

1055 ALSTON STREET

Traffic Impact Assessment



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Prepared For: Sakura Property Development

Date: July 17, 2023 Our File No: 3550.B01

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TABLE OF CONTENTS

1.0	INTR	ODUCTION	3
	1.1	Study Area	3
	1.2	The Site Today	3
	1.3	Proposed Development	3
	1.4	This Report	3
2.0	TRAN	ISPORTATION CONTEXT	6
	2.1	Land Use	6
	2.2	Road Network	6
	2.3	Transit Network	8
	2.4	Cycling Network	11
	2.5	Pedestrian Environment	11
	2.6	Area Travel Characteristics	13
3.0	DEVE	LOPMENT PROPOSAL	14
	3.1	Site Access	14
	3.2	Sight Distance	14
	3.3	Loading Operations	15
	3.4	Parking Garage Lobby	15
4.0	TRAF	FIC VOLUMES	16
	4.1	Traffic Analysis Scenarios and Design Periods	16
	4.2	Existing Traffic Intersection Analysis	16
	4.3	Background Traffic Volumes	18
	4.4	Site Traffic Volumes	18
	4.5	Post-Development Traffic Volumes	20
5.0	TRAF	FIC OPERATIONS ANALYSIS	23
	5.1	Methodology	23
	5.2	Input and Calibration Parameters	23
	5.3	Existing Traffic Operations	23
	5.4	Post Development Traffic Operations	24
6.0	CONG	CLUSIONS	26
7.0	RFCC	MMFNDATIONS	26



FIGURES

Figure 1 – Site Location	5
Figure 2 – Existing Area Road Network	
Figure 3 – Area Transit Network	10
Figure 4 – Area Cycling Network	12
Figure 5 – Existing Traffic Volumes	17
Figure 6 - Site Traffic Volumes	21
Figure 7 – Opening Day Post Development Traffic Volumes	22
TABLES	
Table 1 – Existing Mode Share	13
Table 2 - Development Proposal	14
Table 3 – Existing Traffic Count Information	
Table 4 – Vehicle Trip Generation Rates	19
Table 5 – Site Traffic Distribution	
Table 6 – Existing Traffic Operations	24
Table 7 – Opening Day Post Development Traffic Operations	25

APPENDICES

Appendix A – Site Plan

Appendix B – Synchro Background

Appendix C – Synchro Reports



1.0 INTRODUCTION

Watt Consulting Group was retained by Sakura Property Development to conduct a Traffic Impact Assessment (TIA) for the proposed residential development at 1055 Alston Street in the City of Victoria. This study assesses the traffic impacts of the proposed land use, reviews traffic conditions at key intersections, and assesses the need for any mitigation measures. The study reviews the existing traffic operations along with the post development and long-term conditions for all modes of transportation.

1.1 Study Area

See **Figure 1** for the study area and location. The study area includes the site accesses and following intersections:

- Skinner Street / Alston Street
- Skinner Street / Tyee Road

1.2 The Site Today

The site today has one commercial business with a parking lot.

1.3 Proposed Development

The proposed development consists of a 6-storey, 56-unit condo building with 906 m² of basement level commercial/industrial space.

1.4 This Report

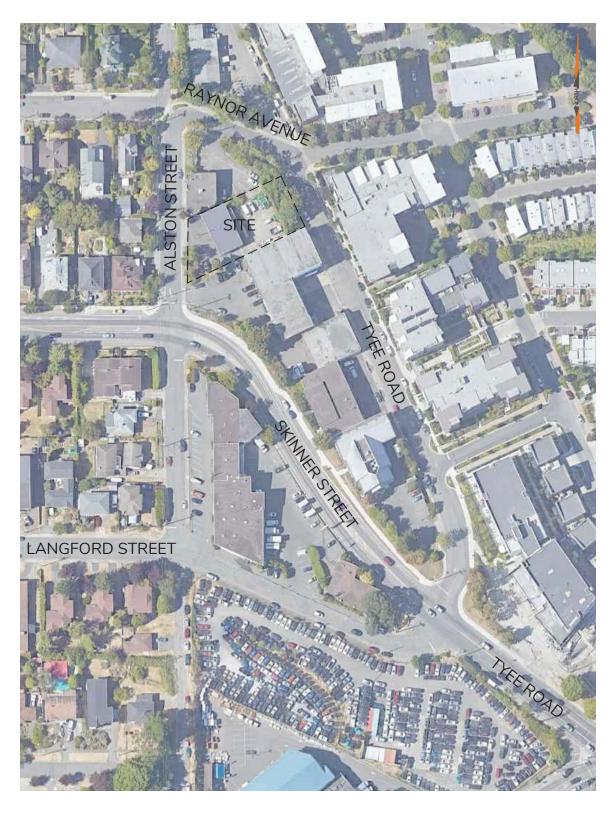
This report is provided as part of the Zoning Bylaw Amendment application being submitted to the City of Victoria. It provides the following:

- An overview of the existing and evolving transportation context in the vicinity of the site, including vehicular, pedestrian, cycling, and transit facilities.
- An overview of the proposed development programme.
- An assessment of the existing traffic activity patterns and volumes in the study area during the weekday morning and afternoon peak periods.
- A comprehensive review of the vehicular traffic volume changes that may occur in the area in the future with the construction of other area development projects.
- An assessment of the trip generation and assignment characteristics of the proposed development.



 A review of vehicular traffic operations at intersections in the area under existing and future conditions, including an assessment of the operational impacts of the proposed development.







2.0 TRANSPORTATION CONTEXT

2.1 Land Use

The site is located north of Skinner Street between Alston Street and Tyee Road. The proposed site is currently zoned as Songhees Light Industrial District (M2-S) and is proposed to be re-zoned to allow a mixed-use (industrial and residential) development. The surrounding land use is a mix of apartments/condos, low-rise residential, and commercial.

2.2 Road Network

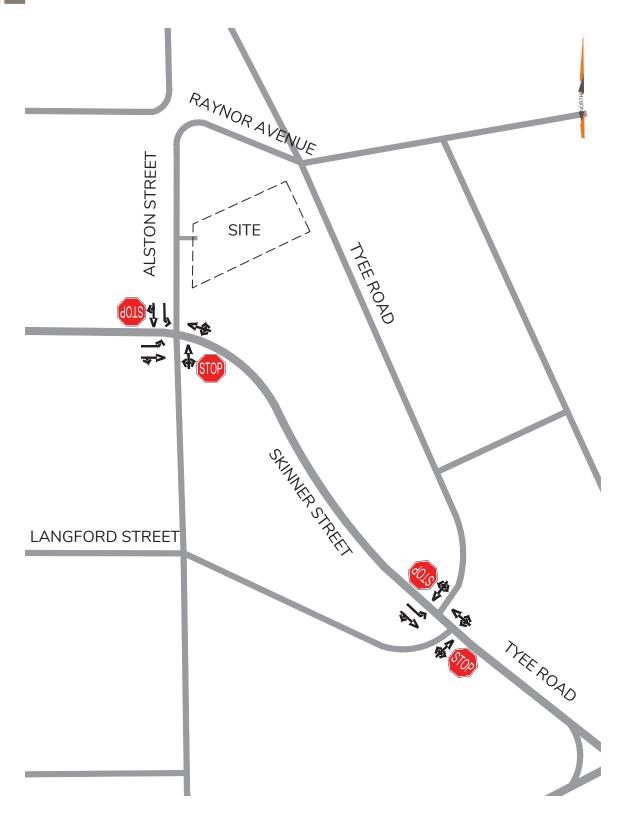
The existing road network, lane configuration and intersection control are illustrated in **Figure 2**.

- Alston Street is an undivided, two-lane, urban local road that runs north/south
 within the study area. There are no bicycle lanes and there is parking on the
 northeast side of the street by the proposed site.
- Skinner Street is a two-lane, collector road that runs east/west within the study area. There are bicycle lanes on both sides of the street and parking is allowed on lay-bys along the street.
- Tyee Road is an undivided, two-lane local road that runs north/south within the study area. There are no bicycle lanes, and parking is allowed on both sides of the street.

The speed limit on all study roads is 30 km/h. Two key intersections were identified within the study area:

- **Skinner Street / Alston Street** is a four-leg, stop-controlled intersection. The eastbound and westbound approaches are free flow, and the northbound and southbound approaches are stop-controlled. The eastbound and southbound approaches have a separate left turn lane.
- **Skinner Street** / **Tyee Road** is a three-leg, stop-controlled intersection. The eastbound and westbound approaches are free flow, and the southbound approach is stop-controlled. The eastbound approach has a separate left turn lane and east of the intersection the eastbound approach widens to two through lanes.







2.3 Transit Network

2.3.1 Existing Transit Network

The area transit network is illustrated in **Figure 3**.

Route 10 – James Bay / Royal Jubilee operates between the Legislature in James Bay and the Royal Jubilee Hospital, passing through central Victoria. The closest stop is approximately 500 metres (i.e., a 6-minute walk) from the site at Bay Street / Wilson Street. Buses operate at 30-to-60-minute headways on weekdays and 60-minute headways on weekends.

Route 14 – Vic General / UVic operates between the University of Victoria and the Victoria General Hospital, passing by the Oak Bay Junction. The closest stop is approximately 190 metres (i.e., a 2-minute walk) from the site at Skinner Street / Catherine Street. Buses operate at 15-to-30-minute headways on weekdays and Saturdays, and 20-to-30-minute headways on Sundays.

Route 15 – Esquimalt / UVic operates between the University of Victoria and the HMC Dockyard, passing by the Oak Bay Junction. The closest stop is approximately 700 metres (i.e., a 9-minute walk) from the site at Esquimalt Road / Catherine Street. Buses operate at 15-to-30-minute headways on weekdays, and 20-to-30-minute headways on weekends.

Route 24 – Cedar Hill / Tillicum Centre operates between the Tillicum Centre Mall and the McKenzie Avenue / Shelbourne Street, passing the Admirals Walk Shopping Centre and the Cedar Hill Middle School. The closest stop is approximately 400 metres (i.e., a 4-minute walk) from the site at Wilson Street / Bay Street. Buses operate at 30-to-80-minute headways on weekdays, 50-to-80-minute headways on Saturdays, and 50-to-80-minute headways on Sundays.

Route 25 – Maplewood / Tillicum Centre – operates between the Tillicum Centre Mall and the Saanich Centre, passing the Admirals Walk Shopping Centre. The closest stop is approximately 700 metres (i.e., a 9-minute walk) from the site at Esquimalt Road / Catherine Street. Buses operate at 50-to-80-minute headways on weekdays and Saturdays, and 80-minute headways on Sundays.



