185.0			#55.7	#233.0	1.5	29.1	38.3	0.0	#53.5	55.4
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	460	1832			55	1451	699	260	476	486	136	471
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	0.65	0.91			1.18	0.89	0.13	0.54	0.22	0.15	0.74	0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 125  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 47.0  
 Intersection LOS: D  
 Intersection Capacity Utilization 96.9%  
 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



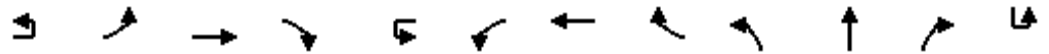


Lane Group	SBR
v/c Ratio	0.82
Control Delay	35.4
Queue Delay	0.0
Total Delay	35.4
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	29.9
Queue Length 95th (m)	58.1
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.60
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↗↘	↕	↖		↖	↕	↗	↗↘	↕	↖	
Traffic Volume (vph)	4	157	928	369	1	48	834	183	336	532	56	1
Future Volume (vph)	4	157	928	369	1	48	834	183	336	532	56	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3140	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1256	3325	1451	0	927	3390	1500	3221	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				279				183			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	157	928	369	1	48	834	183	336	532	56	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	928	369	0	49	834	183	336	532	56	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	



### 3: Bank Street & Hunt Club Road South Keys Phase 1

### Future (2026) Background Traffic

PM Peak Hour

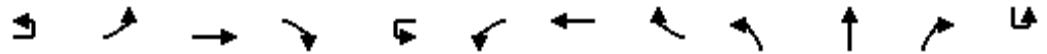


Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	229	981	227
Future Volume (vph)	229	981	227
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1154	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	229	981	227
Shared Lane Traffic (%)			
Lane Group Flow (vph)	230	981	227
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour

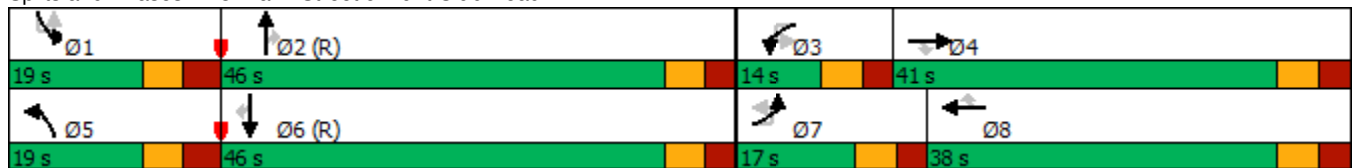


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.48	0.98	0.60		0.86	0.94	0.35	1.02	0.48	0.10	
Control Delay		295.6	66.9	13.9		140.0	63.1	6.9	108.4	33.8	0.3	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		295.6	66.9	13.9		140.0	63.1	6.9	108.4	33.8	0.3	
LOS		F	E	B		F	E	A	F	C	A	
Approach Delay			78.7				57.0			58.9		
Approach LOS			E				E			E		
Queue Length 50th (m)		~26.8	114.0	16.2		11.6	101.6	0.0	~43.2	52.2	0.0	
Queue Length 95th (m)		#48.7	#156.4	47.7		#35.3	#140.0	17.1	#72.3	68.6	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	613		57	884	526	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.48	0.98	0.60		0.86	0.94	0.35	1.02	0.48	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.02  
 Intersection Signal Delay: 79.9      Intersection LOS: E  
 Intersection Capacity Utilization 92.3%      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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Background Traffic  
 PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.02	0.88	0.41
Control Delay	514.4	39.9	12.1
Queue Delay	0.0	0.0	0.0
Total Delay	514.4	39.9	12.1
LOS	F	D	B
Approach Delay		111.4	
Approach LOS		F	
Queue Length 50th (m)	~45.0	47.9	3.3
Queue Length 95th (m)	#70.6	#118.6	28.7
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.02	0.88	0.41
Intersection Summary			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↕	↗		↕	↗		↖	↕↗			↖
Traffic Volume (vph)	160	1	132	82	0	101	2	158	650	92	4	146
Future Volume (vph)	160	1	132	82	0	101	2	158	650	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.98
Fr <sub>t</sub>			0.850			0.850			0.981			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3295	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.553			0.156				0.320
Satd. Flow (perm)	0	1110	1454	0	891	1394	0	284	3295	0	0	568
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			17			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	160	1	132	82	0	101	2	158	650	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	132	0	82	101	0	160	742	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0			0.0	0.0		0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1			6.3	6.3		6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.4	22.4		22.4	22.4		74.1	64.8			73.7
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.61

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic  
PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1174	318		
Future Volume (vph)	1174	318		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Fr <sub>t</sub>		0.850		
Fl <sub>t</sub> Protected				
Satd. Flow (prot)	3390	1547		
Fl <sub>t</sub> Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		308		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1174	318		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1174	318		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.6	64.6		
Actuated g/C Ratio	0.54	0.54		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Background Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.78	0.35		0.49	0.29		0.56	0.42			0.34
Control Delay		70.1	8.7		52.2	8.6		30.0	14.7			10.9
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		70.1	8.7		52.2	8.6		30.0	14.7			10.9
LOS		E	A		D	A		C	B			B
Approach Delay		42.5			28.2				17.4			
Approach LOS		D			C				B			
Queue Length 50th (m)		36.3	0.0		17.4	0.0		23.6	37.3			11.8
Queue Length 95th (m)		56.1	14.9		31.1	12.6		m40.0	m47.3			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		229	436		309	1787			458
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.56	0.28		0.36	0.23		0.52	0.42			0.33

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.78  
 Intersection Signal Delay: 20.9  
 Intersection Capacity Utilization 90.2%  
 Analysis Period (min) 15  
 Intersection LOS: C  
 ICU Level of Service E  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2026) Background Traffic  
 PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.64	0.35		
Control Delay	23.1	3.5		
Queue Delay	0.0	0.0		
Total Delay	23.1	3.5		
LOS	C	A		
Approach Delay	18.2			
Approach LOS	B			
Queue Length 50th (m)	99.7	1.1		
Queue Length 95th (m)	145.3	16.9		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1825	914		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.64	0.35		
Intersection Summary				

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Future Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.950
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3225
Fl <sub>t</sub> Permitted	0.746			0.393			0.445				0.616	
Satd. Flow (perm)	1346	1523	0	713	1585	0	808	3377	0	0	1113	3225
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				79
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	224	0	2	17	0	195	217	0	0	22	429
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2			1	6
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.6	11.6		11.6	11.6		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.52



Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.44	0.55		0.02	0.07		0.29	0.10			0.03	0.25
Control Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
LOS	D	B		C	B		A	A			A	A
Approach Delay		19.1			21.0			5.8				8.9
Approach LOS		B			C			A				A
Queue Length 50th (m)	11.2	0.4		0.2	0.5		7.4	3.8			0.8	13.2
Queue Length 95th (m)	27.4	19.2		2.3	6.1		16.9	13.3			3.0	25.6
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	505	710		267	603		906	2207			800	1729
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.17	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	80.6
Natural Cycle:	75
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.55
Intersection Signal Delay:	10.7
Intersection LOS:	B
Intersection Capacity Utilization:	64.1%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2026) Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	13	22	412	502	8
Future Vol, veh/h	0	13	22	412	502	8
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	22	412	502	8
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	-	255	510	0	0	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Critical Hdwy	-	6.9	4.1	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	
Follow-up Hdwy	-	3.3	2.2	-	-	
Pot Cap-1 Maneuver	0	750	1065	-	-	
Stage 1	0	-	-	-	-	
Stage 2	0	-	-	-	-	
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	-	750	1065	-	-	
Mov Cap-2 Maneuver	-	-	-	-	-	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Approach	EB	NB	SB			
HCM Control Delay, s	9.9	0.4	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1065	-	750	-	-	
HCM Lane V/C Ratio	0.021	-	0.017	-	-	
HCM Control Delay (s)	8.5	-	9.9	-	-	
HCM Lane LOS	A	-	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

## Future (2031) Background Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



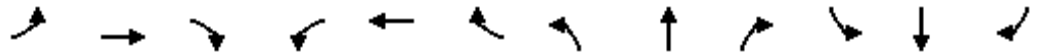
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	356	1115	25	67	986	619	16	0	85	259	0	152
Future Volume (vph)	356	1115	25	67	986	619	16	0	85	259	0	152
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			113				164			152
Link Speed (k/h)		60			60			80				80
Link Distance (m)		431.4			316.9			354.1				189.5
Travel Time (s)		25.9			19.0			15.9				8.5
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	356	1115	25	67	986	619	16	0	85	259	0	152
Shared Lane Traffic (%)												
Lane Group Flow (vph)	356	1140	0	67	1605	0	16	0	85	259	0	152
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	38.6	83.5		11.0	53.2		15.7		15.7	15.7		15.7
Actuated g/C Ratio	0.30	0.64		0.08	0.41		0.12		0.12	0.12		0.12

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.70	0.55		0.52	1.23		0.08		0.27	0.66		0.49
Control Delay	49.5	15.8		47.5	140.6		49.8		2.2	62.4		12.9
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	49.5	15.8		47.5	140.6		49.8		2.2	62.4		12.9
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.8			136.8			9.7				44.1
Approach LOS		C			F			A				D
Queue Length 50th (m)	82.5	84.0		16.5	~247.2		3.7		0.0	33.1		0.0
Queue Length 95th (m)	115.6	123.5		m21.1	m#281.4		10.4		0.0	45.4		18.8
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	508	2091		292	1301		195		311	1007		565
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.70	0.55		0.23	1.23		0.08		0.27	0.26		0.27

Intersection Summary

Area Type: Other

Cycle Length: 130

Actuated Cycle Length: 130

Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 150

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.23

Intersection Signal Delay: 77.0

Intersection LOS: E

Intersection Capacity Utilization 97.9%

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.

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

Splits and Phases: 1: Airport Parkway & Hunt Club Road

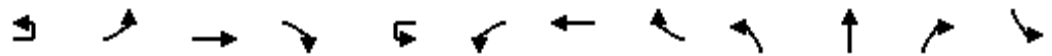




2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔				↔	↔↔	↔	↔↔	↔	↔
Traffic Volume (vph)	19	163	1110	98	2	16	1218	75	200	108	67	30
Future Volume (vph)	19	163	1110	98	2	16	1218	75	200	108	67	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4563	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.136				0.800			0.950			0.950
Satd. Flow (perm)	0	469	4563	0	0	1200	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			12					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	163	1110	98	2	16	1218	75	200	108	67	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	182	1208	0	0	18	1218	75	200	108	67	30
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.5	78.5			9.1	50.0	50.0	13.2	21.4	21.4	7.8
Actuated g/C Ratio		0.23	0.60			0.07	0.38	0.38	0.10	0.16	0.16	0.06

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2031) Background Traffic

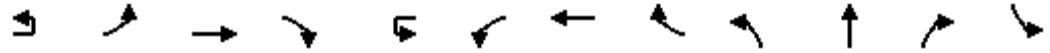
AM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	30	152
Future Volume (vph)	30	152
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1820	1517
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	30	152
Shared Lane Traffic (%)		
Lane Group Flow (vph)	30	152
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.1	11.1
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic  
AM Peak Hour

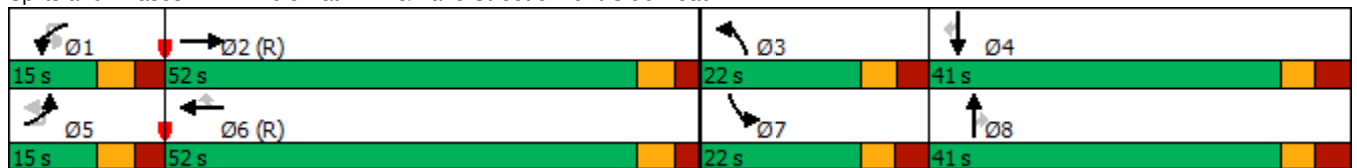


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.72	0.44			0.21	0.98	0.12	0.63	0.36	0.19	0.30
Control Delay		390.7	11.6			61.3	60.7	0.4	65.2	53.8	1.2	65.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		390.7	11.6			61.3	60.7	0.4	65.2	53.8	1.2	65.2
LOS		F	B			E	E	A	E	D	A	E
Approach Delay			61.3				57.3			50.5		
Approach LOS			E				E			D		
Queue Length 50th (m)		~36.0	35.1			4.5	153.5	0.0	25.6	26.2	0.0	7.5
Queue Length 95th (m)		#61.5	51.1			12.1	#219.8	0.0	37.7	43.4	0.0	17.2
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2758			93	1242	649	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.72	0.44			0.19	0.98	0.12	0.54	0.23	0.14	0.15

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.72  
 Intersection Signal Delay: 56.7  
 Intersection LOS: E  
 Intersection Capacity Utilization 91.9%  
 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2031) Background Traffic  
 AM Peak Hour

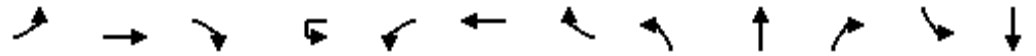


Lane Group	SBT	SBR
v/c Ratio	0.19	0.61
Control Delay	57.6	22.8
Queue Delay	0.0	0.0
Total Delay	57.6	22.8
LOS	E	C
Approach Delay	33.7	
Approach LOS	C	
Queue Length 50th (m)	7.3	3.7
Queue Length 95th (m)	16.5	24.3
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.06	0.32
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↖	↕↕↗			↖	↕↕	↗	↖↖	↕	↗	↖	↕
Traffic Volume (vph)	182	1110	98	2	16	1218	75	200	108	67	30	30
Future Volume (vph)	182	1110	98	2	16	1218	75	200	108	67	30	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Fr <sub>t</sub>		0.988					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4563	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Fl <sub>t</sub> Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3265	4563	0	0	1200	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		12					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	182	1110	98	2	16	1218	75	200	108	67	30	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	182	1208	0	0	18	1218	75	200	108	67	30	30
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	13.1	78.8			9.1	66.8	66.8	13.2	21.1	21.1	7.8	10.7
Actuated g/C Ratio	0.10	0.61			0.07	0.51	0.51	0.10	0.16	0.16	0.06	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

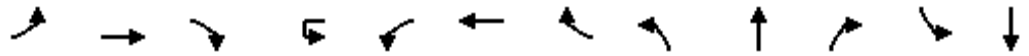
Future (2031) Background Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	152
Future Volume (vph)	152
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Fr <sub>t</sub>	0.850
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	1517
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	152
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	152
Shared Lane Traffic (%)	
Lane Group Flow (vph)	152
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	10.7
Actuated g/C Ratio	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Background Traffic

AM Peak Hour

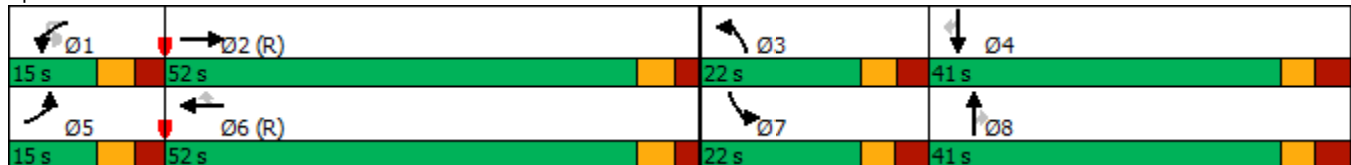


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.44			0.21	0.73	0.09	0.63	0.37	0.19	0.30	0.20
Control Delay	73.3	11.4			61.3	29.1	0.2	65.2	54.4	1.2	65.2	58.4
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.3	11.4			61.3	29.1	0.2	65.2	54.4	1.2	65.2	58.4
LOS	E	B			E	C	A	E	D	A	E	E
Approach Delay		19.5				27.9			50.6			30.5
Approach LOS		B				C			D			C
Queue Length 50th (m)	25.6	35.1			4.5	124.0	0.0	25.6	26.2	0.0	7.5	7.3
Queue Length 95th (m)	38.0	44.8			12.1	172.3	0.0	37.7	44.0	0.0	17.2	16.7
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	330	2770			93	1659	820	370	471	477	198	476
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	0.55	0.44			0.19	0.73	0.09	0.54	0.23	0.14	0.15	0.06

Intersection Summary

Area Type:	Other
Cycle Length:	130
Actuated Cycle Length:	130
Offset:	1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green
Natural Cycle:	125
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.73
Intersection Signal Delay:	27.1
Intersection LOS:	C
Intersection Capacity Utilization	81.0%
ICU Level of Service	D
Analysis Period (min)	15

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road





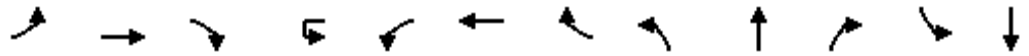
Lane Group	SBR
v/c Ratio	0.59
Control Delay	18.1
Queue Delay	0.0
Total Delay	18.1
LOS	B
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.0
Queue Length 95th (m)	20.2
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	489
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.31
Intersection Summary	



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↑↑	↖		↖	↑↑	↖	↖↗	↑↑	↖	↖↗	↑↑
Traffic Volume (vph)	132	751	275	1	33	1000	200	298	980	23	88	335
Future Volume (vph)	132	751	275	1	33	1000	200	298	980	23	88	335
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5			2.5	
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950							0.950			0.950	
Satd. Flow (perm)	3005	3202	1452	0	1713	3232	1489	3087	3357	1487	3252	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			275				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	132	751	275	1	33	1000	200	298	980	23	88	335
Shared Lane Traffic (%)												
Lane Group Flow (vph)	132	751	275	0	34	1000	200	298	980	23	88	335
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.6	43.5	43.5		6.4	34.2	34.2	15.8	41.6	41.6	6.8	32.6
Actuated g/C Ratio	0.09	0.36	0.36		0.05	0.28	0.28	0.13	0.35	0.35	0.06	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

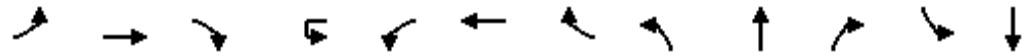
Future (2031) Background Traffic  
AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	155
Future Volume (vph)	155
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	155
Shared Lane Traffic (%)	
Lane Group Flow (vph)	155
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.6
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour

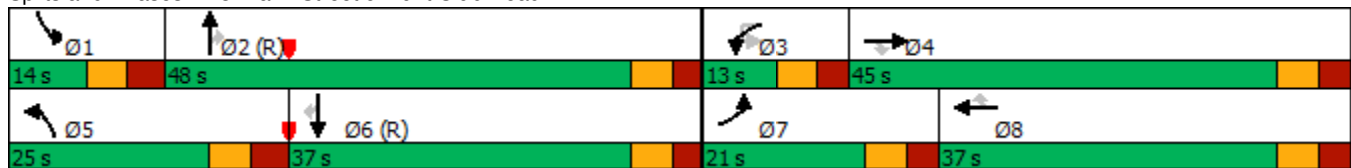



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.50	0.65	0.39		0.37	1.08	0.32	0.71	0.84	0.04	0.48	0.38
Control Delay	58.2	36.3	5.3		66.9	96.3	2.0	59.6	44.1	0.1	67.5	29.0
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.2	36.3	5.3		66.9	96.3	2.0	59.6	44.1	0.1	67.5	29.0
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		31.4				80.2			46.9			27.4
Approach LOS		C				F			D			C
Queue Length 50th (m)	15.5	82.5	0.0		7.9	~139.1	0.0	34.8	111.5	0.0	10.9	22.7
Queue Length 95th (m)	24.8	105.0	18.5		18.6	#190.3	2.7	49.0	138.4	0.0	19.3	30.8
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1160	701		92	922	624	476	1164	656	189	887
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	0.36	0.65	0.39		0.37	1.08	0.32	0.63	0.84	0.04	0.47	0.38

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.08  
 Intersection Signal Delay: 49.7  
 Intersection LOS: D  
 Intersection Capacity Utilization 88.4%  
 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: 3: Bank Street & Hunt Club Road





Lane Group	SBR
v/c Ratio	0.28
Control Delay	1.2
Queue Delay	0.0
Total Delay	1.2
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	563
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.28
Intersection Summary	

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↕	↗		↕	↗	↖	↕↗			↖	↕↗
Traffic Volume (vph)	122	0	33	73	0	148	90	974	51	3	17	421
Future Volume (vph)	122	0	33	73	0	148	90	974	51	3	17	421
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6					7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	0.99	1.00				1.00
Fr <sub>t</sub>			0.850			0.850		0.993				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3241	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.709			0.626		0.461				0.280	
Satd. Flow (perm)	0	1210	1440	0	1067	1426	827	3241	0	0	508	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		8				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	33	73	0	148	90	974	51	3	17	421
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	33	0	73	148	90	1025	0	0	20	421
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.3	71.3
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic  
AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	117		
Future Volume (vph)	117		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	117		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	117		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	117		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.3		
Actuated g/C Ratio	0.59		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.69	0.11		0.47	0.44	0.14	0.45			0.07	0.22
Control Delay		67.9	0.8		55.4	10.9	6.1	6.2			13.7	12.8
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.8		55.4	10.9	6.1	6.2			13.7	12.8
LOS		E	A		E	B	A	A			B	B
Approach Delay		53.6			25.6			6.2				10.8
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		16.0	0.0	4.1	24.8			1.9	22.9
Queue Length 95th (m)		45.0	0.0		29.0	16.8	m8.0	43.2			6.7	38.3
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		274	477	647	2301			301	1884
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.27	0.31	0.14	0.45			0.07	0.22

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.69  
 Intersection Signal Delay: 13.1      Intersection LOS: B  
 Intersection Capacity Utilization 82.5%      ICU Level of Service E  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive





Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.13		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	8.9		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	870		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.13		
Intersection Summary			



5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Future Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3196
Fl <sub>t</sub> Permitted	0.752			0.702			0.546				0.605	
Satd. Flow (perm)	1289	1484	0	1064	1590	0	984	3383	0	0	1101	3196
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Shared Lane Traffic (%)												
Lane Group Flow (vph)	35	84	0	5	9	0	115	236	0	0	6	244
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.2	7.2		7.1	7.1		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.63	0.58

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2031) Background Traffic

AM Peak Hour

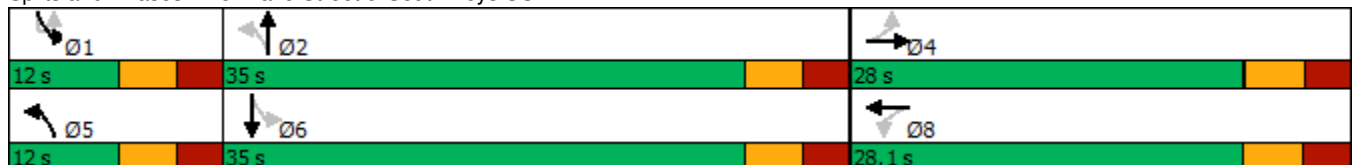


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.22	0.33		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			19.0			4.9				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.6	0.1		0.5	0.2		3.4	3.6			0.2	4.4
Queue Length 95th (m)	10.5	10.1		3.1	3.5		8.4	13.0			1.1	10.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	489	615		402	606		766	2386			771	1904
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.07	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type:	Other
Cycle Length:	75.1
Actuated Cycle Length:	58.5
Natural Cycle:	70
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.33
Intersection Signal Delay:	7.3
Intersection LOS:	A
Intersection Capacity Utilization	38.1%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2031) Background Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	11	12	351	237	5
Future Vol, veh/h	0	11	12	351	237	5
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	11	12	351	237	5

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	121	242	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	914	1336	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	914	1336	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1336	-	914	-	-
HCM Lane V/C Ratio	0.009	-	0.012	-	-
HCM Control Delay (s)	7.7	-	9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	1362	33	81	1327	342	16	0	141	608	0	288
Future Volume (vph)	179	1362	33	81	1327	342	16	0	141	608	0	288
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.996			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3282	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3282	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			27				164			288
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	179	1362	33	81	1327	342	16	0	141	608	0	288
Shared Lane Traffic (%)												
Lane Group Flow (vph)	179	1395	0	81	1669	0	16	0	141	608	0	288
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	18.6	68.2		12.2	58.8		30.0		30.0	30.0		30.0
Actuated g/C Ratio	0.14	0.52		0.09	0.45		0.23		0.23	0.23		0.23

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.73	0.81		0.57	1.13		0.04		0.30	0.79		0.51
Control Delay	70.0	32.8		54.1	92.7		36.4		5.0	54.8		7.3
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	70.0	32.8		54.1	92.7		36.4		5.0	54.8		7.3
LOS	E	C		D	F		D		A	D		A
Approach Delay		37.0			90.9			8.2				39.6
Approach LOS		D			F			A				D
Queue Length 50th (m)	44.4	158.3		20.6	~252.0		3.2		0.0	76.0		0.0
Queue Length 95th (m)	66.0	#245.4		m22.5	m#278.6		8.7		10.7	90.0		20.9
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	284	1722		242	1483		369		469	1052		674
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.63	0.81		0.33	1.13		0.04		0.30	0.58		0.43

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.13  
 Intersection Signal Delay: 58.0 Intersection LOS: E  
 Intersection Capacity Utilization 98.0% 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

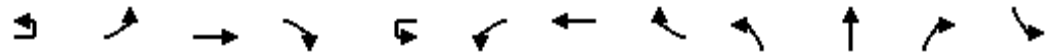
Splits and Phases: 1: Airport Parkway & Hunt Club Road





2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↗↘	↗↘↔			↖↗	↖↗	↖↗	↖↗	↖↗	↖↗	↖↗
Traffic Volume (vph)	33	268	1461	244	28	37	1329	88	141	107	75	101
Future Volume (vph)	33	268	1461	244	28	37	1329	88	141	107	75	101
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.979					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3325	4577	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.175				0.196			0.950			0.950
Satd. Flow (perm)	0	606	4577	0	0	355	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			28					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	268	1461	244	28	37	1329	88	141	107	75	101
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	301	1705	0	0	65	1329	88	141	107	75	101
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.9	50.4			20.4	47.8	47.8	9.8	22.9	22.9	10.0
Actuated g/C Ratio		0.18	0.39			0.16	0.37	0.37	0.08	0.18	0.18	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

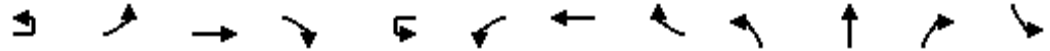
Future (2031) Background Traffic  
PM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	162	316
Future Volume (vph)	162	316
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Frt		0.850
Flt Protected		
Satd. Flow (prot)	1802	1532
Flt Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	162	316
Shared Lane Traffic (%)		
Lane Group Flow (vph)	162	316
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	23.3	23.3
Actuated g/C Ratio	0.18	0.18

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic  
PM Peak Hour

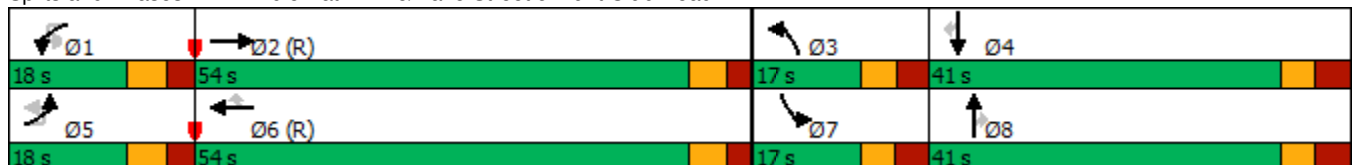


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.84	0.95			1.18	1.08	0.14	0.58	0.33	0.20	0.77
Control Delay		861.4	44.9			225.1	88.4	1.0	67.9	47.1	1.2	93.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		861.4	44.9			225.1	88.4	1.0	67.9	47.1	1.2	93.2
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			167.4				89.2			45.5		
Approach LOS			F				F			D		
Queue Length 50th (m)		~70.8	~142.8			~19.0	~199.3	0.0	18.1	24.0	0.0	25.7
Queue Length 95th (m)		m#101.0	#191.4			#56.6	#241.9	1.5	29.1	37.3	0.0	#53.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1790			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.84	0.95			1.18	1.08	0.14	0.54	0.22	0.15	0.74

