

# **15. Transportation Impact Study**

# **Holley Park Subdivision**

Transportation Impact Study La Center, Washington

Date: February 15, 2019

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### **Executive Summary**

- 1. The proposed Holley Park Subdivision will include the construction of 39 single-family detached houses located at 33105 NE Ivy Avenue in La Center, Washington.
- 2. The trip generation calculations show that the proposed development is projected to generate 28 morning peak hour, 38 evening peak hour, and 358 weekday site trips.
- **3.** No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns.
- 4. Left-turn lane warrants are not projected to be met for any of the applicable study intersections under any of the analysis scenarios through the 2021 buildout year of the proposed development.
- 5. Traffic signal warrants are not projected to be met at any of the study intersections under any of the analysis scenarios through the 2021 buildout year of the site.
- 6. Based on the results of the operational analysis, the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road is currently and projected to operate at LOS F during the morning peak hour. However, based on analyses and conclusions made within *La Center Transportation Capital Facilities Plan* regarding operation and mitigation at the intersection, no mitigation is necessary or recommended in with buildout of the Holley Park Subdivision.



## **Project Description and Location**

## Introduction

The proposed Holley Park Subdivision will include the construction of 39 single-family detached houses located at 33105 NE Ivy Avenue in La Center, Washington. This report addresses the impacts of the proposed development on the nearby street system. Based on correspondence with City of La Center staff, the report conducts safety and capacity/level of service analyses at the following intersections:

- 1. Pacific Highway at W 4th Street;
- 2. Aspen Avenue at E/W 4th Street;
- 3. E Stonecreek Drive at E 4th Street;
- 4. NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road; and
- 5. NE John Storm Avenue at NE Lockwood Creek Road.

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

## Project and Location Description

The project site is located south of NE Lockwood Creek Road, east of E Ivy Avenue, and west of NE John Storm Avenue in La Center, Washington. The subject site is located near the eastern edge of City limits, with Holley Park to the north, undeveloped land to the south, a residential subdivision east, and La Center Elementary/Intermediate Schools to the west. One notable development within a half mile walking/biking distance of the site includes La Center High School to the north.

The site consists of three assessor parcels (parcels #62965242, #209055000, and #209059000) which encompass an approximate total of 14.4 acres. The southernmost lot (parcel #209059000) currently has one single-family house and several ancillary structures built onsite. The other two northernmost lots are currently undeveloped.

Upon redevelopment, access to/from the site will be available via  $E 2^{nd}$  Street, which currently ends as a stub street along the eastern edge of the site.  $E 2^{nd}$  Street will be extended west, through the site, to E Ivy Avenue and will end as a stub street.



# Vicinity Streets

The proposed development is expected to primarily impact eight nearby vicinity roadways. Table 1 provides a description of each of the vicinity roadways.

Roadway	Jurisdication	Functional Classification	Cross- Section	Speed	On-street Parking	Bicycle Lanes	Curbs	Sidewalks
Pacific Highway	City of La Center	Principal/ Minor Arterial	2 to 3 Lanes	25 mph Posted	Partially Permitted	None	Partial Both Sides	Partial Both Sides
Aspen Avenue	City of La Center	Major Collector	2 ot 3 Lanes	25 mph Posted	Partially Permitted	None	Both Sides	Both Sides
E Stoneæeek Drive	City of La Center	Local Road	2 Lanes	25 mph Design	Partially Permitted	None	Both Sides	Both Sides
NE Highland Avenue	City of La Center	Major Collector	2 to 3 Lanes	25 mph Posted	Not Permitted	Partial Both Sides	Partial Both Sides	Partial Both Sides
E Ivy Avenue	City of La Center	Local Road	2 Lanes	25 mph Design	Not Permitted	None	Partial Both Sides	Partial Both Sides
NE John Storm Avenue	City of La Center	Minor Collector	2 Lanes	25 mph Posted	Permitted Both Sides	None	Both Sides	Both Sides
E/W 4th Street	City of La Center	Minor Arterial	2 to 3 Lanes	25 mph Posted	Partially Permitted	Partial Both Sides	Partial Both Sides	Partial Both Sides
NE Lockwood Creek Road	City of La Center	Minor Arterial	2 to 3 Lanes	25 mph Posted	Partially Permitted	None	Partial Both Sides	Partial Both Sides

### Table 1: Vicinity Roadway Descriptions

Notes: Functional classification based on La Center Transportation Capital Facilities Plan Functional Classification Map.

Design speeds determined per Table 2.1 - Street Design Standards in City of La Centers Public Works Engineering Standards for Construction.

## Study Intersections

A majority of site trips generated by the proposed development are expected to impact five nearby intersections of significance. A summarized description of these intersections is provided in Table 2.



#### Traffic Number Name Geometry Phasing/Stopped Approaches Control Pacific Highway at W 4th Yield-Controlled NB, SB, and WB 1 Three-Legged Roundabout Street Approaches Aspen Avenue at E/W 4th 2 Three-Legged Stop Control Stop-Controlled SB Approach Street E Stonecreek Drive at E 4th 3 Three-Legged Stop Control Stop-Controlled SB Approach Street NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Four-Legged Stop Control Stop-Controlled N/S approaches 4 Creek Road NE John Storm Avenue at 5 Three-Legged Stop Control Stop-Controlled NB Approach NE Lockwood Creek Road

### **Table 2: Study Intersection Descriptions**

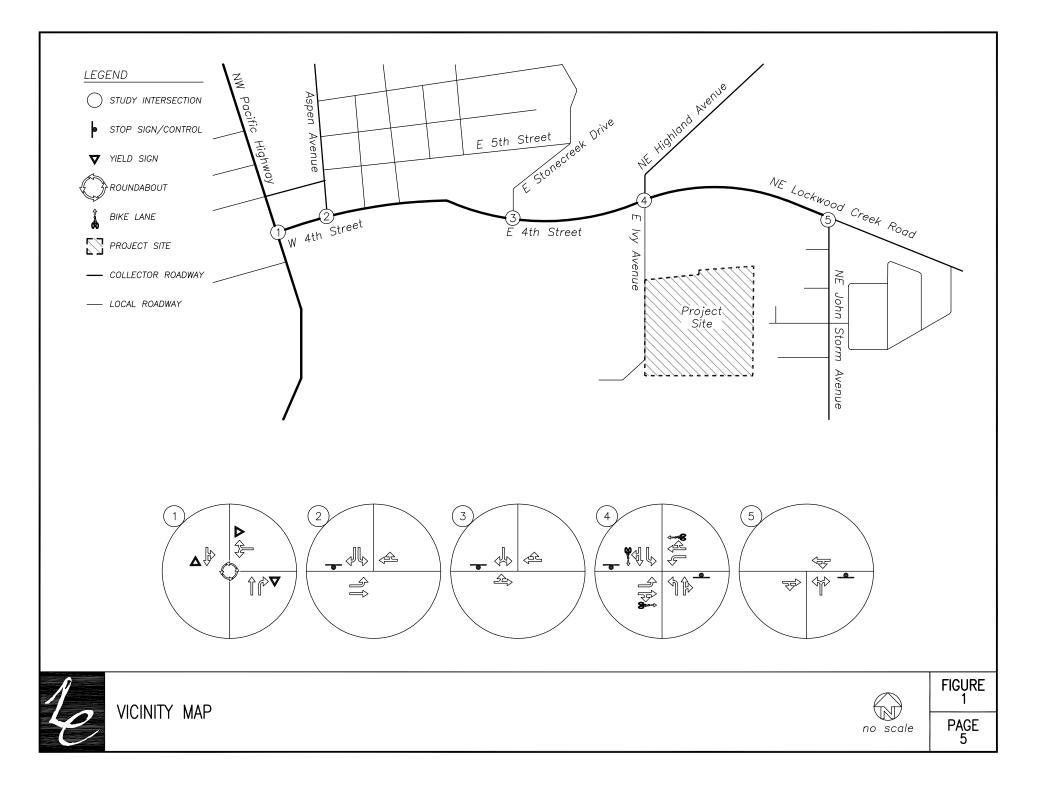
A vicinity map displaying the project site, vicinity streets, and the study intersections with their associated lane configurations is shown in Figure 1 on page 5.

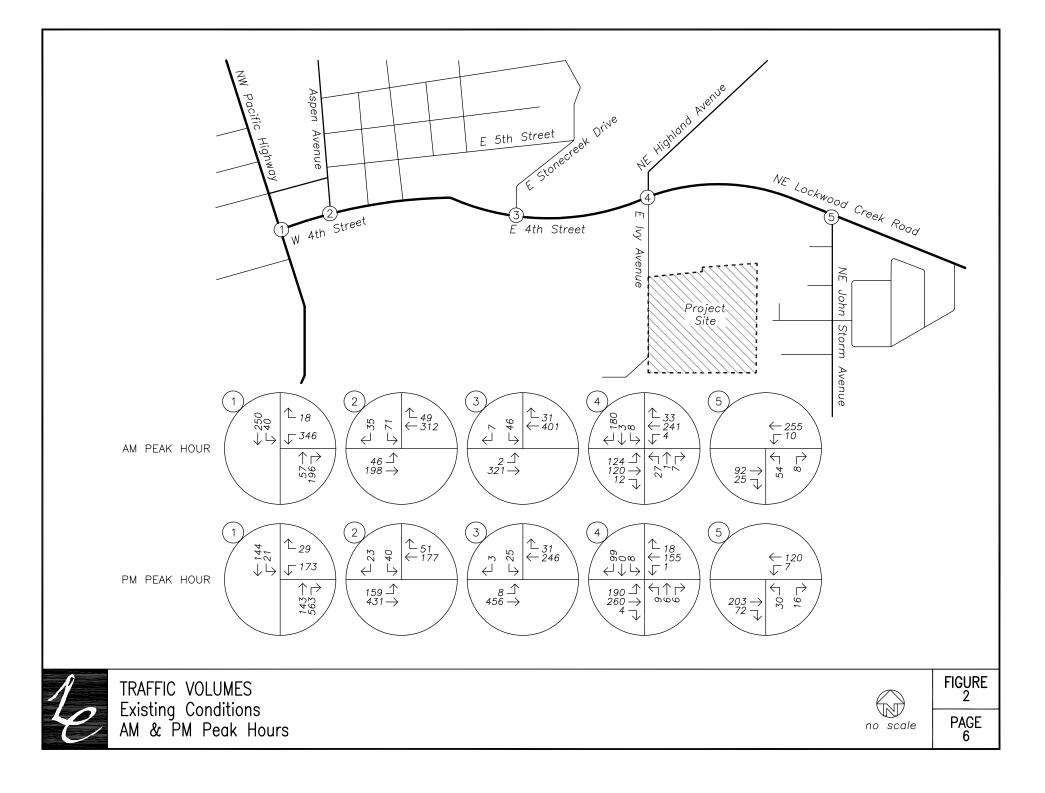
## Traffic Counts

Traffic counts were conducted at the study intersections on Thursday, December 6<sup>th</sup>, 2018, from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM. Data was used from each intersection's respective morning and evening peak hours.