2.3.2 Evolving Transit Network

BC Transit is collaborating with municipal, regional, and provincial partners to develop the Victoria Regional RapidBus Implementation Strategy. RapidBus routes are planned to operate two-ways, 18-20 hours per day, 7 days a week. Phase 1 is complete and includes the Westshore Line which will run from Langford to Victoria's Downtown Core. The implementation plan lists as one of its long-term priorities the conversion of Route 15 (Esquimalt/UVic) into a potential corridor for future RapidBus service.







2.4 Cycling Network

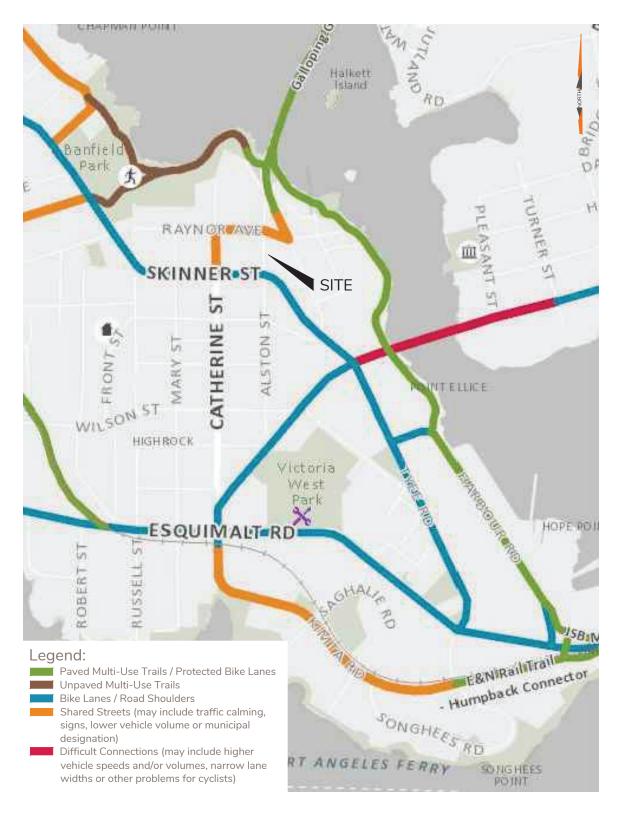
The site currently has excellent cycling facilities in its immediate vicinity. Skinner Road has on-street bike lanes, as well as the close by streets of Tyee Road from Esquimalt Road to Skinner Street, Bay Street, Craigflower Road, and Esquimalt Road. Shared streets are available on Catherine Street between Skinner Street and Raynor Avenue, Raynor Avenue between Catherines Street and Tyee Road, and Tyee Road from Regatta Landing to where it connects to Galloping Goose Regional Trail. These facilities provide access to a variety of commercial and employment destinations in the area, as well as the Galloping Goose Regional Trail and the E&N Rail Trail, which provide connections for cyclists across the Greater Victoria Area as a whole. The area cycling network is illustrated in **Figure 4**.

2.5 Pedestrian Environment

Pedestrian infrastructure around the site is very good. Alston Street has sidewalks on both sides of the street until south of Langford Street and Skinner Street has sidewalks on both sides of the street.

This site has great existing pedestrian infrastructure to all key destinations in the area. There are no gaps in the sidewalk network in the vicinity. At the north end of Alston Street there is a pedestrian connection to Raynor Avenue that links up to Banfield Park and there are multiple connections to the Galloping Goose Regional Trail within 100 metres of the site. There is an existing signalized intersection at Catherine Street / Skinner Street that offers crossing opportunities to the west for pedestrians travelling to / from the Victoria West Elementary School. To the south the Westside Village Shopping Centre can be safely accessed by the signalized intersection at Bay Street / Tyee Road.







2.6 Area Travel Characteristics

2.6.1 Existing Area Travel Characteristics

The 2017 CRD Household Travel Survey provides information on area travel characteristics for southern Vancouver Island. **Table 1** outlines the mode share for the area.

Table 1 – Existing Mode Share

Mode	AM Peak	PM Peak
Auto Driver	56%	53%
Auto Passenger	15%	11%
Transit	9%	12%
Bicycle	7%	11%
Walk	13%	12%
Other	1%	1%

Notes:

- 1. Based on 2017 CRD Household Travel Survey data for District 6 Victoria North
- 2. Travel mode split calculation based on overall number of trips to, from, and within district.

2.6.2 Evolving Area Travel Characteristics

The December 2020 Go Victoria – Sustainable Mobility Strategy outlines mode share targets that the City of Victoria is aiming for to reduce GHG emissions and energy use. The City would like to double transit ridership and have 55% of all trips to, from, and within the City be by walking, rolling, or cycling by 2030.



3.0 DEVELOPMENT PROPOSAL

The proposed development at 1055 Alston Street consists of a 6-storey, 56-unit condo building with 906 m² of basement level commercial/industrial. **Table 2** outlines the development programme and transportation-related elements of the proposed site plan. The architectural site plan is provided in **Appendix A**.

Table 2 - Development Proposal

Site Element	Det	ails
Residential Units	56 เ	units
Commercial/Industrial	906	S m ²
	Regular	17 spaces
Vehicular Parking Supply	Accessible	2 spaces
	Total	19 spaces
Bicycle Parking Supply	65 sp	paces
Loading Operations		n the Tyee Road. Maneuvering g in the industrial basement.
Vehicular Access	·	l from Alston Street. Industrial d from Tyee Road.
Cyclist Access	garage in the southeast corn	accessible within the parking er and from a stairwell with a southwest corner.
Pedestrian Access		dential lobby is provided from Street.

Notes: Site statistics based on architectural site plans prepared by dHKarchitects, dated March 30, 2023.

3.1 Site Access

Access to the underground parking garage for residents is provided from a full movement driveway on Alston Street. Access to the industrial portion of the site is provided from a full movement driveway on Tyee Road. Both driveways comply with the Highway Access Bylaw.

3.2 Sight Distance

To promote safety and visibility between pedestrians and motorists when entering and leaving the right of way a 3.0 metre x 3.0 metre sight triangle is required on each side of the driveway crossing. Both driveways as designed exceed this distance.



3.3 Loading Operations

Loading space is provided in the industrial basement accessed from Tyee Road. Maneuvering space within the site is limited and the contemplated uses for the space are such that large trucks are not anticipated, so maneuvering for industrial loading operations will happen on the street.

3.4 Parking Garage Lobby

Access to the lobby in the parking garage is provided from a door located at the bottom of the entrance ramp behind the garage door from Alston Street. This is a major safety issue. It is recommended that the lobby access be moved to the side or that an alcove or marked walkway be added so that access to the lobby can be provided out of the way of active vehicle traffic.



4.0 TRAFFIC VOLUMES

4.1 Traffic Analysis Scenarios and Design Periods

Traffic operations analyses have been undertaken for the weekday morning and afternoon peak hours under the following conditions:

- Existing traffic traffic activity under current conditions
- Post-development traffic traffic activity levels into the future with the site redeveloped and projected site generated traffic added to the road network.

Traffic operations are discussed in the following sections for these scenarios:

- Existing conditions
- Opening day post-development conditions

4.2 Existing Traffic Intersection Analysis

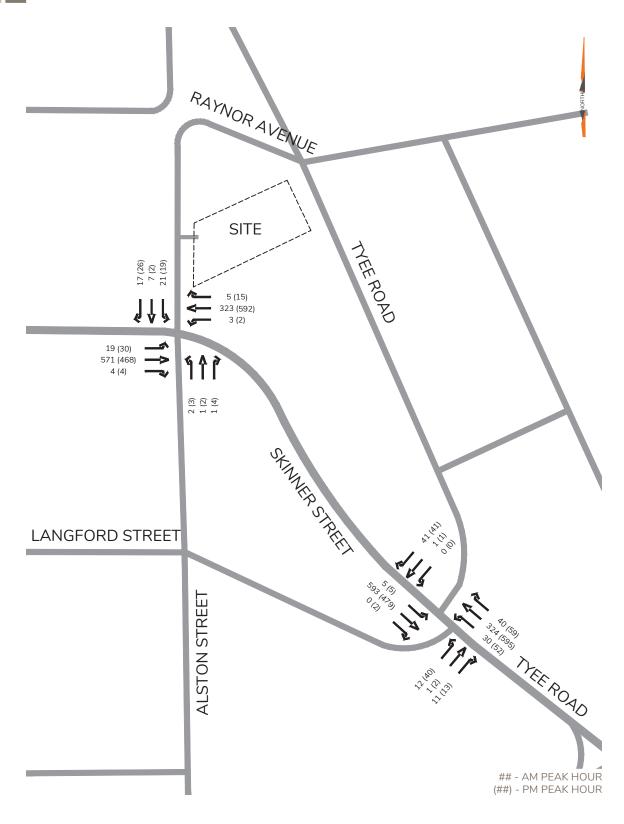
Base existing turning movement volumes were established for intersections within the study area for the weekday morning and afternoon peak periods. Traffic count information adopted as the basis for the traffic operations analysis is summarized in **Table 3**.

Table 3 – Existing Traffic Count Information

Intersection	Date of Count	Source
Skinner Street / Alston Street	May 31, 2023	WATT
Skinner Street / Tyee Road / Langford Street	May 31, 2023	WATT

The existing turning movement counts were reviewed in detail to ensure general consistency in the traffic volumes between intersections. The existing area traffic volumes for the weekday morning and afternoon peak hours are illustrated in **Figure 5**.







4.3 Background Traffic Volumes

No concurrent background developments were requested for this analysis. City of Victoria's Screenline (2019) shows traffic volumes are not increasing and may be decreasing at times; therefore, the corridor growth on all streets in the study area was forecast using a 0.0% annual linear growth rate.

Based on the above, background traffic volumes into the future are assumed to be generally consistent with existing conditions and have not been analysed as part of this study.

4.4 Site Traffic Volumes

4.4.1 New Site Trip Generation

The proposed site includes 56 residential condo units and 906 m² of basement level light industrial. Vehicular trip generation rates for the proposed development are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition).

The trip generation forecast is summarized in **Table 4**.