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.84  
 Intersection Signal Delay: 117.6      Intersection LOS: F  
 Intersection Capacity Utilization 101.3%      ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



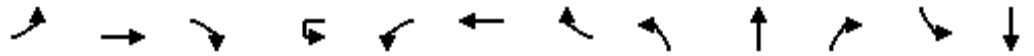


Lane Group	SBT	SBR
v/c Ratio	0.50	0.85
Control Delay	51.8	49.4
Queue Delay	0.0	0.0
Total Delay	51.8	49.4
LOS	D	D
Approach Delay	57.7	
Approach LOS	E	
Queue Length 50th (m)	37.6	46.2
Queue Length 95th (m)	53.9	74.5
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.34	0.66
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	301	1461	244	28	37	1329	88	141	107	75	101	162
Future Volume (vph)	301	1461	244	28	37	1329	88	141	107	75	101	162
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.979					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4577	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.177			0.950			0.950	
Satd. Flow (perm)	3273	4577	0	0	321	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		28					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	301	1461	244	28	37	1329	88	141	107	75	101	162
Shared Lane Traffic (%)												
Lane Group Flow (vph)	301	1705	0	0	65	1329	88	141	107	75	101	162
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	18.0	51.6			22.6	56.2	56.2	9.8	19.4	19.4	10.0	19.7
Actuated g/C Ratio	0.14	0.40			0.17	0.43	0.43	0.08	0.15	0.15	0.08	0.15

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

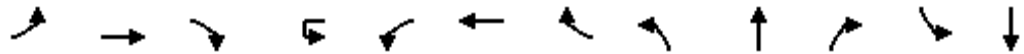
Future (2031) Background Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	316
Future Volume (vph)	316
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	200
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	316
Shared Lane Traffic (%)	
Lane Group Flow (vph)	316
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	19.7
Actuated g/C Ratio	0.15

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Background Traffic

PM Peak Hour

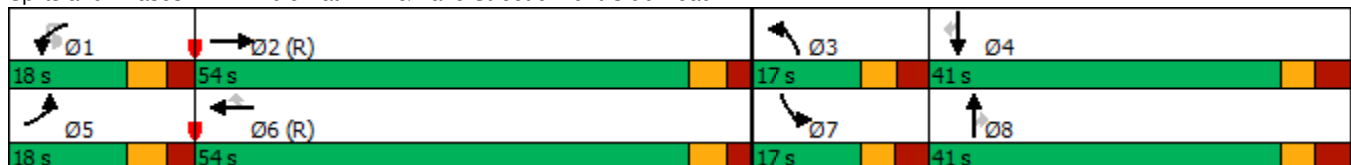


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.93			1.18	0.92	0.13	0.58	0.39	0.22	0.77	0.59
Control Delay	63.2	41.4			224.3	46.4	0.8	67.9	51.9	1.5	93.2	58.8
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	63.2	41.4			224.3	46.4	0.8	67.9	51.9	1.5	93.2	58.8
LOS	E	D			F	D	A	E	D	A	F	E
Approach Delay		44.7				51.5			47.2			52.0
Approach LOS		D				D			D			D
Queue Length 50th (m)	42.2	130.6			~18.2	166.9	0.0	18.1	25.4	0.0	25.7	39.7
Queue Length 95th (m)	m#57.9	#191.4			#55.7	#241.9	1.5	29.1	38.3	0.0	#53.5	55.4
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	460	1834			55	1451	699	260	476	486	136	471
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	0.65	0.93			1.18	0.92	0.13	0.54	0.22	0.15	0.74	0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 125  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 48.1  
 Intersection LOS: D  
 Intersection Capacity Utilization 97.8%  
 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road





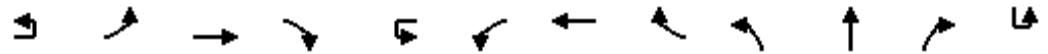
Lane Group	SBR
v/c Ratio	0.82
Control Delay	35.4
Queue Delay	0.0
Total Delay	35.4
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	29.9
Queue Length 95th (m)	58.1
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.60
Intersection Summary	



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↖↗	↕	↗		↖	↕	↗	↖↗	↕	↗	
Traffic Volume (vph)	4	160	951	378	1	49	854	188	344	545	58	1
Future Volume (vph)	4	160	951	378	1	49	854	188	344	545	58	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3140	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1256	3325	1451	0	927	3390	1500	3224	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				277				188			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	160	951	378	1	49	854	188	344	545	58	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	164	951	378	0	50	854	188	344	545	58	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	

### 3: Bank Street & Hunt Club Road South Keys Phase 1

Future (2031) Background Traffic  
PM Peak Hour

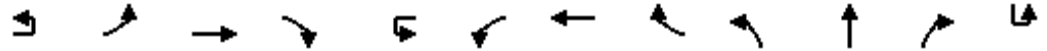


Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	234	1005	232
Future Volume (vph)	234	1005	232
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1154	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	234	1005	232
Shared Lane Traffic (%)			
Lane Group Flow (vph)	235	1005	232
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour

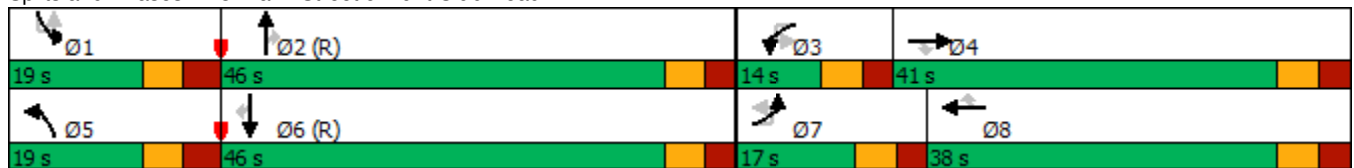


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.50	1.00	0.62		0.88	0.97	0.35	1.05	0.49	0.10	
Control Delay		306.3	72.5	14.9		144.1	67.2	6.9	114.1	34.0	0.3	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		306.3	72.5	14.9		144.1	67.2	6.9	114.1	34.0	0.3	
LOS		F	E	B		F	E	A	F	C	A	
Approach Delay			83.6				60.3			61.0		
Approach LOS			F				E			E		
Queue Length 50th (m)		~27.5	~118.1	18.3		11.9	104.8	0.0	~45.3	53.7	0.0	
Queue Length 95th (m)		#49.5	#162.6	51.3		#36.3	#145.1	17.3	#74.5	70.3	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	612		57	884	530	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.50	1.00	0.62		0.88	0.97	0.35	1.05	0.49	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.06  
 Intersection Signal Delay: 83.7  
 Intersection LOS: F  
 Intersection Capacity Utilization 93.9%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2031) Background Traffic  
 PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.06	0.90	0.42
Control Delay	532.6	42.0	12.9
Queue Delay	0.0	0.0	0.0
Total Delay	532.6	42.0	12.9
LOS	F	D	B
Approach Delay		115.8	
Approach LOS		F	
Queue Length 50th (m)	~46.3	49.1	3.6
Queue Length 95th (m)	#72.7	#151.2	29.9
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.06	0.90	0.42
<b>Intersection Summary</b>			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↗	↘		↖	↗		↖	↗			↘
Traffic Volume (vph)	160	1	132	82	0	101	2	158	666	92	4	146
Future Volume (vph)	160	1	132	82	0	101	2	158	666	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.99
Fr <sub>t</sub>			0.850			0.850			0.982			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3299	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.553			0.147				0.313
Satd. Flow (perm)	0	1110	1454	0	891	1394	0	268	3299	0	0	556
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			17			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	160	1	132	82	0	101	2	158	666	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	132	0	82	101	0	160	758	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0			0.0	0.0		0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1			6.3	6.3		6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.4	22.4		22.4	22.4		74.3	64.8			73.6
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.61

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic  
PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1202	318		
Future Volume (vph)	1202	318		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Frt		0.850		
Flt Protected				
Satd. Flow (prot)	3390	1547		
Flt Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		301		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1202	318		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1202	318		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.5	64.5		
Actuated g/C Ratio	0.54	0.54		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.78	0.35		0.49	0.29		0.57	0.42			0.35
Control Delay		70.1	8.7		52.2	8.6		31.3	14.9			11.0
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		70.1	8.7		52.2	8.6		31.3	14.9			11.0
LOS		E	A		D	A		C	B			B
Approach Delay		42.5			28.2				17.8			
Approach LOS		D			C				B			
Queue Length 50th (m)		36.3	0.0		17.4	0.0		24.4	38.0			11.8
Queue Length 95th (m)		56.1	14.9		31.1	12.6		m41.0	m49.3			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		229	436		302	1790			451
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.56	0.28		0.36	0.23		0.53	0.42			0.33

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.78  
 Intersection Signal Delay: 21.3  
 Intersection LOS: C  
 Intersection Capacity Utilization 91.0%  
 ICU Level of Service F  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2031) Background Traffic  
 PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.66	0.35		
Control Delay	23.7	3.7		
Queue Delay	0.0	0.0		
Total Delay	23.7	3.7		
LOS	C	A		
Approach Delay	18.8			
Approach LOS	B			
Queue Length 50th (m)	103.5	1.8		
Queue Length 95th (m)	150.3	17.9		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1821	909		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.66	0.35		
Intersection Summary				



5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Future Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.950
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3225
Fl <sub>t</sub> Permitted	0.746			0.393			0.445				0.616	
Satd. Flow (perm)	1346	1523	0	713	1585	0	808	3377	0	0	1113	3225
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				79
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	224	0	2	17	0	195	217	0	0	22	429
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2			1	6
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.6	11.6		11.6	11.6		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.52

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2031) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.44	0.55		0.02	0.07		0.29	0.10			0.03	0.25
Control Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
LOS	D	B		C	B		A	A			A	A
Approach Delay		19.1			21.0			5.8				8.9
Approach LOS		B			C			A				A
Queue Length 50th (m)	11.2	0.4		0.2	0.5		7.4	3.8			0.8	13.2
Queue Length 95th (m)	27.4	19.2		2.3	6.1		16.9	13.3			3.0	25.6
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	505	710		267	603		906	2207			800	1729
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.17	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	80.6
Natural Cycle:	75
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.55
Intersection Signal Delay:	10.7
Intersection LOS:	B
Intersection Capacity Utilization	64.1%
ICU Level of Service	C
Analysis Period (min)	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2031) Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	13	22	412	502	8
Future Vol, veh/h	0	13	22	412	502	8
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	22	412	502	8

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	255	510	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	750	1065	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	750	1065	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.9	0.4	0
HCM LOS	A		

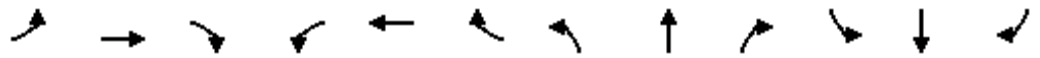
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1065	-	750	-	-
HCM Lane V/C Ratio	0.021	-	0.017	-	-
HCM Control Delay (s)	8.5	-	9.9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

## Future (2041) Background Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	373	1168	26	70	1032	648	16	0	89	272	0	159
Future Volume (vph)	373	1168	26	70	1032	648	16	0	89	272	0	159
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			113				164			159
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	373	1168	26	70	1032	648	16	0	89	272	0	159
Shared Lane Traffic (%)												
Lane Group Flow (vph)	373	1194	0	70	1680	0	16	0	89	272	0	159
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	41.5	82.8		11.2	49.7		16.3		16.3	16.3		16.3
Actuated g/C Ratio	0.32	0.64		0.09	0.38		0.13		0.13	0.13		0.13

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour

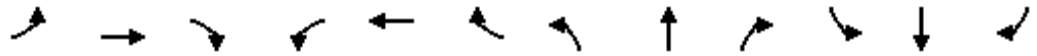
Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	



1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.68	0.58		0.53	1.37		0.08		0.28	0.67		0.49
Control Delay	46.6	16.8		47.5	201.2		49.2		2.2	62.3		12.6
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	46.6	16.8		47.5	201.2		49.2		2.2	62.3		12.6
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.9			195.1			9.4				44.0
Approach LOS		C			F			A				D
Queue Length 50th (m)	85.5	92.1		17.5	~276.7		3.7		0.0	34.7		0.0
Queue Length 95th (m)	118.9	134.9		m21.7 m#296.3			10.3		0.0	47.4		19.0
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	546	2074		292	1223		202		316	1007		569
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.68	0.58		0.24	1.37		0.08		0.28	0.27		0.28

Intersection Summary

Area Type: Other

Cycle Length: 130

Actuated Cycle Length: 130

Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 150

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.37

Intersection Signal Delay: 103.5

Intersection LOS: F

Intersection Capacity Utilization 101.2%

ICU Level of Service G

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

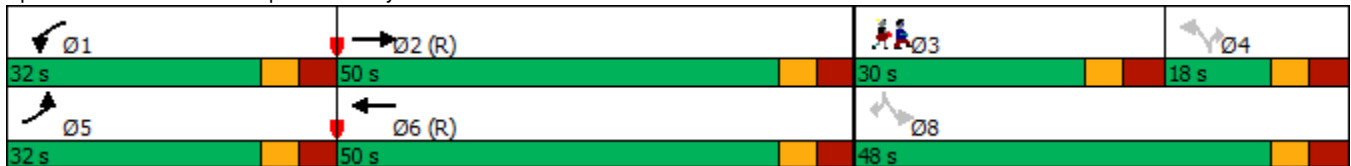
Queue shown is maximum after two cycles.

# 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.

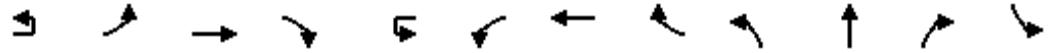
Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

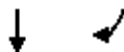
AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔				↔	↔↔	↔	↔↔	↔	↔
Traffic Volume (vph)	19	163	1163	98	2	16	1274	75	200	108	67	30
Future Volume (vph)	19	163	1163	98	2	16	1274	75	200	108	67	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4564	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.136				0.800			0.950			0.950
Satd. Flow (perm)	0	469	4564	0	0	1201	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			12					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	163	1163	98	2	16	1274	75	200	108	67	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	182	1261	0	0	18	1274	75	200	108	67	30
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.5	78.5			9.1	50.0	50.0	13.2	21.4	21.4	7.8
Actuated g/C Ratio		0.23	0.60			0.07	0.38	0.38	0.10	0.16	0.16	0.06

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic  
AM Peak Hour

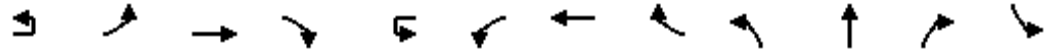


Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	30	152
Future Volume (vph)	30	152
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1820	1517
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	30	152
Shared Lane Traffic (%)		
Lane Group Flow (vph)	30	152
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.1	11.1
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour

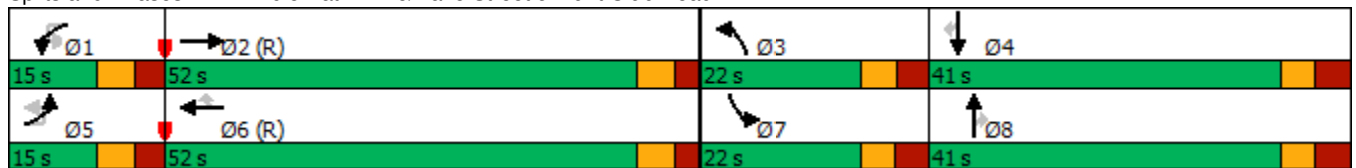


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.72	0.46			0.21	1.02	0.12	0.63	0.36	0.19	0.30
Control Delay		391.8	11.6			61.3	71.4	0.4	65.2	53.8	1.2	65.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		391.8	11.6			61.3	71.4	0.4	65.2	53.8	1.2	65.2
LOS		F	B			E	E	A	E	D	A	E
Approach Delay			59.6				67.4			50.5		
Approach LOS			E				E			D		
Queue Length 50th (m)		~36.2	36.8			4.5	165.0	0.0	25.6	26.2	0.0	7.5
Queue Length 95th (m)		#61.9	51.0			12.1	#235.8	0.0	37.7	43.4	0.0	17.2
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2759			93	1243	650	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.72	0.46			0.19	1.02	0.12	0.54	0.23	0.14	0.15

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.72  
 Intersection Signal Delay: 60.1  
 Intersection LOS: E  
 Intersection Capacity Utilization 93.5%  
 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour

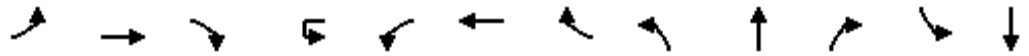


Lane Group	SBT	SBR
v/c Ratio	0.19	0.61
Control Delay	57.6	22.8
Queue Delay	0.0	0.0
Total Delay	57.6	22.8
LOS	E	C
Approach Delay	33.7	
Approach LOS	C	
Queue Length 50th (m)	7.3	3.7
Queue Length 95th (m)	16.5	24.3
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.06	0.32
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↖	↑↑↗			↖	↑↑	↗	↖↖	↑	↗	↖	↑
Traffic Volume (vph)	182	1163	98	2	16	1274	75	200	108	67	30	30
Future Volume (vph)	182	1163	98	2	16	1274	75	200	108	67	30	30
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Fr <sub>t</sub>		0.988					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4564	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Fl <sub>t</sub> Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3267	4564	0	0	1201	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		12					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	182	1163	98	2	16	1274	75	200	108	67	30	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	182	1261	0	0	18	1274	75	200	108	67	30	30
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	13.1	78.8			9.1	66.8	66.8	13.2	21.1	21.1	7.8	10.7
Actuated g/C Ratio	0.10	0.61			0.07	0.51	0.51	0.10	0.16	0.16	0.06	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

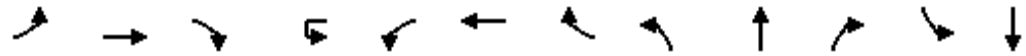
Future (2041) Background Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	152
Future Volume (vph)	152
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1517
Flt Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	152
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	152
Shared Lane Traffic (%)	
Lane Group Flow (vph)	152
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	10.7
Actuated g/C Ratio	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Background Traffic

AM Peak Hour

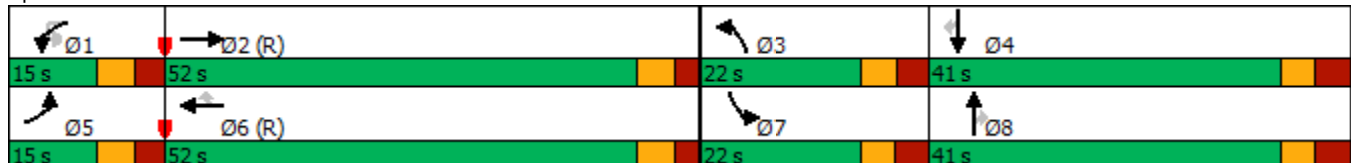


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.46			0.21	0.77	0.09	0.63	0.37	0.19	0.30	0.20
Control Delay	72.6	11.4			61.3	30.3	0.2	65.2	54.4	1.2	65.2	58.4
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	72.6	11.4			61.3	30.3	0.2	65.2	54.4	1.2	65.2	58.4
LOS	E	B			E	C	A	E	D	A	E	E
Approach Delay		19.1				29.1			50.6			30.5
Approach LOS		B				C			D			C
Queue Length 50th (m)	25.6	36.8			4.5	133.5	0.0	25.6	26.2	0.0	7.5	7.3
Queue Length 95th (m)	37.8	44.7			12.1	185.0	0.0	37.7	44.0	0.0	17.2	16.7
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	330	2770			93	1659	820	370	471	477	198	476
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	0.55	0.46			0.19	0.77	0.09	0.54	0.23	0.14	0.15	0.06

Intersection Summary

Area Type:	Other
Cycle Length:	130
Actuated Cycle Length:	130
Offset:	1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green
Natural Cycle:	125
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.77
Intersection Signal Delay:	27.3
Intersection LOS:	C
Intersection Capacity Utilization	82.6%
ICU Level of Service	E
Analysis Period (min)	15

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road





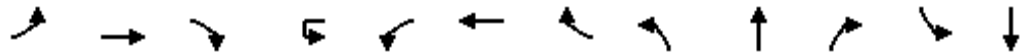


Lane Group	SBR
v/c Ratio	0.59
Control Delay	18.1
Queue Delay	0.0
Total Delay	18.1
LOS	B
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.0
Queue Length 95th (m)	20.2
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	489
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.31
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↑↑	↖		↖	↑↑	↖	↖↗	↑↑	↖	↖↗	↑↑
Traffic Volume (vph)	138	787	288	1	34	1048	209	312	1026	24	92	351
Future Volume (vph)	138	787	288	1	34	1048	209	312	1026	24	92	351
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5				2.5
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950				0.769			0.950			0.950	
Satd. Flow (perm)	3006	3202	1452	0	1318	3232	1489	3089	3357	1487	3255	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			288				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	138	787	288	1	34	1048	209	312	1026	24	92	351
Shared Lane Traffic (%)												
Lane Group Flow (vph)	138	787	288	0	35	1048	209	312	1026	24	92	351
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.8	40.9	40.9		6.4	34.0	34.0	16.0	41.6	41.6	6.8	32.4
Actuated g/C Ratio	0.09	0.34	0.34		0.05	0.28	0.28	0.13	0.35	0.35	0.06	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

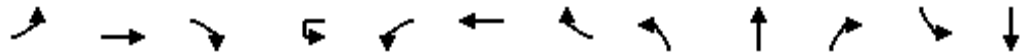
Future (2041) Background Traffic  
AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	162
Future Volume (vph)	162
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	162
Shared Lane Traffic (%)	
Lane Group Flow (vph)	162
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.4
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour

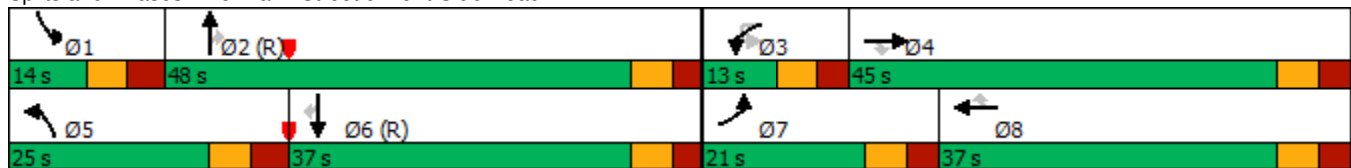


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.51	0.72	0.42		0.50	1.15	0.34	0.73	0.88	0.04	0.49	0.40
Control Delay	58.3	40.0	5.4		79.5	117.8	2.5	60.4	47.1	0.1	68.4	29.4
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	40.0	5.4		79.5	117.8	2.5	60.4	47.1	0.1	68.4	29.4
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		33.9				98.1			49.3			27.8
Approach LOS		C				F			D			C
Queue Length 50th (m)	16.2	87.8	0.0		8.2	~152.2	0.0	36.5	119.0	0.0	11.4	23.7
Queue Length 95th (m)	25.8	111.3	19.0		#21.2	#204.0	4.7	51.1	#155.6	0.0	19.8	32.0
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1090	684		71	915	621	476	1163	656	189	880
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	0.38	0.72	0.42		0.49	1.15	0.34	0.66	0.88	0.04	0.49	0.40

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.15  
 Intersection Signal Delay: 56.3  
 Intersection LOS: E  
 Intersection Capacity Utilization 91.2%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



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↙

Lane Group	SBR
v/c Ratio	0.29
Control Delay	1.3
Queue Delay	0.0
Total Delay	1.3
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	561
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.29
Intersection Summary	

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4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖	↗		↖	↗	↖	↗			↖	↗
Traffic Volume (vph)	122	0	33	73	0	148	90	1021	51	3	17	440
Future Volume (vph)	122	0	33	73	0	148	90	1021	51	3	17	440
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6					7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	1.00	1.00				1.00
Frt			0.850			0.850		0.993				
Flt Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3241	0	0	1729	3172
Flt Permitted		0.709			0.626		0.451				0.267	
Satd. Flow (perm)	0	1210	1440	0	1067	1426	809	3241	0	0	485	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		7				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	33	73	0	148	90	1021	51	3	17	440
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	33	0	73	148	90	1072	0	0	20	440
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.3	71.3
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic  
AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	117		
Future Volume (vph)	117		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	117		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	117		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	117		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.3		
Actuated g/C Ratio	0.59		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.69	0.11		0.47	0.44	0.14	0.47			0.07	0.23
Control Delay		67.9	0.8		55.4	10.9	6.4	6.6			13.8	12.9
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.8		55.4	10.9	6.4	6.6			13.8	12.9
LOS		E	A		E	B	A	A			B	B
Approach Delay		53.6			25.6			6.5				10.9
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		16.0	0.0	4.1	26.1			1.9	24.1
Queue Length 95th (m)		45.0	0.0		29.0	16.8	m7.9	m45.2			6.7	40.1
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		274	477	635	2301			287	1884
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.27	0.31	0.14	0.47			0.07	0.23

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.69  
 Intersection Signal Delay: 13.2      Intersection LOS: B  
 Intersection Capacity Utilization 83.9%      ICU Level of Service E  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive







Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.13		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	8.9		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	870		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.13		
Intersection Summary			

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Future Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3196
Fl <sub>t</sub> Permitted	0.752			0.702			0.546				0.605	
Satd. Flow (perm)	1289	1484	0	1064	1590	0	984	3383	0	0	1101	3196
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	35	1	83	5	2	7	115	233	3	2	4	154
Shared Lane Traffic (%)												
Lane Group Flow (vph)	35	84	0	5	9	0	115	236	0	0	6	244
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.2	7.2		7.1	7.1		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.63	0.58

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Background Traffic

AM Peak Hour

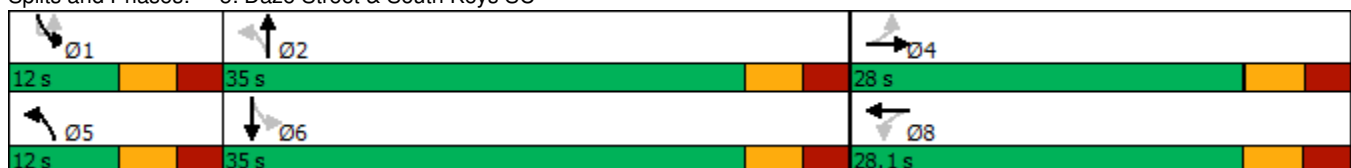


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.22	0.33		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	5.9
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			19.0			4.9				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.6	0.1		0.5	0.2		3.4	3.6			0.2	4.4
Queue Length 95th (m)	10.5	10.1		3.1	3.5		8.4	13.0			1.1	10.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	489	615		402	606		766	2386			771	1904
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.07	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type:	Other
Cycle Length:	75.1
Actuated Cycle Length:	58.5
Natural Cycle:	70
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.33
Intersection Signal Delay:	7.3
Intersection LOS:	A
Intersection Capacity Utilization:	38.1%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2041) Background Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	11	12	351	237	5
Future Vol, veh/h	0	11	12	351	237	5
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	11	12	351	237	5

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	121	242	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	914	1336	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	914	1336	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1336	-	914	-	-
HCM Lane V/C Ratio	0.009	-	0.012	-	-
HCM Control Delay (s)	7.7	-	9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	188	1426	34	85	1389	358	16	0	147	636	0	302
Future Volume (vph)	188	1426	34	85	1389	358	16	0	147	636	0	302
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.997			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3285	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3285	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			27				164			302
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	188	1426	34	85	1389	358	16	0	147	636	0	302
Shared Lane Traffic (%)												
Lane Group Flow (vph)	188	1460	0	85	1747	0	16	0	147	636	0	302
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	19.0	63.7		12.5	57.2		31.2		31.2	31.2		31.2
Actuated g/C Ratio	0.15	0.49		0.10	0.44		0.24		0.24	0.24		0.24