It should be noted that near the time of collecting traffic counts, the intersection of Pacific Highway at W 4<sup>th</sup> Street was undergoing reconstruction from a stop-controlled configuration to a roundabout. However, at the time of data collection all lanes at the roundabout intersection were open to traffic, whereby traffic within the area should be relatively unaltered from standard travel conditions.

Figure 2 on page 6 shows the existing morning and evening peak hour traffic volumes at the study intersections.







## Site Trips

# **Trip Generation**

The proposed Holley Park Subdivision will include the construction of 39 single-family houses, removing one existing house for a net increase of 38 houses. To estimate the number of trips that are and will be generated under existing and proposed conditions, trip rates from the *Trip Generation Manual*<sup>1</sup> were used. Data from land-use codes 210, *Single-Family Detached Housing*; was used to estimate the existing and proposed development's trip generation based on the number of dwelling units.

The trip generation calculations show that the proposed development is projected to generate an additional 28 morning peak hour trips, 38 evening peak hour trips, and 358 average weekday site trips. The trip generation estimates are summarized in Table 3 below. Detailed trip generation calculations are included in the technical appendix to this report.

		<b>6</b> :	Morni	ing Peak	Hour	Eveni	Weekday		
	ITE Code	Size	Enter	Exit	Total	Enter	Exit	Total	Total
Existing Development	210	1 unit	0	1	1	1	0	1	10
Proposed Development	210	39 units	7	22	29	25	14	39	368
Net New Trips		38 units	7	21	28	24	14	38	358

### Table 3: Proposed Development Trip Generation Summary

# Trip Distribution

The trip distribution of site trips to/from the project site was estimated based on locations of likely trip destinations, locations of major transportation facilities in the site vicinity, and existing travel patterns at the study intersections.

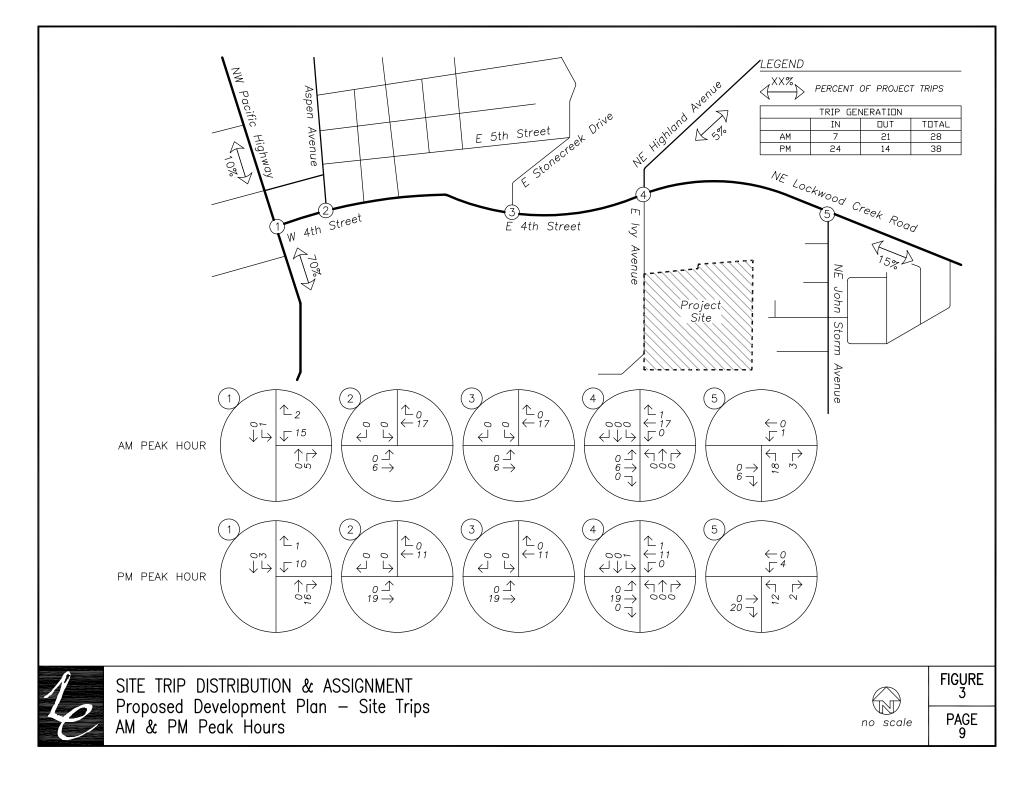
<sup>&</sup>lt;sup>1</sup> Institute of Transportation Engineers (ITE), *Trip Generation Manual*, 10th Edition, 2017.



The following trip distribution was estimated and used for analysis:

- Approximately 70 percent of site trips will travel to/from the south along Pacific Highway;
- Approximately 15 percent of site trips will travel to/from the east along NE Lockwood Creek Road;
- Approximately 10 percent of site trips will travel to/from the north along Pacific Highway; and
- Approximately 5 percent of site trips will travel to/from the north along NE Highland Avenue.

The trip assignment for the site trips generated by the proposed development are shown in Figure 3 on page 9 for the morning and evening peak hours.





# **Future Traffic Volumes**

# 2021 Background Volumes

To provide analysis of the impact of the proposed development on the nearby transportation facilities, an estimate of near-term future traffic volumes is required. In order to approximate the future year 2021 traffic volumes at the study intersections, a compounded growth rate of two percent per year for an assumed buildout condition of three years was applied to the measured existing traffic volumes.

In addition to the traffic volume growth described above, there are three in-process developments that are currently approved for construction near the site vicinity and are expected to impact nearby study intersections. The in-process developments include the following:

- Sunrise Terrace Subdivision (approximately 20 percent complete);
- Stephens Hillside Farm Subdivision (approximately 0 percent complete); and
- La Center Middle School (approximately 0 percent complete).

The three in-process developments are currently not fully contributing trips to the transportation system, but may potentially be by the 2021 buildout year of the site. Additional trips corresponding to each in-process development were added to the year 2021 volumes approximated for each of the study intersections. To maintain a conservative analysis of operation at the study intersections, all in-process developments were assumed to be completed and occupied by year 2021.

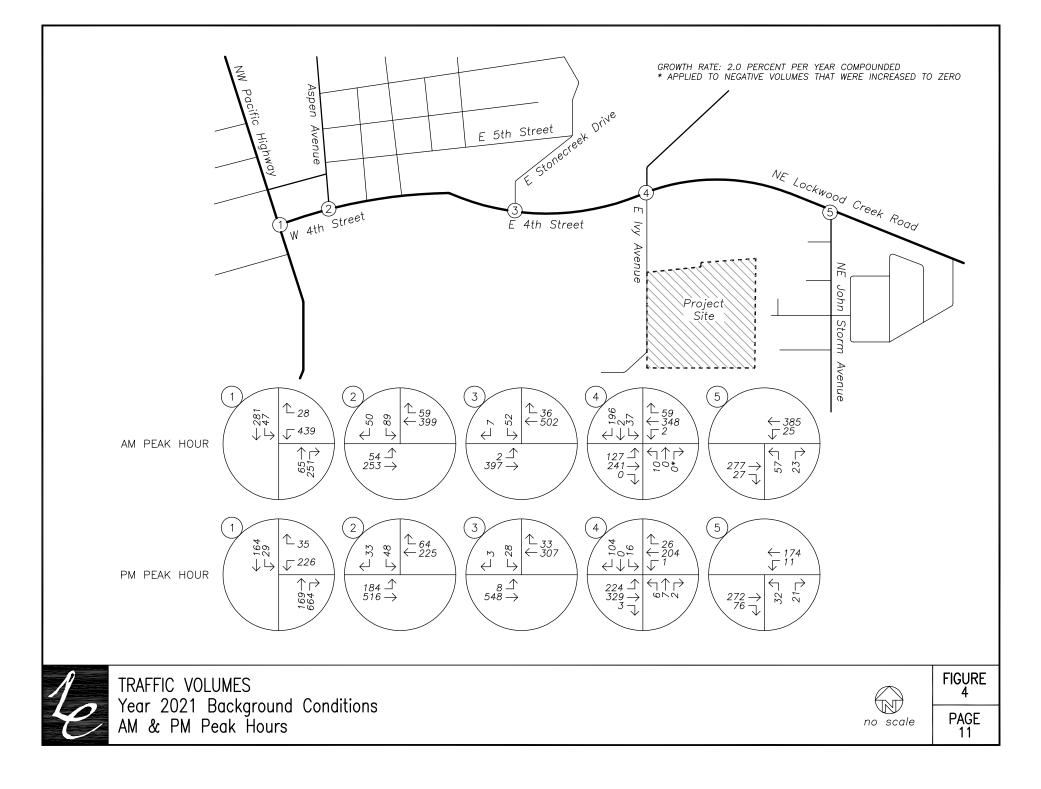
It should be noted that with the La Center Middle School project, some turning movement volumes at the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road were projected to decrease due to traffic rerouting. Therefore, turning movement volumes projected to be negative due to rerouted traffic were increased to zero.

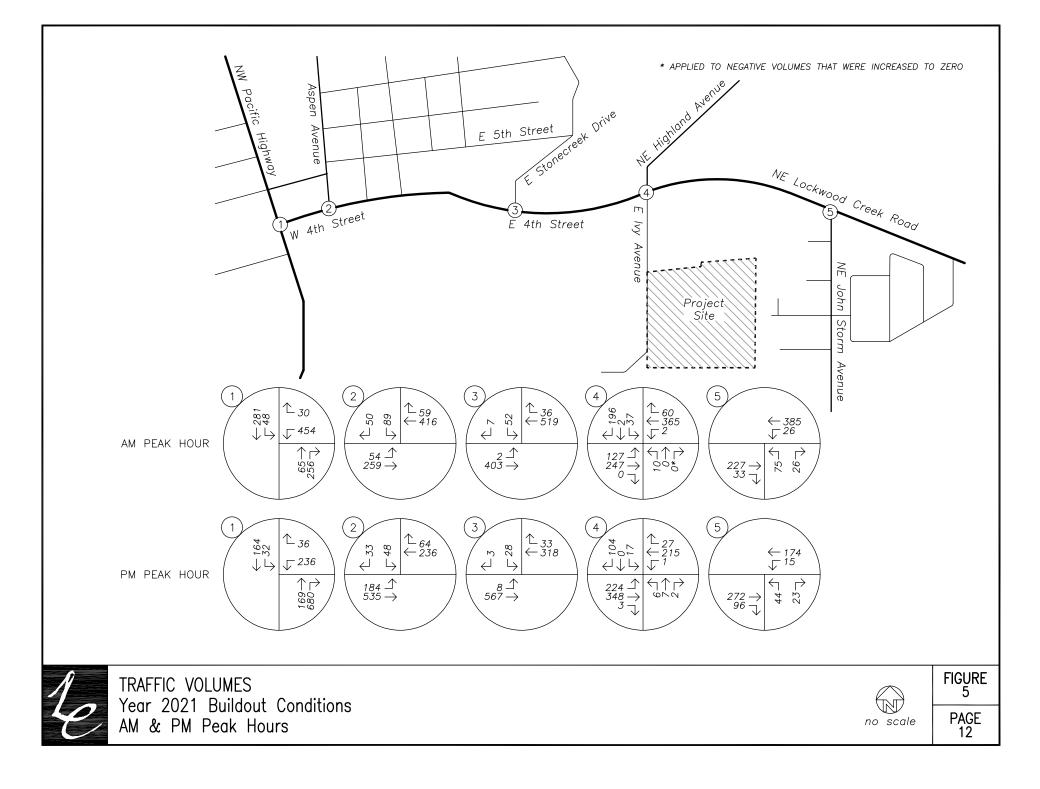
Figure 4 on page 11 shows the projected year 2021 background traffic volumes at the study intersections during the morning and evening peak hours. A separate figure depicting in-process volumes is provided in the appendix to this report.