Table 4 – Vehicle Trip Generation Rates

ITE Trip G	Generation	Manual 1:	1th Edition	Rates		
Land Use		AM			PM	
Land Ose	In	Out	2-Way	In	Out	2-Way
Multifamily Housing (Mid-Rise) (Not Close to Rail Transit) (LU 221) ^[1]	0.09	0.28	0.37	0.24	0.15	0.39
General Light Industrial (All Sites) (LU 110) ^[2]	0.65	0.09	0.74	0.09	0.56	0.65
	Vehicular	Trip Gene	eration			
Land Use		AM			PM	
Land OSE	In	Out	2-Way	In	Out	2-Way
Residential (56 units)	5	16	21	13	9	22
Commercial (9,752 ft² GFA)	6	1	7	1	5	6
Total	11	17	28	14	14	28

Notes:

- 1. Trip rates are per dwelling unit
- 2. Trip rates are per 1000 ft² GFA

The proposed development is forecast to generate 28 two-way trips in both the weekday morning and afternoon peak hours.

4.4.2 Trip Distribution and Assignment

The trip distribution pattern for site-generated traffic was established based on the person-trip OD matrix for the City of Victoria provided in the 2017 CRD Household Travel Survey. The residential units will have driveway access on Alston Street and the industrial parking will be accessed from Tyee Road. The distribution of inbound and outbound traffic adopted for the proposed development is outlined in **Table 5**.



Table 5 – Site Traffic Distribution

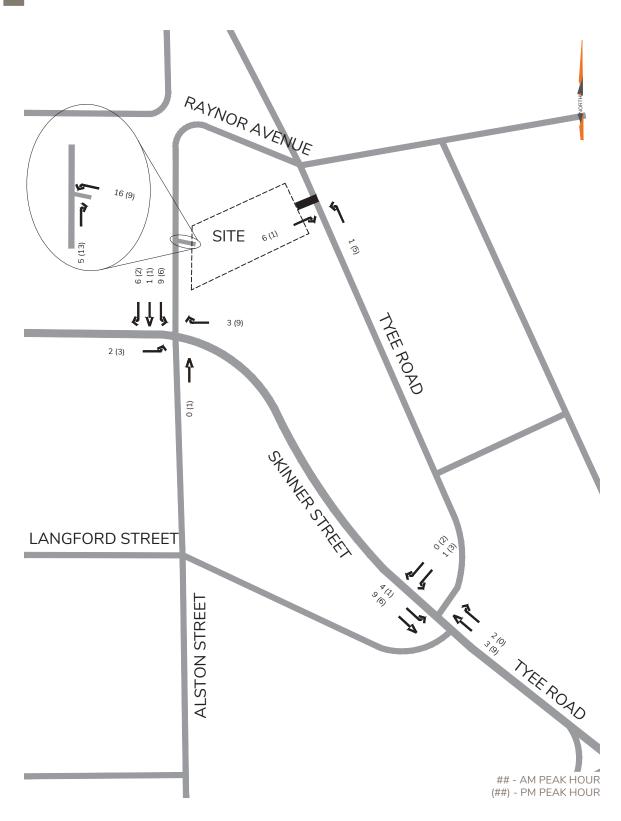
	1055 Alsto	on Street	
Street	Direction	Total To	rips (%)
Street	Direction	AM	PM
	East	60	70
Skinner Street	West	35	25
Alston Street	South	5	5

The site traffic volumes assigned to the area road network are illustrated in Figure 6.

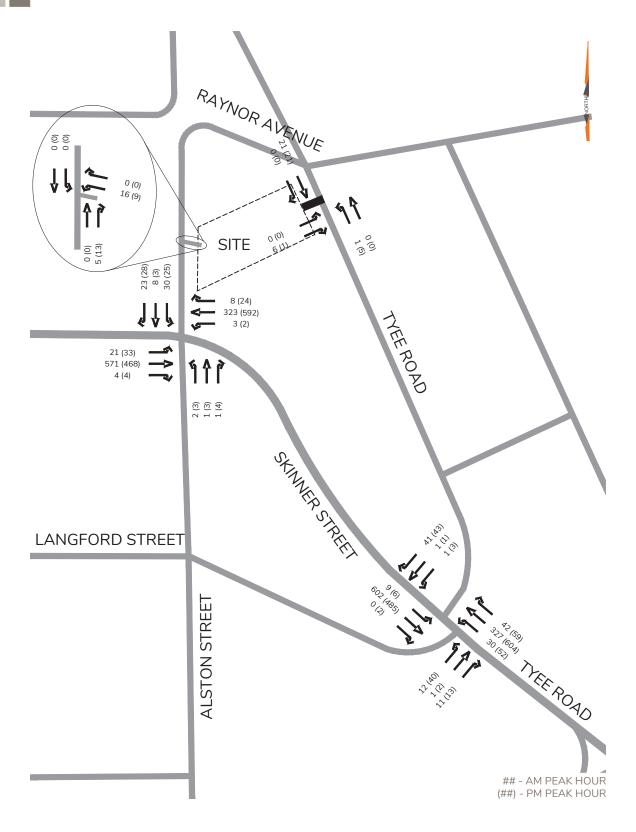
4.5 Post-Development Traffic Volumes

Post-development traffic volumes are the sum of the existing traffic volumes and the new site traffic volumes. Post-development traffic volumes for opening day are illustrated in **Figure 7**.











5.0 TRAFFIC OPERATIONS ANALYSIS

5.1 Methodology

Analysis of the traffic conditions at the intersections within the study area were undertaken using Synchro software (for signalized and stop-controlled intersections). Synchro / SimTraffic is a two-part traffic modelling software that provides analysis of traffic conditions based on traffic control, geometry, volumes, and traffic operations. Synchro software is used because of its ability to provide analysis using the Highway Capacity Manual (6th edition) methodology, while SimTraffic integrates established driver behaviours and characteristics to simulate actual conditions by randomly "seeding" or positioning vehicles travelling throughout the network. These measures of effectiveness include Level of Service (LOS), delay (s/veh), 95th percentile queue length, and v/c ratios.

The delays and type of traffic control are used to determine the LOS. The LOS is broken down into six letter grades with LOS A being excellent operations and LOS F being unstable / failure operations. LOS C is generally considered to be an acceptable LOS by most municipalities. LOS D is generally considered to be on the threshold between acceptable and unacceptable operations. A description of LOS and Synchro is provided in **Appendix B**. The Synchro reports are provided in **Appendix C**.

5.2 Input and Calibration Parameters

Heavy Vehicle Assumptions

Heavy and medium truck percentages incorporated into the analysis were based on intersection turning movement counts. Where not available, a default value of 2 percent heavy vehicles was assumed.

Peak Hour Factor

Peak hour factors for each intersection were calculated from the existing traffic count information. Where these values were unavailable, a default peak hour factor of 0.90 was adopted for all movements.

5.3 Existing Traffic Operations

Existing conditions were analyzed based on the collected 2023 volumes and existing roadway network. A summary of the traffic analysis results for the current condition of the intersections in the study area is provided in **Table 6.**



Table 6 – Existing Traffic Operations

		AM				PN	1	
Key Movement	LOS	Delay (s)	95 th % Queue (m)	v/c	LOS	Delay (s)	95 th % Queue (m)	v/c
			Skinner St	reet / Alsto	on Street			
EBL	Α	8.1	7	0.018	Α	8.9	10	0.033
EBTR	Α	0	0	-	Α	0	0	-
WB	Α	8.8	8	0.004	Α	8.4	4	0.002
NB	С	21.1	7	0.02	С	21.3	9	0.041
SBL	D	25.7	11	0.12	D	31.4	12	0.128
SBTR	В	14.1	12	0.064	В	14	14	0.069
		Skinner	Street / T	yee Road /	Langford	Street		
EB	В	13.9	15	0.104	В	12.3	16	0.08
WB	С	21.9	13	0.111	Е	42.9	18	0.378
NB	А	9	13	0.036	А	8.5	26	0.05
SBL	А	8.1	4	0.005	А	8.9	4	0.006
SBTR	А	0	0	-	Α	0	0	-

Note: ## - Exceeds storage/acceptable limits

All intersections within the study area currently perform at an acceptable Level of Service (LOS), operating at LOS D or better with delays of 32 seconds or less, except for the westbound movement at Skinner Street / Tyee Road / Langford Street which has reached LOS E with a delay of 43 seconds in the PM peak hour. The 95^{th} percentile queues are acceptable on all movements and the Volume to Capacity ratio (v/c) ratios for all approaches is 0.38 or less for all movements.

5.4 Post Development Traffic Operations

A summary of the traffic analysis results for the intersections in the study area post development is provided in **Table 7**.



Table 7 – Opening Day Post Development Traffic Operations

		AM				PN	1	
Key Movement	LOS	Delay (s)	95 th % Queue (m)	v/c	LOS	Delay (s)	95 th % Queue (m)	v/c
			Skinner St	reet / Alsto	on Street			
EBL	Α	8.1	6	0.02	А	9	11	0.037
EBTR	Α	0	0	-	Α	0	0	-
WB	А	8.8	4	0.004	А	8.4	7	0.02
NB	С	21.6	6	0.02	С	22.2	11	0.048
SBL	D	27.3	14	0.173	D	33.6	14	0.173
SBTR	В	13.9	14	0.08	В	14.5	14	0.08
		Skinner	Street / T	yee Road /	Langford	Street		
EB	В	14.5	15	0.112	В	14.1	15	0.109
WB	С	22.5	13	0.115	Е	44.5	20	0.388
NB	А	9.1	18	0.036	А	8.6	24	0.05
SBL	Α	8.2	4	0.009	А	9	5	0.007
SBTR	Α	0	0	-	А	0	0	-
		<u>'</u>	Alston Str	reet / Site E	ntrance			
WBLR	А	8.6	10	0.017	А	8.6	8	0.01
NBTR	Α	0	0	-	А	0	0	-
SBLT	Α	0	0	-	Α	0	0	-
			Tyee Roa	ad / Site Er	ntrance			
EBLR	Α	8.4	7	0.006	А	8.4	2	0.001
NBLT	Α	7.3	0	0.001	А	7.3	0	0.003
SBTR	Α	0	0	-	А	0	1	-

Note: ## - Exceeds storage/acceptable limits

The addition of site traffic post development has very minor impacts on the network. The delay sees a maximum change of 3 seconds or less on any movement and LOS remains within acceptable parameters at LOS D or better except where it had previously failed. The 95th percentile queues remain acceptable on all approaches with an increase of 5 metres or less (i.e., one car length) from existing conditions. The v/c ratios for all approaches are 0.39 or less for all movements.