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	



1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.75	0.91		0.58	1.21		0.04		0.30	0.80		0.51
Control Delay	71.4	40.8		52.2	128.5		35.4		5.4	54.1		7.1
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	71.4	40.8		52.2	128.5		35.4		5.4	54.1		7.1
LOS	E	D		D	F		D		A	D		A
Approach Delay		44.3			124.9			8.4				38.9
Approach LOS		D			F			A				D
Queue Length 50th (m)	46.6	175.6		21.6	~280.5		3.2		0.0	79.4		0.0
Queue Length 95th (m)	69.8	#269.9		m23.0	m#283.5		8.6		11.9	93.4		20.8
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	283	1611		242	1443		384		482	1052		684
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.66	0.91		0.35	1.21		0.04		0.30	0.60		0.44

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.21  
 Intersection Signal Delay: 74.2  
 Intersection Capacity Utilization 101.7%  
 Analysis Period (min) 15  
 Intersection LOS: E  
 ICU Level of Service G

~ 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: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔			↔	↔↔	↔	↔↔	↔	↔	↔
Traffic Volume (vph)	33	268	1529	244	28	37	1392	88	141	107	75	101
Future Volume (vph)	33	268	1529	244	28	37	1392	88	141	107	75	101
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.979					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3325	4579	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.175				0.197			0.950			0.950
Satd. Flow (perm)	0	606	4579	0	0	357	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			26					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	268	1529	244	28	37	1392	88	141	107	75	101
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	301	1773	0	0	65	1392	88	141	107	75	101
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.9	50.4			20.3	47.8	47.8	9.8	22.9	22.9	10.0
Actuated g/C Ratio		0.18	0.39			0.16	0.37	0.37	0.08	0.18	0.18	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour

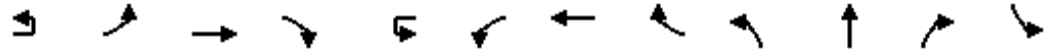


Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	162	316
Future Volume (vph)	162	316
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1802	1532
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	162	316
Shared Lane Traffic (%)		
Lane Group Flow (vph)	162	316
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	23.3	23.3
Actuated g/C Ratio	0.18	0.18

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour

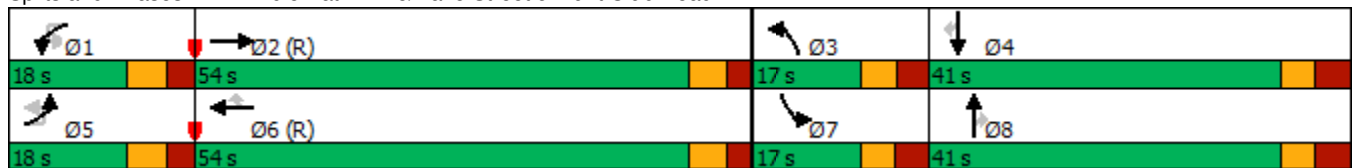


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.84	0.99			1.18	1.13	0.14	0.58	0.33	0.20	0.77
Control Delay		860.0	50.1			223.6	106.7	1.0	67.9	47.1	1.2	93.2
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		860.0	50.1			223.6	106.7	1.0	67.9	47.1	1.2	93.2
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			167.6				105.6			45.5		
Approach LOS			F				F			D		
Queue Length 50th (m)		~70.9	~176.0			~18.9	~217.0	0.0	18.1	24.0	0.0	25.7
Queue Length 95th (m)		m#93.6	#204.6			#56.5	#259.6	1.5	29.1	37.3	0.0	#53.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1790			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.84	0.99			1.18	1.13	0.14	0.54	0.22	0.15	0.74

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.84  
 Intersection Signal Delay: 123.6 Intersection LOS: F  
 Intersection Capacity Utilization 103.2% ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Background Traffic  
 PM Peak Hour

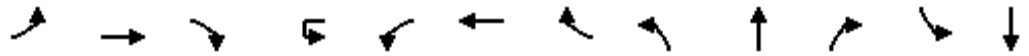


Lane Group	SBT	SBR
v/c Ratio	0.50	0.85
Control Delay	51.8	49.4
Queue Delay	0.0	0.0
Total Delay	51.8	49.4
LOS	D	D
Approach Delay	57.7	
Approach LOS	E	
Queue Length 50th (m)	37.6	46.2
Queue Length 95th (m)	53.9	74.5
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.34	0.66
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	301	1529	244	28	37	1392	88	141	107	75	101	162
Future Volume (vph)	301	1529	244	28	37	1392	88	141	107	75	101	162
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.979					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4579	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.177			0.950			0.950	
Satd. Flow (perm)	3277	4579	0	0	321	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		26					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	301	1529	244	28	37	1392	88	141	107	75	101	162
Shared Lane Traffic (%)												
Lane Group Flow (vph)	301	1773	0	0	65	1392	88	141	107	75	101	162
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	18.0	51.6			22.6	56.2	56.2	9.8	19.5	19.5	10.0	19.8
Actuated g/C Ratio	0.14	0.40			0.17	0.43	0.43	0.08	0.15	0.15	0.08	0.15

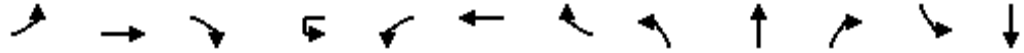
2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Background Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	316
Future Volume (vph)	316
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	199
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	316
Shared Lane Traffic (%)	
Lane Group Flow (vph)	316
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	19.8
Actuated g/C Ratio	0.15

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2041) Background Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.97			1.18	0.96	0.13	0.58	0.39	0.22	0.77	0.59
Control Delay	61.2	44.8			224.3	52.5	0.8	67.9	51.8	1.5	93.2	58.7
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.2	44.8			224.3	52.5	0.8	67.9	51.8	1.5	93.2	58.7
LOS	E	D			F	D	A	E	D	A	F	E
Approach Delay		47.2				56.8			47.2			52.1
Approach LOS		D				E			D			D
Queue Length 50th (m)	42.2	~148.3			~18.2	180.8	0.0	18.1	25.3	0.0	25.7	39.7
Queue Length 95th (m)	m#50.5	#204.6			#55.7	#259.6	1.5	29.1	38.3	0.0	#53.5	55.4
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	460	1834			55	1450	699	260	476	486	136	471
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	0.65	0.97			1.18	0.96	0.13	0.54	0.22	0.15	0.74	0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 51.1  
 Intersection LOS: D  
 Intersection Capacity Utilization 99.6%  
 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road





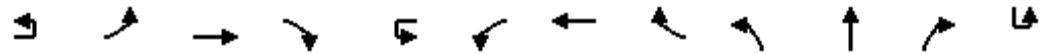


Lane Group	SBR
v/c Ratio	0.82
Control Delay	35.6
Queue Delay	0.0
Total Delay	35.6
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	30.2
Queue Length 95th (m)	58.4
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.60
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↖↗	↕	↗		↖	↕	↗	↖↗	↕	↗	
Traffic Volume (vph)	4	167	996	396	1	52	895	197	361	571	61	1
Future Volume (vph)	4	167	996	396	1	52	895	197	361	571	61	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3140	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1257	3325	1451	0	928	3390	1500	3230	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				273				195			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	167	996	396	1	52	895	197	361	571	61	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	171	996	396	0	53	895	197	361	571	61	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8				2
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic  
PM Peak Hour

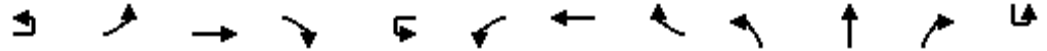


Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	245	1052	242
Future Volume (vph)	245	1052	242
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1155	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	245	1052	242
Shared Lane Traffic (%)			
Lane Group Flow (vph)	246	1052	242
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour

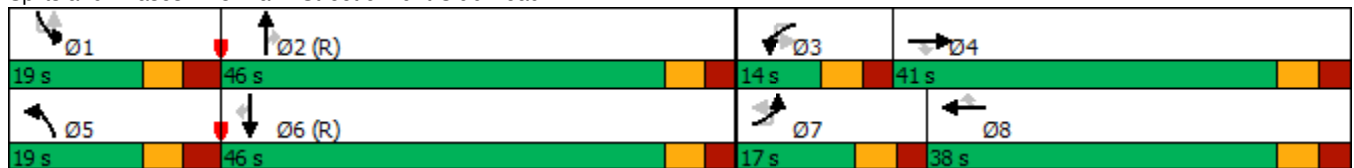


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.57	1.05	0.65		0.91	1.01	0.37	1.10	0.51	0.10	
Control Delay		331.5	84.5	17.0		152.1	77.6	7.1	128.1	34.5	0.4	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		331.5	84.5	17.0		152.1	77.6	7.1	128.1	34.5	0.4	
LOS		F	F	B		F	E	A	F	C	A	
Approach Delay			94.4				68.9			66.4		
Approach LOS			F				E			E		
Queue Length 50th (m)		~29.3	~134.3	23.7		12.6	~113.6	0.4	~49.5	56.8	0.0	
Queue Length 95th (m)		#51.8	#174.5	58.8		#38.2	#156.5	17.9	#79.3	73.9	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	609		58	884	535	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.57	1.05	0.65		0.91	1.01	0.37	1.10	0.51	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.16  
 Intersection Signal Delay: 92.9      Intersection LOS: F  
 Intersection Capacity Utilization 97.1%      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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.16	0.94	0.44
Control Delay	572.9	47.7	14.4
Queue Delay	0.0	0.0	0.0
Total Delay	572.9	47.7	14.4
LOS	F	D	B
Approach Delay		126.4	
Approach LOS		F	
Queue Length 50th (m)	~49.1	58.8	5.6
Queue Length 95th (m)	#75.7	#163.4	32.7
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.16	0.94	0.44
<b>Intersection Summary</b>			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↖	↗		↖	↗		↖	↕	↗		↗
Traffic Volume (vph)	160	1	132	82	0	101	2	158	697	92	4	146
Future Volume (vph)	160	1	132	82	0	101	2	158	697	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.99
Fr <sub>t</sub>			0.850			0.850			0.983			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3304	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.553			0.129				0.301
Satd. Flow (perm)	0	1110	1454	0	891	1394	0	235	3304	0	0	535
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			16			
Link Speed (k/h)		50			50			60				
Link Distance (m)		72.9			188.5			169.4				
Travel Time (s)		5.2			13.6			10.2				
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	160	1	132	82	0	101	2	158	697	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	132	0	82	101	0	160	789	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1		6.3	6.3			6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.4	22.4		22.4	22.4		74.8	64.8			73.1
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.61

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1258	318		
Future Volume (vph)	1258	318		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Fr <sub>t</sub>		0.850		
Fl <sub>t</sub> Protected				
Satd. Flow (prot)	3390	1547		
Fl <sub>t</sub> Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		288		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1258	318		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1258	318		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.0	64.0		
Actuated g/C Ratio	0.53	0.53		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Background Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.78	0.35		0.49	0.29		0.59	0.44			0.36
Control Delay		70.1	8.7		52.2	8.6		34.0	15.4			11.2
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		70.1	8.7		52.2	8.6		34.0	15.4			11.2
LOS		E	A		D	A		C	B			B
Approach Delay		42.5			28.2				18.5			
Approach LOS		D			C				B			
Queue Length 50th (m)		36.3	0.0		17.4	0.0		26.1	39.7			11.8
Queue Length 95th (m)		56.1	14.9		31.1	12.6		m42.2	m53.3			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		229	436		288	1791			438
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.56	0.28		0.36	0.23		0.56	0.44			0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.78  
 Intersection Signal Delay: 22.1      Intersection LOS: C  
 Intersection Capacity Utilization 92.7%      ICU Level of Service F  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive





4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.70	0.35		
Control Delay	25.0	4.3		
Queue Delay	0.0	0.0		
Total Delay	25.0	4.3		
LOS	C	A		
Approach Delay	20.0			
Approach LOS	B			
Queue Length 50th (m)	112.4	3.3		
Queue Length 95th (m)	161.0	20.5		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1807	898		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.70	0.35		
Intersection Summary				

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Future Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.950
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3225
Fl <sub>t</sub> Permitted	0.746			0.393			0.445				0.616	
Satd. Flow (perm)	1346	1523	0	713	1585	0	808	3377	0	0	1113	3225
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				79
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	85	3	221	2	4	13	195	199	18	1	21	287
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	224	0	2	17	0	195	217	0	0	22	429
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2			1	6
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.6	11.6		11.6	11.6		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.52

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Background Traffic

PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.44	0.55		0.02	0.07		0.29	0.10			0.03	0.25
Control Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.1
LOS	D	B		C	B		A	A			A	A
Approach Delay		19.1			21.0			5.8				8.9
Approach LOS		B			C			A				A
Queue Length 50th (m)	11.2	0.4		0.2	0.5		7.4	3.8			0.8	13.2
Queue Length 95th (m)	27.4	19.2		2.3	6.1		16.9	13.3			3.0	25.6
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	505	710		267	603		906	2207			800	1729
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.17	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	80.6
Natural Cycle:	75
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.55
Intersection Signal Delay:	10.7
Intersection LOS:	B
Intersection Capacity Utilization:	64.1%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2041) Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	13	22	412	502	8
Future Vol, veh/h	0	13	22	412	502	8
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	22	412	502	8
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	-	255	510	0	0	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Critical Hdwy	-	6.9	4.1	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	
Follow-up Hdwy	-	3.3	2.2	-	-	
Pot Cap-1 Maneuver	0	750	1065	-	-	
Stage 1	0	-	-	-	-	
Stage 2	0	-	-	-	-	
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	-	750	1065	-	-	
Mov Cap-2 Maneuver	-	-	-	-	-	
Stage 1	-	-	-	-	-	
Stage 2	-	-	-	-	-	
Approach	EB	NB	SB			
HCM Control Delay, s	9.9	0.4	0			
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1065	-	750	-	-	
HCM Lane V/C Ratio	0.021	-	0.017	-	-	
HCM Control Delay (s)	8.5	-	9.9	-	-	
HCM Lane LOS	A	-	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

Future (2026) Total Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	347	1090	25	66	966	612	15	0	83	256	0	148
Future Volume (vph)	347	1090	25	66	966	612	15	0	83	256	0	148
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			115				164			148
Link Speed (k/h)		60			60			80				80
Link Distance (m)		431.4			316.9			354.1				189.5
Travel Time (s)		25.9			19.0			15.9				8.5
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	347	1090	25	66	966	612	15	0	83	256	0	148
Shared Lane Traffic (%)												
Lane Group Flow (vph)	347	1115	0	66	1578	0	15	0	83	256	0	148
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	37.1	83.7		10.9	54.8		15.6		15.6	15.6		15.6
Actuated g/C Ratio	0.29	0.64		0.08	0.42		0.12		0.12	0.12		0.12



1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2026) Total Traffic  
 AM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.71	0.53		0.51	1.18		0.08		0.27	0.65		0.48
Control Delay	50.9	15.4		47.3	118.1		49.8		2.1	62.5		13.0
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	50.9	15.4		47.3	118.1		49.8		2.1	62.5		13.0
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.8			115.3			9.4				44.4
Approach LOS		C			F			A				D
Queue Length 50th (m)	80.8	80.8		16.2	~235.6		3.5		0.0	32.7		0.0
Queue Length 95th (m)	112.9	119.3		m20.8	m#272.8		9.9		0.0	45.2		18.6
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	488	2096		292	1337		194		310	1007		562
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.71	0.53		0.23	1.18		0.08		0.27	0.25		0.26

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 150  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 67.4  
 Intersection Capacity Utilization 96.5%  
 Analysis Period (min) 15  
 Intersection LOS: E  
 ICU Level of Service F

~ 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.

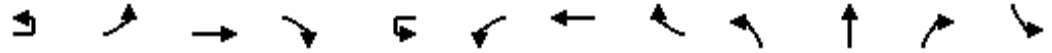
m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔			↔	↔↔	↔	↔↔	↔	↔	↔
Traffic Volume (vph)	19	168	1084	98	2	16	1189	77	200	108	67	41
Future Volume (vph)	19	168	1084	98	2	16	1189	77	200	108	67	41
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4562	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.134				0.800			0.950			0.950
Satd. Flow (perm)	0	462	4562	0	0	1200	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			13					143			137	
Link Speed (k/h)			60				60		50			
Link Distance (m)			316.9				201.3		183.6			
Travel Time (s)			19.0				12.1		13.2			
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	168	1084	98	2	16	1189	77	200	108	67	41
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	1182	0	0	18	1189	77	200	108	67	41
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.9	77.9			9.1	49.1	49.1	13.2	18.5	18.5	8.6
Actuated g/C Ratio		0.23	0.60			0.07	0.38	0.38	0.10	0.14	0.14	0.07

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

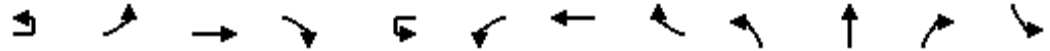
Future (2026) Total Traffic  
AM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	31	163
Future Volume (vph)	31	163
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1820	1517
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	31	163
Shared Lane Traffic (%)		
Lane Group Flow (vph)	31	163
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.6	11.6
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

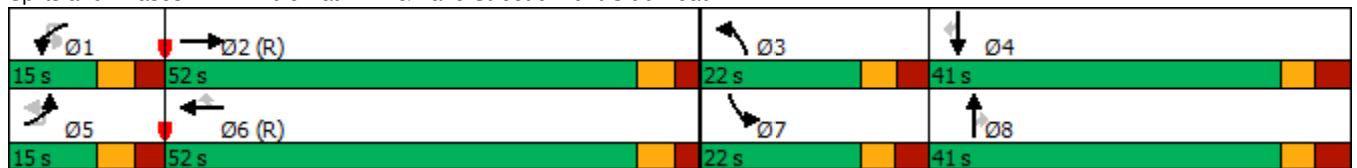


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.76	0.43			0.21	0.97	0.12	0.63	0.42	0.21	0.37
Control Delay		411.1	12.0			61.3	60.2	0.4	65.2	57.2	1.5	66.6
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		411.1	12.0			61.3	60.2	0.4	65.2	57.2	1.5	66.6
LOS		F	B			E	E	A	E	E	A	E
Approach Delay			66.5				56.6			51.5		
Approach LOS			E				E			D		
Queue Length 50th (m)		~37.2	34.5			4.5	148.9	0.0	25.6	26.5	0.0	10.3
Queue Length 95th (m)		#62.5	56.5			12.1	#215.3	0.0	37.7	43.4	0.0	21.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2740			93	1220	640	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.76	0.43			0.19	0.97	0.12	0.54	0.23	0.14	0.21

Intersection Summary

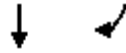
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.76  
 Intersection Signal Delay: 58.8  
 Intersection LOS: E  
 Intersection Capacity Utilization 91.4%  
 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

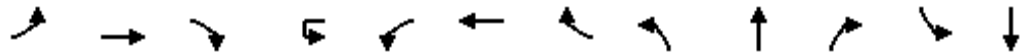
Future (2026) Total Traffic  
 AM Peak Hour



Lane Group	SBT	SBR
v/c Ratio	0.19	0.64
Control Delay	56.6	25.5
Queue Delay	0.0	0.0
Total Delay	56.6	25.5
LOS	E	C
Approach Delay	36.8	
Approach LOS	D	
Queue Length 50th (m)	7.6	6.4
Queue Length 95th (m)	16.8	28.1
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.07	0.34
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↕↗			↖	↕↗	↖	↖↗	↕	↖	↖	↕
Traffic Volume (vph)	187	1084	98	2	16	1189	77	200	108	67	41	31
Future Volume (vph)	187	1084	98	2	16	1189	77	200	108	67	41	31
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Frts		0.988					0.850			0.850		
Flt Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4562	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Flt Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3264	4562	0	0	1200	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		13					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	187	1084	98	2	16	1189	77	200	108	67	41	31
Shared Lane Traffic (%)												
Lane Group Flow (vph)	187	1182	0	0	18	1189	77	200	108	67	41	31
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	13.4	78.6			9.1	66.3	66.3	13.2	17.9	17.9	8.6	10.9
Actuated g/C Ratio	0.10	0.60			0.07	0.51	0.51	0.10	0.14	0.14	0.07	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

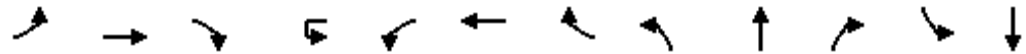
Future (2026) Total Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	163
Future Volume (vph)	163
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1517
Flt Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	163
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	163
Shared Lane Traffic (%)	
Lane Group Flow (vph)	163
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	10.9
Actuated g/C Ratio	0.08



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
 AM Peak Hour

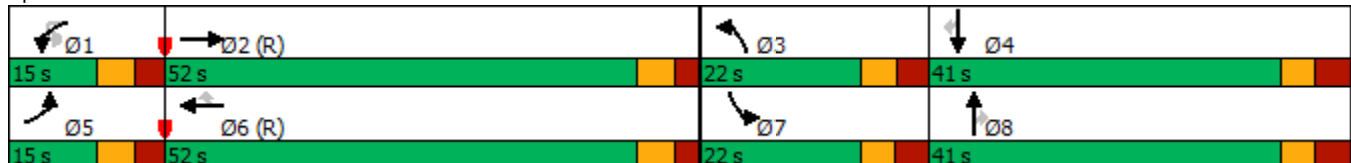


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.43			0.21	0.72	0.09	0.63	0.44	0.21	0.37	0.20
Control Delay	73.7	11.5			61.3	29.0	0.2	65.2	58.7	1.5	66.6	58.1
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.7	11.5			61.3	29.0	0.2	65.2	58.7	1.5	66.6	58.1
LOS	E	B			E	C	A	E	E	A	E	E
Approach Delay		20.0				27.7			51.9			31.7
Approach LOS		C				C			D			C
Queue Length 50th (m)	26.3	34.5			4.5	120.1	0.0	25.6	26.5	0.0	10.3	7.6
Queue Length 95th (m)	38.7	48.0			12.1	168.7	0.0	37.7	44.1	0.0	21.5	17.1
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	338	2763			93	1647	815	370	471	477	198	476
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	0.55	0.43			0.19	0.72	0.09	0.54	0.23	0.14	0.21	0.07

Intersection Summary


Area Type:	Other
Cycle Length:	130
Actuated Cycle Length:	130
Offset:	1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green
Natural Cycle:	115
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.72
Intersection Signal Delay:	27.6
Intersection LOS:	C
Intersection Capacity Utilization	80.4%
ICU Level of Service	D
Analysis Period (min)	15

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
AM Peak Hour

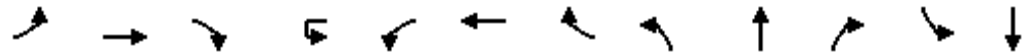


Lane Group	SBR
v/c Ratio	0.60
Control Delay	17.9
Queue Delay	0.0
Total Delay	17.9
LOS	B
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.0
Queue Length 95th (m)	20.9
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	498
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.33
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↖	↑↑	↗		↖	↑↑	↗	↖↖	↑↑	↗	↖↖	↑↑
Traffic Volume (vph)	136	736	270	1	32	978	195	292	956	23	86	327
Future Volume (vph)	136	736	270	1	32	978	195	292	956	23	86	327
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5				2.5
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950							0.950			0.950	
Satd. Flow (perm)	3005	3202	1452	0	1713	3232	1489	3086	3357	1487	3251	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			270				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	136	736	270	1	32	978	195	292	956	23	86	327
Shared Lane Traffic (%)												
Lane Group Flow (vph)	136	736	270	0	33	978	195	292	956	23	86	327
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.7	43.5	43.5		6.4	34.1	34.1	15.6	44.3	44.3	6.8	32.8
Actuated g/C Ratio	0.09	0.36	0.36		0.05	0.28	0.28	0.13	0.37	0.37	0.06	0.27

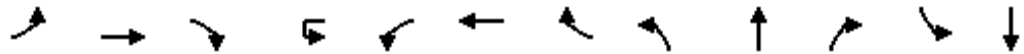
3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Total Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	151
Future Volume (vph)	151
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	151
Shared Lane Traffic (%)	
Lane Group Flow (vph)	151
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.8
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

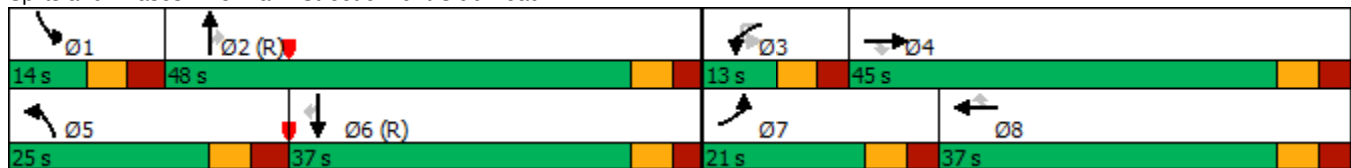


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.51	0.63	0.39		0.37	1.07	0.31	0.70	0.77	0.03	0.46	0.37
Control Delay	58.3	35.9	5.2		66.4	90.2	1.8	59.2	39.4	0.1	67.2	28.8
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	35.9	5.2		66.4	90.2	1.8	59.2	39.4	0.1	67.2	28.8
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		31.3				75.3			43.3			27.3
Approach LOS		C				E			D			C
Queue Length 50th (m)	16.0	80.3	0.0		7.7	~133.7	0.0	34.2	107.6	0.0	10.6	22.1
Queue Length 95th (m)	25.4	102.4	18.3		18.3	#185.1	1.8	47.9	134.0	0.0	18.8	30.1
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0		60.0		30.0	
Base Capacity (vph)	365	1160	698		92	918	622	476	1238	685	189	890
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	0.37	0.63	0.39		0.36	1.07	0.31	0.61	0.77	0.03	0.46	0.37

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.07  
 Intersection Signal Delay: 47.1      Intersection LOS: D  
 Intersection Capacity Utilization 87.2%      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: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

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Lane Group	SBR
v/c Ratio	0.27
Control Delay	1.2
Queue Delay	0.0
Total Delay	1.2
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	565
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.27
Intersection Summary	

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4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖	↗		↖	↗	↖	↗			↖	↗
Traffic Volume (vph)	122	0	33	73	0	148	90	958	51	3	17	411
Future Volume (vph)	122	0	33	73	0	148	90	958	51	3	17	411
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6					7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	0.99	1.00				1.00
Fr <sub>t</sub>			0.850			0.850		0.992				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3237	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.709			0.626		0.467				0.284	
Satd. Flow (perm)	0	1210	1440	0	1067	1426	837	3237	0	0	516	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		8				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	33	73	0	148	90	958	51	3	17	411
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	33	0	73	148	90	1009	0	0	20	411
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.3	71.3
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	120		
Future Volume (vph)	120		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	120		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	120		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	120		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.3		
Actuated g/C Ratio	0.59		



4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.69	0.11		0.47	0.44	0.14	0.44			0.07	0.22
Control Delay		67.9	0.8		55.4	10.9	6.0	6.2			13.7	12.8
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.8		55.4	10.9	6.0	6.2			13.7	12.8
LOS		E	A		E	B	A	A			B	B
Approach Delay		53.6			25.6			6.2				10.6
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		16.0	0.0	4.2	25.1			1.9	22.3
Queue Length 95th (m)		45.0	0.0		29.0	16.8	m8.7	43.1			6.7	37.4
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		274	477	653	2299			306	1884
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.27	0.31	0.14	0.44			0.07	0.22

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.69  
 Intersection Signal Delay: 13.1      Intersection LOS: B  
 Intersection Capacity Utilization 82.1%      ICU Level of Service E  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2026) Total Traffic  
 AM Peak Hour

Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.14		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	9.0		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	872		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.14		
Intersection Summary			

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Future Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3195
Fl <sub>t</sub> Permitted	0.752			0.702			0.545				0.605	
Satd. Flow (perm)	1289	1484	0	1064	1590	0	982	3383	0	0	1101	3195
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Shared Lane Traffic (%)												
Lane Group Flow (vph)	35	84	0	5	9	0	115	236	0	0	6	247
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.2	7.2		7.1	7.1		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.63	0.58

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2026) Total Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