## 2021 Buildout Volumes

Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2021 background traffic volumes to obtain the expected year 2021 site buildout volumes.

Figure 5 on page 12 show the projected year 2021 peak hour buildout traffic volumes at the study intersections during the morning and evening peak hours.







# Safety Analysis

# Crash Data Analysis

Using data obtained from the Washington Department of Transportation's (WSDOT) Crash Data and Reporting Branch, a review of the most recent available five years of crash history (January 2013 to December 2017) at the study intersections was performed. The crash data was evaluated based on the number of crashes, the type of collisions, the severity of the collisions, and the resulting crash rate for the intersection. Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated using the common assumption that traffic counted during the evening peak hour represents approximately 10 percent of the annual average daily traffic (AADT) at the intersection. Crash rates in excess of 1.0 crashes per million entering vehicles (CMEV) may be indicative of design deficiencies and therefore require a need for further investigation and possible mitigation.

With regard to crash severity, WSDOT classifies crashes in the following categories:

- No Apparent Injury (NA);
- Possible Injury (P);
- Suspected Minor Injury (SM);
- Suspected Serious Injury (SS); and
- Fatality or Fatal Injury.

Table 5 provides a summary of crash types while Table 6 summarizes crash severities and rates for each of the study intersections. Crash data is included in the technical appendix to this report.



### Table 4: Crash Type Summary

			Total					
	Intersection	Rear End	Turn	Angle	Fixed Object	Ped/ Bike	Other	Crashes
1	Pacific Highway at W 4th Street	0	9	0	0	0	0	9
2	Aspen Avenue at E/W 4th Street	0	0	0	0	0	0	0
3	E Stonecreek Drive at E 4th Street	0	0	0	0	0	0	0
4	NE Highland/Ivy Ave at E 4th St/NE Lockwood Creek Rd	0	1	0	1	1	0	3
5	NE John Storm Avenue NE Lockwood Creek Road	0	0	0	0	0	0	0

### Table 5: Crash Severity and Rate Summary

				Cras	h Seve	rity		Total		Crash
	Intersection	NA	Р	SM	SS Fatal		Unknown	Crashes	AADT	Rate
1	Pacific Highway at W 4th Street	4	4	1	0	0	0	9	10,730	0.46
2	Aspen Avenue at E/W 4th Street	0	0	0	0	0	0	0	8,810	0.00
3	E Stonecreek Drive at E 4th Street	0	0	0	0	0	0	0	7,690	0.00
4	NE Highland/Ivy Ave at E 4th St/NE Lockwood Creek Rd	2	1	0	0	0	0	3	7,560	0.22
5	NE John Storm Avenue NE Lockwood Creek Road	0	0	0	0	0	0	0	4,480	0.00

Based on a review of the crash data, there was one crash which involved a pedestrian. The crash occurred at the intersection of NE Highland/Ivy Avenue at E 4<sup>th</sup> Street/NE Lockwood Creek Road where the driver of an eastbound truck failed to yield right-of-way to a pedestrian crossing at the intersection. The crash resulted in one person sustaining *Possible Injury*.

It should be noted that the intersection of Pacific Highway at W 4<sup>th</sup> Street was recently converted from twoway stop-control to a roundabout. Of the nine reported crashes at the intersection, eight involved left-turning vehicles. Since left-turning movements are no longer permitted at the intersection, it is expected that these types of collisions will occur with less frequency.



Based on the most recent five years of crash data, no significant trends or crash patterns were identified at any of the study intersections that are indicative of safety concerns.

# Warrant Analysis

Left-turn lane and preliminary traffic signal warrants were examined for the study intersections where such treatments would be applicable.

A left-turn refuge lane is primarily a safety consideration for the major-street, removing left-turning vehicles from the through traffic stream. The left-turn lane warrants used were developed from the *National Cooperative Highway Research Project's* (NCHRP) *Report 457*. Turn lane warrants were evaluated based on the number of advancing and opposing vehicles as well as the number of turning vehicles, the travel speed, and the number of through lanes.

Left-turn lane warrants are not projected to be met for any of the applicable study intersections under any of the analysis scenarios through the 2021 buildout year of the proposed development. Accordingly, no new turn lanes are necessary or recommended.

Preliminary traffic signal warrants were examined for the unsignalized study intersections to determine whether the installation of a new traffic signal will be warranted by the 2021 site buildout year. Due to insufficient main and side-street traffic volumes, traffic signal warrants are not projected to be met at any of the study intersections under any of the analysis scenarios.



# **Operational Analysis**

# Intersection Capacity Analysis

A capacity and delay analysis were conducted for each of the study intersections per the unsignalized intersection analysis methodologies in the *Highway Capacity Manual*<sup>2</sup> (HCM). Intersections are generally evaluated based on the average control delay experienced by vehicles and are assigned a grade according to their operation. The level of service (LOS) of an intersection can range from LOS A, which indicates very little or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume-to-capacity (v/c) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

Per the La Center Transportation Capital Facilities Plan (2018), the following minimum operation standards apply at intersections under City jurisdiction:

- Signalized intersections, as a whole, are required to operate at LOS D or better with a v/c ratio of 0.95 or less during the highest one-hour period of an average weekday.
- Unsignalized intersections are required to operate at LOS E or better for all movements during the highest one-hour period of an average weekday.

It should be noted that the highest one-hour period for the intersections of Pacific Highway at W 4th Street and Aspen Avenue at E/W 4th Street occurs during the evening peak hour. The highest one-hour period for the other three intersections generally occurs during the morning peak hour (highest one-hour period for NE John Storm Avenue at NE Lockwood Creek Road under existing conditions occurs during the evening peak hour).

The v/c, delay, and LOS results of the capacity analysis are shown in Table 7 for the morning and evening peak hours. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

<sup>&</sup>lt;sup>2</sup> Transportation Research Board, Highway Capacity Manual, 6th Edition, 2016.



	Мо	rning Peak H	lour	Eve	ening Peak H	our
	LOS	Delay (s)	v/c	LOS	Delay (s)	v/c
1. Pacific Highway at W 4th Street						
Existing Conditions	А	6	0.32	А	6	0.43
2021 Background Conditions	А	7	0.39	А	6	0.52
2021 Buildout Conditions	А	7	0.41	А	7	0.53
2. Aspen Avenue at E/W 4th Street						
Existing Conditions	С	19	0.25	С	25	0.19
2021 Background Conditions	D	28	0.41	Е	37	0.32
2021 Buildout Conditions	D	30	0.43	Е	39	0.33
3. E Stonecreek Drive at E 4th Street						
Existing Conditions	С	22	0.25	С	16	0.08
2021 Background Conditions	D	33	0.38	С	19	0.11
2021 Buildout Conditions	Е	35	0.40	С	19	0.12
4. NE Highland/Ivy Ave at E 4th St/NE Lockwood Creek Rd						
Existing Conditions	F	75	0.44	С	25	0.15
2021 Background Conditions	F	> 90	0.55	D	34	0.18
2021 Buildout Conditions	F	> 90	0.57	Е	36	0.18
5. NE John Storm Avenue at NE Lockwood Creek Road						
Existing Conditions	В	14	0.19	В	11	0.08
2021 Background Conditions	D	25	0.41	В	12	0.11
2021 Buildout Conditions	D	31	0.53	В	13	0.14

### Table 6: Intersection Capacity Analysis Summary

**BOLDED** text indicates operation at LOS F.

Based on the results of the operational analysis, the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road is projected to operate at LOS F during the morning peak hour for all analysis scenarios. Further inspection of potential mitigation at the intersection is discussed within the following *Mitigation Analysis* section. All other study intersections are projected to operate acceptably for all analysis scenarios.



# **Mitigation Analysis**

As determined within the *Intersection Capacity Analysis* section, the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road is projected to operate in excess of City of La Center standards. The *La Center Transportation Capital Facilities Plan* (CFP) was reviewed to determine any planned projects at the intersection.

Per the City's CFP, the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road was projected to operate at LOS F under existing conditions during the morning peak hour. Although the intersection is projected to operate in excess acceptable levels of operation, it was determined that high delays at the intersection would impact a small number of vehicles turning from the minor-street onto E 4<sup>th</sup> Street/NE Lockwood Creek Road. Under these conditions, it was assumed that drivers familiar with the area would generally avoid entering the intersection from the minor-street and reroute to other nearby streets/school access locations when high volumes of major-street traffic would be expected. No mitigation was recommended at this intersection per the CFP.

The CFP further described that the northbound left-turn at the intersection during the morning peak hour was currently and projected to operate at LOS F; however, the movement was expected to serve approximately 25 vehicles during the peak hour. Based on the analysis within this TIS and following the buildout of the planned La Center Middle School project, the northbound left-turn movement is projected to serve no 10 vehicles during the morning peak hour. Since the proposed development will not add additional traffic to this movement, no mitigation is necessary or recommended.



# Conclusions

No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns.