6.0 CONCLUSIONS

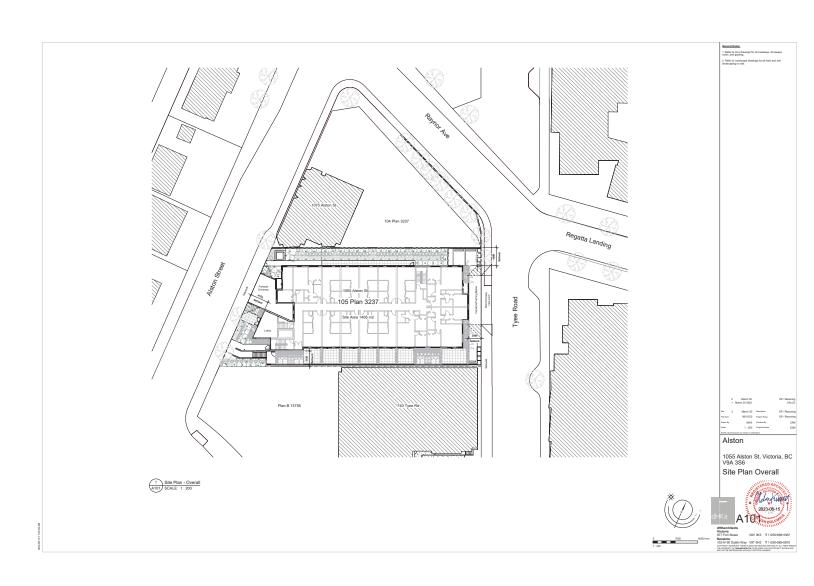
Traffic generated by the proposed development can be acceptably accommodated on the existing road network on opening day with no changes. Impacts to the surrounding road network will be minor and no geometric / traffic-control changes to intersections in the study area are required as a result of this development.

7.0 RECOMMENDATIONS

No roadway changes are recommended as a consequence of this development.



APPENDIX A - SITE PLAN





APPENDIX B - SYNCHRO BACKGROUND



SYNCHRO MODELLING SOFTWARE DESCRIPTION

The traffic analysis was completed using Synchro and SimTraffic traffic modelling software. Results were measured in delay, level of service (LOS), 95th percentile queue length and volume to capacity ratio. Synchro is based on the Highway Capacity Manual (HCM) methodology. SimTraffic integrates established driver behaviours and characteristics to simulate actual conditions by randomly "seeding" or positioning vehicles travelling throughout the network. The simulation is run ten times (ten different random seedings of vehicle types, behaviours, and arrivals) to obtain statistical significance of the results.

Levels of Service

Traffic operations are typically described in terms of levels of service, which rates the amount of delay per vehicle for each movement and the entire intersection. Levels of service range from LOS A (representing best operations) to LOS E/F (LOS E being poor operations and LOS F being unpredictable/disruptive operations). LOS E/F are generally unacceptable levels of service under normal everyday conditions. A LOS C or better is considered acceptable operations, while D is on the threshold between acceptable and unacceptable operations. Highway operations will typically need to operate at LOS C or better for through movements and LOS E or better for other traffic movements with lower order roads.

The hierarchy of criteria for grading an intersection or movement not only includes delay times, but also considers traffic control type (stop signs or traffic signal). For example, if a vehicle is delayed for 19 seconds at an unsignalized intersection, it is considered to have an average operation, and would therefore be graded as an LOS C. However, at a signalized intersection, a 19 second delay would be considered a good operation and therefore it would be given an LOS B. The table below indicates the range of delay for LOS for signalized and unsignalized intersections.

Table A1: LOS Criteria, by Intersection Traffic Control

Level of Service (LOS)	Unsignalized Intersection Average Vehicle Delay (sec / veh)	Signalized Intersection Average Vehicle Delay (sec / veh)
Α	0 – 10	0 – 10
В	> 10 - 15	> 10 – 20
С	> 15 – 25	> 20 – 35
D	> 25 – 35	> 35 – 55
E	> 35 – 50	> 55 – 80
F	> 50	> 80



APPENDIX C - SYNCHRO REPORTS

Intersection: 1: Alston St & Skinner St

Movement	EB	WB	NB	SB	SB
Directions Served	L	LTR	LTR	L	TR
Maximum Queue (m)	10.2	19.1	10.3	11.5	13.4
Average Queue (m)	1.6	0.9	1.3	4.0	4.5
95th Queue (m)	7.3	8.2	6.7	11.4	12.3
Link Distance (m)		171.4			
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)	25.0			35.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB	
Directions Served	LTR	LTR	LTR	L	
Maximum Queue (m)	16.0	11.9	17.7	7.3	
Average Queue (m)	7.7	4.7	3.7	0.6	
95th Queue (m)	15.3	12.7	13.2	4.2	
Link Distance (m)	190.2		132.6		
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)				25.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: Alston St & Site Driveway

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

AM Existing SimTraffic Report
Page 1

Intersection: 4: Tyee Rd & Site Driveway

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 8: Langford St & Alston St

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

AM Existing SimTraffic Report

Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1>			4			4			ĵ.	
Traffic Vol, veh/h	19	571	4	3	323	5	2	1	1	21	7	17
Future Vol, veh/h	19	571	4	3	323	5	2	1	1	21	7	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	25	-	-	-	-	-	-	-	-	35	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	21	642	4	3	363	6	2	1	1	24	8	19
Major/Minor N	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	369	0	0	646	0	0	1072	1061	644	1059	1060	366
Stage 1	-	-	-	-	-	-	686	686	-	372	372	-
Stage 2	-	-	-	-	-	-	386	375	-	687	688	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1190	-	-	939	-	-	198	224	473	202	224	679
Stage 1	-	-	-	-	-	-	438	448	-	648	619	-
Stage 2	-	-	-	-	-	-	637	617	-	437	447	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1190	-	-	939	-	-	184	219	473	197	219	679
Mov Cap-2 Maneuver	-	-	-	-	-	-	184	219	-	197	219	-
Stage 1	-	-	-	-	-	-	430	440	-	636	617	-
Stage 2	-	-	-	-	-	-	609	615	-	427	439	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.1			21.1			19.5		
HCM LOS							С			С		
Minor Lane/Major Mvm	it N	NBLn1	EBL	EBT	EBR	WBL	WBT	WRR	SBLn1	SBI n2		
Capacity (veh/h)	. 1	228	1190	-	LDIX	939	-	-		421		
HCM Lane V/C Ratio			0.018	-		0.004		-		0.064		
HCM Control Delay (s)		21.1	8.1	_	_	8.8	0	-	25.7	14.1		
HCM Lane LOS		C C	Α	_	_	Α	A		23.7 D	В		
HCM 95th %tile Q(veh)		0.1	0.1	_	_	0	_	_	0.4	0.2		
TOW JOHN JUNE Q(VEII)		0.1	0.1			0			0.7	0.2		

Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4		ሻ	1>	
Traffic Vol, veh/h	0	1	41	12	1	11	30	324	40	5	593	0
Future Vol, veh/h	0	1	41	12	1	11	30	324	40	5	593	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	1	46	13	1	12	33	360	44	6	659	0
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1126	1141	659	1143	1119	382	659	0	0	404	0	0
Stage 1	671	671	-	448	448	-	-	-	-	-	-	-
Stage 2	455	470	-	695	671	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	182	201	464	177	207	665	929	-	-	1155	-	-
Stage 1	446	455	-	590	573	-	-	-	-	-	-	-
Stage 2	585	560	-	433	455	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	171	191	464	153	196	665	929	-	-	1155	-	-
Mov Cap-2 Maneuver	171	191	-	153	196	-	-	-	-	-	-	-
Stage 1	425	453	-	563	547	-	-	-	-	-	-	-
Stage 2	547	534	-	388	453	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	13.9			21.9			0.7			0.1		
HCM LOS	В			C			3.1			J. 1		
				J								
Minor Lang/Major Mym	nt.	NBL	NBT	NDD	EBLn1V	MDI n1	SBL	SBT	SBR			
Minor Lane/Major Mvm	IL								SDR			
Capacity (veh/h)		929	-	-	449	240	1155	-	-			
HCM Control Polov (a)		0.036	-			0.111		-	-			
HCM Lang LOS		9	0	-	13.9	21.9	8.1	-	-			
HCM Of the 9/tile O/yeh	\	Α	Α	-	В	C	A	-	-			
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.4	0	-	-			

Intersection						
Int Delay, s/veh	0					
		WIDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	^	î•			र्स्
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	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	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor	Ain cut		Asis 4		Ania TO	
	Minor1		Major1		Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1022	-	_	_	_	-
Mov Cap-2 Maneuver	1022	_	_	_	_	_
Stage 1	-	_	_	_	_	_
Stage 2	1022	_	_	_	_	_
Olaye Z	1022				-	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
Minor Long/Major May	4	NDT	MDDV	MDI 1	CDI	CDT
Minor Lane/Major Mvm	ι	NBT	MRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)		-	-	-	-	-

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			सी	f)	
Traffic Vol, veh/h	0	0	0	0	21	0
Future Vol, veh/h	0	0	0	0	21	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	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	0	0	0	23	0
	Minor2		Major1		/lajor2	
Conflicting Flow All	23	23	23	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	_	_	_	_	-
Follow-up Hdwy		3.318	2.218	-	-	-
Pot Cap-1 Maneuver	993	1054	1592	_	_	_
Stage 1	1000	-	-	_	_	_
Stage 2	-	_	_	_	_	_
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	993	1054	1592			
Mov Cap-1 Maneuver	993	1004	1002	-	_	_
	1000	_	-	_	-	-
Stage 1		-	-		-	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A				V	
TIOWI LOO	<i>r</i> \					
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1592	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	0	-	-
HCM Lane LOS		Α	-		-	-
HCM 95th %tile Q(veh)	0	-	-	-	-
211 2211 701110 2(1011	,					

Movement	EB	EB	WB	NB	SB	SB
Directions Served	L	TR	LTR	LTR	L	TR
Maximum Queue (m)	10.2	3.1	14.4	9.1	10.2	14.2
Average Queue (m)	1.6	0.1	0.5	1.3	4.5	4.8
95th Queue (m)	7.3	2.2	6.5	6.4	11.5	12.5
Link Distance (m)		233.8	169.0			
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (m)	25.0				35.0	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	L
Maximum Queue (m)	16.9	11.2	19.5	8.1
Average Queue (m)	7.3	5.1	3.5	0.4
95th Queue (m)	14.7	12.4	12.9	3.4
Link Distance (m)		186.2	133.0	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				25.0
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 3: Alston St & Site Driveway