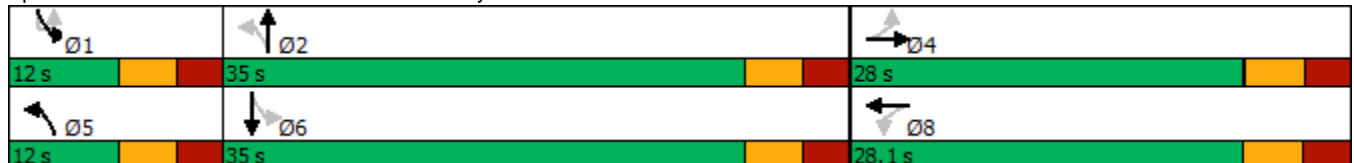


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.22	0.33		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	6.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	6.0
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			19.0			4.9				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.6	0.1		0.5	0.2		3.4	3.6			0.2	4.5
Queue Length 95th (m)	10.5	10.1		3.1	3.5		8.4	13.0			1.1	10.4
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	489	615		402	606		765	2386			771	1903
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.07	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type:	Other
Cycle Length:	75.1
Actuated Cycle Length:	58.5
Natural Cycle:	70
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.33
Intersection Signal Delay:	7.3
Intersection LOS:	A
Intersection Capacity Utilization:	38.2%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑↑	↑↑	
Traffic Vol, veh/h	0	7	0	351	242	3
Future Vol, veh/h	0	7	0	351	242	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	7	0	351	242	3

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	123	-	0	0
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-
Pot Cap-1 Maneuver	0	911	0	-	-
Stage 1	0	-	0	-	-
Stage 2	0	-	0	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	911	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	911	-	-
HCM Lane V/C Ratio	-	0.008	-	-
HCM Control Delay (s)	-	9	-	-
HCM Lane LOS	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2026) Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	27	19	351	237	5
Future Vol, veh/h	0	27	19	351	237	5
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	27	19	351	237	5

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	121	242	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	914	1336	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	914	1336	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	0.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1336	-	914	-	-
HCM Lane V/C Ratio	0.014	-	0.03	-	-
HCM Control Delay (s)	7.7	-	9.1	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	175	1333	33	79	1298	338	15	0	138	600	0	282
Future Volume (vph)	175	1333	33	79	1298	338	15	0	138	600	0	282
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.996			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3282	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3282	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			28				164			282
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	175	1333	33	79	1298	338	15	0	138	600	0	282
Shared Lane Traffic (%)												
Lane Group Flow (vph)	175	1366	0	79	1636	0	15	0	138	600	0	282
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	18.4	68.6		12.0	59.3		29.7		29.7	29.7		29.7
Actuated g/C Ratio	0.14	0.53		0.09	0.46		0.23		0.23	0.23		0.23

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2026) Total Traffic  
 PM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.72	0.79		0.56	1.09		0.04		0.30	0.79		0.50
Control Delay	69.6	31.5		54.7	79.7		36.5		4.6	55.0		7.4
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	69.6	31.5		54.7	79.7		36.5		4.6	55.0		7.4
LOS	E	C		D	E		D		A	D		A
Approach Delay		35.8			78.5			7.7				39.7
Approach LOS		D			E			A				D
Queue Length 50th (m)	43.4	151.2		20.1	~240.3		3.0		0.0	75.0		0.0
Queue Length 95th (m)	64.5	#235.0		m22.2	m#276.7		8.3		9.9	89.0		20.5
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	284	1733		242	1496		365		466	1052		670
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.62	0.79		0.33	1.09		0.04		0.30	0.57		0.42

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.09  
 Intersection Signal Delay: 52.7  
 Intersection LOS: D  
 Intersection Capacity Utilization 96.5%  
 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↖↗	↖↗↘			↖	↖↖	↖	↖↗	↖	↖	↖
Traffic Volume (vph)	33	278	1426	244	28	37	1298	92	141	108	75	108
Future Volume (vph)	33	278	1426	244	28	37	1298	92	141	108	75	108
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.978					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3325	4571	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.179				0.199			0.950			0.950
Satd. Flow (perm)	0	619	4571	0	0	360	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			29					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	278	1426	244	28	37	1298	92	141	108	75	108
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	311	1670	0	0	65	1298	92	141	108	75	108
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.4	50.1			20.1	47.8	47.8	9.8	23.3	23.3	10.2
Actuated g/C Ratio		0.17	0.39			0.15	0.37	0.37	0.08	0.18	0.18	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

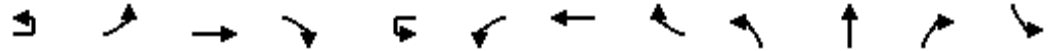
Future (2026) Total Traffic  
PM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	163	323
Future Volume (vph)	163	323
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1802	1532
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	163	323
Shared Lane Traffic (%)		
Lane Group Flow (vph)	163	323
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	23.8	23.8
Actuated g/C Ratio	0.18	0.18

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Total Traffic  
 PM Peak Hour

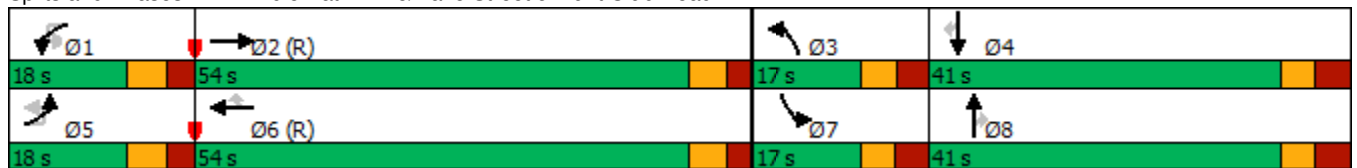


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.93	0.94			1.18	1.05	0.15	0.58	0.33	0.20	0.81
Control Delay		905.8	43.4			225.2	80.3	1.3	67.9	46.7	1.2	98.4
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		905.8	43.4			225.2	80.3	1.3	67.9	46.7	1.2	98.4
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			178.8				81.8			45.4		
Approach LOS			F				F			D		
Queue Length 50th (m)		~73.9	140.4			~19.3	~190.7	0.0	18.1	24.1	0.0	27.7
Queue Length 95th (m)		m#106.0	#185.0			#56.5	#233.0	2.5	29.1	37.5	0.0	#58.3
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1780			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.93	0.94			1.18	1.05	0.15	0.54	0.23	0.15	0.79

Intersection Summary

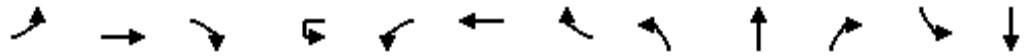
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.93  
 Intersection Signal Delay: 120.2      Intersection LOS: F  
 Intersection Capacity Utilization 100.8%      ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
 PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↑↑↘			↖	↑↑	↗	↖↗	↑	↗	↖	↑
Traffic Volume (vph)	311	1426	244	28	37	1298	92	141	108	75	108	163
Future Volume (vph)	311	1426	244	28	37	1298	92	141	108	75	108	163
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.98	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.978					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4571	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.179			0.950			0.950	
Satd. Flow (perm)	3271	4571	0	0	324	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		29					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	311	1426	244	28	37	1298	92	141	108	75	108	163
Shared Lane Traffic (%)												
Lane Group Flow (vph)	311	1670	0	0	65	1298	92	141	108	75	108	163
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	18.7	51.3			22.3	54.9	54.9	9.8	19.9	19.9	10.2	20.4
Actuated g/C Ratio	0.14	0.39			0.17	0.42	0.42	0.08	0.15	0.15	0.08	0.16

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

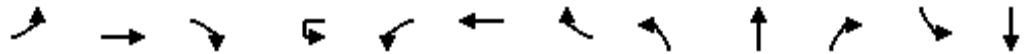
Future (2026) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	323
Future Volume (vph)	323
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Fr <sub>t</sub>	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	200
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	323
Shared Lane Traffic (%)	
Lane Group Flow (vph)	323
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	20.4
Actuated g/C Ratio	0.16



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
 PM Peak Hour

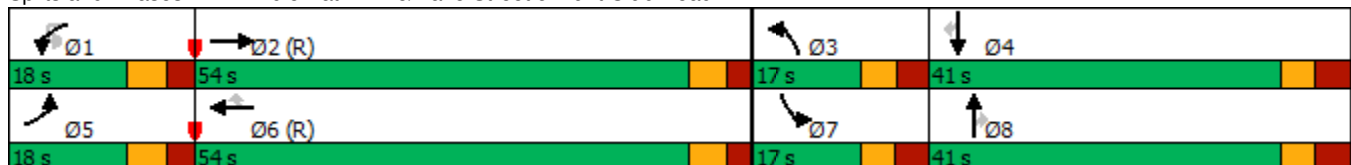


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.92			1.18	0.92	0.13	0.58	0.39	0.22	0.81	0.58
Control Delay	63.3	40.6			224.4	47.2	1.2	67.9	51.2	1.5	98.4	57.5
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	63.3	40.6			224.4	47.2	1.2	67.9	51.2	1.5	98.4	57.5
LOS	E	D			F	D	A	E	D	A	F	E
Approach Delay		44.2				52.2			47.0			53.3
Approach LOS		D				D			D			D
Queue Length 50th (m)	43.7	133.9			~18.0	164.2	0.0	18.1	25.4	0.0	27.7	39.7
Queue Length 95th (m)	m#65.7	#185.0			#56.1	#233.0	2.5	29.1	38.3	0.0	#58.3	55.5
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	478	1820			55	1417	686	260	476	486	136	471
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	0.65	0.92			1.18	0.92	0.13	0.54	0.23	0.15	0.79	0.35

Intersection Summary


Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 125  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 48.3      Intersection LOS: D  
 Intersection Capacity Utilization 97.2%      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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	SBR
v/c Ratio	0.82
Control Delay	36.0
Queue Delay	0.0
Total Delay	36.0
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	31.9
Queue Length 95th (m)	60.4
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.62
Intersection Summary	

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

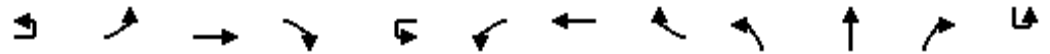
Future (2026) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR
v/c Ratio	0.50	0.86
Control Delay	51.1	50.3
Queue Delay	0.0	0.0
Total Delay	51.1	50.3
LOS	D	D
Approach Delay	59.3	
Approach LOS	E	
Queue Length 50th (m)	37.6	48.1
Queue Length 95th (m)	54.4	77.4
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.35	0.68
Intersection Summary		

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↖↗	↕	↗		↖	↕	↗	↖↗	↕	↗	
Traffic Volume (vph)	4	161	930	370	1	48	836	183	338	532	56	1
Future Volume (vph)	4	161	930	370	1	48	836	183	338	532	56	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3140	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1256	3325	1451	0	927	3390	1500	3221	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				279				183			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	161	930	370	1	48	836	183	338	532	56	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	165	930	370	0	49	836	183	338	532	56	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

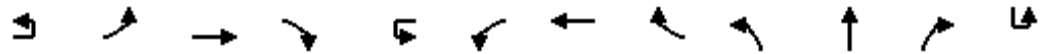
Future (2026) Total Traffic  
PM Peak Hour



Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	229	981	227
Future Volume (vph)	229	981	227
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1154	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	229	981	227
Shared Lane Traffic (%)			
Lane Group Flow (vph)	230	981	227
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour

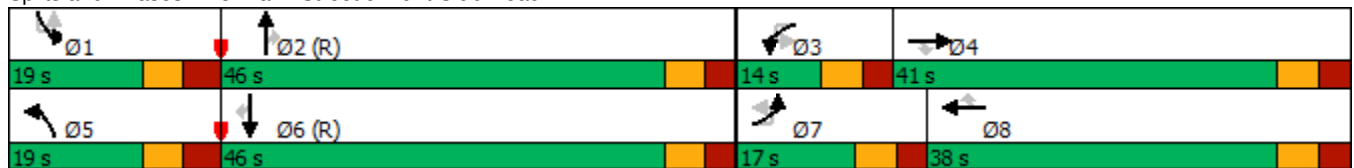


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.51	0.98	0.60		0.86	0.95	0.35	1.03	0.48	0.10	
Control Delay		309.8	67.3	14.0		140.0	63.5	6.9	109.7	33.8	0.3	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		309.8	67.3	14.0		140.0	63.5	6.9	109.7	33.8	0.3	
LOS		F	E	B		F	E	A	F	C	A	
Approach Delay			81.2				57.3			59.5		
Approach LOS			F				E			E		
Queue Length 50th (m)		~27.7	114.3	16.3		11.6	102.0	0.0	~43.7	52.2	0.0	
Queue Length 95th (m)		#50.0	#157.2	48.1		#35.3	#140.5	17.1	#73.0	68.6	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	613		57	884	526	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.51	0.98	0.60		0.86	0.95	0.35	1.03	0.48	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.02  
 Intersection Signal Delay: 80.7  
 Intersection LOS: F  
 Intersection Capacity Utilization 92.4%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2026) Total Traffic  
 PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.02	0.88	0.41
Control Delay	514.4	39.9	12.1
Queue Delay	0.0	0.0	0.0
Total Delay	514.4	39.9	12.1
LOS	F	D	B
Approach Delay		111.4	
Approach LOS		F	
Queue Length 50th (m)	~45.0	47.9	3.3
Queue Length 95th (m)	#70.6	#118.6	28.7
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.02	0.88	0.41
<b>Intersection Summary</b>			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↖	↗		↖	↗		↖	↕	↗		↖
Traffic Volume (vph)	160	1	132	82	0	101	2	158	654	92	4	146
Future Volume (vph)	160	1	132	82	0	101	2	158	654	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.98
Fr <sub>t</sub>			0.850			0.850			0.982			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3299	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.553			0.156				0.318
Satd. Flow (perm)	0	1110	1454	0	891	1394	0	284	3299	0	0	565
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			17			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	160	1	132	82	0	101	2	158	654	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	132	0	82	101	0	160	746	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1		6.3	6.3			6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.4	22.4		22.4	22.4		74.1	64.8			73.7
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.61



4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

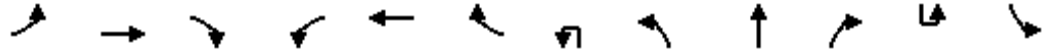
Future (2026) Total Traffic  
PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1174	324		
Future Volume (vph)	1174	324		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Fr <sub>t</sub>		0.850		
Fl <sub>t</sub> Protected				
Satd. Flow (prot)	3390	1547		
Fl <sub>t</sub> Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		314		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1174	324		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1174	324		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.6	64.6		
Actuated g/C Ratio	0.54	0.54		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour

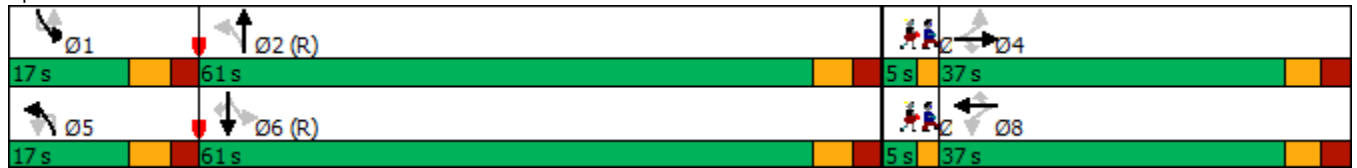


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.78	0.35		0.49	0.29		0.56	0.42			0.35
Control Delay		70.1	8.7		52.2	8.6		29.8	14.8			10.9
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		70.1	8.7		52.2	8.6		29.8	14.8			10.9
LOS		E	A		D	A		C	B			B
Approach Delay		42.5			28.2				17.4			
Approach LOS		D			C				B			
Queue Length 50th (m)		36.3	0.0		17.4	0.0		23.6	37.8			11.8
Queue Length 95th (m)		56.1	14.9		31.1	12.6		m39.9	m47.6			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		229	436		309	1790			457
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.56	0.28		0.36	0.23		0.52	0.42			0.33

Intersection Summary

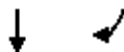
Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.78  
 Intersection Signal Delay: 20.9      Intersection LOS: C  
 Intersection Capacity Utilization 90.2%      ICU Level of Service E  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2026) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.64	0.35		
Control Delay	23.1	3.5		
Queue Delay	0.0	0.0		
Total Delay	23.1	3.5		
LOS	C	A		
Approach Delay	18.2			
Approach LOS	B			
Queue Length 50th (m)	99.7	1.1		
Queue Length 95th (m)	145.3	16.8		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1825	917		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.64	0.35		
Intersection Summary				

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Future Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.951
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3228
Fl <sub>t</sub> Permitted	0.746			0.393			0.443				0.616	
Satd. Flow (perm)	1346	1523	0	713	1585	0	804	3377	0	0	1113	3228
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				76
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	224	0	2	17	0	195	217	0	0	22	435
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2			1	6
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.6	11.6		11.6	11.6		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.52

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2026) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.44	0.55		0.02	0.07		0.30	0.10			0.03	0.25
Control Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.2
LOS	D	B		C	B		A	A			A	A
Approach Delay		19.1			21.0			5.8				9.0
Approach LOS		B			C			A				A
Queue Length 50th (m)	11.2	0.4		0.2	0.5		7.4	3.8			0.8	13.5
Queue Length 95th (m)	27.4	19.2		2.3	6.1		16.9	13.3			3.0	26.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	505	710		267	603		904	2207			800	1730
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.17	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	80.6
Natural Cycle:	75
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.55
Intersection Signal Delay:	10.7
Intersection LOS:	B
Intersection Capacity Utilization:	64.1%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 5: Dazé Street & South Keys SC



5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	4	0	412	510	6
Future Volume (vph)	0	4	0	412	510	6
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95
Fr <sub>t</sub>		0.865			0.998	
Flt Protected						
Satd. Flow (prot)	0	1574	0	3458	3451	0
Flt Permitted						
Satd. Flow (perm)	0	1574	0	3458	3451	0
Link Speed (k/h)	30			50	50	
Link Distance (m)	51.7			37.5	57.4	
Travel Time (s)	6.2			2.7	4.1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	0	4	0	412	510	6
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	4	0	412	516	0
Sign Control	Stop			Free	Free	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	25.1%
ICU Level of Service	A
Analysis Period (min)	15



7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2026) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	23	35	412	502	8
Future Volume (vph)	0	23	35	412	502	8
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0	0.0	15.0			0.0
Storage Lanes	0	1	1			0
Taper Length (m)	2.5		7.6			
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95
Frt		0.865			0.998	
Flt Protected			0.950			
Satd. Flow (prot)	0	1574	1729	3458	3451	0
Flt Permitted			0.950			
Satd. Flow (perm)	0	1574	1729	3458	3451	0
Link Speed (k/h)	48			50	50	
Link Distance (m)	55.1			209.8	37.5	
Travel Time (s)	4.1			15.1	2.7	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	0	23	35	412	502	8
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	23	35	412	510	0
Sign Control	Stop			Free	Free	

Intersection Summary	
Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	24.9% ICU Level of Service A
Analysis Period (min)	15

Future (2031) Total Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	356	1116	25	68	988	626	16	0	85	262	0	152
Future Volume (vph)	356	1116	25	68	988	626	16	0	85	262	0	152
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			116				164			152
Link Speed (k/h)		60			60			80				80
Link Distance (m)		431.4			316.9			354.1				189.5
Travel Time (s)		25.9			19.0			15.9				8.5
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	356	1116	25	68	988	626	16	0	85	262	0	152
Shared Lane Traffic (%)												
Lane Group Flow (vph)	356	1141	0	68	1614	0	16	0	85	262	0	152
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	38.6	83.3		11.1	53.0		15.9		15.9	15.9		15.9
Actuated g/C Ratio	0.30	0.64		0.09	0.41		0.12		0.12	0.12		0.12

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2031) Total Traffic  
 AM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour

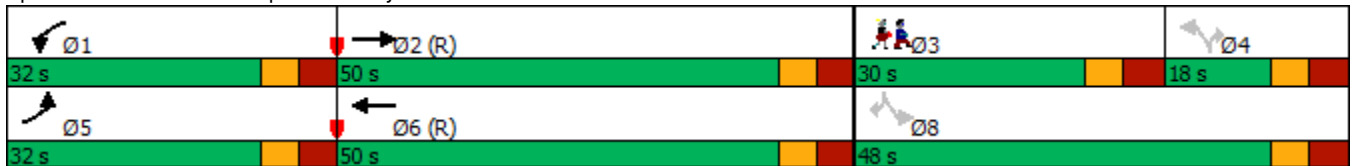


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.70	0.55		0.52	1.24		0.08		0.27	0.66		0.48
Control Delay	49.4	15.9		47.3	144.7		49.6		2.1	62.3		12.8
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	49.4	15.9		47.3	144.7		49.6		2.1	62.3		12.8
LOS	D	B		D	F		D		A	E		B
Approach Delay		23.9			140.8			9.7				44.1
Approach LOS		C			F			A				D
Queue Length 50th (m)	82.5	84.7		16.8	~250.1		3.7		0.0	33.5		0.0
Queue Length 95th (m)	115.4	124.5		m21.1	m#278.4		10.4		0.0	45.9		18.8
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	508	2085		292	1299		197		312	1007		565
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.70	0.55		0.23	1.24		0.08		0.27	0.26		0.27

Intersection Summary

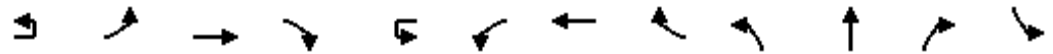
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 150  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.24  
 Intersection Signal Delay: 79.0 Intersection LOS: E  
 Intersection Capacity Utilization 98.2% 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔				↔	↔↔	↔	↔↔	↔	↔
Traffic Volume (vph)	19	167	1110	98	2	16	1218	77	200	108	67	40
Future Volume (vph)	19	167	1110	98	2	16	1218	77	200	108	67	40
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4563	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.134				0.800			0.950			0.950
Satd. Flow (perm)	0	462	4563	0	0	1200	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			12					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	167	1110	98	2	16	1218	77	200	108	67	40
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	186	1208	0	0	18	1218	77	200	108	67	40
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.9	78.0			9.1	49.2	49.2	13.2	18.5	18.5	8.5
Actuated g/C Ratio		0.23	0.60			0.07	0.38	0.38	0.10	0.14	0.14	0.07

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

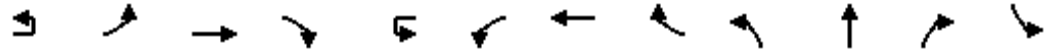
Future (2031) Total Traffic  
AM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	31	162
Future Volume (vph)	31	162
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1820	1517
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	31	162
Shared Lane Traffic (%)		
Lane Group Flow (vph)	31	162
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	11.5	11.5
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour

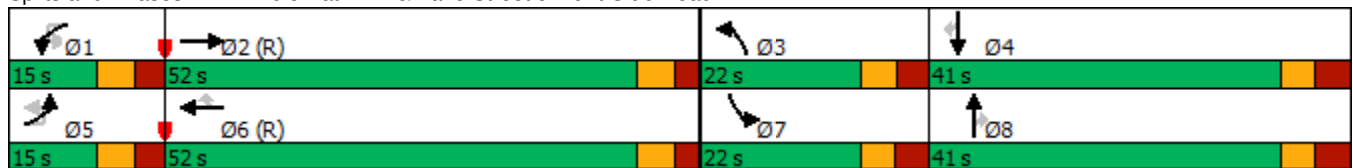


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.75	0.44			0.21	1.00	0.12	0.63	0.42	0.21	0.36
Control Delay		408.7	12.0			61.3	65.1	0.4	65.2	57.2	1.5	66.5
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		408.7	12.0			61.3	65.1	0.4	65.2	57.2	1.5	66.5
LOS		F	B			E	E	A	E	E	A	E
Approach Delay			64.9				61.3			51.5		
Approach LOS			E				E			D		
Queue Length 50th (m)		~37.0	35.3			4.5	154.6	0.0	25.6	26.4	0.0	10.0
Queue Length 95th (m)		#62.5	56.0			12.1	#223.7	0.0	37.7	43.4	0.0	21.5
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2742			93	1222	641	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.75	0.44			0.19	1.00	0.12	0.54	0.23	0.14	0.20

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.75  
 Intersection Signal Delay: 59.9      Intersection LOS: E  
 Intersection Capacity Utilization 92.2%      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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road





2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

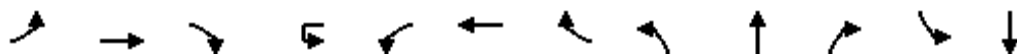
Future (2031) Total Traffic  
 AM Peak Hour



Lane Group	SBT	SBR
v/c Ratio	0.19	0.64
Control Delay	56.7	25.3
Queue Delay	0.0	0.0
Total Delay	56.7	25.3
LOS	E	C
Approach Delay	36.5	
Approach LOS	D	
Queue Length 50th (m)	7.6	6.1
Queue Length 95th (m)	16.8	27.5
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.07	0.34
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↖	↑↑↗			↖	↑↑	↖	↖↖	↑	↖	↖	↑
Traffic Volume (vph)	186	1110	98	2	16	1218	77	200	108	67	40	31
Future Volume (vph)	186	1110	98	2	16	1218	77	200	108	67	40	31
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Fr <sub>t</sub>		0.988					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4563	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Fl <sub>t</sub> Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3265	4563	0	0	1200	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		12					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	186	1110	98	2	16	1218	77	200	108	67	40	31
Shared Lane Traffic (%)												
Lane Group Flow (vph)	186	1208	0	0	18	1218	77	200	108	67	40	31
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	13.3	78.6			9.1	66.4	66.4	13.2	17.9	17.9	8.5	10.9
Actuated g/C Ratio	0.10	0.60			0.07	0.51	0.51	0.10	0.14	0.14	0.07	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	162
Future Volume (vph)	162
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Fr <sub>t</sub>	0.850
Flt Protected	
Satd. Flow (prot)	1517
Flt Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	162
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	162
Shared Lane Traffic (%)	
Lane Group Flow (vph)	162
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	10.9
Actuated g/C Ratio	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
 AM Peak Hour

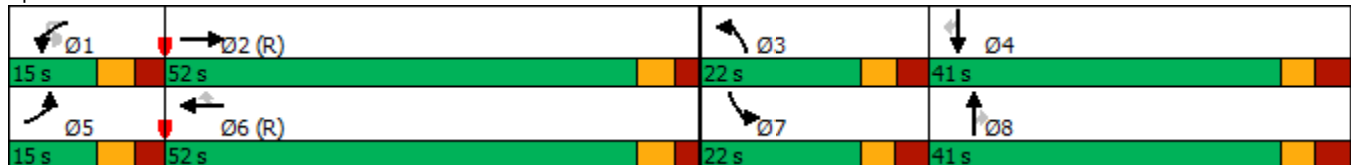
Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.44			0.21	0.74	0.09	0.63	0.44	0.21	0.36	0.20
Control Delay	73.3	11.5			61.3	29.5	0.2	65.2	58.6	1.5	66.5	58.1
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.3	11.5			61.3	29.5	0.2	65.2	58.6	1.5	66.5	58.1
LOS	E	B			E	C	A	E	E	A	E	E
Approach Delay		19.8				28.2			51.9			31.6
Approach LOS		B				C			D			C
Queue Length 50th (m)	26.1	35.3			4.5	124.7	0.0	25.6	26.4	0.0	10.0	7.6
Queue Length 95th (m)	38.5	47.6			12.1	174.8	0.0	37.7	44.1	0.0	21.5	17.1
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	336	2764			93	1649	816	370	471	477	198	476
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	0.55	0.44			0.19	0.74	0.09	0.54	0.23	0.14	0.20	0.07

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 125  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.74  
 Intersection Signal Delay: 27.6  
 Intersection Capacity Utilization 81.2%  
 Analysis Period (min) 15

Intersection LOS: C  
 ICU Level of Service D

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
AM Peak Hour

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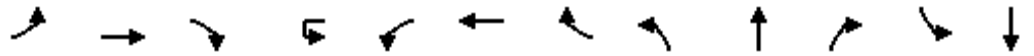
Lane Group	SBR
v/c Ratio	0.60
Control Delay	17.9
Queue Delay	0.0
Total Delay	17.9
LOS	B
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.0
Queue Length 95th (m)	20.6
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	497
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.33
Intersection Summary	