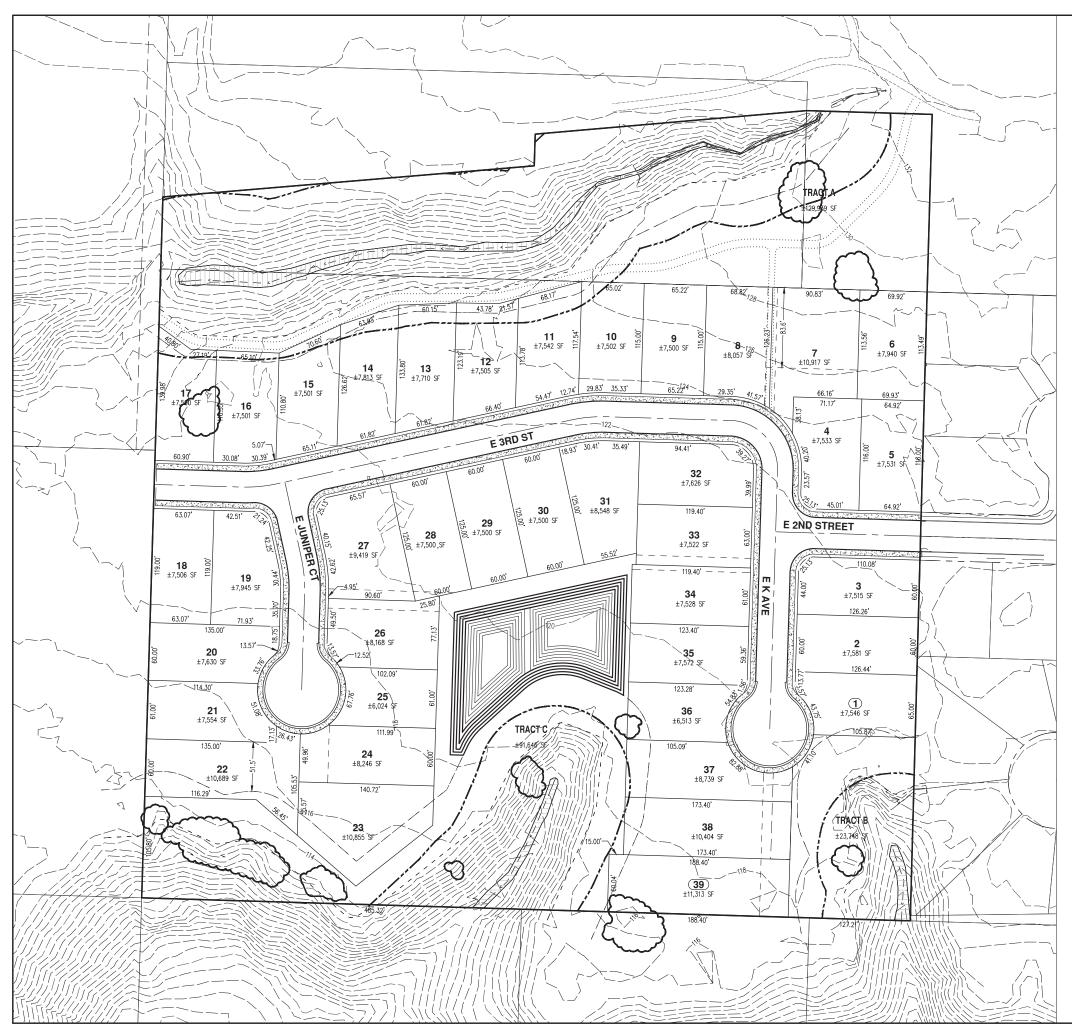
Left-turn lane warrants are not projected to be met for any of the applicable study intersections under any of the analysis scenarios through the 2021 buildout year of the proposed development.

Traffic signal warrants are not projected to be met at any of the study intersections under any of the analysis scenarios through the 2021 buildout year of the site.

Based on the results of the operational analysis, the intersection of NE Highland/Ivy Avenue at E 4th Street/NE Lockwood Creek Road is currently and projected to operate at LOS F during the morning peak hour. However, based on analyses and conclusions made within *La Center Transportation Capital Facilities Plan* regarding operation and mitigation at the intersection, no mitigation is necessary or recommended in with buildout of the Holley Park Subdivision.



Appendix



AKS ENGINEERING & FORESTRY, LLC 9600 NE 1261H AVE STE 2220 VANCOUCER, MA 39632 P: 500820.0419 F: 500820.0426 eks-eng.com	WASHINGTON ENGINEERING • SURVEYING • NATURAL RESOURCES FORESTRY • PLANNING • LANDSCAPE ARCHITECTURE
HOLLEY PARK SUBDIVISION	WASHINGTON
HOLL	LA CENTER
LAYOUT 5	
DESIGNED BY: DRAWN BY: CHECKED BY: SCALE: DATE: 2/13/19	DAW DAW SMH AS NOTED
REWISIONS JOB NUMBI SHEET	ĒR

N	
SCALE: 1"= 50 FEET	
50 0 20 30 40 50	

**Total Vehicle Summary** 



# Pacific Hwy & W 4th St

Thursday, December 06, 2018 7:00 AM to 9:00 AM

# 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start		b <b>ound</b> c Hwy			South Pacific	: Hwy	t <b>bound</b> 4th St		Westb W 4t	h St		Interval		Pedes Cross	swalk	
Time	Т	R	Bikes	L	Т	Bikes	Bikes	L		R	Bikes	Total	North	South	East	West
7:00 AM	1	8	0	1	24	0	0	24		0	0	58	0	0	0	0
7:05 AM	3	9	0	2	24	0	0	24		1	0	63	0	0	0	0
7:10 AM	3	7	0	1	16	0	0	26		0	0	53	0	0	0	0
7:15 AM	3	13	0	1	26	0	0	31		0	0	74	0	2	0	0
7:20 AM	5	8	0	3	28	0	0	21		1	0	66	0	0	0	0
7:25 AM	3	15	0	3	22	0	0	44		1	0	88	0	0	0	0
7:30 AM	2	12	0	4	23	0	0	22		2	0	65	0	0	0	0
7:35 AM	5	19	0	2	27	0	0	30		1	0	84	2	0	0	0
7:40 AM	7	13	0	2	30	0	0	22		2	0	76	0	0	1	0
7:45 AM	9	22	0	3	28	0	0	19		0	0	81	0	2	0	0
7:50 AM	4	20	0	3	25	0	0	25		0	0	77	1	0	1	0
7:55 AM	5	19	0	3	17	0	0	29		2	0	75	0	0	0	0
8:00 AM	6	11	0	5	13	0	0	25		4	0	64	0	0	1	0
8:05 AM	2	20	0	5	18	0	0	29		2	0	76	0	0	0	0
8:10 AM	3	18	0	5	17	0	0	35		0	0	78	0	0	1	0
8:15 AM	4	15	0	3	11	0	0	36		3	0	72	0	0	0	0
8:20 AM	7	12	0	2	19	0	0	30		1	0	71	0	0	0	0
8:25 AM	2	23	0	1	19	0	0	29		1	0	75	0	0	0	0
8:30 AM	4	9	0	0	19	0	0	26		2	0	60	0	0	0	0
8:35 AM	12	14	0	1	21	0	0	22		2	0	72	0	0	1	0
8:40 AM	5	14	0	1	19	0	0	19		0	0	58	0	0	1	0
8:45 AM	7	10	0	1	16	0	0	11		0	0	45	0	0	0	0
8:50 AM	3	16	0	0	10	0	0	17		2	0	48	0	1	0	0
8:55 AM	8	15	0	3	18	0	0	17		2	0	63	0	1	0	0
Total Survey	113	342	0	55	490	0	0	613		29	0	1,642	3	6	6	0

### 15-Minute Interval Summary

#### 7:00 AM to 9:00 AM

Interval Start		Northbound         Southbound         Eastbound         Westbound           Pacific Hwy         Pacific Hwy         W 4th St         W 4th St							Interval	Pedestrians Crosswalk							
Time	Т	R	Bikes	L	Т	Bikes		1	Bike	s L	R	Bikes	Total	North	South	East	West
7:00 AM	7	24	0	4	64	0			0	74	1	0	174	0	0	0	0
7:15 AM	11	36	0	7	76	0			0	96	2	0	228	0	2	0	0
7:30 AM	14	44	0	8	80	0			0	74	5	0	225	2	0	1	0
7:45 AM	18	61	0	9	70	0			0	73	2	0	233	1	2	1	0
8:00 AM	11	49	0	15	48	0			0	89	6	0	218	0	0	2	0
8:15 AM	13	50	0	6	49	0			0	95	5	0	218	0	0	0	0
8:30 AM	21	37	0	2	59	0	1		0	67	4	0	190	0	0	2	0
8:45 AM	18	41	0	4	44	0			0	45	4	0	156	0	2	0	0
Total Survey	113	342	0	55	490	0			0	613	29	0	1,642	3	6	6	0

# Peak Hour Summary 7:25 AM to 8:25 AM

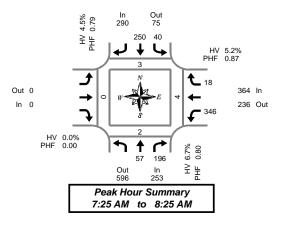
7.25 AW	10 0	.25 A	IVI																		
Bv		North	bound			South	bound			Easth	ound			West	oound				Pedes	trians	
,		Pacifi	c Hwy			Pacifi	c Hwy			W 4	th St			W 4	th St		Total		Cross	swalk	
Approach	In				In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East	West
Volume	253 596 849 0			0	290	75	365	0	0	0	0	0	364	236	600	0	907	3	2	4	0
%HV	6.7%					4.5	5%			0.0	0%			5.3	2%		5.4%				
PHF	0.80					0.	79			0.	00			0.	87		0.94				
		0.80																			

By Movement		Northl Pacifi				South Pacifi	<b>bound</b> c Hwy				bound th St				bound th St		Total
wovernerit		Т	R	Total	L	Т		Total				Total	L		R	Total	
Volume		57	196	253	40	250		290				0	346		18	364	907
%HV	NA	10.5%	5.6%	6.7%	10.0%	3.6%	NA	4.5%	NA	NA	NA	0.0%	5.5%	NA	0.0%	5.2%	5.4%
PHF		0.68	0.80	0.80	0.67	0.74		0.79				0.00	0.86		0.56	0.87	0.94

### Rolling Hour Summary

### 7:00 AM to 9:00 AM

Interval	North	bound			South	bound		Eastb	ound			Westb	ound				Pedes	trians	
Start	Pacific	c Hwy			Pacifi	c Hwy		W 41	th St			W 41	h St		Interval		Cross	swalk	
Time	Т	R	Bikes	L	T Bikes				B	Bikes	L		R	Bikes	Total	North	South	East	West
7:00 AM	50	165	0	28	290	0				0	317		10	0	860	3	4	2	0
7:15 AM	54	190	0	39	274	0				0	332		15	0	904	3	4	4	0
7:30 AM	56	204	0	38	247	0				0	331		18	0	894	3	2	4	0
7:45 AM	63	197	0	32	226	0				0	324		17	0	859	1	2	5	0
8:00 AM	63	177	0	27						0	296		19	0	782	0	2	4	0



### **Heavy Vehicle Summary**



# Pacific Hwy & W 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 

$\begin{array}{c} 13 & 0 \\ 13 & 6 \\ 9 & 4 \\ 4 & 4 & 4 \\ \hline 4 & 4 & 4 \\$
6 11 Out In 28 17
Peak Hour Summary 7:25 AM to 8:25 AM