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Back 2025 AM SimTraffic Report
Page 1

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 8: Langford St & Alston St

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Back 2025 AM SimTraffic Report
Page 2

Int Delay, s/veh 1.2 Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations Traffic Vol, veh/h 19 571 4 3 323 5 2 1 1 21 7 17
Lane Configurations 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Future Vol, veh/h 19 571 4 3 323 5 2 1 1 21 7 17
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0
Sign Control Free Free Free Free Free Free Stop Stop Stop Stop Stop
RT Channelized None None None
Storage Length 25 35
Veh in Median Storage, # - 0 0 0 -
Grade, % - 0 0 0 -
Peak Hour Factor 89
Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2
Mvmt Flow 21 642 4 3 363 6 2 1 1 24 8 19
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 369 0 0 646 0 0 1072 1061 644 1059 1060 366
Stage 1 686 686 - 372 372 -
Stage 2 386 375 - 687 688 -
Critical Hdwy 4.12 4.12 7.12 6.52 6.22 7.12 6.52 6.22
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52 -
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52 -
Follow-up Hdwy 2.218 2.218 3.518 4.018 3.318 3.518 4.018 3.318
Pot Cap-1 Maneuver 1190 939 198 224 473 202 224 679
Stage 1 438 448 - 648 619 -
Stage 2 637 617 - 437 447 -
Platoon blocked, %
Mov Cap-1 Maneuver 1190 939 184 219 473 197 219 679
Mov Cap-2 Maneuver 184 219 - 197 219 -
Stage 1 430 440 - 636 617 -
Stage 2 609 615 - 427 439 -
Approach EB WB NB SB
HCM Control Delay, s 0.3 0.1 21.1 19.5
HCM LOS C C
Mineral and Marian Marian Miller A. EDI. EDT. EDD. MIDL. MIDT. MIDD. ODL. 4 ODL. C
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 SBLn2
Capacity (veh/h) 228 1190 939 197 421
HCM Lane V/C Ratio 0.02 0.018 0.004 0.12 0.064
HCM Control Delay (s) 21.1 8.1 8.8 0 - 25.7 14.1
HCM Lane LOS C A A A - D B
HCM 95th %tile Q(veh) 0.1 0.1 0 0.4 0.2

Int Delay, s/veh	Intersection												
Lane Configurations		1.4											
Lane Configurations	Movement	EBI	FRT	FRR	WRI	WRT	WRR	NRI	NBT	NBR	SBI	SBT	SBR
Traffic Vol, veh/h				LDIN	,,,,,,		7.51	1100		TIDIT			UDIT
Future Vol, veh/h Conflicting Peds, #/hr O O O O O O O O O O O O O		0		41	12		11	30		40			0
Conflicting Peds, #/hr						-							
Sign Control Stop Stop Stop Stop Stop Stop Stop Free Free													
RT Channelized		Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free		Free
Veh in Median Storage, # - 0			-					-	-		-	-	None
Grade, % - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 90	Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Peak Hour Factor	Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Mymit Flow	Peak Hour Factor	90	90	90	90	90	90	90	90	90	90		90
Major/Minor Minor2 Minor1 Major1 Major2													
Conflicting Flow All	Mvmt Flow	0	1	46	13	1	12	33	360	44	6	659	0
Conflicting Flow All													
Stage 1 671 671 - 448 448	Major/Minor	Minor2			Minor1			Major1			Major2		
Stage 1		1126	1141	659	1143	1119			0			0	0
Critical Hdwy 7.12 6.52 6.22 7.12 6.52 6.22 4.12 - 4.12 - - - - 4.12 -		671	671	-	448	448	-	-	-	-	-	-	-
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52 -	Stage 2	455	470	-	695	671	-	-	-	-	-	-	-
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52 - <t< td=""><td>Critical Hdwy</td><td></td><td></td><td>6.22</td><td></td><td></td><td>6.22</td><td>4.12</td><td>-</td><td>-</td><td>4.12</td><td>-</td><td>-</td></t<>	Critical Hdwy			6.22			6.22	4.12	-	-	4.12	-	-
Follow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.218 2.218 Pot Cap-1 Maneuver 182 201 464 177 207 665 929 - 1155 - Stage 1 446 455 - 590 573 Stage 2 585 560 - 433 455				-			-	-	-	-	-	-	-
Pot Cap-1 Maneuver							-	-	-	-	-	-	-
Stage 1 446 455 - 590 573 -									-	-		-	-
Stage 2 585 560 - 433 455	•			464			665	929	-	-	1155	-	-
Platoon blocked, %				-			-	-	-	-	-	-	-
Mov Cap-1 Maneuver 171 191 464 153 196 665 929 - - 1155 - - Mov Cap-2 Maneuver 171 191 - 153 196 -		585	560	-	433	455	-	-	-	-	-	-	-
Mov Cap-2 Maneuver 171 191 - 153 196 - </td <td></td> <td>4-1</td> <td>407</td> <td>101</td> <td>4=0</td> <td>400</td> <td>005</td> <td>000</td> <td>-</td> <td>-</td> <td>44==</td> <td>-</td> <td>-</td>		4-1	407	101	4=0	400	005	000	-	-	44==	-	-
Stage 1 425 453 - 563 547	•						665	929	-	-	1155	-	-
Stage 2 547 534 - 388 453 -							-	-	-	-	-	-	-
Approach EB WB NB SB HCM Control Delay, s 13.9 21.9 0.7 0.1 HCM LOS B C Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR Capacity (veh/h) 929 - - 449 240 1155 - - HCM Lane V/C Ratio 0.036 - - 0.104 0.111 0.005 - - HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 - - HCM Lane LOS A A - B C A - -	•						-	-	-	-	-	-	-
HCM Control Delay, s 13.9 21.9 0.7 0.1	Stage 2	547	534	-	388	453	-	-	-	-	-	-	-
HCM Control Delay, s 13.9 21.9 0.7 0.1													
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR Capacity (veh/h) 929 - - 449 240 1155 - - HCM Lane V/C Ratio 0.036 - - 0.104 0.111 0.005 - - HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 - - HCM Lane LOS A A - B C A - -													
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR Capacity (veh/h) 929 - - 449 240 1155 - - HCM Lane V/C Ratio 0.036 - - 0.104 0.111 0.005 - - HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 - - HCM Lane LOS A A - B C A - -	3.							0.7			0.1		
Capacity (veh/h) 929 449 240 1155 HCM Lane V/C Ratio 0.036 0.104 0.111 0.005 HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 HCM Lane LOS A A - B C A	HCM LOS	В			С								
Capacity (veh/h) 929 449 240 1155 HCM Lane V/C Ratio 0.036 0.104 0.111 0.005 HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 HCM Lane LOS A A - B C A													
HCM Lane V/C Ratio 0.036 - - 0.104 0.111 0.005 - - HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 - - HCM Lane LOS A A - B C A - -	Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
HCM Lane V/C Ratio 0.036 - - 0.104 0.111 0.005 - - HCM Control Delay (s) 9 0 - 13.9 21.9 8.1 - - HCM Lane LOS A A - B C A - -	Capacity (veh/h)		929	-	-	449	240	1155	-	-			
HCM Lane LOS A A - B C A	HCM Lane V/C Ratio		0.036	-	-	0.104	0.111	0.005	-	-			
	HCM Control Delay (s)		9	0	-	13.9	21.9	8.1	-	-			
HCM 95th %tile Q(veh) 0.1 0.3 0.4 0				Α	-				-	-			
	HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.4	0	-	-			

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WBR		NBK	SBL	
Lane Configurations	¥	٥	ન	٥	٥	<u>ન</u>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	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	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	/linor1	N	/lajor1	1	Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	_	-	-
Stage 2	1	_	_	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
	3.518		_	_	2.218	_
Pot Cap-1 Maneuver	1022	0.010	_		2.210	_
Stage 1	-	_		_	_	_
Stage 2	1022	_		_	_	
Platoon blocked, %	1022	_	_	_	-	
Mov Cap-1 Maneuver	1022		-			-
		-	-	-	-	
Mov Cap-2 Maneuver	1022	-	-		-	-
Stage 1	4000	-	-	-	-	-
Stage 2	1022	-	-		-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Long/Major M	4	NDT	NDDV	MDI 1	CDI	CDT
Minor Lane/Major Mymi	ι	NBT	NBKV	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
		-	-	0	0	-
HCM Control Delay (s)						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		-	-	A -	A -	-

Intersection						
Int Delay, s/veh	0					
		ED.5	ND	NET	057	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			र्	Þ	
Traffic Vol, veh/h	0	0	0	0	12	0
Future Vol, veh/h	0	0	0	0	12	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	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	13	0
	Minor2		Major1		/lajor2	
Conflicting Flow All	13	13	13	0	-	0
Stage 1	13	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	1006	1067	1606	-	-	-
Stage 1	1010	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1006	1067	1606	_	_	-
Mov Cap-2 Maneuver	1006	_	-	_	_	_
Stage 1	1010	_	_	_	_	_
Stage 2	-	_	_	_	_	_
Olago Z						
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Long/Major Mum	.+	NIDI	NDT	EDI n1	CDT	CDD
Minor Lane/Major Mvm	ı	NBL	INDII	EBLn1	SBT	SBR
Capacity (veh/h)		1606	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	0	-	-
		0 A 0	-	A	-	-

Movement	EB	WB	NB	SB	SB
Directions Served	L	LTR	LTR	L	TR
Maximum Queue (m)	12.1	7.5	10.4	8.5	17.8
Average Queue (m)	3.1	0.2	2.4	4.4	5.9
95th Queue (m)	10.4	4.2	9.1	11.2	13.7
Link Distance (m)		169.0			
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)	25.0			35.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB	SB
Directions Served	LTR	LTR	LTR	L	TR
Maximum Queue (m)	17.0	22.7	27.4	6.6	1.1
Average Queue (m)	7.0	8.8	6.7	0.6	0.0
95th Queue (m)	14.9	17.8	20.6	4.1	0.8
Link Distance (m)		186.2	133.0		169.0
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)				25.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: Alston St & Site Driveway

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Back 2025 PM SimTraffic Report
Page 1

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 8: Langford St & Alston St

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Back 2025 PM SimTraffic Report