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3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic

AM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↗↘	↑↑	↗		↘	↑↑	↗	↗↘	↑↑	↗	↗↘	↑↑
Traffic Volume (vph)	139	754	277	1	33	1001	200	299	980	23	88	335
Future Volume (vph)	139	754	277	1	33	1001	200	299	980	23	88	335
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5			2.5	
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950							0.950			0.950	
Satd. Flow (perm)	3005	3202	1452	0	1713	3232	1489	3087	3357	1487	3252	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			277				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	139	754	277	1	33	1001	200	299	980	23	88	335
Shared Lane Traffic (%)												
Lane Group Flow (vph)	139	754	277	0	34	1001	200	299	980	23	88	335
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	10.8	43.5	43.5		6.4	34.0	34.0	15.8	41.6	41.6	6.8	32.6
Actuated g/C Ratio	0.09	0.36	0.36		0.05	0.28	0.28	0.13	0.35	0.35	0.06	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

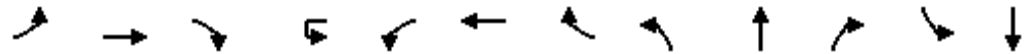
Future (2031) Total Traffic  
AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	155
Future Volume (vph)	155
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	155
Shared Lane Traffic (%)	
Lane Group Flow (vph)	155
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.6
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic

AM Peak Hour

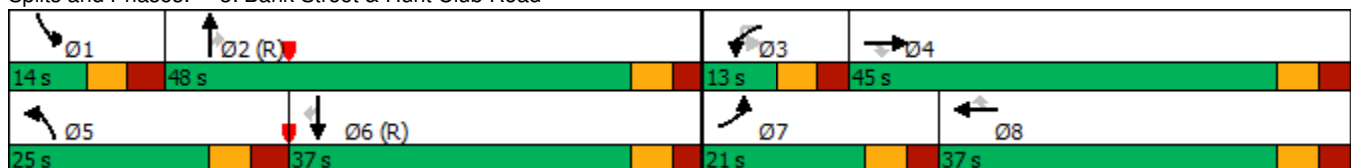


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.51	0.65	0.39		0.37	1.10	0.32	0.71	0.84	0.04	0.48	0.38
Control Delay	58.2	36.3	5.3		66.9	100.0	2.0	59.7	44.1	0.1	67.5	29.0
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.2	36.3	5.3		66.9	100.0	2.0	59.7	44.1	0.1	67.5	29.0
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		31.6				83.2			46.9			27.4
Approach LOS		C				F			D			C
Queue Length 50th (m)	16.3	83.0	0.0		7.9	~140.0	0.0	35.0	111.5	0.0	10.9	22.7
Queue Length 95th (m)	25.9	105.4	18.5		18.6	#191.7	2.7	49.1	138.4	0.0	19.3	30.8
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1160	703		92	914	621	476	1164	656	189	887
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	0.38	0.65	0.39		0.37	1.10	0.32	0.63	0.84	0.04	0.47	0.38

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.10  
 Intersection Signal Delay: 50.6  
 Intersection LOS: D  
 Intersection Capacity Utilization 88.5%  
 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: 3: Bank Street & Hunt Club Road





3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour

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Lane Group	SBR
v/c Ratio	0.28
Control Delay	1.2
Queue Delay	0.0
Total Delay	1.2
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.0
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	563
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.28
Intersection Summary	

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖ ↗	↖ ↗		↖ ↗	↖ ↗	↖ ↗	↕ ↔			↖ ↗	↕ ↔
Traffic Volume (vph)	122	0	33	73	0	148	90	981	51	3	17	421
Future Volume (vph)	122	0	33	73	0	148	90	981	51	3	17	421
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6				7.6	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	0.99	1.00				1.00
Fr <sub>t</sub>			0.850			0.850		0.993				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3241	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.709			0.626		0.461				0.278	
Satd. Flow (perm)	0	1210	1440	0	1067	1426	827	3241	0	0	505	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		8				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3			3
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	122	0	33	73	0	148	90	981	51	3	17	421
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	122	33	0	73	148	90	1032	0	0	20	421
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.5	17.5		17.5	17.5	85.1	85.1			71.3	71.3
Actuated g/C Ratio		0.15	0.15		0.15	0.15	0.71	0.71			0.59	0.59

4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2031) Total Traffic  
 AM Peak Hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	120		
Future Volume (vph)	120		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	120		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	120		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	120		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.3		
Actuated g/C Ratio	0.59		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.69	0.11		0.47	0.44	0.14	0.45			0.07	0.22
Control Delay		67.9	0.8		55.4	10.9	6.2	6.3			13.7	12.8
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.9	0.8		55.4	10.9	6.2	6.3			13.7	12.8
LOS		E	A		E	B	A	A			B	B
Approach Delay		53.6			25.6			6.3				10.7
Approach LOS		D			C			A				B
Queue Length 50th (m)		27.7	0.0		16.0	0.0	4.2	25.6			1.9	22.9
Queue Length 95th (m)		45.0	0.0		29.0	16.8	m8.2	44.2			6.7	38.3
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		274	477	647	2301			299	1884
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.39	0.07		0.27	0.31	0.14	0.45			0.07	0.22

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.69  
 Intersection Signal Delay: 13.2  
 Intersection LOS: B  
 Intersection Capacity Utilization 82.7%  
 ICU Level of Service E  
 Analysis Period (min) 15

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

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2031) Total Traffic  
 AM Peak Hour

Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.14		
Control Delay	2.9		
Queue Delay	0.0		
Total Delay	2.9		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	9.0		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	872		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.14		
Intersection Summary			

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Future Volume (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.945
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3195
Fl <sub>t</sub> Permitted	0.752			0.702			0.545				0.605	
Satd. Flow (perm)	1289	1484	0	1064	1590	0	982	3383	0	0	1101	3195
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	35	1	83	5	2	7	115	233	3	2	4	157
Shared Lane Traffic (%)												
Lane Group Flow (vph)	35	84	0	5	9	0	115	236	0	0	6	247
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.2	7.2		7.1	7.1		41.0	41.3			37.1	34.2
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.63	0.58

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2031) Total Traffic  
 AM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2031) Total Traffic  
 AM Peak Hour

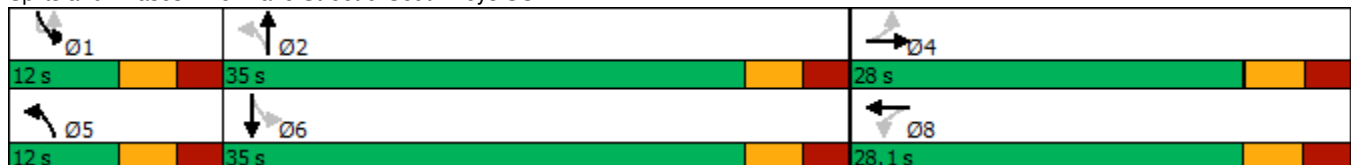


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.22	0.33		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	6.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	27.4	10.7		23.8	16.3		4.2	5.3			3.8	6.0
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.6			19.0			4.9				5.9
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.6	0.1		0.5	0.2		3.4	3.6			0.2	4.5
Queue Length 95th (m)	10.5	10.1		3.1	3.5		8.4	13.0			1.1	10.4
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	489	615		402	606		765	2386			771	1903
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.07	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type: Other  
 Cycle Length: 75.1  
 Actuated Cycle Length: 58.5  
 Natural Cycle: 70  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 0.33  
 Intersection Signal Delay: 7.3  
 Intersection LOS: A  
 Intersection Capacity Utilization 38.2%  
 ICU Level of Service A  
 Analysis Period (min) 15

Splits and Phases: 5: Dazé Street & South Keys SC







Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑↑	↑↑	
Traffic Vol, veh/h	0	7	0	351	242	3
Future Vol, veh/h	0	7	0	351	242	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	7	0	351	242	3

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	123	-	0	0
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-
Pot Cap-1 Maneuver	0	911	0	-	-
Stage 1	0	-	0	-	-
Stage 2	0	-	0	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	911	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	911	-	-
HCM Lane V/C Ratio	-	0.008	-	-
HCM Control Delay (s)	-	9	-	-
HCM Lane LOS	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2031) Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	26	18	351	237	5
Future Vol, veh/h	0	26	18	351	237	5
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	26	18	351	237	5

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	121	242	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	914	1336	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	914	1336	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	0.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1336	-	914	-	-
HCM Lane V/C Ratio	0.013	-	0.028	-	-
HCM Control Delay (s)	7.7	-	9.1	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	1365	33	81	1329	346	16	0	141	613	0	288
Future Volume (vph)	179	1365	33	81	1329	346	16	0	141	613	0	288
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.996			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3282	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3282	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			28				164			288
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	179	1365	33	81	1329	346	16	0	141	613	0	288
Shared Lane Traffic (%)												
Lane Group Flow (vph)	179	1398	0	81	1675	0	16	0	141	613	0	288
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	18.6	68.0		12.2	58.7		30.2		30.2	30.2		30.2
Actuated g/C Ratio	0.14	0.52		0.09	0.45		0.23		0.23	0.23		0.23

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2031) Total Traffic  
 PM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.73	0.81		0.57	1.13		0.04		0.30	0.79		0.50
Control Delay	70.2	33.1		54.1	95.5		36.2		4.9	54.7		7.3
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	70.2	33.1		54.1	95.5		36.2		4.9	54.7		7.3
LOS	E	C		D	F		D		A	D		A
Approach Delay		37.3			93.6			8.1				39.6
Approach LOS		D			F			A				D
Queue Length 50th (m)	44.4	159.4		20.6	~254.2		3.2		0.0	76.7		0.0
Queue Length 95th (m)	66.1	#247.3		m22.5	m#279.9		8.7		10.7	90.5		20.8
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	284	1717		242	1480		371		471	1052		674
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.63	0.81		0.33	1.13		0.04		0.30	0.58		0.43

Intersection Summary

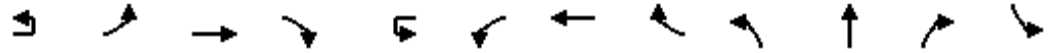
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.13  
 Intersection Signal Delay: 59.2      Intersection LOS: E  
 Intersection Capacity Utilization 98.3%      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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↗↘	↗↘↔			↗	↗↗	↗	↗↘	↗	↗	↗
Traffic Volume (vph)	33	277	1461	244	28	37	1329	91	141	108	75	107
Future Volume (vph)	33	277	1461	244	28	37	1329	91	141	108	75	107
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.979					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3325	4577	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.178				0.199			0.950			0.950
Satd. Flow (perm)	0	616	4577	0	0	360	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			28					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	277	1461	244	28	37	1329	91	141	108	75	107
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	310	1705	0	0	65	1329	91	141	108	75	107
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.5	50.2			20.1	47.8	47.8	9.8	23.3	23.3	10.2
Actuated g/C Ratio		0.17	0.39			0.15	0.37	0.37	0.08	0.18	0.18	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

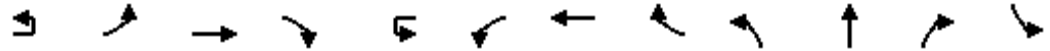


Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	162	322
Future Volume (vph)	162	322
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1802	1532
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	162	322
Shared Lane Traffic (%)		
Lane Group Flow (vph)	162	322
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	23.7	23.7
Actuated g/C Ratio	0.18	0.18



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

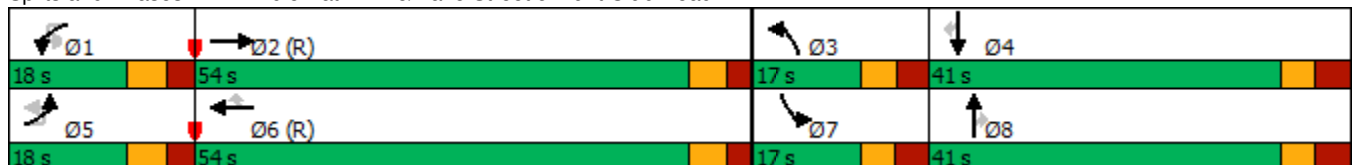


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.92	0.96			1.18	1.08	0.15	0.58	0.33	0.20	0.80
Control Delay		901.0	45.4			225.2	88.4	1.2	67.9	46.8	1.2	97.8
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		901.0	45.4			225.2	88.4	1.2	67.9	46.8	1.2	97.8
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			177.1				89.1			45.4		
Approach LOS			F				F			D		
Queue Length 50th (m)		~73.6	~141.2			~19.2	~199.3	0.0	18.1	24.1	0.0	27.4
Queue Length 95th (m)		m#103.1	#191.3			#56.5	#241.9	2.3	29.1	37.5	0.0	#57.8
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1783			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.92	0.96			1.18	1.08	0.15	0.54	0.23	0.15	0.79

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.92  
 Intersection Signal Delay: 122.0      Intersection LOS: F  
 Intersection Capacity Utilization 101.7%      ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

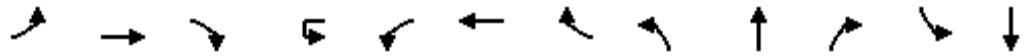
Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR
v/c Ratio	0.49	0.86
Control Delay	51.1	50.2
Queue Delay	0.0	0.0
Total Delay	51.1	50.2
LOS	D	D
Approach Delay	59.1	
Approach LOS	E	
Queue Length 50th (m)	37.4	47.8
Queue Length 95th (m)	53.9	76.6
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.34	0.68
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↖↗	↕↗			↖	↕↗	↖	↖↗	↕	↖	↖	↕
Traffic Volume (vph)	310	1461	244	28	37	1329	91	141	108	75	107	162
Future Volume (vph)	310	1461	244	28	37	1329	91	141	108	75	107	162
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.979					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4577	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.179			0.950			0.950	
Satd. Flow (perm)	3273	4577	0	0	324	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		28					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	310	1461	244	28	37	1329	91	141	108	75	107	162
Shared Lane Traffic (%)												
Lane Group Flow (vph)	310	1705	0	0	65	1329	91	141	108	75	107	162
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	18.7	51.4			22.4	55.0	55.0	9.8	19.8	19.8	10.2	20.3
Actuated g/C Ratio	0.14	0.40			0.17	0.42	0.42	0.08	0.15	0.15	0.08	0.16

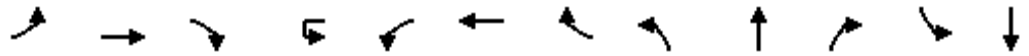
2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	322
Future Volume (vph)	322
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Fr <sub>t</sub>	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	200
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	322
Shared Lane Traffic (%)	
Lane Group Flow (vph)	322
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	20.3
Actuated g/C Ratio	0.16

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.93			1.18	0.94	0.13	0.58	0.39	0.22	0.80	0.58
Control Delay	62.7	42.0			222.8	49.5	1.1	67.9	51.4	1.5	97.8	57.6
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	62.7	42.0			222.8	49.5	1.1	67.9	51.4	1.5	97.8	57.6
LOS	E	D			F	D	A	E	D	A	F	E
Approach Delay		45.2				54.1			47.0			53.1
Approach LOS		D				D			D			D
Queue Length 50th (m)	43.5	133.1			~18.0	170.4	0.0	18.1	25.4	0.0	27.4	39.4
Queue Length 95th (m)	m#62.4	#191.3			#56.0	#241.9	2.3	29.1	38.3	0.0	#57.8	55.1
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	477	1825			55	1421	688	260	476	486	136	471
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	0.65	0.93			1.18	0.94	0.13	0.54	0.23	0.15	0.79	0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 49.4      Intersection LOS: D  
 Intersection Capacity Utilization 98.1%      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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2031) Total Traffic  
PM Peak Hour

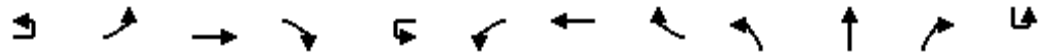
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Lane Group	SBR
v/c Ratio	0.82
Control Delay	36.0
Queue Delay	0.0
Total Delay	36.0
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	31.6
Queue Length 95th (m)	59.8
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.62
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↗↘	↕	↖		↖	↕	↗	↗↘	↕	↖	
Traffic Volume (vph)	4	164	952	379	1	49	856	188	346	545	58	1
Future Volume (vph)	4	164	952	379	1	49	856	188	346	545	58	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3140	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1256	3325	1451	0	927	3390	1500	3224	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				277				188			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	164	952	379	1	49	856	188	346	545	58	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	168	952	379	0	50	856	188	346	545	58	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

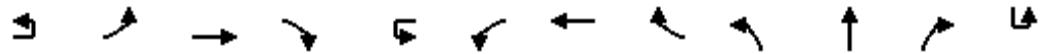


Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	234	1005	232
Future Volume (vph)	234	1005	232
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1154	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	234	1005	232
Shared Lane Traffic (%)			
Lane Group Flow (vph)	235	1005	232
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

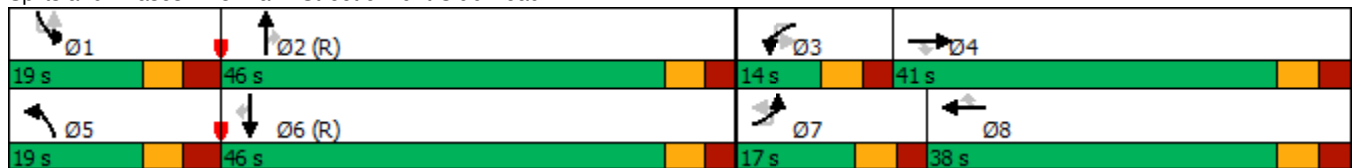


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.54	1.00	0.62		0.88	0.97	0.35	1.05	0.49	0.10	
Control Delay		320.7	72.7	15.0		144.1	67.7	6.9	115.6	34.0	0.3	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		320.7	72.7	15.0		144.1	67.7	6.9	115.6	34.0	0.3	
LOS		F	E	B		F	E	A	F	C	A	
Approach Delay			85.9				60.7			61.7		
Approach LOS			F				E			E		
Queue Length 50th (m)		~28.5	~118.5	18.5		11.9	105.2	0.0	~45.8	53.7	0.0	
Queue Length 95th (m)		#51.0	#162.9	51.6		#36.3	#145.9	17.3	#75.3	70.3	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	612		57	884	530	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.54	1.00	0.62		0.88	0.97	0.35	1.05	0.49	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.06  
 Intersection Signal Delay: 84.6  
 Intersection LOS: F  
 Intersection Capacity Utilization 94.0%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.06	0.90	0.42
Control Delay	532.6	42.0	12.9
Queue Delay	0.0	0.0	0.0
Total Delay	532.6	42.0	12.9
LOS	F	D	B
Approach Delay		115.8	
Approach LOS		F	
Queue Length 50th (m)	~46.3	49.1	3.6
Queue Length 95th (m)	#72.7	#151.2	29.9
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.06	0.90	0.42
Intersection Summary			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↕	↗		↕	↗		↖	↕↗			↖
Traffic Volume (vph)	160	1	132	82	0	101	2	158	670	92	4	146
Future Volume (vph)	160	1	132	82	0	101	2	158	670	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.99
Fr <sub>t</sub>			0.850			0.850			0.982			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3299	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.553			0.147				0.311
Satd. Flow (perm)	0	1110	1454	0	891	1394	0	268	3299	0	0	552
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			16			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	160	1	132	82	0	101	2	158	670	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	161	132	0	82	101	0	160	762	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1		6.3	6.3			6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.4	22.4		22.4	22.4		74.3	64.8			73.6
Actuated g/C Ratio		0.19	0.19		0.19	0.19		0.62	0.54			0.61

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

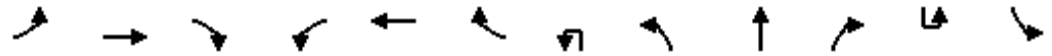
Future (2031) Total Traffic  
PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1202	324		
Future Volume (vph)	1202	324		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Frt		0.850		
Flt Protected				
Satd. Flow (prot)	3390	1547		
Flt Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		307		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1202	324		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1202	324		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.5	64.5		
Actuated g/C Ratio	0.54	0.54		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.78	0.35		0.49	0.29		0.57	0.43			0.35
Control Delay		70.1	8.7		52.2	8.6		31.2	15.0			11.0
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		70.1	8.7		52.2	8.6		31.2	15.0			11.0
LOS		E	A		D	A		C	B			B
Approach Delay		42.5			28.2				17.8			
Approach LOS		D			C				B			
Queue Length 50th (m)		36.3	0.0		17.4	0.0		24.5	38.5			11.8
Queue Length 95th (m)		56.1	14.9		31.1	12.6		m40.6	m49.8			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		229	436		302	1789			449
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.56	0.28		0.36	0.23		0.53	0.43			0.33

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.78  
 Intersection Signal Delay: 21.3  
 Intersection LOS: C  
 Intersection Capacity Utilization 91.0%  
 ICU Level of Service F  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.66	0.36		
Control Delay	23.7	3.7		
Queue Delay	0.0	0.0		
Total Delay	23.7	3.7		
LOS	C	A		
Approach Delay	18.7			
Approach LOS	B			
Queue Length 50th (m)	103.5	1.8		
Queue Length 95th (m)	150.3	17.9		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1821	912		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.66	0.36		
Intersection Summary				

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Future Volume (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.951
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3228
Fl <sub>t</sub> Permitted	0.746			0.393			0.443				0.616	
Satd. Flow (perm)	1346	1523	0	713	1585	0	804	3377	0	0	1113	3228
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				76
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	85	3	221	2	4	13	195	199	18	1	21	293
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	224	0	2	17	0	195	217	0	0	22	435
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.6	11.6		11.6	11.6		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.52

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2031) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	



5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2031) Total Traffic  
 PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.44	0.55		0.02	0.07		0.30	0.10			0.03	0.25
Control Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.8	10.9		32.5	19.6		5.3	6.3			4.5	9.2
LOS	D	B		C	B		A	A			A	A
Approach Delay		19.1			21.0			5.8				9.0
Approach LOS		B			C			A				A
Queue Length 50th (m)	11.2	0.4		0.2	0.5		7.4	3.8			0.8	13.5
Queue Length 95th (m)	27.4	19.2		2.3	6.1		16.9	13.3			3.0	26.2
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	505	710		267	603		904	2207			800	1730
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.17	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type: Other  
 Cycle Length: 110  
 Actuated Cycle Length: 80.6  
 Natural Cycle: 75  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 0.55  
 Intersection Signal Delay: 10.7  
 Intersection LOS: B  
 Intersection Capacity Utilization 64.1%  
 ICU Level of Service C  
 Analysis Period (min) 15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑↑	↑↑	
Traffic Vol, veh/h	0	4	0	412	510	6
Future Vol, veh/h	0	4	0	412	510	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	4	0	412	510	6

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	258	-	0	0
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-
Pot Cap-1 Maneuver	0	747	0	-	-
Stage 1	0	-	0	-	-
Stage 2	0	-	0	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	747	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.8	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	747	-	-
HCM Lane V/C Ratio	-	0.005	-	-
HCM Control Delay (s)	-	9.8	-	-
HCM Lane LOS	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2031) Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	22	34	412	502	8
Future Vol, veh/h	0	22	34	412	502	8
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	22	34	412	502	8

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	255	510	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	750	1065	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	750	1065	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.9	0.6	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1065	-	750	-	-
HCM Lane V/C Ratio	0.032	-	0.029	-	-
HCM Control Delay (s)	8.5	-	9.9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Future (2041) Total Traffic

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic

AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	373	1169	26	73	1038	663	16	0	90	276	0	159
Future Volume (vph)	373	1169	26	73	1038	663	16	0	90	276	0	159
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	0.99							
Fr <sub>t</sub>		0.997			0.942				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3255	0	1544	3018	0	1616	0	1381	3257	0	1488
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1711	3255	0	1543	3018	0	1616	0	1381	3257	0	1488
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			118				164			159
Link Speed (k/h)		60			60			80				80
Link Distance (m)		431.4			316.9			354.1				189.5
Travel Time (s)		25.9			19.0			15.9				8.5
Confl. Peds. (#/hr)	7		2	2		7						
Confl. Bikes (#/hr)						1						
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	6%	0%	12%	11%	1%	7%	0%	12%	3%	0%	4%
Adj. Flow (vph)	373	1169	26	73	1038	663	16	0	90	276	0	159
Shared Lane Traffic (%)												
Lane Group Flow (vph)	373	1195	0	73	1701	0	16	0	90	276	0	159
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	12.4	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	32.0	50.0		32.0	50.0		18.0		18.0	48.0		48.0
Total Split (%)	24.6%	38.5%		24.6%	38.5%		13.8%		13.8%	36.9%		36.9%
Maximum Green (s)	24.6	42.7		24.6	42.7		10.2		10.2	40.2		40.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	41.6	82.4		11.5	49.5		16.4		16.4	16.4		16.4
Actuated g/C Ratio	0.32	0.63		0.09	0.38		0.13		0.13	0.13		0.13

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr t	
Fl t Protected	
Satd. Flow (prot)	
Fl t Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.68	0.58		0.54	1.39		0.08		0.28	0.67		0.49
Control Delay	46.6	17.1		47.3	209.3		49.1		2.2	62.2		12.5
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	46.6	17.1		47.3	209.3		49.1		2.2	62.2		12.5
LOS	D	B		D	F		D		A	E		B
Approach Delay		24.1			202.6			9.3				44.1
Approach LOS		C			F			A				D
Queue Length 50th (m)	85.5	93.0		18.3	~282.4		3.7		0.0	35.3		0.0
Queue Length 95th (m)	118.8	136.5		m22.1 m#293.0			10.3		0.0	47.9		18.9
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	547	2063		292	1223		203		317	1007		569
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.68	0.58		0.25	1.39		0.08		0.28	0.27		0.28

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 150  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.39  
 Intersection Signal Delay: 107.5      Intersection LOS: F  
 Intersection Capacity Utilization 101.9%      ICU Level of Service G  
 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: 1: Airport Parkway & Hunt Club Road

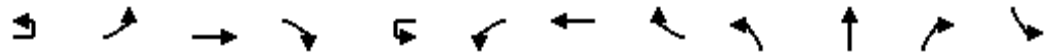




2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic

AM Peak hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↗↘	↕↗↘				↕	↕↕	↗	↗↘	↕	↗↘
Traffic Volume (vph)	19	170	1163	98	2	16	1274	74	200	109	67	55
Future Volume (vph)	19	170	1163	98	2	16	1274	74	200	109	67	55
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			0.99		0.96	0.94		0.99	1.00
Fr <sub>t</sub>			0.988					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3295	4564	0	0	1436	3232	1517	3106	1802	1459	1679
Fl <sub>t</sub> Permitted		0.135				0.800			0.950			0.950
Satd. Flow (perm)	0	466	4564	0	0	1201	3232	1462	2924	1802	1439	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			12					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		15		18		18		15	32		2	2
Confl. Bikes (#/hr)				1				2				
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%
Adj. Flow (vph)	19	170	1163	98	2	16	1274	74	200	109	67	55
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	189	1261	0	0	18	1274	74	200	109	67	55
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	15.0	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0
Total Split (%)	11.5%	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%
Maximum Green (s)	8.5	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Min		None	None	C-Min	C-Min	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		29.7	77.3			9.1	48.6	48.6	13.2	18.2	18.2	9.6
Actuated g/C Ratio		0.23	0.59			0.07	0.37	0.37	0.10	0.14	0.14	0.07

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

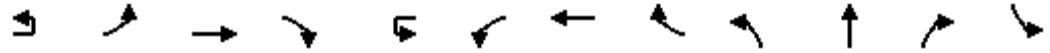
Future (2041) Total Traffic  
AM Peak hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	32	176
Future Volume (vph)	32	176
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.95
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1820	1517
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1820	1444
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		32
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	0%	2%
Adj. Flow (vph)	32	176
Shared Lane Traffic (%)		
Lane Group Flow (vph)	32	176
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	12.2	12.2
Actuated g/C Ratio	0.09	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