Out 0

In 0

# Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start		<b>bound</b> c Hwy				<b>bound</b> c Hwy	Eastbo W 4th			Westb W 41			Interva
Time	Т	R	Total	L	Т	Total		Total	L		R	Total	Total
7:00 AM	0	2	2	0	1	1		0	0		0	0	3
7:05 AM	0	3	3	0	0	0		0	1		0	1	4
7:10 AM	2	3	5	0	0	0	1	0	1		0	1	6
7:15 AM	0	1	1	0	0	0		0	0		0	0	1
7:20 AM	1	0	1	0	0	0		0	0		0	0	1
7:25 AM	0	0	0	0	1	1		0	0		0	0	1
7:30 AM	0	0	0	0	0	0		0	0		0	0	0
7:35 AM	2	0	2	0	0	0		0	0		0	0	2
7:40 AM	1	1	2	0	2	2		0	0		0	0	4
7:45 AM	0	0	0	1	2	3		0	0		0	0	3
7:50 AM	1	1	2	0	2	2		0	1		0	1	5
7:55 AM	0	2	2	1	0	1		0	0		0	0	3
8:00 AM	1	1	2	0	0	0		0	0		0	0	2
8:05 AM	0	1	1	0	1	1		0	4		0	4	6
8:10 AM	0	1	1	1	1	2	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	0	10		0	10	13
8:15 AM	1	3	4	0	0	0		0	3		0	3	7
8:20 AM	0	1	1	1	0	1		0	1		0	1	3
8:25 AM	0	2	2	0	0	0		0	0		0	0	2
8:30 AM	0	0	0	0	1	1		0	0		0	0	1
8:35 AM	0	1	1	0	0	0		0	1		0	1	2
8:40 AM	0	0	0	0	1	1		0	1		0	1	2
8:45 AM	0	0	0	0	0	0		0	0		0	0	0
8:50 AM	1	3	4	0	0	0		0	1		0	1	5
8:55 AM	1	2	3	0	0	0		0	1		0	1	4
Total Survey	11	28	39	4	12	16		0	25		0	25	80

### Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start		<b>bound</b> ic Hwy				<b>bound</b> c Hwy		oound th St		Westbound W 4th St		Interval
Time	Т	R	Total	L	Т	Total		Total	L	R	Total	Total
7:00 AM	2	8	10	0	1	1		0	2	0	2	13
7:15 AM	1	1	2	0	1	1		0	0	0	0	3
7:30 AM	3	1	4	0	2	2		0	0	0	0	6
7:45 AM	1	3	4	2	4	6		0	1	0	1	11
8:00 AM	1	3	4	1	2	3		0	14	0	14	21
8:15 AM	1	6	7	1	0	1		0	4	0	4	12
8:30 AM	0	1	1	0	2	2	1	0	2	0	2	5
8:45 AM	2	5	7	0	0	0		0	2	0	2	9
Total Survey	11	28	39	4	12	16		0	25	0	25	80

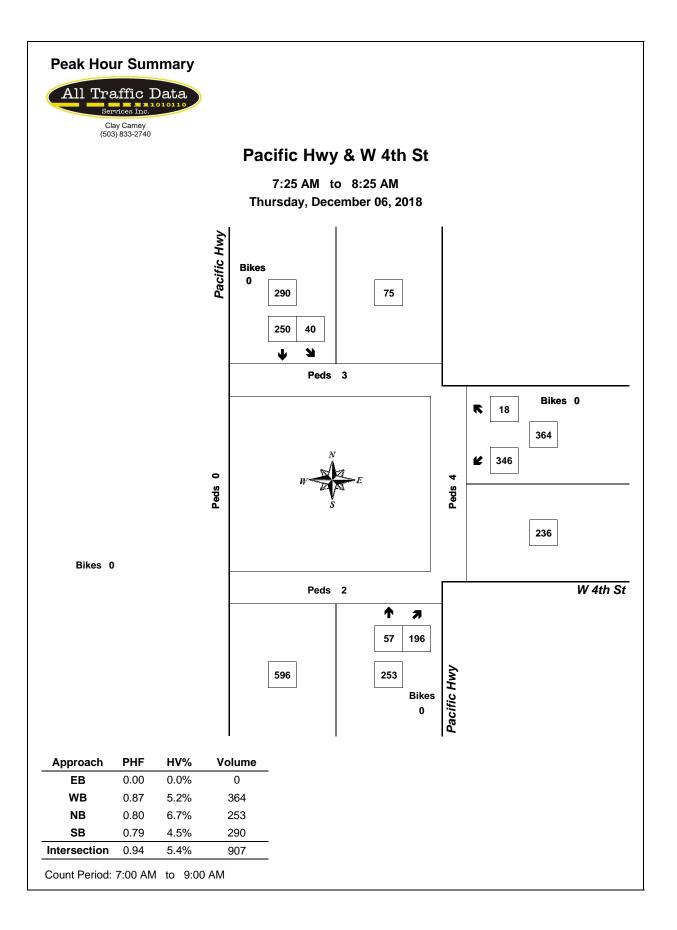
#### Heavy Vehicle Peak Hour Summary 7:25 AM to 8:25 AM

By			<b>bound</b> ic Hwy			<b>bound</b> c Hwy			bound th St			bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	17	28	45	13	6	19	0	0	0	19	15	34	49
PHF	0.71			0.46			0.00			0.28			0.47

By Movement	North Pacifi	bound c Hwy				<b>bound</b> c Hwy		Eastb W 4	ound th St			Westa W 4			Total
wovernent	Т	R	Total	L	Т	-	Total			Total	L		R	Total	
Volume	6	11	17	4	9		13			0	19		0	19	49
PHF	0.50	0.55	0.71	0.50	0.38		0.46			0.00	0.28		0.00	0.28	0.47

#### Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval	North	bound			South	bound	Easth	oound			West			
Start	Pacifi	c Hwy			Pacifi	c Hwy	W 4	th St			W 4	th St		Interval
Time	Т	R	Total	L	Т	Tota	1	1	Total	L		R	Total	Total
7:00 AM	7	13	20	2	8	10			0	3		0	3	33
7:15 AM	6	8	14	3	9	12			0	15		0	15	41
7:30 AM	6	13	19	4	8	12			0	19		0	19	50
7:45 AM	3	13	16	4	8	12			0	21		0	21	49
8:00 AM	4	15	19	2	4	6			0	22		0	22	47



**Total Vehicle Summary** 



# Pacific Hwy & W 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

#### 5-Minute Interval Summary 4:00 PM to 6:00 PM

4:00 PM	10	0:00 P	IVI															
Interval		North	bound			South	bound	East	bound		Westb	ound				Pedes	trians	
Start		Pacifi	ic Hwy			Pacifi	c Hwy	W 4	Ith St		W 4t	h St		Interval		Cross	swalk	
Time		Т	R	Bikes	L	Т	Bikes		Bikes	L		R	Bikes	Total	North	South	East	West
4:00 PM		11	47	0	4	9	0		0	23		3	0	97	0	0	0	0
4:05 PM		9	44	0	2	10	0		0	18		1	0	84	0	0	0	0
4:10 PM		7	43	0	1	10	0		0	16		4	0	81	0	0	0	0
4:15 PM		9	40	0	0	16	0		0	19		1	0	85	2	0	0	0
4:20 PM		8	45	0	1	14	0		0	13		0	0	81	0	0	0	0
4:25 PM		12	37	0	2	12	0		0	21		6	0	90	0	0	0	0
4:30 PM		17	50	0	3	16	0		0	16		1	0	103	0	0	0	0
4:35 PM		13	40	0	1	4	0		0	20		1	0	79	0	0	0	0
4:40 PM		15	37	0	1	12	0		0	17		2	0	84	0	0	0	0
4:45 PM		10	35	0	4	10	0		0	10		1	0	70	0	0	0	0
4:50 PM		17	38	0	3	9	0		0	19		2	0	88	1	0	0	0
4:55 PM		5	42	0	3	10	0		0	9		5	0	74	2	0	0	0
5:00 PM		10	45	0	1	8	0		0	9		5	0	78	1	0	0	0
5:05 PM		16	41	0	2	18	0		0	18		2	0	97	0	0	0	0
5:10 PM		6	35	0	0	13	0		0	19		3	0	76	0	0	0	0
5:15 PM		14	50	0	2	16	0		0	17		0	0	99	1	0	0	0
5:20 PM		13	50	0	1	12	0		0	15		2	0	93	0	0	0	0
5:25 PM		11	51	0	1	10	0		0	9		3	0	85	1	0	0	0
5:30 PM		9	61	0	3	11	0		0	17		3	0	104	0	0	0	0
5:35 PM		17	49	0	3	10	0		0	14		2	0	95	0	0	0	0
5:40 PM		8	47	0	2	11	0		0	16		3	0	87	0	0	0	0
5:45 PM		17	47	0	2	12	0	1	0	10		2	0	90	0	0	0	0
5:50 PM		12	44	0	3	12	0		0	17		4	0	92	0	0	0	0
5:55 PM		10	43	0	1	11	0		0	12		0	0	77	0	0	0	0
Total Survey		276	1,061	0	46	276	0		0	374		56	0	2,089	8	0	0	0

### 15-Minute Interval Summary

### 4:00 PM to 6:00 PM

Interval		bound				bound		bound			West						strians	
Start	Pacif	ic Hwy			Pacifi	c Hwy	W 4	th St			W 4	th St		Interval		Cros	swalk	
Time	Т	R	Bikes	L	Т	Bikes			Bikes	L		R	Bikes	Total	North	South	East	West
4:00 PM	27	134	0	7	29	0			0	57		8	0	262	0	0	0	0
4:15 PM	29	122	0	3	42	0			0	53		7	0	256	2	0	0	0
4:30 PM	45	127	0	5	32	0	1		0	53		4	0	266	0	0	0	0
4:45 PM	32	115	0	10	29	0			0	38		8	0	232	3	0	0	0
5:00 PM	32	121	0	3	39	0			0	46		10	0	251	1	0	0	0
5:15 PM	38	151	0	4	38	0			0	41		5	0	277	2	0	0	0
5:30 PM	34	157	0	8	32	0	1		0	47		8	0	286	0	0	0	0
5:45 PM	39	134	0	6	35	0			0	39		6	0	259	0	0	0	0
Total Survey	276	1,061	0	46	276	0			0	374		56	0	2,089	8	0	0	0

# Peak Hour Summary 5:00 PM to 6:00 PM

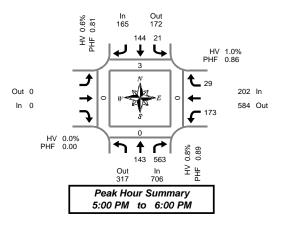
Bv			bound				bound				ound				bound		_		Pedes		
A		Pacifi	ic Hwy			Pacifi	c Hwy			W 4	th St			W 4	th St		Total		Cross	swalk	
Approach	In	Out	Total	Bikes	In					Out	Total	Bikes	In	Out	Total	Bikes		North	South	East	Ì
Volume	706	317	1,023	0	165 172 337 0				0	0	0	0	202	584	786	0	1,073	3	0	0	ĺ
%HV		0.8	8%		0.6%					0.0	0%			1.	0%		0.8%	-			Ì
PHF		0.89 0.81						0.	00			0.	86		0.94						

By Movement		North Pacifi	bound c Hwy			South Pacific					th St				bound th St		Total
wovernent		Т	R	Total	L	Т		Total				Total	L		R	Total	
Volume		143	563	706	21	144		165				0	173		29	202	1,073
%HV	NA	0.7%	0.9%	0.8%	0.0%	0.7%	NA	0.6%	NA	NA	NA	0.0%	1.2%	NA	0.0%	1.0%	0.8%
PHF		0.85	0.87	0.89	0.66	0.77		0.81				0.00	0.80		0.73	0.86	0.94