Intersection		
Int Delay, s/veh 1.2		
Movement EBL EBT EBR WBL WBT WBR NBL NBT	NBR SBL SB	SBR
Lane Configurations 🥇 🖟 🚓	<u>ች</u> 1	•
Traffic Vol, veh/h 30 468 4 2 592 15 3 2	4 19	2 26
Future Vol, veh/h 30 468 4 2 592 15 3 2	4 19	2 26
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0		0
Sign Control Free Free Free Free Free Stop Stop	Stop Stop Sto	Stop
RT Channelized None None	110110	- None
Storage Length 25	- 35	
Veh in Median Storage, # - 0 0) -
Grade, % - 0 0 0		
Peak Hour Factor 95 95 95 95 95 95 95		
Heavy Vehicles, % 2 2 2 2 2 2 2 2		2 2
Mvmt Flow 32 493 4 2 623 16 3 2	4 20	2 27
Major/Minor Major1 Major2 Minor1	Minor2	
Conflicting Flow All 639 0 0 497 0 0 1209 1202	495 1197 119	631
Stage 1 559 559	- 635 63	
Stage 2 650 643	- 562 56	
Critical Hdwy 4.12 4.12 7.12 6.52	6.22 7.12 6.5	
Critical Hdwy Stg 1 6.12 5.52	- 6.12 5.5	
Critical Hdwy Stg 2 6.12 5.52	- 6.12 5.5	
Follow-up Hdwy 2.218 2.218 3.518 4.018		
Pot Cap-1 Maneuver 945 1067 160 185	575 163 18	
Stage 1 513 511	- 467 47	
Stage 2 458 468	- 512 51) -
Platoon blocked, %		
Mov Cap-1 Maneuver 945 1067 145 178	575 156 179	481
Mov Cap-2 Maneuver 145 178	- 156 17	-
Stage 1 496 494	- 451 47	-
Stage 2 429 467	- 489 49	} -
Approach EB WB NB	SB	
HCM Control Delay, s 0.5 0 21.3	21	
HCM LOS C	C	
	<u> </u>	
Miner Lene/Major Muret NDL rd EDL EDT EDD MEDL MEDT MED	CDI =1 CDI =0	
	SBLn1 SBLn2	
Capacity (veh/h) 231 945 1067		
	0.128 0.069	
HCM Control Delay (s) 21.3 8.9 8.4 0 -	* * * * * * * * * * * * * * * * * * * *	
HCM Lane LOS C A A A -		
HCM 95th %tile Q(veh) 0.1 0.1 0	0.4 0.2	

Intersection												
Int Delay, s/veh	2.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			44		ሻ	ĵ.	
Traffic Vol, veh/h	0	1	41	40	2	13	52	595	59	5	479	2
Future Vol, veh/h	0	1	41	40	2	13	52	595	59	5	479	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	<u> </u>	-	None	-	<u>-</u>	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	1	42	41	2	13	54	613	61	5	494	2
Major/Minor	Minor2			Minor1			Major1		N	Major2		
Conflicting Flow All	1264	1287	495	1279	1258	644	496	0	0	674	0	0
Stage 1	505	505	-	752	752	-	-	-	-		-	-
Stage 2	759	782	-	527	506	-	_	_	_	_	-	_
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	_
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	_	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	_	_	_	_	_	_	_
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	_	_	2.218	-	_
Pot Cap-1 Maneuver	146	164	575	143	171	473	1068	_	_	917	-	-
Stage 1	549	540	-	402	418	-	-	-	_	-	-	-
Stage 2	399	405	-	535	540	-	_	-	_	_	-	-
Platoon blocked, %								-	_		-	-
Mov Cap-1 Maneuver	131	150	575	123	156	473	1068	_	-	917	_	_
Mov Cap-2 Maneuver	131	150	-	123	156	-	-	_	_	-	-	_
Stage 1	504	537	-	369	384	-	-	_	_	-	-	-
Stage 2	354	372	-	492	537	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	12.3			42.9			0.6			0.1		
HCM LOS	В			E			3.0			3.1		
				_								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBL n1	SBL	SBT	SBR			
Capacity (veh/h)	•	1068	-	-	539	150	917	-				
HCM Lane V/C Ratio		0.05	-	_		0.378		_	_			
HCM Control Delay (s)		8.5	0	_	12.3	42.9	8.9		<u>-</u>			
HCM Lane LOS		0.5 A	A		12.3 B	42.9 E	0.9 A	_	_			
HCM 95th %tile Q(veh)	\	0.2	-	_	0.3	1.6	0	_	<u>-</u>			
How Jour Joure Q(Ver)		0.2		_	0.0	1.0						

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WBR		NBK	SBL	
Lane Configurations	¥	٥	ન	٥	٥	<u>ન</u>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	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	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	/linor1	N	/lajor1	1	Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	_	-	-
Stage 2	1	_	_	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
	3.518		_	_	2.218	_
Pot Cap-1 Maneuver	1022	0.010	_		2.210	_
Stage 1	-	_		_	_	_
Stage 2	1022	_		_	_	
Platoon blocked, %	1022	_	_	_	-	
Mov Cap-1 Maneuver	1022		-			-
		-	-	-	-	
Mov Cap-2 Maneuver	1022	-	-		-	-
Stage 1	4000	-	-	-	-	-
Stage 2	1022	-	-		-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Long/Major M	4	NDT	NDDV	MDI 1	CDI	CDT
Minor Lane/Major Mymi	ι	NBT	NBKV	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
		-	-	0	0	-
HCM Control Delay (s)						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		-	-	A -	A -	-

Intersection						
Int Delay, s/veh	0					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	0	^	<u>र्</u> च	\$	0
Traffic Vol, veh/h	0	0	0	0	28	0
Future Vol, veh/h	0	0	0	0	28	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	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	31	0
Major/Minor I	Minor2		Major1	N	/lajor2	
Conflicting Flow All	31	31	31	0	- najoiz	0
	31					
Stage 1		-	-	-	-	-
Stage 2	0		4.40	-		-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	983	1043	1582	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	983	1043	1582	-	-	-
Mov Cap-2 Maneuver	983	-	-	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		NB		SB	
	0		0		0	
HCM LOS			U		U	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1582	-	_	-	_
HCM Lane V/C Ratio		-	_	_	_	_
HCM Control Delay (s)		0	_	0	_	-
HCM Lane LOS		A	_	A	_	_
HCM 95th %tile Q(veh))	0	_	-	_	_
Jili Jour Jour Will Will						

Movement	EB	WB	NB	SB	SB
Directions Served	L	LTR	LTR	L	TR
Maximum Queue (m)	11.4	8.2	9.1	12.1	16.6
Average Queue (m)	3.1	0.3	2.5	4.6	6.1
95th Queue (m)	10.2	3.5	9.2	11.9	13.8
Link Distance (m)		171.4			
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)	25.0			35.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	L
Maximum Queue (m)	18.4	20.4	41.3	9.0
Average Queue (m)	7.9	9.2	7.9	0.5
95th Queue (m)	15.8	18.2	26.1	4.0
Link Distance (m)	190.2		132.6	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				25.0
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 3: Alston St & Site Driveway

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

PM Existing SimTraffic Report
Page 1

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 8: Langford St & Alston St

Movement

Directions Served

Maximum Queue (m)

Average Queue (m)

95th Queue (m)

Link Distance (m)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (m)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

PM Existing SimTraffic Report

Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	1>			4			4		ች	4	
Traffic Vol, veh/h	30	468	4	2	592	15	3	2	4	19	2	26
Future Vol, veh/h	30	468	4	2	592	15	3	2	4	19	2	26
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	25	-	-	-	-	-	-	-	-	35	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	32	493	4	2	623	16	3	2	4	20	2	27
Major/Minor N	/lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	639	0	0	497	0	0	1209	1202	495	1197	1196	631
Stage 1	-	-	-	-	-	-	559	559	-	635	635	-
Stage 2	-	-	-	-	-	-	650	643	-	562	561	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	945	-	-	1067	-	-	160	185	575	163	186	481
Stage 1	-	-	-	-	-	-	513	511	-	467	472	-
Stage 2	-	-	-	-	-	-	458	468	-	512	510	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	945	-	-	1067	-	-	145	178	575	156	179	481
Mov Cap-2 Maneuver	-	-	-	-	-	-	145	178	-	156	179	-
Stage 1	-	-	-	-	-	-	496	494	-	451	471	-
Stage 2	-	-	-	-	-	-	429	467	-	489	493	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			21.3			21		
HCM LOS							С			С		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBL n2		
Capacity (veh/h)	<u> </u>	231	945	-		1067	-	-		429		
HCM Lane V/C Ratio				_		0.002	_		0.128			
HCM Control Delay (s)		21.3	8.9	_	_	8.4	0	_	31.4	14		
HCM Lane LOS		C C	Α	_	_	Α	A	_	D	В		
HCM 95th %tile Q(veh)		0.1	0.1	_	-	0	-	-	0.4	0.2		
		J. 1	.						0.1	0.2		

Intersection												
Int Delay, s/veh	2.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4		ሻ	1	
Traffic Vol, veh/h	0	1	41	40	2	13	52	595	59	5	479	2
Future Vol, veh/h	0	1	41	40	2	13	52	595	59	5	479	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	1	42	41	2	13	54	613	61	5	494	2
Major/Minor I	Minor2			Minor1			Major1		ı	Major2		
Conflicting Flow All	1264	1287	495	1279	1258	644	496	0	0	674	0	0
Stage 1	505	505	-	752	752	-	-	-	-	-	-	-
Stage 2	759	782	-	527	506	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	146	164	575	143	171	473	1068	-	-	917	-	-
Stage 1	549	540	-	402	418	-	-	-	-	-	-	-
Stage 2	399	405	-	535	540	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	131	150	575	123	156	473	1068	-	-	917	-	-
Mov Cap-2 Maneuver	131	150	-	123	156	-	-	-	-	-	-	-
Stage 1	504	537	-	369	384	-	-	-	-	-	-	-
Stage 2	354	372	-	492	537	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	12.3			42.9			0.6			0.1		
HCM LOS	В			E								
Minor Lane/Major Mvm	nt	NBL	NBT	NRP	EBLn1V	VRI n1	SBL	SBT	SBR			
Capacity (veh/h)	ic .	1068	-	-	539	150	917	- 100	אומט			
HCM Lane V/C Ratio		0.05	-	-		0.378		-	-			
HCM Control Delay (s)		8.5	0	-	12.3	42.9	8.9	-				
HCM Lane LOS		0.5 A	A	-	12.3 B	42.9 E	Α	_	_			
HCM 95th %tile Q(veh)	0.2		_	0.3	1.6	0	_	_			
TOW JOHN JOHN WINE WINE	1	0.2	_		0.0	1.0	U					