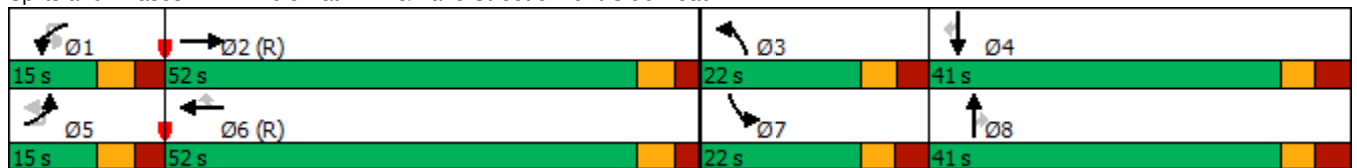


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		1.78	0.46			0.21	1.05	0.12	0.63	0.43	0.21	0.45
Control Delay		417.1	12.4			61.3	80.9	0.4	65.2	57.7	1.5	68.1
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		417.1	12.4			61.3	80.9	0.4	65.2	57.7	1.5	68.1
LOS		F	B			E	F	A	E	E	A	E
Approach Delay			65.1				76.3			51.7		
Approach LOS			E				E			D		
Queue Length 50th (m)		~37.6	37.0			4.5	167.3	0.0	25.6	27.0	0.0	13.7
Queue Length 95th (m)		#64.8	62.7			12.1	#239.6	0.0	37.7	43.6	0.0	26.7
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	2718			93	1208	636	370	471	477	198
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		1.78	0.46			0.19	1.05	0.12	0.54	0.23	0.14	0.28

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.78  
 Intersection Signal Delay: 66.2 Intersection LOS: E  
 Intersection Capacity Utilization 94.2% 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

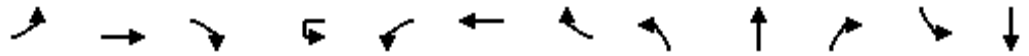


Lane Group	SBT	SBR
v/c Ratio	0.19	0.68
Control Delay	55.4	28.7
Queue Delay	0.0	0.0
Total Delay	55.4	28.7
LOS	E	C
Approach Delay	40.2	
Approach LOS	D	
Queue Length 50th (m)	7.8	9.7
Queue Length 95th (m)	17.0	32.0
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	476	478
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.07	0.37
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic

AM Peak hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	199	1163	98	2	16	1274	74	200	109	67	55	32
Future Volume (vph)	199	1163	98	2	16	1274	74	200	109	67	55	32
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			0.99		0.96	0.94		0.99	1.00	
Fr <sub>t</sub>		0.988					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3288	4564	0	0	1436	3232	1517	3106	1802	1459	1679	1820
Fl <sub>t</sub> Permitted	0.950				0.800			0.950			0.950	
Satd. Flow (perm)	3267	4564	0	0	1201	3232	1462	2924	1802	1439	1675	1820
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		12					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	15		18		18		15	32		2	2	
Confl. Bikes (#/hr)			1				2					
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	2%	7%	7%	0%	23%	7%	2%	8%	1%	6%	3%	0%
Adj. Flow (vph)	199	1163	98	2	16	1274	74	200	109	67	55	32
Shared Lane Traffic (%)												
Lane Group Flow (vph)	199	1261	0	0	18	1274	74	200	109	67	55	32
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	15.0	52.0		15.0	15.0	52.0	52.0	22.0	41.0	41.0	22.0	41.0
Total Split (%)	11.5%	40.0%		11.5%	11.5%	40.0%	40.0%	16.9%	31.5%	31.5%	16.9%	31.5%
Maximum Green (s)	8.5	45.8		8.5	8.5	45.8	45.8	15.5	34.0	34.0	15.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Min		None	None	C-Min	C-Min	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	14.2	78.0			9.1	64.8	64.8	13.2	17.5	17.5	9.6	11.5
Actuated g/C Ratio	0.11	0.60			0.07	0.50	0.50	0.10	0.13	0.13	0.07	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

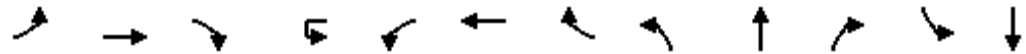
Future (2041) Total Traffic  
 AM Peak hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	176
Future Volume (vph)	176
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.95
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1517
Flt Permitted	
Satd. Flow (perm)	1444
Right Turn on Red	Yes
Satd. Flow (RTOR)	164
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	32
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	2%
Adj. Flow (vph)	176
Shared Lane Traffic (%)	
Lane Group Flow (vph)	176
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	11.5
Actuated g/C Ratio	0.09

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic

AM Peak hour

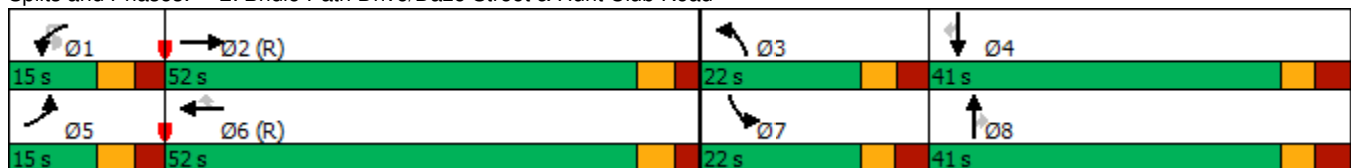


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.46			0.21	0.79	0.09	0.63	0.45	0.21	0.45	0.20
Control Delay	72.8	11.9			61.3	32.6	0.2	65.2	59.3	1.6	68.1	56.9
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	72.8	11.9			61.3	32.6	0.2	65.2	59.3	1.6	68.1	56.9
LOS	E	B			E	C	A	E	E	A	E	E
Approach Delay		20.2				31.2			52.1			35.1
Approach LOS		C				C			D			D
Queue Length 50th (m)	28.0	37.0			4.5	136.2	0.0	25.6	27.0	0.0	13.7	7.8
Queue Length 95th (m)	40.6	54.3			12.1	#206.6	0.0	37.7	44.3	0.0	26.7	17.3
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	360	2743			93	1611	800	370	471	477	198	476
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	0.55	0.46			0.19	0.79	0.09	0.54	0.23	0.14	0.28	0.07

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 125  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.79  
 Intersection Signal Delay: 29.1  
 Intersection LOS: C  
 Intersection Capacity Utilization 83.1%  
 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.

Splits and Phases: 2: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic  
AM Peak hour

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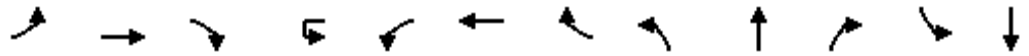
Lane Group	SBR
v/c Ratio	0.64
Control Delay	20.8
Queue Delay	0.0
Total Delay	20.8
LOS	C
Approach Delay	
Approach LOS	
Queue Length 50th (m)	2.9
Queue Length 95th (m)	24.7
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	498
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.35
Intersection Summary	



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic

AM Peak hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	↗↗	↑↑	↖		↖	↑↑	↖	↗↗	↑↑	↖	↗↗	↑↑
Traffic Volume (vph)	157	790	291	1	34	1047	209	312	1026	24	92	351
Future Volume (vph)	157	790	291	1	34	1047	209	312	1026	24	92	351
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	95.0		0.0		60.0		100.0	60.0		60.0	30.0	
Storage Lanes	2		1		1		1	2		1	2	
Taper Length (m)	2.5				2.5			2.5				2.5
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.97	0.95
Ped Bike Factor	0.99		0.98		1.00		0.97	0.97		0.96	0.99	
Fr <sub>t</sub>			0.850				0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3022	3202	1488	0	1634	3232	1532	3195	3357	1547	3288	3262
Fl <sub>t</sub> Permitted	0.950				0.769			0.950			0.950	
Satd. Flow (perm)	3006	3202	1452	0	1318	3232	1489	3089	3357	1487	3255	3262
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)			291				279			216		
Link Speed (k/h)		60				60			60			60
Link Distance (m)		152.6				161.6			179.7			141.8
Travel Time (s)		9.2				9.7			10.8			8.5
Confl. Peds. (#/hr)	10		9		9		10	25		20	20	
Confl. Bikes (#/hr)							3			3		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	11%	8%	4%	0%	6%	7%	1%	5%	3%	0%	2%	6%
Adj. Flow (vph)	157	790	291	1	34	1047	209	312	1026	24	92	351
Shared Lane Traffic (%)												
Lane Group Flow (vph)	157	790	291	0	35	1047	209	312	1026	24	92	351
Turn Type	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	7	4			3	8		5	2		1	6
Permitted Phases			4	3			8			2		
Detector Phase	7	4	4	3	3	8	8	5	2	2	1	6
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1	34.5
Total Split (s)	21.0	45.0	45.0	13.0	13.0	37.0	37.0	25.0	48.0	48.0	14.0	37.0
Total Split (%)	17.5%	37.5%	37.5%	10.8%	10.8%	30.8%	30.8%	20.8%	40.0%	40.0%	11.7%	30.8%
Maximum Green (s)	14.5	38.3	38.3	6.5	6.5	30.3	30.3	17.9	41.5	41.5	6.9	30.5
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4	2.8
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	7.1	6.5
Lead/Lag	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None	C-Max
Walk Time (s)		7.0	7.0			7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		20.0	20.0			20.0	20.0		21.0	21.0		21.0
Pedestrian Calls (#/hr)		0	0			0	0		0	0		0
Act Effct Green (s)	11.4	40.9	40.9		6.4	33.4	33.4	16.0	41.6	41.6	6.8	32.4
Actuated g/C Ratio	0.10	0.34	0.34		0.05	0.28	0.28	0.13	0.35	0.35	0.06	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

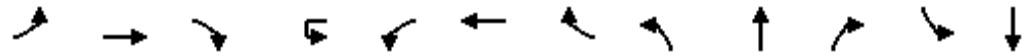
Future (2041) Total Traffic  
AM Peak hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	162
Future Volume (vph)	162
Ideal Flow (vphpl)	1800
Storage Length (m)	120.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.96
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1381
Flt Permitted	
Satd. Flow (perm)	1321
Right Turn on Red	Yes
Satd. Flow (RTOR)	281
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	25
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	12%
Adj. Flow (vph)	162
Shared Lane Traffic (%)	
Lane Group Flow (vph)	162
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Detector Phase	6
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	34.5
Total Split (s)	37.0
Total Split (%)	30.8%
Maximum Green (s)	30.5
Yellow Time (s)	3.7
All-Red Time (s)	2.8
Lost Time Adjust (s)	0.0
Total Lost Time (s)	6.5
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	C-Max
Walk Time (s)	7.0
Flash Dont Walk (s)	21.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	32.4
Actuated g/C Ratio	0.27

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic

AM Peak hour

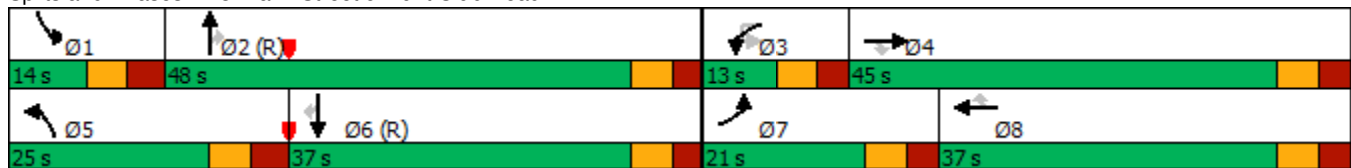


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.55	0.72	0.42		0.50	1.16	0.34	0.73	0.88	0.04	0.49	0.40
Control Delay	58.7	40.1	5.5		79.5	125.7	2.6	60.4	47.1	0.1	68.7	29.5
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.7	40.1	5.5		79.5	125.7	2.6	60.4	47.1	0.1	68.7	29.5
LOS	E	D	A		E	F	A	E	D	A	E	C
Approach Delay		34.3				104.5			49.3			27.9
Approach LOS		C				F			D			C
Queue Length 50th (m)	18.4	88.2	0.0		8.2	~154.3	0.0	36.5	119.0	0.0	11.4	23.7
Queue Length 95th (m)	28.6	111.7	19.2		#21.2	#205.5	4.7	51.1	#155.6	0.0	19.8	31.9
Internal Link Dist (m)		128.6				137.6			155.7			117.8
Turn Bay Length (m)	95.0				60.0		100.0	60.0		60.0	30.0	
Base Capacity (vph)	365	1090	686		71	899	615	476	1163	656	189	880
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	0.43	0.72	0.42		0.49	1.16	0.34	0.66	0.88	0.04	0.49	0.40

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 65 (54%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 105  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.16  
 Intersection Signal Delay: 58.2  
 Intersection LOS: E  
 Intersection Capacity Utilization 91.7%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour

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Lane Group	SBR
v/c Ratio	0.29
Control Delay	1.3
Queue Delay	0.0
Total Delay	1.3
LOS	A
Approach Delay	
Approach LOS	
Queue Length 50th (m)	0.1
Queue Length 95th (m)	0.1
Internal Link Dist (m)	
Turn Bay Length (m)	120.0
Base Capacity (vph)	561
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.29
Intersection Summary	

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4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations		↖	↗		↖	↗	↖	↗			↖	↗
Traffic Volume (vph)	117	0	33	73	0	148	90	1040	51	3	17	440
Future Volume (vph)	117	0	33	73	0	148	90	1040	51	3	17	440
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0	45.0		0.0		70.0	
Storage Lanes	0		1	0		1	1		0		1	
Taper Length (m)	7.6			7.6			7.6				7.6	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor		0.97	0.97		0.98	0.95	1.00	1.00			1.00	
Fr <sub>t</sub>			0.850			0.850		0.993				
Fl <sub>t</sub> Protected		0.950			0.950		0.950				0.950	
Satd. Flow (prot)	0	1679	1488	0	1647	1502	1712	3241	0	0	1729	3172
Fl <sub>t</sub> Permitted		0.709			0.639		0.451				0.262	
Satd. Flow (perm)	0	1210	1440	0	1089	1426	809	3241	0	0	476	3172
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)			105			148		7				
Link Speed (k/h)		50			50			60				60
Link Distance (m)		72.9			188.5			169.4				264.5
Travel Time (s)		5.2			13.6			10.2				15.9
Confl. Peds. (#/hr)	19		10	10		19	6		3		3	
Confl. Bikes (#/hr)						2			1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	3%	0%	4%	5%	0%	3%	1%	6%	2%	0%	0%	9%
Adj. Flow (vph)	117	0	33	73	0	148	90	1040	51	3	17	440
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	117	33	0	73	148	90	1091	0	0	20	440
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	Perm	NA
Protected Phases		4			8		5	2				6
Permitted Phases	4		4	8		8	2			6	6	
Detector Phase	4	4	4	8	8	8	5	2		6	6	6
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	10.0		10.0	10.0	10.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	34.3		34.3	34.3	34.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	14.0	78.0		64.0	64.0	64.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	11.7%	65.0%		53.3%	53.3%	53.3%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	7.7	71.7		57.7	57.7	57.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7		3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1	6.3	6.3			6.3	6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0		11.0		11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0		0		0	0	0
Act Effct Green (s)		17.0	17.0		17.0	17.0	85.6	85.6			71.7	71.7
Actuated g/C Ratio		0.14	0.14		0.14	0.14	0.71	0.71			0.60	0.60

4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

Lane Group	SBR	Ø3	Ø7
Lane Configurations			
Traffic Volume (vph)	121		
Future Volume (vph)	121		
Ideal Flow (vphpl)	1800		
Storage Length (m)	75.0		
Storage Lanes	1		
Taper Length (m)			
Lane Util. Factor	1.00		
Ped Bike Factor	0.98		
Frt	0.850		
Flt Protected			
Satd. Flow (prot)	1419		
Flt Permitted			
Satd. Flow (perm)	1386		
Right Turn on Red	Yes		
Satd. Flow (RTOR)	121		
Link Speed (k/h)			
Link Distance (m)			
Travel Time (s)			
Confl. Peds. (#/hr)	6		
Confl. Bikes (#/hr)			
Peak Hour Factor	1.00		
Heavy Vehicles (%)	9%		
Adj. Flow (vph)	121		
Shared Lane Traffic (%)			
Lane Group Flow (vph)	121		
Turn Type	Perm		
Protected Phases		3	7
Permitted Phases	6		
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	10.0	3.0	3.0
Minimum Split (s)	34.3	5.0	5.0
Total Split (s)	64.0	5.0	5.0
Total Split (%)	53.3%	4%	4%
Maximum Green (s)	57.7	3.0	3.0
Yellow Time (s)	3.7	2.0	2.0
All-Red Time (s)	2.6	0.0	0.0
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.3		
Lead/Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	C-Max	Max	Max
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	71.7		
Actuated g/C Ratio	0.60		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio		0.68	0.11		0.47	0.45	0.14	0.47			0.07	0.23
Control Delay		67.7	0.8		55.9	11.1	6.4	6.7			13.6	12.6
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0			0.0	0.0
Total Delay		67.7	0.8		55.9	11.1	6.4	6.7			13.6	12.6
LOS		E	A		E	B	A	A			B	B
Approach Delay		52.9			25.9			6.7				10.6
Approach LOS		D			C			A				B
Queue Length 50th (m)		26.6	0.0		16.1	0.0	4.3	28.3			1.9	23.8
Queue Length 95th (m)		43.5	0.0		29.2	16.9	m8.2	m47.7			6.7	39.6
Internal Link Dist (m)		48.9			164.5			145.4				240.5
Turn Bay Length (m)						40.0	45.0				70.0	
Base Capacity (vph)		311	448		280	477	638	2312			284	1895
Starvation Cap Reductn		0	0		0	0	0	0			0	0
Spillback Cap Reductn		0	0		0	0	0	0			0	0
Storage Cap Reductn		0	0		0	0	0	0			0	0
Reduced v/c Ratio		0.38	0.07		0.26	0.31	0.14	0.47			0.07	0.23

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 57 (48%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.68

Intersection Signal Delay: 13.0

Intersection LOS: B

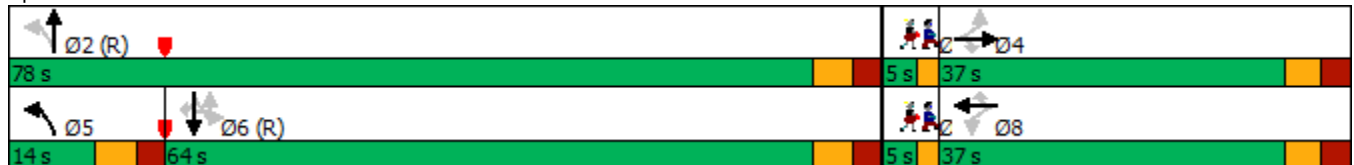
Intersection Capacity Utilization 84.4%

ICU Level of Service E

Analysis Period (min) 15

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

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive



4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

Lane Group	SBR	Ø3	Ø7
v/c Ratio	0.14		
Control Delay	2.8		
Queue Delay	0.0		
Total Delay	2.8		
LOS	A		
Approach Delay			
Approach LOS			
Queue Length 50th (m)	0.0		
Queue Length 95th (m)	8.9		
Internal Link Dist (m)			
Turn Bay Length (m)	75.0		
Base Capacity (vph)	877		
Starvation Cap Reductn	0		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	0.14		
Intersection Summary			



5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Total Traffic

AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	30	1	83	5	2	7	115	233	3	2	4	158
Future Volume (vph)	30	1	83	5	2	7	115	233	3	2	4	158
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	1.00	0.99		1.00	0.99			1.00				
Fr <sub>t</sub>		0.852			0.883			0.998				0.946
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1631	1484	0	1441	1590	0	1712	3383	0	0	1729	3199
Fl <sub>t</sub> Permitted	0.752			0.714			0.544				0.605	
Satd. Flow (perm)	1289	1484	0	1082	1590	0	980	3383	0	0	1101	3199
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		83			7			2				90
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	2		1	1		2						
Confl. Bikes (#/hr)									1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	6%	100%	2%	20%	0%	0%	1%	2%	0%	0%	0%	3%
Adj. Flow (vph)	30	1	83	5	2	7	115	233	3	2	4	158
Shared Lane Traffic (%)												
Lane Group Flow (vph)	30	84	0	5	9	0	115	236	0	0	6	248
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		1.4	5.0		1.4	1.4	5.0
Minimum Split (s)	28.0	28.0		28.1	28.1		7.3	32.9		7.3	7.3	32.9
Total Split (s)	28.0	28.0		28.1	28.1		12.0	35.0		12.0	12.0	35.0
Total Split (%)	37.3%	37.3%		37.4%	37.4%		16.0%	46.6%		16.0%	16.0%	46.6%
Maximum Green (s)	22.0	22.0		22.0	22.0		6.1	29.1		6.1	6.1	29.1
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.7	2.7		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.0	6.0		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	7.0	7.0		6.9	6.9		41.0	41.2			37.1	34.1
Actuated g/C Ratio	0.12	0.12		0.12	0.12		0.70	0.71			0.64	0.58

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	90
Future Volume (vph)	90
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	90
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2041) Total Traffic  
 AM Peak hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.20	0.34		0.04	0.05		0.15	0.10			0.01	0.13
Control Delay	26.9	10.9		24.0	16.6		4.1	5.2			3.7	5.9
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	26.9	10.9		24.0	16.6		4.1	5.2			3.7	5.9
LOS	C	B		C	B		A	A			A	A
Approach Delay		15.1			19.2			4.8				5.8
Approach LOS		B			B			A				A
Queue Length 50th (m)	3.1	0.1		0.5	0.2		3.3	3.5			0.2	4.5
Queue Length 95th (m)	9.5	10.2		3.1	3.6		8.2	12.8			1.1	10.3
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	491	617		411	607		766	2392			774	1911
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.06	0.14		0.01	0.01		0.15	0.10			0.01	0.13

Intersection Summary

Area Type: Other  
 Cycle Length: 75.1  
 Actuated Cycle Length: 58.3  
 Natural Cycle: 70  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 0.34  
 Intersection Signal Delay: 7.1  
 Intersection LOS: A  
 Intersection Capacity Utilization 38.0%  
 ICU Level of Service A  
 Analysis Period (min) 15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑↑	↑↑	
Traffic Vol, veh/h	0	19	0	351	237	9
Future Vol, veh/h	0	19	0	351	237	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	19	0	351	237	9

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	123	-	0	0
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-
Pot Cap-1 Maneuver	0	911	0	-	-
Stage 1	0	-	0	-	-
Stage 2	0	-	0	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	911	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	911	-	-
HCM Lane V/C Ratio	-	0.021	-	-
HCM Control Delay (s)	-	9	-	-
HCM Lane LOS	-	A	-	-
HCM 95th %tile Q(veh)	-	0.1	-	-

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2041) Total Traffic  
AM Peak hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	43	19	351	237	0
Future Vol, veh/h	0	43	19	351	237	0
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	43	19	351	237	0
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	-	119	237	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	0	917	1342	-	-	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	917	1342	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	9.1	0.4		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1342	-	917	-	-	
HCM Lane V/C Ratio	0.014	-	0.047	-	-	
HCM Control Delay (s)	7.7	-	9.1	-	-	
HCM Lane LOS	A	-	A	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	188	1430	34	86	1392	366	16	0	149	646	0	302
Future Volume (vph)	188	1430	34	86	1392	366	16	0	149	646	0	302
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	150.0		0.0	55.0		0.0	0.0		40.0	120.0		120.0
Storage Lanes	1		0	1		0	1		1	2		0
Taper Length (m)	7.6			7.6			7.6			7.6		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	0.97	1.00	1.00
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99					0.99
Fr <sub>t</sub>		0.997			0.969				0.850			0.850
Fl <sub>t</sub> Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1712	3285	0	1530	3245	0	1616	0	1488	3321	0	1532
Fl <sub>t</sub> Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1710	3285	0	1528	3245	0	1599	0	1488	3321	0	1509
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			28				164			302
Link Speed (k/h)		60			60			80			80	
Link Distance (m)		431.4			316.9			354.1			189.5	
Travel Time (s)		25.9			19.0			15.9			8.5	
Confl. Peds. (#/hr)	11		5	5		11	3					3
Confl. Bikes (#/hr)			1									
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	0%	13%	3%	2%	7%	0%	4%	1%	0%	1%
Adj. Flow (vph)	188	1430	34	86	1392	366	16	0	149	646	0	302
Shared Lane Traffic (%)												
Lane Group Flow (vph)	188	1464	0	86	1758	0	16	0	149	646	0	302
Turn Type	Prot	NA		Prot	NA		Perm		Perm	Perm		Perm
Protected Phases	5	2		1	6							
Permitted Phases							4		4	8		8
Detector Phase	5	2		1	6		4		4	8		8
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	10.0		10.0		10.0	10.0		10.0
Minimum Split (s)	17.2	47.3		12.4	47.3		17.8		17.8	22.5		22.5
Total Split (s)	28.0	53.0		28.0	53.0		19.0		19.0	49.0		49.0
Total Split (%)	21.5%	40.8%		21.5%	40.8%		14.6%		14.6%	37.7%		37.7%
Maximum Green (s)	20.6	45.7		20.6	45.7		11.2		11.2	41.2		41.2
Yellow Time (s)	3.7	3.7		3.7	3.7		3.7		3.7	3.7		3.7
All-Red Time (s)	3.7	3.6		3.7	3.6		4.1		4.1	4.1		4.1
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Lost Time (s)	7.4	7.3		7.4	7.3		7.8		7.8	7.8		7.8
Lead/Lag	Lead	Lag		Lead	Lag		Lag		Lag			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes		Yes			
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0		3.0	3.0		3.0
Recall Mode	None	C-Max		None	C-Max		None		None	None		None
Walk Time (s)		31.0			31.0							
Flash Dont Walk (s)		9.0			9.0							
Pedestrian Calls (#/hr)		0			0							
Act Effct Green (s)	19.0	63.3		12.6	56.9		31.6		31.6	31.6		31.6
Actuated g/C Ratio	0.15	0.49		0.10	0.44		0.24		0.24	0.24		0.24

1: Airport Parkway & Hunt Club Road  
 South Keys Phase 1

Future (2041) Total Traffic  
 PM Peak Hour

Lane Group	Ø3
Lane Configurations	
Traffic Volume (vph)	
Future Volume (vph)	
Ideal Flow (vphpl)	
Storage Length (m)	
Storage Lanes	
Taper Length (m)	
Lane Util. Factor	
Ped Bike Factor	
Fr <sub>t</sub>	
Fl <sub>t</sub> Protected	
Satd. Flow (prot)	
Fl <sub>t</sub> Permitted	
Satd. Flow (perm)	
Right Turn on Red	
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	
Confl. Bikes (#/hr)	
Peak Hour Factor	
Heavy Vehicles (%)	
Adj. Flow (vph)	
Shared Lane Traffic (%)	
Lane Group Flow (vph)	
Turn Type	
Protected Phases	3
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	5.0
Minimum Split (s)	29.8
Total Split (s)	30.0
Total Split (%)	23%
Maximum Green (s)	22.2
Yellow Time (s)	3.7
All-Red Time (s)	4.1
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	Lead
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	15.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	
Actuated g/C Ratio	



1: Airport Parkway & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.76	0.92		0.58	1.22		0.04		0.31	0.80		0.51
Control Delay	71.7	42.0		52.7	134.2		35.1		5.6	54.0		7.0
Queue Delay	0.0	0.0		0.0	0.0		0.0		0.0	0.0		0.0
Total Delay	71.7	42.0		52.7	134.2		35.1		5.6	54.0		7.0
LOS	E	D		D	F		D		A	D		A
Approach Delay		45.4			130.4			8.4				39.0
Approach LOS		D			F			A				D
Queue Length 50th (m)	46.6	178.0		21.9	~285.0		3.2		0.0	80.6		0.0
Queue Length 95th (m)	70.0	#272.8		m23.0	m#286.1		8.6		12.5	94.7		20.8
Internal Link Dist (m)		407.4			292.9			330.1				165.5
Turn Bay Length (m)	150.0			55.0					40.0	120.0		120.0
Base Capacity (vph)	283	1599		242	1437		388		485	1052		684
Starvation Cap Reductn	0	0		0	0		0		0	0		0
Spillback Cap Reductn	0	0		0	0		0		0	0		0
Storage Cap Reductn	0	0		0	0		0		0	0		0
Reduced v/c Ratio	0.66	0.92		0.36	1.22		0.04		0.31	0.61		0.44