### Rolling Hour Summary

### 4:00 PM to 6:00 PM

Interval	North	oound			South	bound	Eastb	ound			Westb	ound				Pedes	trians	
Start	Pacifi	c Hwy			Pacifi	c Hwy	W 4t	th St			W 41	h St		Interval		Cross	swalk	
Time	Т	R	Bikes	L	Т	Bikes		B	ikes	L		R	Bikes	Total	North	South	East	West
4:00 PM	133	498	0	25	132	0			0	201		27	0	1,016	5	0	0	0
4:15 PM	138	485	0	21	142	0			0	190		29	0	1,005	6	0	0	0
4:30 PM	147	514	0	22	138	0			0	178		27	0	1,026	6	0	0	0
4:45 PM	136	544	0	25	138	0			0	172		31	0	1,046	6	0	0	0
5:00 PM	143	563	0	21	144	0			0	173		29	0	1,073	3	0	0	0



East West

### **Heavy Vehicle Summary**



# Pacific Hwy & W 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

$ \begin{array}{c}                                     $
" 1 5 Out In
3 6
Peak Hour Summary
5:00 PM to 6:00 PM

Out 0

In 0

# Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start		<b>bound</b> ic Hwy				bound c Hwy	Eastboun W 4th St	d		Westb W 4t	bound th St		Interva
Time	Т	R	Total	L	Т	Total		Total	L		R	Total	Total
4:00 PM	1	1	2	0	0	0		0	3		0	3	5
4:05 PM	0	2	2	0	2	2		0	1		0	1	5
4:10 PM	1	0	1	0	0	0		0	1		0	1	2
4:15 PM	0	0	0	0	0	0		0	2		0	2	2
4:20 PM	1	0	1	0	0	0		0	2		0	2	3
4:25 PM	1	0	1	0	1	1		0	0		0	0	2
4:30 PM	0	3	3	0	0	0		0	0		0	0	3
4:35 PM	0	2	2	0	0	0		0	1		0	1	3
4:40 PM	0	1	1	0	0	0		0	2		0	2	3
4:45 PM	0	0	0	0	0	0		0	0		0	0	0
4:50 PM	0	0	0	0	0	0		0	0		0	0	0
4:55 PM	1	0	1	0	0	0		0	0		0	0	1
5:00 PM	0	0	0	0	0	0		0	0		0	0	0
5:05 PM	0	1	1	0	0	0		0	0		0	0	1
5:10 PM	0	0	0	0	0	0		0	1		0	1	1
5:15 PM	0	0	0	0	0	0		0	0		0	0	0
5:20 PM	0	0	0	0	0	0		0	0		0	0	0
5:25 PM	1	1	2	0	0	0		0	1		0	1	3
5:30 PM	0	1	1	0	0	0		0	0		0	0	1
5:35 PM	0	1	1	0	0	0		0	0		0	0	1
5:40 PM	0	0	0	0	0	0		0	0		0	0	0
5:45 PM	0	0	0	0	0	0		0	0		0	0	0
5:50 PM	0	0	0	0	1	1		0	0		0	0	1
5:55 PM	0	1	1	0	0	0		0	0		0	0	1
Total Survey	6	14	20	0	4	4		0	14		0	14	38

# Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start		<b>bound</b> ic Hwy				<b>bound</b> c Hwy		astbound W 4th St			Westa W 4	bound th St		Interval
Time	Т	R	Total	L	Т	Total			Total	L		R	Total	Total
4:00 PM	2	3	5	0	2	2			0	5		0	5	12
4:15 PM	2	0	2	0	1	1			0	4		0	4	7
4:30 PM	0	6	6	0	0	0			0	3		0	3	9
4:45 PM	1	0	1	0	0	0			0	0		0	0	1
5:00 PM	0	1	1	0	0	0			0	1		0	1	2
5:15 PM	1	1	2	0	0	0			0	1		0	1	3
5:30 PM	0	2	2	0	0	0	1		0	0		0	0	2
5:45 PM	0	1	1	0	1	1			0	0		0	0	2
Total Survey	6	14	20	0	4	4			0	14		0	14	38

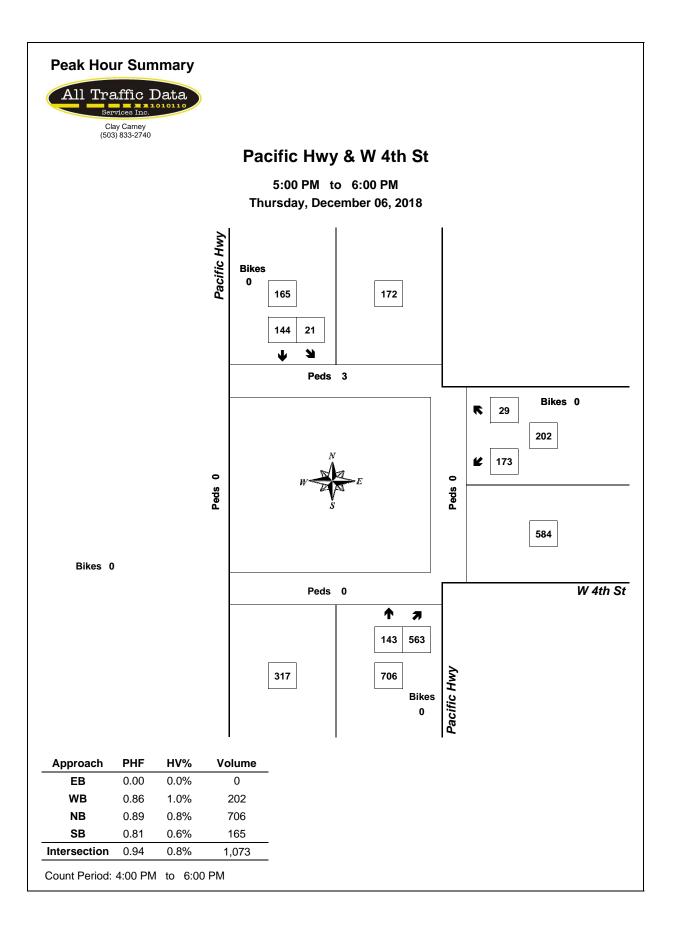
# Heavy Vehicle Peak Hour Summary 5:00 PM to 6:00 PM

By			<b>bound</b> c Hwy			<b>bound</b> c Hwy			bound th St		Westl W 4	bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	6	3	9	1	1	2	0	0	0	2	5	7	9
PHF	0.38			0.25			0.00			0.50			0.45

By Movement	North Pacifi					<b>bound</b> c Hwy			bound th St			Westa W 4			Total
wovernern	Т	R	Total	L	Т		Total			Total	L		R	Total	
Volume	1	5	6	0	1		1			0	2		0	2	9
PHF	0.25	0.42	0.38	0.00	0.25		0.25			0.00	0.50		0.00	0.50	0.45

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval	North	bound				bound	East	bound		West	bound		
Start	Pacifi	ic Hwy			Pacifi	c Hwy	W	4th St		W 4	th St		Interval
Time	Т	R	Total	L	Т	Total		Total	L	1	R	Total	Total
4:00 PM	5	9	14	0	3	3		0	12		0	12	29
4:15 PM	3	7	10	0	1	1		0	8		0	8	19
4:30 PM	2	8	10	0	0	0		0	5		0	5	15
4:45 PM	2	4	6	0	0	0		0	2	1	0	2	8
5:00 PM	1	5	6	0	1	1		0	2		0	2	9



**Total Vehicle Summary** 



# Aspen Ave & E 4th St

Thursday, December 06, 2018 7:00 AM to 9:00 AM

# 5-Minute Interval Summary

Interval Start	Northbou Aspen A			Southbound Aspen Ave			Eastb E 4t		Westb E 4t			Interval		Pedes Cross		
Time		Bikes	L	R	Bikes	L	Т	Bikes	Т	R	Bikes	Total	North	South	East	West
7:00 AM		0	2	2	0	1	6	0	26	2	0	39	1	0	0	1
7:05 AM		0	2	2	0	1	12	0	20	0	0	37	0	0	0	0
7:10 AM		0	2	2	0	0	7	0	27	2	0	40	0	0	0	0
7:15 AM		0	0	1	0	2	11	0	27	0	0	41	0	0	0	0
7:20 AM		0	2	3	0	0	10	0	21	1	0	37	0	0	0	0
7:25 AM		0	1	5	0	6	12	0	36	1	0	61	0	0	0	0
7:30 AM		0	2	1	0	3	13	0	27	1	0	47	0	0	0	0
7:35 AM		0	4	7	0	2	21	0	20	1	0	55	0	0	0	0
7:40 AM		0	2	2	0	1	13	0	18	3	0	39	0	0	0	0
7:45 AM		0	6	0	0	5	15	0	22	3	0	51	0	0	0	0
7:50 AM		0	10	4	0	6	21	0	22	6	0	69	0	0	0	0
7:55 AM		0	6	5	0	3	22	0	22	5	0	63	0	0	0	0
8:00 AM		0	11	5	0	1	14	0	24	3	0	58	0	0	0	0
8:05 AM		0	8	2	0	4	20	0	32	4	0	70	1	0	0	0
8:10 AM		0	15	2	0	4	18	0	31	4	0	74	0	0	0	0
8:15 AM		0	4	1	0	7	15	0	39	8	0	74	0	0	0	0
8:20 AM		0	2	2	0	5	8	0	27	5	0	49	0	0	0	0
8:25 AM		0	1	4	0	5	18	0	28	6	0	62	0	0	0	0
8:30 AM		0	2	6	0	5	7	0	21	5	0	46	0	0	0	0
8:35 AM		0	1	1	0	1	10	0	24	4	0	41	0	0	0	0
8:40 AM		0	3	3	0	6	13	0	15	3	0	43	0	0	0	0
8:45 AM		0	1	1	0	4	8	0	12	1	0	27	0	0	0	0
8:50 AM		0	3	2	0	2	12	0	17	3	0	39	0	0	0	0
8:55 AM		0	0	2	0	3	16	0	14	1	0	36	0	0	0	0
Total Survey		0	90	65	0	77	322	0	572	72	0	1,198	2	0	0	1

### 15-Minute Interval Summary

#### 7:00 AM to 9:00 AM

Interval Start	Northbou Aspen Av			Southb Aspen					bound th St		Westa E 4t	bound h St		Interval			s <b>trians</b> swalk	
Time		Bikes	L	T T	R	Bikes	L	Т	Bike	S	Т	R	Bikes	Total	North	South	East	West
7:00 AM		0	6		6	0	2	25	0		73	4	0	116	1	0	0	1
7:15 AM		0	3		9	0	8	33	0		84	2	0	139	0	0	0	0
7:30 AM		0	8		10	0	6	47	0		65	5	0	141	0	0	0	0
7:45 AM		0	22		9	0	14	58	0		66	14	0	183	0	0	0	0
8:00 AM		0	34		9	0	9	52	0		87	11	0	202	1	0	0	0
8:15 AM		0	7		7	0	17	41	0		94	19	0	185	0	0	0	0
8:30 AM		0	6	1	10	0	12	30	0		60	12	0	130	0	0	0	0
8:45 AM		0	4		5	0	9	36	0		43	5	0	102	0	0	0	0
Total Survey		0	90		65	0	77	322	0		572	72	0	1,198	2	0	0	1