Intersection						
Int Delay, s/veh	0					
					05:	0.5.
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		₽			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	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	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0
NA = i = =/NAi== = = =	N 41: 4		1-1-1		1-1-0	
	Minor1		Major1		/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1022	-	-	-	-	-
Mov Cap-2 Maneuver	1022	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
- 13.91 -	· · - <u>-</u>					
	1445				0.0	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)	ic .	INDI	אוטווע	+DLIII	ODL	051
HCM Lane V/C Ratio		-			-	
		-	-	0	-	-
HCM Long LOS		-	-		0	-
HCM Of the Of the Of the Delta	١	-	-	Α	Α	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
		EDK	INDL			SDK
Lane Configurations	Y	٥	٥	- ન	þ	0
Traffic Vol, veh/h	0	0	0	0	21	0
Future Vol, veh/h	0	0	0	0	21	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	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	23	0
Major/Minor	Minor2	ı	Major1	N	Anier?	
			Major1		//ajor2	^
Conflicting Flow All	23	23	23	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy				-	-	-
Pot Cap-1 Maneuver	993	1054	1592	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	993	1054	1592	-	-	-
Mov Cap-2 Maneuver	993	-	-	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	-	_	_	_	_	_
Approach	EB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1592			051	UDIT
HCM Lane V/C Ratio			-	-	-	-
HCM Control Delay (s)		0	-	0	-	-
HCM Lane LOS			-		-	-
HCM 95th %tile Q(veh	١	A 0	-	Α	-	-
			-	_	_	_

Movement	EB	WB	NB	SB	SB
Directions Served	L	LTR	LTR	L	TR
Maximum Queue (m)	8.8	6.4	9.1	16.1	15.3
Average Queue (m)	1.2	0.4	1.0	6.1	6.1
95th Queue (m)	6.2	3.6	5.5	14.2	13.6
Link Distance (m)		171.4			30.6
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)	25.0			35.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB	
Directions Served	LTR	LTR	LTR	L	
Maximum Queue (m)	15.6	15.5	28.2	7.2	
Average Queue (m)	7.8	4.8	5.2	0.5	
95th Queue (m)	15.2	12.8	18.3	4.1	
Link Distance (m)	190.2		132.6		
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)				25.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: Alston St & Site Driveway

Movement	WB
Directions Served	LR
Maximum Queue (m)	8.6
Average Queue (m)	3.3
95th Queue (m)	10.1
Link Distance (m)	22.8
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

SimTraffic Report Post Dev 2025 AM Page 1

Movement	EB
Directions Served	LR
Maximum Queue (m)	8.9
Average Queue (m)	1.5
95th Queue (m)	6.5
Link Distance (m)	12.3
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 8: Langford St & Alston St

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Post Dev 2025 AM SimTraffic Report
Page 2

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ĵ.			4			4		ሻ	f _a	
Traffic Vol, veh/h	21	571	4	3	323	8	2	1	1	30	8	23
Future Vol, veh/h	21	571	4	3	323	8	2	1	1	30	8	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	25	-	-	-	-	-	-	-	-	35	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	642	4	3	363	9	2	1	1	34	9	26
Major/Minor I	Major1		1	Major2		- 1	Minor1			Minor2		
Conflicting Flow All	372	0	0	646	0	0	1083	1070	644	1067	1068	368
Stage 1	-	-	-	-	-	-	692	692	-		374	-
Stage 2	-	-	-	-	-	-	391	378	-		694	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	0.40	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318		4.018	3.318
Pot Cap-1 Maneuver	1186	-	-	939	-	-	195	221	473	200	222	677
Stage 1	-	-	-	-	-	-	434	445	-	647	618	-
Stage 2	-	-	-	-	-	-	633	615	-	434	444	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1186	-	-	939	-	-	178	216	473	195	217	677
Mov Cap-2 Maneuver	-	-	-	-	-	-	178	216	-	195	217	-
Stage 1	-	-	-	-	-	-	425	436	-	004	616	-
Stage 2	-	-	-	-	-	-	598	613	-	400	435	-
,												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.1			21.6			20.5		
HCM LOS							С			С		
Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1	SBLn2		
Capacity (veh/h)		222	1186			939	-	-	195	438		
HCM Lane V/C Ratio		0.02	0.02	_		0.004	_		0.173			
HCM Control Delay (s)		21.6	8.1	_	-	8.8	0	_	27.3			
HCM Lane LOS		C	A	_	_	Α	A	_	D	В		
HCM 95th %tile Q(veh))	0.1	0.1	-	-	0	-	_	0.6	0.3		
		711	711						0.0	0.0		

Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4		ች	₽	
Traffic Vol, veh/h	1	1	41	12	1	11	30	327	42	9	602	0
Future Vol, veh/h	1	1	41	12	1	11	30	327	42	9	602	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	1	46	13	1	12	33	363	47	10	669	0
Major/Minor I	Minor2			Minor1			Major1		ı	Major2		
Conflicting Flow All	1148	1165	669	1166	1142	387	669	0	0	410	0	0
Stage 1	689	689	-	453	453	-	-	-	-	-	-	-
Stage 2	459	476	-	713	689	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	176	194	458	171	200	661	921	-	-	1149	-	-
Stage 1	436	446	-	586	570	-	-	-	-	-	-	-
Stage 2	582	557	-	423	446	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	165	183	458	147	189	661	921	-	-	1149	-	-
Mov Cap-2 Maneuver	165	183	-	147	189	-	-	-	-	-	-	-
Stage 1	416	442	-	558	543	-	-	-	-	-	-	-
Stage 2	543	531	-	377	442	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	14.5			22.5			0.7			0.1		
HCM LOS	В			C			• • • • • • • • • • • • • • • • • • • •					
Minor Lane/Major Mvm	nt	NBL	NBT	NRR	EBLn1V	WRI n1	SBL	SBT	SBR			
Capacity (veh/h)	ιι	921			426	232		- 301	אומט			
HCM Lane V/C Ratio		0.036	-	-		0.115		-				
HCM Control Delay (s)		9.1	0		14.5	22.5	8.2		-			
HCM Lane LOS		9.1 A	A	-	14.5 B	22.5 C	0.2 A	-	-			
HCM 95th %tile Q(veh	1	0.1	- -		0.4	0.4	0		-			
HOW BOTH WITH WINE	1	0.1	_	-	0.4	0.4	U	-	-			

Intersection						
Int Delay, s/veh	6.3					
		MES	NET	NES	051	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	. W		₽			4
Traffic Vol, veh/h	16	0	0	5	0	0
Future Vol, veh/h	16	0	0	5	0	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	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	0	0	6	0	0
N. 4			4 ' 4		4 : 0	
	Minor1		//ajor1		Major2	
Conflicting Flow All	4	3	0	0	6	0
Stage 1	3	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1018	1081	-	-	1615	-
Stage 1	1020	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1018	1081	-	-	1615	-
Mov Cap-2 Maneuver	1018	-	_	_	-	-
Stage 1	1020	-	-	-	_	-
Stage 2	1022	_	_	_	_	_
Olago Z	1022					
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NRDV	VBLn1	SBL	SBT
	IC	INDI	INDE			ומט
Capacity (veh/h)		-	-	1018	1615	-
HCM Lane V/C Ratio		-		0.017	-	-
HCM Control Delay (s)		-	-	8.6	0	-
HCM Lane LOS HCM 95th %tile Q(veh		-	-	0.1	A 0	-
						-

Intersection						
Int Delay, s/veh	2.1					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	À	_		– ₹	\$	^
Traffic Vol, veh/h	0	6	1	0	21	0
Future Vol, veh/h	0	6	1	0	21	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	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	7	1	0	23	0
N.A ' /N.A.'	A' O		M. 'A		4 - 1 - 0	
	Minor2		Major1		/lajor2	
Conflicting Flow All	25	23	23	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	2	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	991	1054	1592	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	990	1054	1592	-	-	-
Mov Cap-2 Maneuver	990	_	-	-	_	-
Stage 1	999	_	_	-	_	-
Stage 2	1021	_	_	_	_	_
otago z	1021					
Approach	EB		NB		SB	
			7.3		0	
HCM Control Delay, s	8.4		1.5			
HCM Control Delay, s HCM LOS	8.4 A		7.0			
			7.5			
HCM LOS	А	NRI		ERI n1	CRT	QDD
HCM LOS Minor Lane/Major Mvm	А	NBL 1502	NBT	EBLn1	SBT	SBR
Minor Lane/Major Mvm Capacity (veh/h)	А	1592	NBT I	1054	-	-
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A It	1592 0.001	NBT - -	1054 0.006	- -	SBR - -
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	A It	1592 0.001 7.3	NBT - - 0	1054 0.006 8.4	- - -	-
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A et	1592 0.001	NBT - -	1054 0.006	- -	-

Movement	EB	WB	NB	SB	SB
Directions Served	L	LTR	LTR	L	TR
Maximum Queue (m)	12.2	8.6	10.4	14.8	16.5
Average Queue (m)	3.2	0.5	3.2	5.5	5.9
95th Queue (m)	10.5	6.7	10.5	13.5	13.9
Link Distance (m)		171.4			30.6
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (m)	25.0			35.0	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Tyee Rd & Langford St & Skinner St

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	L
Maximum Queue (m)	16.1	23.7	29.0	8.9
Average Queue (m)	8.0	10.4	7.6	0.7
95th Queue (m)	15.0	19.6	23.6	4.6
Link Distance (m)	190.2		132.6	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				25.0
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 3: Alston St & Site Driveway

Movement	WB
Directions Served	LR
Maximum Queue (m)	8.6
Average Queue (m)	1.8
95th Queue (m)	7.5
Link Distance (m)	22.8
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Post Dev 2025 PM SimTraffic Report
Page 1

Movement	EB	SB
Directions Served	LR	TR
Maximum Queue (m)	4.4	1.8
Average Queue (m)	0.2	0.1
95th Queue (m)	2.3	1.2
Link Distance (m)	12.3	
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (m)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 8: Langford St & Alston St

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Post Dev 2025 PM SimTraffic Report
Page 2

Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	f.			4			4		ሻ	f)	
Traffic Vol, veh/h	33	468	4	2	592	24	3	3	4	25	3	28
Future Vol, veh/h	33	468	4	2	592	24	3	3	4	25	3	28
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	25	-	-	-	-	-	-	-	-	35	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	35	493	4	2	623	25	3	3	4	26	3	29
Major/Minor M	lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	648	0	0	497	0	0	1221	1217	495	1209	1207	636
Stage 1	-	-	-	-	-	-	565	565	-		640	-
Stage 2	_	_	_	_	_	_	656	652	_	569	567	_
Critical Hdwy	4.12	_	-	4.12	_	_	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	_	-	-	_	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	938	-	-	1067	-	-	157	181	575	160	183	478
Stage 1	-	-	-	-	-	-	510	508	-	464	470	-
Stage 2	-	-	-	-	-	-	454	464	-		507	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	938	-	-	1067	-	-	141	174	575	152	176	478
Mov Cap-2 Maneuver	-	-	-	-	-	-	141	174	-	152	176	-
Stage 1	-	-	-	-	-	-	491	489	-		469	-
Stage 2	-	-	-	-	-	-	422	463	-	481	488	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.6			0			22.2			23		
HCM LOS	0.0						C			C		
200												
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	W/RD	SRI n1	SBLn2		
		220	938			1067			152			
Capacity (veh/h)				-	-		-	-		410		
HCM Central Delay (a)		0.048		-	-	0.002	-		0.173			
HCM Control Delay (s) HCM Lane LOS		22.2 C	9	-	-	8.4	0	-	33.6 D	14.5		
HCM 95th %tile Q(veh)		0.1	0.1	-	-	A 0	A -	-	0.6	0.3		
Holvi sour wille Q(ven)		0.1	U. I	-	-	U	-	-	0.0	0.3		

Intersection												
Int Delay, s/veh	2.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4		ሻ	1≽	
Traffic Vol, veh/h	3	1	43	40	2	13	52	604	59	6	485	2
Future Vol, veh/h	3	1	43	40	2	13	52	604	59	6	485	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	25	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	1	44	41	2	13	54	623	61	6	500	2
Major/Minor	Minor2			Minor1			Major1		N	/lajor2		
Conflicting Flow All	1282	1305	501	1298	1276	654	502	0	0	684	0	0
Stage 1	513	513	-	762	762	-	-	-	-	-	-	-
Stage 2	769	792	-	536	514	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	142	160	570	139	167	467	1062	-	-	909	-	-
Stage 1	544	536	-	397	414	-	-	-	-	-	-	-
Stage 2	394	401	-	529	535	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	127	146	570	119	152	467	1062	-	-	909	-	-
Mov Cap-2 Maneuver	127	146	-	119	152	-	-	-	-	-	-	-
Stage 1	499	532	-	364	380	-	-	-	-	-	-	-
Stage 2	349	368	-	484	531	-	-	-	-	-	-	-
Ŭ												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	14.1			44.5			0.6			0.1		
HCM LOS	В			E								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1062	-	-	444	146	909	-	-			
HCM Lane V/C Ratio		0.05	-	-	0.109			-	-			
HCM Control Delay (s)		8.6	0	-	14.1	44.5	9	-	-			
HCM Lane LOS		A	A	_	В	E	A	_	-			
HCM 95th %tile Q(veh)	0.2	-	-	0.4	1.7	0	-	-			
2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,											

Movement	Intersection						
Movement		3.4					
Ame			MES	NOT	NDD	051	ODT
Traffic Vol, veh/h Suture Vol,			WBR		NBK	SBL	
Stuture Vol, veh/h 9 0 0 13 0 0 Conflicting Peds, #/hr 0			^		40	•	
Conflicting Peds, #/hr O O O O O O O O O							
Stop Control Stop RT Channelized Stop RT Channelized Free RT Channelized Free RT Channelized None <							
None							
Storage Length							
Veh in Median Storage, # 0			None	-	None	-	None
Grade, % 0 - 0 - - 0 Peak Hour Factor 90			-		-	-	-
Peak Hour Factor 90			-		-	-	
Reavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Grade, %		-				
Major/Minor Minor1 Major1 Major2 Conflicting Flow All 8 7 0 0 14 0 Stage 1 7 Stage 2 1 Critical Hdwy 6.42 6.22 - 4.12 - Critical Hdwy Stg 1 5.42 Critical Hdwy Stg 2 5.42 2.218 - Critical Hdwy Stg 2 5.42 1604 - Critical Hdwy 1013 1075 - 1604 - Stage 1 1016 Critical Hdwy 1013 1075 - 1604 - Stage 2 1022 Critical Hdwy 1013 1075 - 1604 - Stage 2 1022 Critical Hdwy 1013 1075 - 1604 - Critical Hdwy 1013 1075 - 1604 Critical Hdwy 1013 1075 Critic	Peak Hour Factor				90	90	
Major/Minor Minor1 Major1 Major2	Heavy Vehicles, %	2	2	2	2	2	2
Stage 1	Mvmt Flow	10	0	0	14	0	0
Stage 1							
Stage 1	Maior/Minor	Mina		Asis 4		Mais	
Stage 1 7 - - - - Stage 2 1 - - - - Critical Hdwy 6.42 6.22 - 4.12 - Critical Hdwy Stg 1 5.42 - - - - Critical Hdwy Stg 2 5.42 - - - - - Collow-up Hdwy 3.518 3.318 - 2.218 - Cot Cap-1 Maneuver 1013 1075 - 1604 - Stage 2 1022 - - - - Mov Cap-1 Maneuver 1013 1075 - 1604 - Stage 1 1016 - - - - Stage 2 1022 - - - - Accompany							
Stage 2 1 - - - - Critical Hdwy 6.42 6.22 - 4.12 - Critical Hdwy Stg 1 5.42 - - - - Critical Hdwy Stg 2 5.42 - - - - Collow-up Hdwy 3.518 3.318 - 2.218 - Collow-up Hdwy 3.518 3.318 - 2.218 - Collow-up Hdwy 3.518 3.318 - 2.218 - Cot Cap-1 Maneuver 1013 1075 - 1604 - Stage 2 1022 - - - - Mov Cap-1 Maneuver 1013 1075 - 1604 - Mov Cap-2 Maneuver 1013 - - - - Stage 1 1016 - - - - Stage 2 1022 - - - - ACM Control Delay, s 8.6 0 0 0 ACM LOS A - -			7	0	0	14	0
Critical Holmy Stg 1 5.42 4.12 - Critical Holmy Stg 1 5.42				-	-		-
Critical Hdwy Stg 1 5.42 Critical Hdwy Stg 2 5.42		-		-	-		-
Critical Hdwy Stg 2 5.42	Critical Hdwy		6.22	-	-	4.12	-
Sollow-up Hdwy	Critical Hdwy Stg 1		-	-	-	-	-
Stage 1	Critical Hdwy Stg 2			-	-		-
Stage 1 1016 -	Follow-up Hdwy			-	-		-
Stage 2 1022 -	Pot Cap-1 Maneuver		1075	-	-	1604	-
Stage 2 1022 -	Stage 1	1016	-	-	-	-	-
Platoon blocked, %		1022	-	-	-	-	-
Mov Cap-1 Maneuver 1013 1075 - - 1604 - Mov Cap-2 Maneuver 1013 -	Platoon blocked, %			-	-		-
Nov Cap-2 Maneuver	Mov Cap-1 Maneuver	1013	1075	-	-	1604	-
Stage 1 1016 -	•			_	_		_
Stage 2 1022 -	•		_	_	_	_	_
Approach WB NB SB HCM Control Delay, s 8.6 0 0 HCM LOS A Minor Lane/Major Mvmt NBT NBRWBLn1 SBL SBT Capacity (veh/h) 1013 1604 - HCM Lane V/C Ratio - 0.01 HCM Control Delay (s) - 8.6 0 - HCM Lane LOS - A A -			_	_	_	_	_
CM Control Delay, s	Olugo Z	1022					
CM Control Delay, s							
Minor Lane/Major Mvmt NBT NBRWBLn1 SBL SBT Capacity (veh/h) - 1013 1604 - HCM Lane V/C Ratio - 0.01 HCM Control Delay (s) - 8.6 0 - HCM Lane LOS - A A -	Approach			NB		SB	
Minor Lane/Major Mvmt NBT NBRWBLn1 SBL SBT Capacity (veh/h) - 1013 1604 - HCM Lane V/C Ratio - 0.01 HCM Control Delay (s) - 8.6 0 - HCM Lane LOS - A A -	HCM Control Delay, s	8.6		0		0	
Capacity (veh/h) - - 1013 1604 - HCM Lane V/C Ratio - - 0.01 - - HCM Control Delay (s) - - 8.6 0 - HCM Lane LOS - - A A -	HCM LOS						
Capacity (veh/h) - - 1013 1604 - HCM Lane V/C Ratio - - 0.01 - - HCM Control Delay (s) - - 8.6 0 - HCM Lane LOS - - A A -							
Capacity (veh/h) - - 1013 1604 - HCM Lane V/C Ratio - - 0.01 - - HCM Control Delay (s) - - 8.6 0 - HCM Lane LOS - - A A -	Minor Long/Major M.	mt.	NDT	MDDV	MDL = 4	CDI	CDT
ICM Lane V/C Ratio 0.01 ICM Control Delay (s) 8.6 0 - ICM Lane LOS A A -		III					SRI
HCM Control Delay (s) 8.6 0 - HCM Lane LOS A A -							-
ICM Lane LOS A A -			-	-			-
		s)	-	-			-
ICM 95th %tile Q(veh) 0 0 -			-	-			-
	HCM 95th %tile Q(vel	h)	-	-	0	0	-

Intersection						
Int Delay, s/veh	1.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			र्स	f)	
Traffic Vol., veh/h	0	1	5	0	21	0
Future Vol, veh/h	0	1	5	0	21	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	-	-	-	_	-
Veh in Median Storage	e, # 0	_	-	0	0	-
Grade, %	0	_	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	6	0	23	0
Miller ION		•				
	0					
	Minor2		Major1		/lajor2	
Conflicting Flow All	35	23	23	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	12	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	978	1054	1592	-	-	-
Stage 1	1000	-	-	-	-	-
Stage 2	1011	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	974	1054	1592	-	-	-
Mov Cap-2 Maneuver	974	_	-	-	-	-
Stage 1	996	-	_	_	_	-
Stage 2	1011	_	_	_	_	_
5 11.95 =						
			NID		0.0	
Approach	EB		NB		SB	
HCM Control Delay, s	8.4		7.3		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1592		1054	-	
HCM Lane V/C Ratio		0.003		0.001	_	_
HCM Control Delay (s)		7.3	0	8.4		_
HCM Lane LOS		Α.5	A	Α	_	_
HCM 95th %tile Q(veh)	0	-	0	_	_
. 13111 00011 700110 00 (1011	7					