Intersection Summary

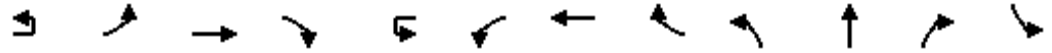
Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.22  
 Intersection Signal Delay: 76.8      Intersection LOS: E  
 Intersection Capacity Utilization 102.4%      ICU Level of Service G  
 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: 1: Airport Parkway & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		↔↔	↔↔↔			↔	↔↔	↔	↔↔	↔	↔	↔
Traffic Volume (vph)	33	283	1529	244	28	37	1392	88	141	108	75	114
Future Volume (vph)	33	283	1529	244	28	37	1392	88	141	108	75	114
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		100.0		0.0		80.0		90.0	50.0		25.0	50.0
Storage Lanes		2		0		1		1	2		1	1
Taper Length (m)		7.6				7.6			7.6			7.6
Lane Util. Factor	0.91	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00
Ped Bike Factor		0.99	0.99			1.00		0.93	0.93		0.96	0.98
Fr <sub>t</sub>			0.979					0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			0.950
Satd. Flow (prot)	0	3324	4579	0	0	1729	3357	1532	3225	1820	1532	1712
Fl <sub>t</sub> Permitted		0.182				0.201			0.950			0.950
Satd. Flow (perm)	0	630	4579	0	0	364	3357	1431	3009	1820	1474	1675
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)			26					143			137	
Link Speed (k/h)			60				60			50		
Link Distance (m)			316.9				201.3			183.6		
Travel Time (s)			19.0				12.1			13.2		
Confl. Peds. (#/hr)		35		25		25		35	44		22	22
Confl. Bikes (#/hr)				1							1	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%
Adj. Flow (vph)	33	283	1529	244	28	37	1392	88	141	108	75	114
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	316	1773	0	0	65	1392	88	141	108	75	114
Turn Type	custom	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot
Protected Phases		5	2			1	6		3	8		7
Permitted Phases	5				1			6				8
Detector Phase	5	5	2		1	1	6	6	3	8	8	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6
Total Split (s)	18.0	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0
Total Split (%)	13.8%	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%
Maximum Green (s)	11.5	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4
Yellow Time (s)	3.7	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3
Lost Time Adjust (s)		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6
Lead/Lag	Lead	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	C-Max		None	None	C-Max	C-Max	None	None	None	None
Walk Time (s)			7.0				7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			18.0				18.0	18.0		27.0	27.0	
Pedestrian Calls (#/hr)			0				0	0		0	0	
Act Effct Green (s)		22.0	50.0			19.9	47.8	47.8	9.8	23.6	23.6	10.3
Actuated g/C Ratio		0.17	0.38			0.15	0.37	0.37	0.08	0.18	0.18	0.08

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

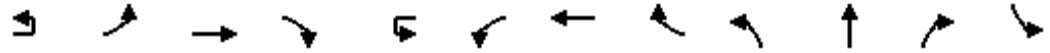
Future (2041) Total Traffic  
PM Peak Hour



Lane Group	SBT	SBR
Lane Configurations	↑	↗
Traffic Volume (vph)	163	328
Future Volume (vph)	163	328
Ideal Flow (vphpl)	1800	1800
Storage Length (m)		0.0
Storage Lanes		1
Taper Length (m)		
Lane Util. Factor	1.00	1.00
Ped Bike Factor		0.94
Fr <sub>t</sub>		0.850
Fl <sub>t</sub> Protected		
Satd. Flow (prot)	1802	1532
Fl <sub>t</sub> Permitted		
Satd. Flow (perm)	1802	1438
Right Turn on Red		Yes
Satd. Flow (RTOR)		137
Link Speed (k/h)	50	
Link Distance (m)	209.8	
Travel Time (s)	15.1	
Confl. Peds. (#/hr)		44
Confl. Bikes (#/hr)		
Peak Hour Factor	1.00	1.00
Heavy Vehicles (%)	1%	1%
Adj. Flow (vph)	163	328
Shared Lane Traffic (%)		
Lane Group Flow (vph)	163	328
Turn Type	NA	Perm
Protected Phases	4	
Permitted Phases		4
Detector Phase	4	4
Switch Phase		
Minimum Initial (s)	10.0	10.0
Minimum Split (s)	41.0	41.0
Total Split (s)	41.0	41.0
Total Split (%)	31.5%	31.5%
Maximum Green (s)	34.0	34.0
Yellow Time (s)	3.3	3.3
All-Red Time (s)	3.7	3.7
Lost Time Adjust (s)	0.0	0.0
Total Lost Time (s)	7.0	7.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes
Vehicle Extension (s)	3.0	3.0
Recall Mode	None	None
Walk Time (s)	7.0	7.0
Flash Dont Walk (s)	27.0	27.0
Pedestrian Calls (#/hr)	0	0
Act Effct Green (s)	24.2	24.2
Actuated g/C Ratio	0.19	0.19

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour

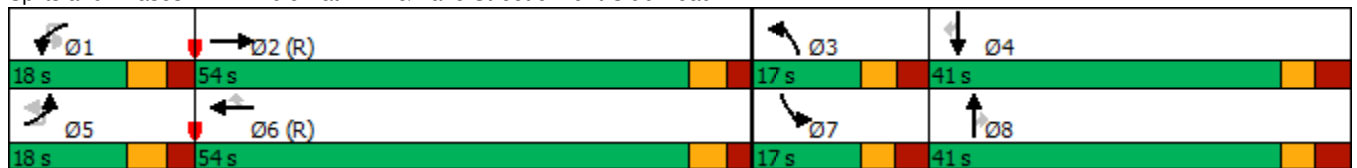


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
v/c Ratio		2.98	1.00			1.18	1.13	0.14	0.58	0.33	0.20	0.84
Control Delay		924.3	52.2			225.3	106.7	1.0	67.9	46.4	1.2	103.4
Queue Delay		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		924.3	52.2			225.3	106.7	1.0	67.9	46.4	1.2	103.4
LOS		F	D			F	F	A	E	D	A	F
Approach Delay			184.2				105.7			45.3		
Approach LOS			F				F			D		
Queue Length 50th (m)		~75.3	~176.0			~19.5	~217.0	0.0	18.1	24.0	0.0	29.3
Queue Length 95th (m)		m#97.5	#204.9			#56.4	#259.6	1.5	29.1	37.5	0.0	#62.0
Internal Link Dist (m)			292.9				177.3			159.6		
Turn Bay Length (m)		100.0				80.0		90.0	50.0		25.0	50.0
Base Capacity (vph)		106	1775			55	1234	616	260	476	486	136
Starvation Cap Reductn		0	0			0	0	0	0	0	0	0
Spillback Cap Reductn		0	0			0	0	0	0	0	0	0
Storage Cap Reductn		0	0			0	0	0	0	0	0	0
Reduced v/c Ratio		2.98	1.00			1.18	1.13	0.14	0.54	0.23	0.15	0.84

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 135  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.98  
 Intersection Signal Delay: 131.4      Intersection LOS: F  
 Intersection Capacity Utilization 103.8%      ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road



2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1

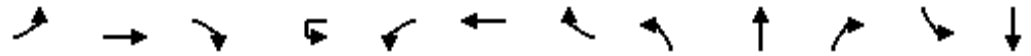
Future (2041) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR
v/c Ratio	0.49	0.87
Control Delay	50.6	51.0
Queue Delay	0.0	0.0
Total Delay	50.6	51.0
LOS	D	D
Approach Delay	60.7	
Approach LOS	E	
Queue Length 50th (m)	37.4	49.4
Queue Length 95th (m)	54.4	79.4
Internal Link Dist (m)	185.8	
Turn Bay Length (m)		
Base Capacity (vph)	471	477
Starvation Cap Reductn	0	0
Spillback Cap Reductn	0	0
Storage Cap Reductn	0	0
Reduced v/c Ratio	0.35	0.69
Intersection Summary		

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic  
 PM Peak Hour



Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	316	1529	244	28	37	1392	88	141	108	75	114	163
Future Volume (vph)	316	1529	244	28	37	1392	88	141	108	75	114	163
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	100.0		0.0		80.0		90.0	50.0		25.0	50.0	
Storage Lanes	2		0		1		1	2		1	1	
Taper Length (m)	7.6				7.6			7.6			7.6	
Lane Util. Factor	0.97	0.91	0.91	0.95	1.00	0.95	1.00	0.97	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99			1.00		0.93	0.93		0.96	0.98	
Fr <sub>t</sub>		0.979					0.850			0.850		
Fl <sub>t</sub> Protected	0.950				0.950			0.950			0.950	
Satd. Flow (prot)	3321	4579	0	0	1729	3357	1532	3225	1820	1532	1712	1802
Fl <sub>t</sub> Permitted	0.950				0.182			0.950			0.950	
Satd. Flow (perm)	3277	4579	0	0	330	3357	1431	3009	1820	1474	1675	1802
Right Turn on Red			Yes				Yes			Yes		
Satd. Flow (RTOR)		26					143			137		
Link Speed (k/h)		60				60			50			50
Link Distance (m)		316.9				201.3			183.6			209.8
Travel Time (s)		19.0				12.1			13.2			15.1
Confl. Peds. (#/hr)	35		25		25		35	44		22	22	
Confl. Bikes (#/hr)			1							1		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	5%	5%	0%	0%	3%	1%	4%	0%	1%	1%	1%
Adj. Flow (vph)	316	1529	244	28	37	1392	88	141	108	75	114	163
Shared Lane Traffic (%)												
Lane Group Flow (vph)	316	1773	0	0	65	1392	88	141	108	75	114	163
Turn Type	Prot	NA		custom	Prot	NA	Perm	Prot	NA	Perm	Prot	NA
Protected Phases	5	2			1	6		3	8		7	4
Permitted Phases				1			6			8		
Detector Phase	5	2		1	1	6	6	3	8	8	7	4
Switch Phase												
Minimum Initial (s)	5.0	10.0		5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.5	40.2		11.5	11.5	40.2	40.2	11.5	41.0	41.0	11.6	41.0
Total Split (s)	18.0	54.0		18.0	18.0	54.0	54.0	17.0	41.0	41.0	17.0	41.0
Total Split (%)	13.8%	41.5%		13.8%	13.8%	41.5%	41.5%	13.1%	31.5%	31.5%	13.1%	31.5%
Maximum Green (s)	11.5	47.8		11.5	11.5	47.8	47.8	10.5	34.0	34.0	10.4	34.0
Yellow Time (s)	3.7	3.7		3.7	3.7	3.7	3.7	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.8	2.5		2.8	2.8	2.5	2.5	3.2	3.7	3.7	3.3	3.7
Lost Time Adjust (s)	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.2			6.5	6.2	6.2	6.5	7.0	7.0	6.6	7.0
Lead/Lag	Lead	Lag		Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	C-Max		None	None	C-Max	C-Max	None	None	None	None	None
Walk Time (s)		7.0				7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)		18.0				18.0	18.0		27.0	27.0		27.0
Pedestrian Calls (#/hr)		0				0	0		0	0		0
Act Effct Green (s)	19.0	51.1			22.0	54.1	54.1	9.8	20.3	20.3	10.3	20.9
Actuated g/C Ratio	0.15	0.39			0.17	0.42	0.42	0.08	0.16	0.16	0.08	0.16

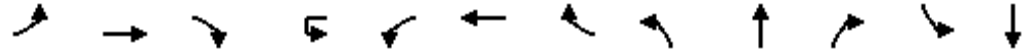
2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	328
Future Volume (vph)	328
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	1
Taper Length (m)	
Lane Util. Factor	1.00
Ped Bike Factor	0.94
Frt	0.850
Flt Protected	
Satd. Flow (prot)	1532
Flt Permitted	
Satd. Flow (perm)	1438
Right Turn on Red	Yes
Satd. Flow (RTOR)	199
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	44
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	328
Shared Lane Traffic (%)	
Lane Group Flow (vph)	328
Turn Type	Perm
Protected Phases	
Permitted Phases	4
Detector Phase	4
Switch Phase	
Minimum Initial (s)	10.0
Minimum Split (s)	41.0
Total Split (s)	41.0
Total Split (%)	31.5%
Maximum Green (s)	34.0
Yellow Time (s)	3.3
All-Red Time (s)	3.7
Lost Time Adjust (s)	0.0
Total Lost Time (s)	7.0
Lead/Lag	Lag
Lead-Lag Optimize?	Yes
Vehicle Extension (s)	3.0
Recall Mode	None
Walk Time (s)	7.0
Flash Dont Walk (s)	27.0
Pedestrian Calls (#/hr)	0
Act Effct Green (s)	20.9
Actuated g/C Ratio	0.16

2: Bridle Path Drive/Dazé Street & Hunt Club Road  
 South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic  
 PM Peak Hour

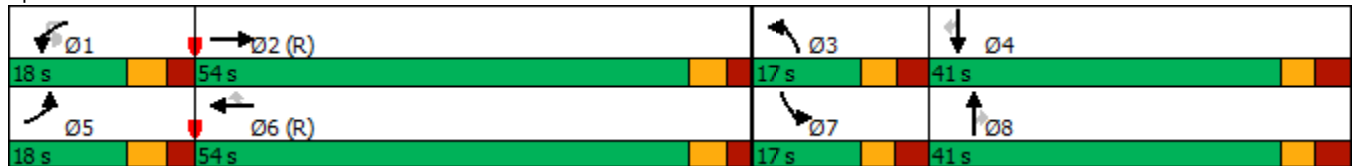


Lane Group	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
v/c Ratio	0.65	0.98			1.18	1.00	0.13	0.58	0.38	0.22	0.84	0.56
Control Delay	61.4	46.9			222.9	61.4	0.9	67.9	50.6	1.4	103.4	56.4
Queue Delay	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.4	46.9			222.9	61.4	0.9	67.9	50.6	1.4	103.4	56.4
LOS	E	D			F	E	A	E	D	A	F	E
Approach Delay		49.1				64.8			46.7			54.6
Approach LOS		D				E			D			D
Queue Length 50th (m)	44.3	~173.5			~17.7	~190.5	0.0	18.1	25.3	0.0	29.3	39.4
Queue Length 95th (m)	m#59.8	#204.9			#56.4	#259.6	1.5	29.1	38.0	0.0	#62.0	55.1
Internal Link Dist (m)		292.9				177.3			159.6			185.8
Turn Bay Length (m)	100.0				80.0		90.0	50.0		25.0	50.0	
Base Capacity (vph)	484	1814			55	1397	679	260	476	486	136	471
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	0.65	0.98			1.18	1.00	0.13	0.54	0.23	0.15	0.84	0.35

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 130  
 Offset: 1 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Green  
 Natural Cycle: 145  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.18  
 Intersection Signal Delay: 55.0  
 Intersection LOS: D  
 Intersection Capacity Utilization 100.1%  
 ICU Level of Service G  
 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: Bridle Path Drive/Dazé Street & Hunt Club Road





2: Bridle Path Drive/Dazé Street & Hunt Club Road  
South Keys Phase 1 U-turn Prohib

Future (2041) Total Traffic  
PM Peak Hour

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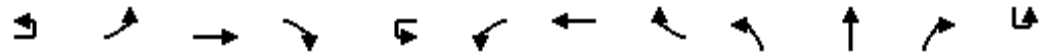
↙

Lane Group	SBR
v/c Ratio	0.82
Control Delay	36.8
Queue Delay	0.0
Total Delay	36.8
LOS	D
Approach Delay	
Approach LOS	
Queue Length 50th (m)	33.6
Queue Length 95th (m)	62.1
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	523
Starvation Cap Reductn	0
Spillback Cap Reductn	0
Storage Cap Reductn	0
Reduced v/c Ratio	0.63
Intersection Summary	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic

PM Peak Hour



Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations		↖↗	↕	↖		↖	↕	↖	↖↗	↕	↖	
Traffic Volume (vph)	4	179	996	397	1	52	894	197	361	571	61	1
Future Volume (vph)	4	179	996	397	1	52	894	197	361	571	61	1
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)		95.0		0.0		60.0		100.0	60.0		60.0	
Storage Lanes		2		1		1		1	2		1	
Taper Length (m)		2.5				2.5			2.5			
Lane Util. Factor	0.95	0.97	0.95	1.00	0.95	1.00	0.95	1.00	0.97	0.95	1.00	0.95
Ped Bike Factor		1.00		0.96		0.99		0.98	0.97		0.96	
Fr <sub>t</sub>				0.850				0.850			0.850	
Fl <sub>t</sub> Protected		0.950				0.950			0.950			
Satd. Flow (prot)	0	3139	3325	1517	0	1664	3390	1532	3321	3390	1517	0
Fl <sub>t</sub> Permitted		0.381				0.533			0.950			
Satd. Flow (perm)	0	1256	3325	1451	0	928	3390	1500	3230	3390	1454	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)				273				193			157	
Link Speed (k/h)			60				60			60		
Link Distance (m)			152.6				161.6			179.7		
Travel Time (s)			9.2				9.7			10.8		
Confl. Peds. (#/hr)		4		21		21		4	55		22	
Confl. Bikes (#/hr)				5				4			2	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	7%	4%	2%	0%	4%	2%	1%	1%	2%	2%	0%
Adj. Flow (vph)	4	179	996	397	1	52	894	197	361	571	61	1
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	183	996	397	0	53	894	197	361	571	61	0
Turn Type	custom	Prot	NA	Perm	custom	Prot	NA	Perm	Prot	NA	Perm	custom
Protected Phases		7	4			3	8		5	2		
Permitted Phases	7			4	3			8			2	1
Detector Phase	7	7	4	4	3	3	8	8	5	2	2	1
Switch Phase												
Minimum Initial (s)	5.0	5.0	10.0	10.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0
Minimum Split (s)	11.5	11.5	33.7	33.7	11.5	11.5	33.7	33.7	12.1	34.5	34.5	12.1
Total Split (s)	17.0	17.0	41.0	41.0	14.0	14.0	38.0	38.0	19.0	46.0	46.0	19.0
Total Split (%)	14.2%	14.2%	34.2%	34.2%	11.7%	11.7%	31.7%	31.7%	15.8%	38.3%	38.3%	15.8%
Maximum Green (s)	10.5	10.5	34.3	34.3	7.5	7.5	31.3	31.3	11.9	39.5	39.5	11.9
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
All-Red Time (s)	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.0	3.4	2.8	2.8	3.4
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.5	6.7	6.7		6.5	6.7	6.7	7.1	6.5	6.5	
Lead/Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	None	Max	Max	None	C-Max	C-Max	None
Walk Time (s)			7.0	7.0			7.0	7.0		7.0	7.0	
Flash Dont Walk (s)			20.0	20.0			20.0	20.0		21.0	21.0	
Pedestrian Calls (#/hr)			0	0			0	0		0	0	
Act Effct Green (s)		10.5	34.3	34.3		7.5	31.3	31.3	11.9	39.5	39.5	
Actuated g/C Ratio		0.09	0.29	0.29		0.06	0.26	0.26	0.10	0.33	0.33	

3: Bank Street & Hunt Club Road  
South Keys Phase 1

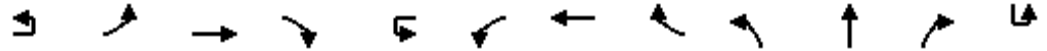
Future (2041) Total Traffic  
PM Peak Hour



Lane Group	SBL	SBT	SBR
Lane Configurations	↔↔	↑↑	↔
Traffic Volume (vph)	245	1052	242
Future Volume (vph)	245	1052	242
Ideal Flow (vphpl)	1800	1800	1800
Storage Length (m)	30.0		120.0
Storage Lanes	2		1
Taper Length (m)	2.5		
Lane Util. Factor	0.97	0.95	1.00
Ped Bike Factor	0.98		0.92
Fr <sub>t</sub>			0.850
Fl <sub>t</sub> Protected	0.950		
Satd. Flow (prot)	3321	3390	1473
Fl <sub>t</sub> Permitted	0.336		
Satd. Flow (perm)	1155	3390	1350
Right Turn on Red			Yes
Satd. Flow (RTOR)			157
Link Speed (k/h)		60	
Link Distance (m)		141.8	
Travel Time (s)		8.5	
Confl. Peds. (#/hr)	22		55
Confl. Bikes (#/hr)			4
Peak Hour Factor	1.00	1.00	1.00
Heavy Vehicles (%)	1%	2%	5%
Adj. Flow (vph)	245	1052	242
Shared Lane Traffic (%)			
Lane Group Flow (vph)	246	1052	242
Turn Type	Prot	NA	Perm
Protected Phases	1	6	
Permitted Phases			6
Detector Phase	1	6	6
Switch Phase			
Minimum Initial (s)	5.0	10.0	10.0
Minimum Split (s)	12.1	34.5	34.5
Total Split (s)	19.0	46.0	46.0
Total Split (%)	15.8%	38.3%	38.3%
Maximum Green (s)	11.9	39.5	39.5
Yellow Time (s)	3.7	3.7	3.7
All-Red Time (s)	3.4	2.8	2.8
Lost Time Adjust (s)	0.0	0.0	0.0
Total Lost Time (s)	7.1	6.5	6.5
Lead/Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0
Recall Mode	None	C-Max	C-Max
Walk Time (s)		7.0	7.0
Flash Dont Walk (s)		21.0	21.0
Pedestrian Calls (#/hr)		0	0
Act Effct Green (s)	11.9	39.5	39.5
Actuated g/C Ratio	0.10	0.33	0.33

3: Bank Street & Hunt Club Road  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour

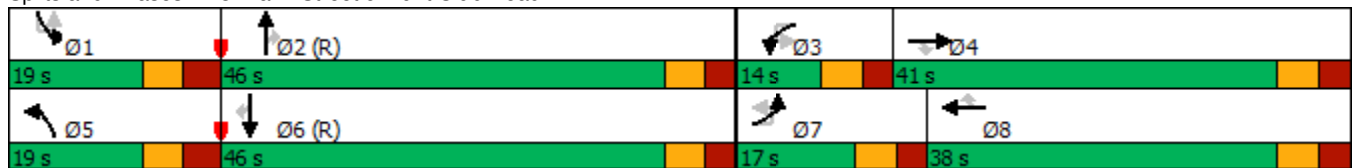


Lane Group	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
v/c Ratio		1.68	1.05	0.65		0.91	1.01	0.37	1.10	0.51	0.10	
Control Delay		375.9	84.5	17.1		152.1	77.3	7.3	128.1	34.5	0.4	
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay		375.9	84.5	17.1		152.1	77.3	7.3	128.1	34.5	0.4	
LOS		F	F	B		F	E	A	F	C	A	
Approach Delay			101.3				68.7			66.4		
Approach LOS			F				E			E		
Queue Length 50th (m)		~32.3	~134.3	24.0		12.6	~113.3	0.7	~49.5	56.8	0.0	
Queue Length 95th (m)		#55.5	#174.5	59.1		#38.2	#156.0	18.3	#79.3	73.9	0.0	
Internal Link Dist (m)			128.6				137.6			155.7		
Turn Bay Length (m)		95.0				60.0		100.0	60.0		60.0	
Base Capacity (vph)		109	950	609		58	884	533	329	1115	583	
Starvation Cap Reductn		0	0	0		0	0	0	0	0	0	
Spillback Cap Reductn		0	0	0		0	0	0	0	0	0	
Storage Cap Reductn		0	0	0		0	0	0	0	0	0	
Reduced v/c Ratio		1.68	1.05	0.65		0.91	1.01	0.37	1.10	0.51	0.10	

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 23 (19%), Referenced to phase 2:NBT and 6:SBT, Start of Green  
 Natural Cycle: 95  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 2.16  
 Intersection Signal Delay: 94.9  
 Intersection LOS: F  
 Intersection Capacity Utilization 97.1%  
 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.