### Peak Hour Summary

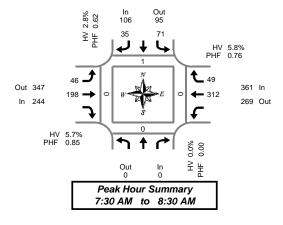
7:30 AM	to	8:30 AM
D.		Northbound

Bu		North	bound			South	bound			Easth	ound			Westh	bound				Pedes	stria
By		Aspe	n Ave			Aspe	n Ave			E 41	th St			E 4t	h St		Total		Cross	swal
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	E
Volume	0	0	0	0	106	95	201	0	244	347	591	0	361	269	630	0	711	1	0	(
%HV		0.0	0%			2.8	8%			5.	7%			5.8	3%		5.3%			
						~	~~			0	85			0.	76		0.82			
PHF		0.	00			0.	62			Ų.	60			0.	70		0.02			
			bound				bound				oo			West			0.82			
Ву		North				South				Easth				West			Total			
Ву		North	bound	Total	L	South	bound	Total	L	Easth	ound	Total		West	oound	Total				
Ву		North	bound	Total 0	L 71	South	<b>bound</b> n Ave	Total 106	L 46	Easth	ound	Total 244		West	h St R	Total 361				
By Movement	NA	North	bound n Ave	Total 0 0.0%	L 71 4.2%	South	bound n Ave R 35		L 46 2.2%	Easth E 41 T	oound th St		NA	Westt E 4t T	h St R 49		Total			

### Rolling Hour Summary

### 7:00 AM to 9:00 AM

Interval	Northb	oound			South	bound			Eastb	ound			Westb	ound				Pedes	trians	
Start	Asper	n Ave			Asper	n Ave			E 4t	h St			E 4t	h St		Interval		Cross	swalk	
Time		Bik	es	L		R	Bikes	L	Т	Bi	kes		Т	R	Bikes	Total	North	South	East	West
7:00 AM		(	)	39		34	0	30	163		0	1	288	25	0	579	1	0	0	1
7:15 AM		(	)	67		37	0	37	190		0		302	32	0	665	1	0	0	0
7:30 AM		(	)	71		35	0	46	198		0		312	49	0	711	1	0	0	0
7:45 AM		0	)	69		35	0	52	181		0		307	56	0	700	1	0	0	0
8:00 AM		(	)	51		31	0	47	159		0		284	47	0	619	1	0	0	0



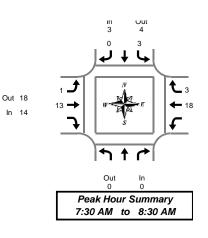
West 0 0

**Heavy Vehicle Summary** 



# Aspen Ave & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 



# Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	Northbe Aspen			<b>bound</b> n Ave				bound th St		Westa E 4t	<b>oound</b> h St		Interval
Time		Total	L	R	Total	L	Т	То	otal	Т	R	Total	Total
7:00 AM		0	0	0	0	0	3		3	0	1	1	4
7:05 AM		0	0	0	0	0	3		3	1	0	1	4
7:10 AM		0	0	0	0	0	2		2	1	0	1	3
7:15 AM		0	0	0	0	1	1		2	0	0	0	2
7:20 AM		0	0	0	0	0	0		0	0	0	0	0
7:25 AM		0	0	0	0	0	0		0	0	0	0	0
7:30 AM		0	0	0	0	0	0		0	0	0	0	0
7:35 AM		0	0	0	0	0	0		0	0	0	0	0
7:40 AM		0	0	0	0	0	0		0	0	0	0	0
7:45 AM		0	0	0	0	1	0		1	0	0	0	1
7:50 AM		0	1	0	1	0	1		1	1	1	2	4
7:55 AM		0	1	0	1	0	3		3	0	1	1	5
8:00 AM		0	1	0	1	0	0		0	0	1	1	2
8:05 AM		0	0	0	0	0	2		2	2	0	2	4
8:10 AM		0	0	0	0	0	1		1	11	0	11	12
8:15 AM		0	0	0	0	0	2		2	3	0	3	5
8:20 AM		0	0	0	0	0	1		1	1	0	1	2
8:25 AM		0	0	0	0	0	3		3	0	0	0	3
8:30 AM		0	0	0	0	0	0		0	0	1	1	1
8:35 AM		0	0	0	0	0	1		1	1	0	1	2
8:40 AM		0	0	0	0	0	0		0	1	0	1	1
8:45 AM		0	0	0	0	0	0		0	0	0	0	0
8:50 AM		0	0	0	0	0	2		2	1	1	2	4
8:55 AM		0	0	0	0	0	2		2	1	0	1	3
Total Survey		0	3	0	3	2	27	2	29	24	6	30	62

### Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	Northbou Aspen A			Southboun Aspen Ave				bound th St		bound th St		Interval
Time		Total	L	R	Total	L	Т	Total	Т	R	Total	Total
7:00 AM		0	0	0	0	0	8	8	2	1	3	11
7:15 AM		0	0	0	0	1	1	2	0	0	0	2
7:30 AM		0	0	0	0	0	0	0	0	0	0	0
7:45 AM		0	2	0	2	1	4	5	1	2	3	10
8:00 AM		0	1	0	1	0	3	3	13	1	14	18
8:15 AM		0	0	0	0	0	6	6	4	0	4	10
8:30 AM		0	0	0	0	0	1	1	2	1	3	4
8:45 AM		0	0	0	0	0	4	4	2	1	3	7
Total Survey		0	3	0	3	2	27	29	24	6	30	62

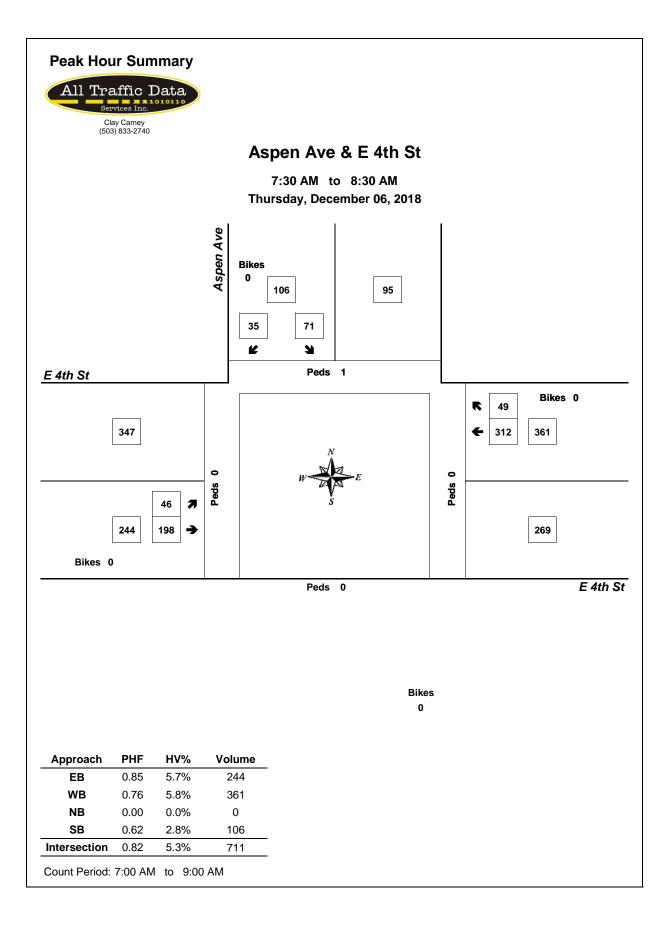
#### Heavy Vehicle Peak Hour Summary 7:30 AM to 8:30 AM

By			<b>bound</b> n Ave			<b>bound</b> n Ave			bound th St		West E 4	bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	0	0	0	3	4	7	14	18	32	21	16	37	38
PHF	0.00			0.25			0.58			0.33			0.45

By Movement	h <b>bound</b> en Ave			 <b>bound</b> n Ave				bound th St		Westa E 4t			Total
wovernerit	Aspen Ave Total			R	Total	L	Т		Total	Т	R	Total	
Volume		0	3	0	3	1	13		14	18	3	21	38
PHF		0.00	0.25	0.00	0.25	0.25	0.54		0.58	0.28	0.25	0.33	0.45

#### Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval Start	 <b>bound</b> n Ave		<b>bound</b> n Ave				bound th St		bound th St		Interval
Time	Tota	L	R	Total	L	T	Total	Т	R	Total	Total
7:00 AM	0	2	0	2	2	13	15	3	3	6	23
7:15 AM	0	3	0	3	2	8	10	14	3	17	30
7:30 AM	0	3	0	3	1	13	14	18	3	21	38
7:45 AM	0	3	0	3	1	14	15	20	4	24	42
8:00 AM	0	1	0	1	0	14	14	21	3	24	39



**Total Vehicle Summary** 



# Aspen Ave & E 4th St

Thursday, December 06, 2018 4:00 PM to 6:00 PM

5-Minute	Inte	rval Summary
4:00 PM	to	6:00 PM

Interval Start	Northbound Aspen Ave			Southbound Aspen Ave	_		Eastb E 4t	th St		<b>bound</b> th St		Interval			s <b>trians</b> swalk	
Time		Bikes	L	R	Bikes	L	Т	Bikes	Т	R	Bikes	Total	North	South	East	Wes
4:00 PM		0	2	2	0	10	39	0	17	3	0	73	0	0	0	0
4:05 PM		0	1	2	0	5	42	0	21	3	0	74	0	0	0	0
4:10 PM		0	2	1	0	16	29	0	19	2	0	69	0	0	0	0
4:15 PM		0	0	1	0	13	28	0	15	9	0	66	0	0	0	0
4:20 PM		0	1	2	0	10	28	0	14	1	0	56	2	0	1	0
4:25 PM		0	1	1	0	16	27	0	22	3	0	70	2	0	0	0
4:30 PM		0	1	2	0	17	33	0	16	2	0	71	1	0	0	0
4:35 PM		0	1	4	0	8	33	0	18	0	0	64	0	0	0	0
4:40 PM		0	4	2	0	14	30	0	17	3	0	70	0	0	0	0
4:45 PM		0	5	0	0	10	25	0	9	4	0	53	1	0	0	0
4:50 PM		0	3	2	0	12	26	0	18	2	0	63	0	0	0	0
4:55 PM		0	0	2	0	13	38	0	13	3	0	69	0	0	0	0
5:00 PM		0	3	0	0	15	32	0	12	8	0	70	1	0	0	0
5:05 PM		0	2	4	0	9	32	0	17	6	0	70	0	0	0	0
5:10 PM		0	2	2	0	8	32	0	 19	3	0	66	0	0	0	0
5:15 PM		0	5	2	0	16	30	0	16	3	0	72	0	0	0	0
5:20 PM		0	4	0	0	23	38	0	16	1	0	82	1	0	0	0
5:25 PM		0	8	1	0	18	28	0	 11	5	0	71	1	0	0	0
5:30 PM		0	2	5	0	16	41	0	15	4	0	83	1	0	0	0
5:35 PM		0	2	2	0	11	47	0	13	6	0	81	0	0	0	0
5:40 PM		0	4	1	0	14	35	0	16	2	0	72	0	0	1	0
5:45 PM		0	5	1	0	7	44	0	11	4	0	72	0	0	0	0
5:50 PM		0	3	3	0	9	34	0	 18	6	0	73	0	0	0	0
5:55 PM		0	0	3	0	17	31	0	8	2	0	61	0	0	0	0
Total		_		15		0.07			074	0.5		4 074	10	_		
Survey		0	61	45	0	307	802	0	371	85	0	1,671	10	0	2	0