Splits and Phases: 3: Bank Street & Hunt Club Road



3: Bank Street & Hunt Club Road  
 South Keys Phase 1

Future (2041) Total Traffic  
 PM Peak Hour



Lane Group	SBL	SBT	SBR
v/c Ratio	2.16	0.94	0.44
Control Delay	573.1	47.5	14.2
Queue Delay	0.0	0.0	0.0
Total Delay	573.1	47.5	14.2
LOS	F	D	B
Approach Delay		126.2	
Approach LOS		F	
Queue Length 50th (m)	~49.1	59.1	4.8
Queue Length 95th (m)	#75.7	#163.5	32.7
Internal Link Dist (m)		117.8	
Turn Bay Length (m)	30.0		120.0
Base Capacity (vph)	114	1115	549
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	2.16	0.94	0.44
Intersection Summary			

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		↖	↗		↖	↗		↖	↕	↗		↗
Traffic Volume (vph)	155	1	132	82	0	101	2	158	709	92	4	146
Future Volume (vph)	155	1	132	82	0	101	2	158	709	92	4	146
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	0.0		0.0	0.0		40.0		45.0		0.0		70.0
Storage Lanes	0		1	0		1		1		0		1
Taper Length (m)	7.6			7.6				7.6				7.6
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	0.95	1.00
Ped Bike Factor		0.92	0.95		0.97	0.90			0.99			0.99
Fr <sub>t</sub>			0.850			0.850			0.983			
Fl <sub>t</sub> Protected		0.953			0.950			0.950				0.950
Satd. Flow (prot)	0	1717	1532	0	1572	1547	0	1729	3304	0	0	1712
Fl <sub>t</sub> Permitted		0.668			0.562			0.130				0.297
Satd. Flow (perm)	0	1110	1454	0	905	1394	0	237	3304	0	0	528
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			132			105			15			
Link Speed (k/h)		50			50				60			
Link Distance (m)		72.9			188.5				169.4			
Travel Time (s)		5.2			13.6				10.2			
Confl. Peds. (#/hr)	44		18	18		44		30		19		19
Confl. Bikes (#/hr)			4			1				2		
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	1%	0%	1%	10%	0%	0%	0%	0%	2%	1%	0%	1%
Adj. Flow (vph)	155	1	132	82	0	101	2	158	709	92	4	146
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	156	132	0	82	101	0	160	801	0	0	150
Turn Type	Perm	NA	Perm	Perm	NA	Perm	custom	pm+pt	NA		custom	pm+pt
Protected Phases		4			8			5	2			1
Permitted Phases	4		4	8		8	5	2			1	6
Detector Phase	4	4	4	8	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	10.0		5.0	5.0
Minimum Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	11.3	11.3	34.3		11.3	11.3
Total Split (s)	37.0	37.0	37.0	37.0	37.0	37.0	17.0	17.0	61.0		17.0	17.0
Total Split (%)	30.8%	30.8%	30.8%	30.8%	30.8%	30.8%	14.2%	14.2%	50.8%		14.2%	14.2%
Maximum Green (s)	30.9	30.9	30.9	30.9	30.9	30.9	10.7	10.7	54.7		10.7	10.7
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7		3.7	3.7
All-Red Time (s)	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6		2.6	2.6
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Lost Time (s)		6.1	6.1		6.1	6.1		6.3	6.3			6.3
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0			7.0			
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0			11.0			
Pedestrian Calls (#/hr)	0	0	0	0	0	0			0			
Act Effct Green (s)		22.0	22.0		22.0	22.0		75.2	65.3			73.5
Actuated g/C Ratio		0.18	0.18		0.18	0.18		0.63	0.54			0.61

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
Lane Configurations	↑↑	↑		
Traffic Volume (vph)	1258	326		
Future Volume (vph)	1258	326		
Ideal Flow (vphpl)	1800	1800		
Storage Length (m)		75.0		
Storage Lanes		1		
Taper Length (m)				
Lane Util. Factor	0.95	1.00		
Ped Bike Factor		0.93		
Fr <sub>t</sub>		0.850		
Fl <sub>t</sub> Protected				
Satd. Flow (prot)	3390	1547		
Fl <sub>t</sub> Permitted				
Satd. Flow (perm)	3390	1434		
Right Turn on Red		Yes		
Satd. Flow (RTOR)		295		
Link Speed (k/h)	60			
Link Distance (m)	264.5			
Travel Time (s)	15.9			
Confl. Peds. (#/hr)		30		
Confl. Bikes (#/hr)		5		
Peak Hour Factor	1.00	1.00		
Heavy Vehicles (%)	2%	0%		
Adj. Flow (vph)	1258	326		
Shared Lane Traffic (%)				
Lane Group Flow (vph)	1258	326		
Turn Type	NA	Perm		
Protected Phases	6		3	7
Permitted Phases		6		
Detector Phase	6	6		
Switch Phase				
Minimum Initial (s)	10.0	10.0	3.0	3.0
Minimum Split (s)	34.3	34.3	5.0	5.0
Total Split (s)	61.0	61.0	5.0	5.0
Total Split (%)	50.8%	50.8%	4%	4%
Maximum Green (s)	54.7	54.7	3.0	3.0
Yellow Time (s)	3.7	3.7	2.0	2.0
All-Red Time (s)	2.6	2.6	0.0	0.0
Lost Time Adjust (s)	0.0	0.0		
Total Lost Time (s)	6.3	6.3		
Lead/Lag	Lag	Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0
Recall Mode	C-Max	C-Max	Max	Max
Walk Time (s)	7.0	7.0		
Flash Dont Walk (s)	11.0	11.0		
Pedestrian Calls (#/hr)	0	0		
Act Effct Green (s)	64.4	64.4		
Actuated g/C Ratio	0.54	0.54		

4: Bank Street & Dazé Street/Cahill Drive  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
v/c Ratio		0.77	0.35		0.50	0.30		0.59	0.44			0.36
Control Delay		69.4	8.8		52.5	8.7		32.9	15.5			11.1
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0			0.0
Total Delay		69.4	8.8		52.5	8.7		32.9	15.5			11.1
LOS		E	A		D	A		C	B			B
Approach Delay		41.7			28.3				18.4			
Approach LOS		D			C				B			
Queue Length 50th (m)		35.2	0.0		17.5	0.0		25.9	41.2			11.6
Queue Length 95th (m)		54.3	14.9		31.1	12.6		m41.8	m54.3			24.2
Internal Link Dist (m)		48.9			164.5				145.4			
Turn Bay Length (m)						40.0		45.0				70.0
Base Capacity (vph)		285	472		233	436		290	1804			436
Starvation Cap Reductn		0	0		0	0		0	0			0
Spillback Cap Reductn		0	0		0	0		0	0			0
Storage Cap Reductn		0	0		0	0		0	0			0
Reduced v/c Ratio		0.55	0.28		0.35	0.23		0.55	0.44			0.34

Intersection Summary

Area Type: Other  
 Cycle Length: 120  
 Actuated Cycle Length: 120  
 Offset: 14 (12%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.77  
 Intersection Signal Delay: 21.8  
 Intersection LOS: C  
 Intersection Capacity Utilization 92.7%  
 ICU Level of Service F  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: Bank Street & Dazé Street/Cahill Drive





4: Bank Street & Dazé Street/Cahill Drive  
 South Keys Phase 1

Future (2041) Total Traffic  
 PM Peak Hour



Lane Group	SBT	SBR	Ø3	Ø7
v/c Ratio	0.69	0.36		
Control Delay	24.7	4.3		
Queue Delay	0.0	0.0		
Total Delay	24.7	4.3		
LOS	C	A		
Approach Delay	19.7			
Approach LOS	B			
Queue Length 50th (m)	110.9	3.4		
Queue Length 95th (m)	161.0	20.9		
Internal Link Dist (m)	240.5			
Turn Bay Length (m)		75.0		
Base Capacity (vph)	1819	906		
Starvation Cap Reductn	0	0		
Spillback Cap Reductn	0	0		
Storage Cap Reductn	0	0		
Reduced v/c Ratio	0.69	0.36		
Intersection Summary				

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Traffic Volume (vph)	80	3	221	2	4	13	195	199	18	1	21	295
Future Volume (vph)	80	3	221	2	4	13	195	199	18	1	21	295
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	40.0		0.0	0.0		0.0	70.0		0.0		40.0	
Storage Lanes	1		0	1		0	1		0		1	
Taper Length (m)	2.5			2.5			2.5				2.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99	0.98		1.00	0.98		1.00	1.00			0.99	0.99
Fr <sub>t</sub>		0.852			0.885			0.988				0.951
Fl <sub>t</sub> Protected	0.950			0.950			0.950				0.950	
Satd. Flow (prot)	1729	1523	0	1729	1585	0	1729	3377	0	0	1729	3229
Fl <sub>t</sub> Permitted	0.746			0.389			0.442				0.616	
Satd. Flow (perm)	1346	1523	0	706	1585	0	802	3377	0	0	1113	3229
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		221			13			12				75
Link Speed (k/h)		30			30			50				50
Link Distance (m)		107.1			73.7			57.4				76.4
Travel Time (s)		12.9			8.8			4.1				5.5
Confl. Peds. (#/hr)	6		3	3		6	3		5		5	
Confl. Bikes (#/hr)			2						1			
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%
Adj. Flow (vph)	80	3	221	2	4	13	195	199	18	1	21	295
Shared Lane Traffic (%)												
Lane Group Flow (vph)	80	224	0	2	17	0	195	217	0	0	22	437
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		custom	pm+pt	NA
Protected Phases		4			8		5	2				1
Permitted Phases	4			8			2			1	6	
Detector Phase	4	4		8	8		5	2		1	1	6
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		5.0	10.0		5.0	5.0	10.0
Minimum Split (s)	28.1	28.1		28.1	28.1		10.9	32.9		10.9	10.9	32.9
Total Split (s)	36.1	36.1		36.1	36.1		35.0	58.0		15.9	15.9	38.9
Total Split (%)	32.8%	32.8%		32.8%	32.8%		31.8%	52.7%		14.5%	14.5%	35.4%
Maximum Green (s)	30.0	30.0		30.0	30.0		29.1	52.1		10.0	10.0	33.0
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	2.8	2.8		2.8	2.8		2.6	2.6		2.6	2.6	2.6
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	6.1	6.1		6.1	6.1		5.9	5.9			5.9	5.9
Lead/Lag							Lead	Lag		Lead	Lead	Lag
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None		None	Max		None	None	Max
Walk Time (s)	7.0	7.0		7.0	7.0			15.0				15.0
Flash Dont Walk (s)	15.0	15.0		15.0	15.0			12.0				12.0
Pedestrian Calls (#/hr)	0	0		0	0			0				0
Act Effct Green (s)	11.4	11.4		11.4	11.4		56.3	52.6			48.2	42.3
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.70	0.65			0.60	0.53

5: Dazé Street & South Keys SC  
 South Keys Phase 1

Future (2041) Total Traffic  
 PM Peak Hour

Lane Group	SBR
Lane Configurations	
Traffic Volume (vph)	142
Future Volume (vph)	142
Ideal Flow (vphpl)	1800
Storage Length (m)	0.0
Storage Lanes	0
Taper Length (m)	
Lane Util. Factor	0.95
Ped Bike Factor	
Flt	
Flt Protected	
Satd. Flow (prot)	0
Flt Permitted	
Satd. Flow (perm)	0
Right Turn on Red	Yes
Satd. Flow (RTOR)	
Link Speed (k/h)	
Link Distance (m)	
Travel Time (s)	
Confl. Peds. (#/hr)	3
Confl. Bikes (#/hr)	
Peak Hour Factor	1.00
Heavy Vehicles (%)	1%
Adj. Flow (vph)	142
Shared Lane Traffic (%)	
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Detector Phase	
Switch Phase	
Minimum Initial (s)	
Minimum Split (s)	
Total Split (s)	
Total Split (%)	
Maximum Green (s)	
Yellow Time (s)	
All-Red Time (s)	
Lost Time Adjust (s)	
Total Lost Time (s)	
Lead/Lag	
Lead-Lag Optimize?	
Vehicle Extension (s)	
Recall Mode	
Walk Time (s)	
Flash Dont Walk (s)	
Pedestrian Calls (#/hr)	
Act Effct Green (s)	
Actuated g/C Ratio	

5: Dazé Street & South Keys SC  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
v/c Ratio	0.42	0.55		0.02	0.07		0.30	0.10			0.03	0.25
Control Delay	40.3	11.0		32.5	19.7		5.2	6.2			4.4	9.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Delay	40.3	11.0		32.5	19.7		5.2	6.2			4.4	9.2
LOS	D	B		C	B		A	A			A	A
Approach Delay		18.7			21.1			5.7				8.9
Approach LOS		B			C			A				A
Queue Length 50th (m)	10.4	0.4		0.2	0.5		7.4	3.8			0.8	13.6
Queue Length 95th (m)	26.0	19.2		2.3	6.3		16.5	13.1			2.9	26.1
Internal Link Dist (m)		83.1			49.7			33.4				52.4
Turn Bay Length (m)	40.0						70.0				40.0	
Base Capacity (vph)	506	711		265	604		905	2211			803	1735
Starvation Cap Reductn	0	0		0	0		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.16	0.32		0.01	0.03		0.22	0.10			0.03	0.25

Intersection Summary

Area Type: Other  
 Cycle Length: 110  
 Actuated Cycle Length: 80.4  
 Natural Cycle: 75  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 0.55  
 Intersection Signal Delay: 10.5  
 Intersection LOS: B  
 Intersection Capacity Utilization 64.1%  
 ICU Level of Service C  
 Analysis Period (min) 15

Splits and Phases: 5: Dazé Street & South Keys SC





Lane Group	SBR
v/c Ratio	
Control Delay	
Queue Delay	
Total Delay	
LOS	
Approach Delay	
Approach LOS	
Queue Length 50th (m)	
Queue Length 95th (m)	
Internal Link Dist (m)	
Turn Bay Length (m)	
Base Capacity (vph)	
Starvation Cap Reductn	
Spillback Cap Reductn	
Storage Cap Reductn	
Reduced v/c Ratio	
Intersection Summary	

6: Dazé Street & Proposed Access  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑↑	↑↑	
Traffic Vol, veh/h	0	12	0	412	502	17
Future Vol, veh/h	0	12	0	412	502	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	0	412	502	17

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	260	-	0	0
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-
Pot Cap-1 Maneuver	0	745	0	-	-
Stage 1	0	-	0	-	-
Stage 2	0	-	0	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	745	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT EBLn1	SBT	SBR
Capacity (veh/h)	- 745	-	-
HCM Lane V/C Ratio	- 0.016	-	-
HCM Control Delay (s)	- 9.9	-	-
HCM Lane LOS	- A	-	-
HCM 95th %tile Q(veh)	- 0	-	-

7: Dazé Street & Existing Access  
South Keys Phase 1

Future (2041) Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗	↖	↑↑	↑↑	
Traffic Vol, veh/h	0	27	37	412	502	0
Future Vol, veh/h	0	27	37	412	502	0
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	15	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	27	37	412	502	0

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	-	251	502	0	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-
Critical Hdwy	-	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-
Follow-up Hdwy	-	3.3	2.2	-	-
Pot Cap-1 Maneuver	0	755	1073	-	-
Stage 1	0	-	-	-	-
Stage 2	0	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	-	755	1073	-	-
Mov Cap-2 Maneuver	-	-	-	-	-
Stage 1	-	-	-	-	-
Stage 2	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.9	0.7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1073	-	755	-	-
HCM Lane V/C Ratio	0.034	-	0.036	-	-
HCM Control Delay (s)	8.5	-	9.9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

## Appendix J – Auxiliary Lane Analysis

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Daze Street & '3/4' Access - Future (2041) Total Traffic Conditions AM - NBL Movement

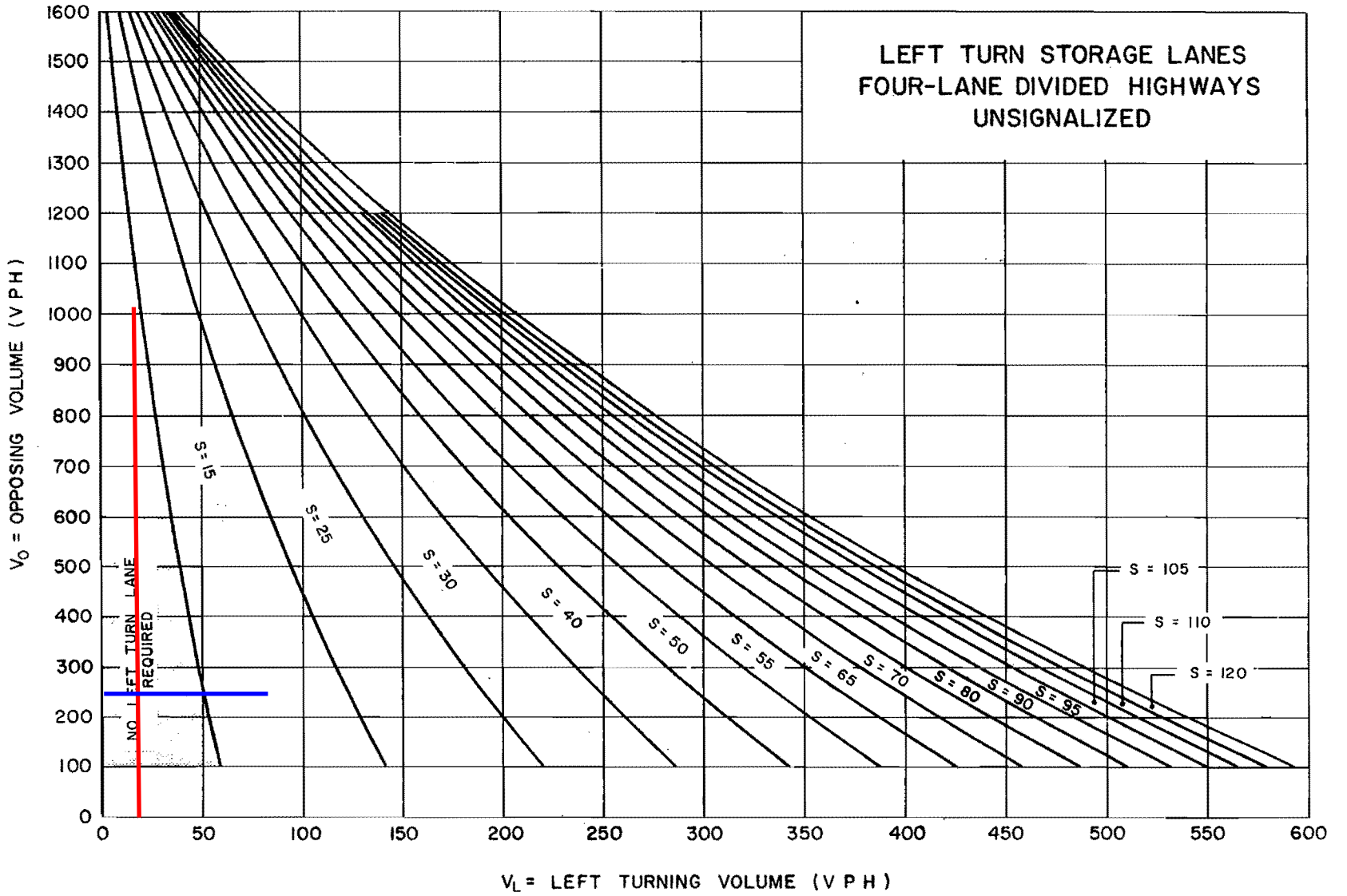


Figure EC-1

Daze Street & '3/4' Access - Future (2041) Total Traffic Conditions PM - NBL Movement

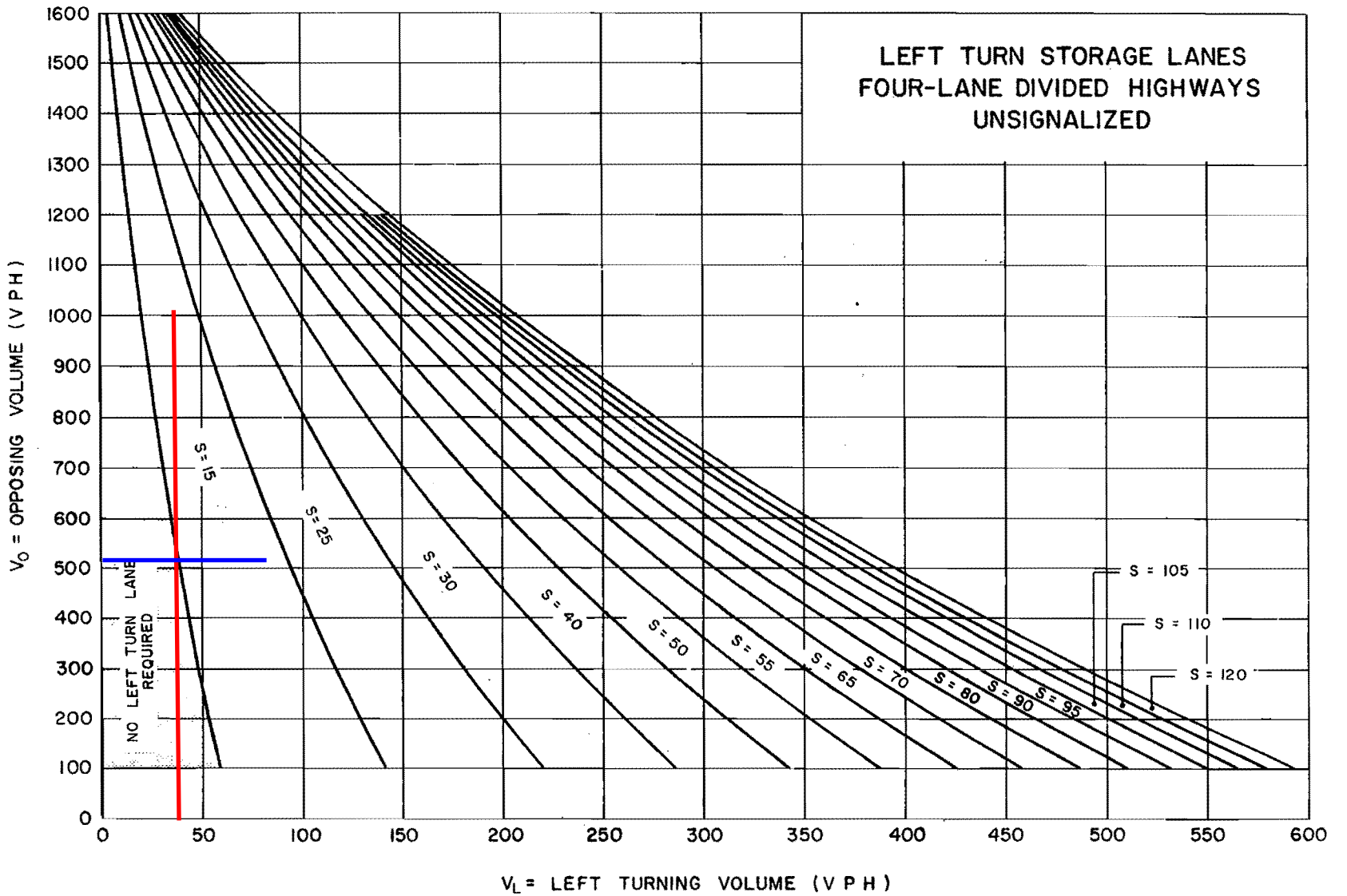
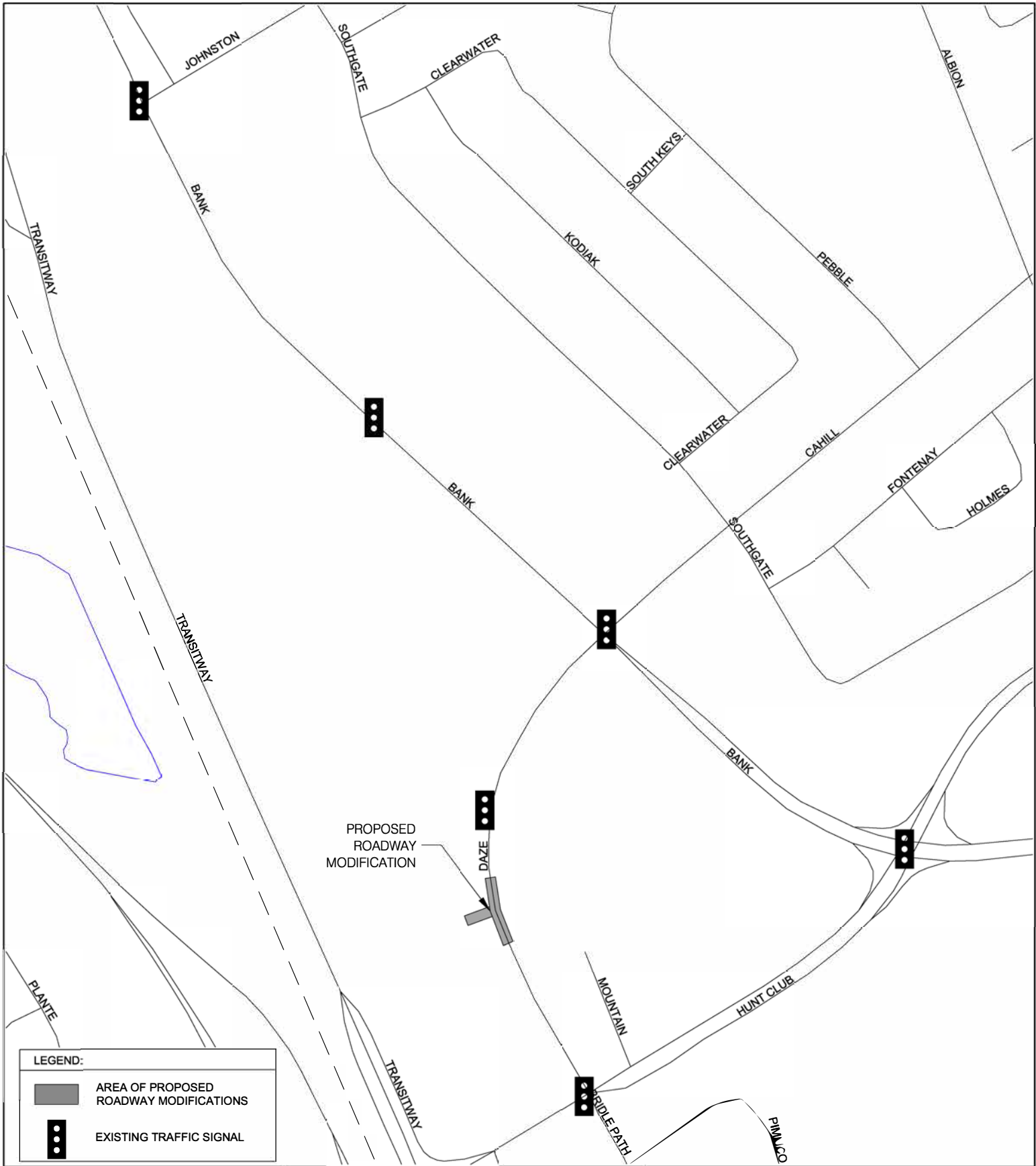


Figure EC-1

## Appendix K – RMA Drawings

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KEY PLAN

**DRAFT -  
DAZE STREET MEDIAN  
ADJUSTMENT  
(2200 BANK STREET)**

**Transportation Engineering Services**

Approved By:

Drawing No.:

Completed By:

**ARCADIS**

**RMA-2021-TPD-0XXA**

Scale:

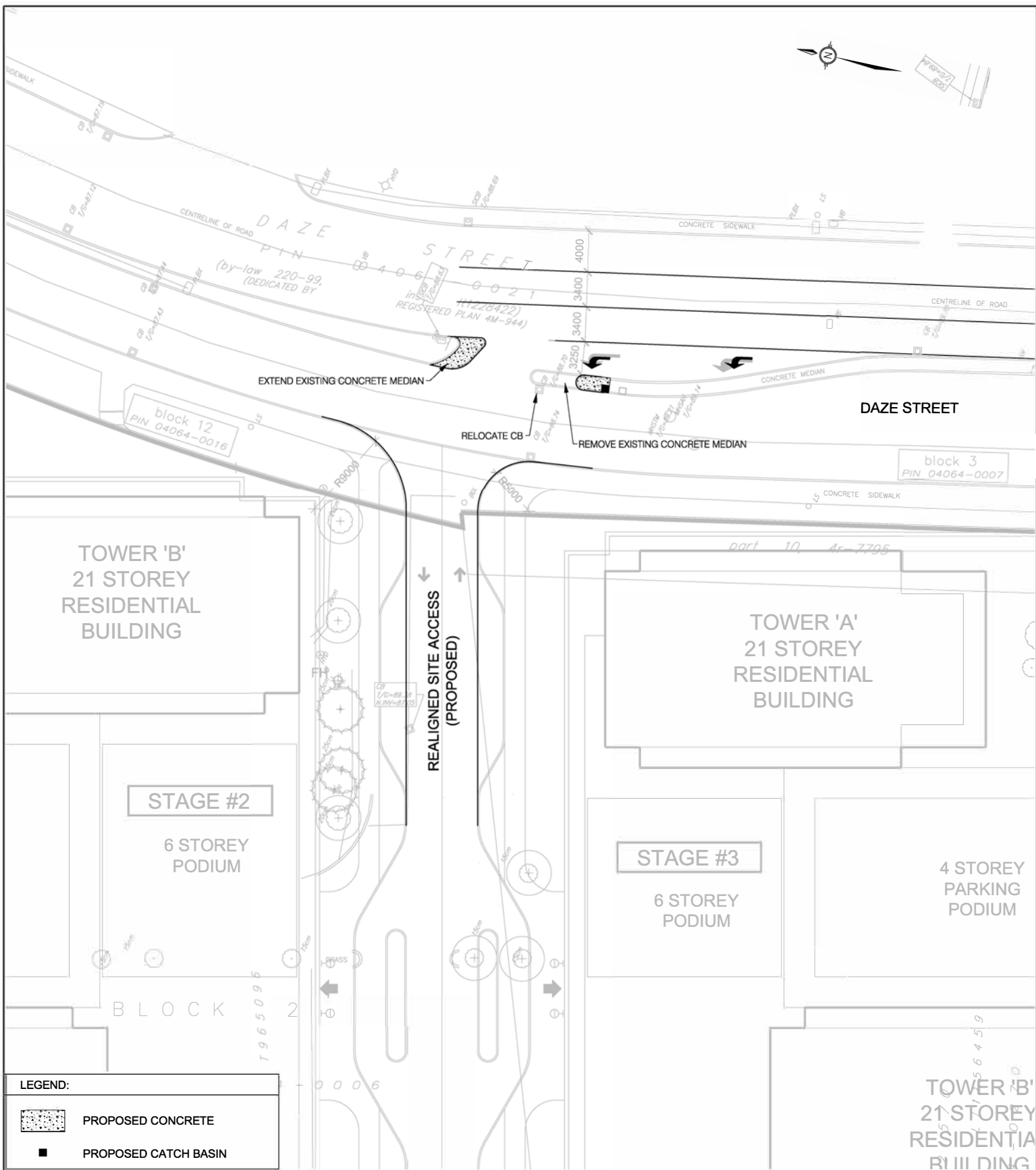
N.T.S.

Date:

**SEP.  
2021**



**PLANNING AND GROWTH  
MANAGEMENT**



**PLANNING AND GROWTH  
MANAGEMENT**

**PROPOSED ROADWAY MODIFICATION**

**DRAFT -  
DAZE STREET MEDIAN  
ADJUSTMENT  
(2200 BANK STREET)**

<b>Transportation Engineering Services</b>	
Approved By: ---	Drawing No.:
Completed By: ARCADIS	RMA-2021-TPD-0XXB
Scale: N.T.S.	