### 15-Minute Interval Summary

#### 4:00 PM to 6:00 PM

Interval	Northbo	ound		South	bound			Easth	ound		West	ound				Pedes	trians	
Start	Aspen	Ave		Asper	n Ave			E 41	th St		E 4t	h St		Interval		Cross	swalk	
Time		Bikes	L		R	Bikes	L	Т	Bik	es	Т	R	Bikes	Total	North	South	East	West
4:00 PM		0	5		5	0	31	110	(	)	57	8	0	216	0	0	0	0
4:15 PM		0	2		4	0	39	83	0	)	51	13	0	192	4	0	1	0
4:30 PM		0	6		8	0	39	96	(	)	51	5	0	205	1	0	0	0
4:45 PM		0	8		4	0	35	89	0	)	40	9	0	185	1	0	0	0
5:00 PM		0	7		6	0	32	96	(	)	48	17	0	206	1	0	0	0
5:15 PM		0	17		3	0	57	96	(	)	43	9	0	225	2	0	0	0
5:30 PM		0	8	1	8	0	41	123	0	)	44	12	0	236	1	0	1	0
5:45 PM		0	8		7	0	33	109	(	)	37	12	0	206	0	0	0	0
Total Survey		0	61		45	0	307	802	(	)	371	85	0	1,671	10	0	2	0

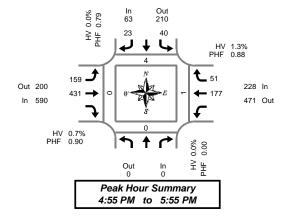
# Peak Hour Summary

By		North	bound			South	bound			Eastb	ound			Westb	ound				Pedes	strians	
Approach		Aspe	n Ave			Aspe	n Ave			E 4t	h St			E 4t	h St		Total		Cros	swalk	
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East	West
Volume	0	0	0	0	63	0.0%				200	790	0	228	471	699	0	881	4	0	1	0
%HV		0.0	)%			0.0%				0.7	7%			1.3	3%		0.8%				
						0.0%															
PHF		0.	00							0.	90			0.0	38		0.93				
PHF		0.	00			0.	79			0.	90			0.8	38		0.93	]			
			00 bound				79 bound				90 ound			0.8 Westb			0.93	]			
Ву		North				South					ound				ound		0.93 Total	]			
		North	bound	Total	L	South	bound	Total	L	Eastb	ound	Total		West	ound	Total		]			
Ву		North	bound	Total 0	L 40	South	<b>bound</b> n Ave R	Total 63	L 159	Eastb	ound	Total 590		West	h St R	Total 228		]			
By Movement	NA	North	bound	Total 0 0.0%	L 40 0.0%	South	bound n Ave R 23	63	L 159 0.6%	Eastb E 4t	ound		NA	Westb E 4t T	h St R		Total				

### Rolling Hour Summary

### 4:00 PM to 6:00 PM

Interval	Northb	oound		Sout	nbound			Eastk	ound		1	Westb	ound				Pedes	trians	
Start	Asper	n Ave		Aspe	en Ave			E 41	h St			E 4th	n St		Interval		Cross	swalk	
Time		Bike	es L		R	Bikes	L	Т	Bike	es		T	R	Bikes	Total	North	South	East	West
4:00 PM		0	21		21	0	144	378	0			199	35	0	798	6	0	1	0
4:15 PM		0	23		22	0	145	364	0			190	44	0	788	7	0	1	0
4:30 PM		0	38		21	0	163	377	0			182	40	0	821	5	0	0	0
4:45 PM		0	40		21	0	165	404	0			175	47	0	852	5	0	1	0
5:00 PM		0	40		24	0	163	424	0			172	50	0	873	4	0	1	0



### **Heavy Vehicle Summary**



# Aspen Ave & E 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

$\begin{array}{c} 1 \\ 0 \\ 1 \\ 1 \\ 3 \\ 3 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$
Out In 0 0
Peak Hour Summary 4:55 PM to 5:55 PM

Out 3

In 4

# Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	Northbo Aspen A			South! Asper					bound th St		Westl E 41		Interval	
Time		Total	L		R	Total	L	Т		Total	Т	R	Total	Total
4:00 PM		0	0		1	1	0	1		1	1	0	1	3
4:05 PM		0	0		1	1	0	2		2	1	0	1	4
4:10 PM		0	0		0	0	0	0		0	1	0	1	1
4:15 PM		0	0		0	0	0	0		0	2	0	2	2
4:20 PM		0	0		0	0	0	0		0	2	0	2	2
4:25 PM		0	0		0	0	0	0		0	0	0	0	0
4:30 PM		0	0		0	0	0	3		3	0	0	0	3
4:35 PM		0	0		0	0	0	2		2	1	0	1	3
4:40 PM		0	0		0	0	0	0		0	2	0	2	2
4:45 PM		0	0		0	0	0	1		1	0	0	0	1
4:50 PM		0	0		0	0	0	0		0	0	0	0	0
4:55 PM		0	0		0	0	0	0		0	0	0	0	0
5:00 PM		0	0		0	0	0	0		0	0	0	0	0
5:05 PM		0	0		0	0	0	1		1	0	0	0	1
5:10 PM		0	0		0	0	0	0		0	1	0	1	1
5:15 PM		0	0		0	0	0	0		0	0	0	0	0
5:20 PM		0	0		0	0	0	0		0	0	0	0	0
5:25 PM		0	0		0	0	1	0		1	1	0	1	2
5:30 PM		0	0		0	0	0	1		1	1	0	1	2
5:35 PM		0	0		0	0	0	1		1	0	0	0	1
5:40 PM		0	0		0	0	0	0		0	0	0	0	0
5:45 PM		0	0		0	0	0	0		0	0	0	0	0
5:50 PM		0	0		0	0	0	0		0	 0	0	0	0
5:55 PM		0	0		0	0	0	0		0	0	0	0	0
Total Survey		0	0		2	2	1	12		13	13	0	13	28

# Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	<b>bound</b> n Ave		South Asper					bound th St					
Time	Total	L		R	Total	L	Т	Total		Т	R	Total	Total
4:00 PM	0	0		2	2	0	3	3		3	0	3	8
4:15 PM	0	0		0	0	0	0	0		4	0	4	4
4:30 PM	0	0		0	0	0	5	5		3	0	3	8
4:45 PM	0	0		0	0	0	1	1		0	0	0	1
5:00 PM	0	0		0	0	0	1	1		1	0	1	2
5:15 PM	0	0		0	0	1	0	1		1	0	1	2
5:30 PM	0	0		0	0	0	2	2		1	0	1	3
5:45 PM	0	0		0	0	0	0	0		0	0	0	0
Total Survey	0	0		2	2	1	12	13		13	0	13	28

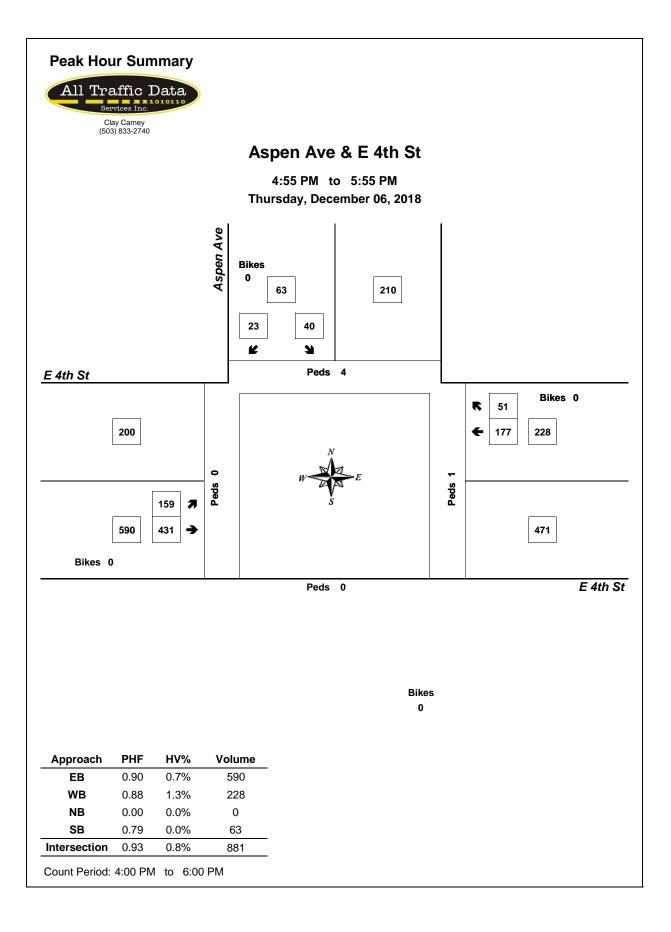
#### Heavy Vehicle Peak Hour Summary 4:55 PM to 5:55 PM

By	Northbound Aspen Ave					<b>bound</b> n Ave			bound th St		Westbound E 4th St			
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total		
Volume	0	0	0	0	1	1	4	3	7	3	3	6	7	
PHF	0.00			0.00	0.00					0.38	0.38			

By Movement	Northbound Aspen Ave					 <b>bound</b> n Ave				bound th St		Westbound E 4th St				Total
wovernern				Total	L	R	Total	L	Т		Total		Т	R	Total	1
Volume				0	0	0	0	1	3		4		3	0	3	7
PHF				0.00	0.00	0.00	0.00	0.25	0.38		0.33		0.38	0.00	0.38	0.35

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval	Northbound			Southbound			Eastbound								
Start	Aspen	n Ave	Aspen Ave				E 4th St				E 4th St				Interval
Time		Total	L		R	Total	L	Т	1	Total		Т	R	Total	Total
4:00 PM		0	0		2	2	0	9		9		10	0	10	21
4:15 PM		0	0		0	0	0	7		7		8	0	8	15
4:30 PM		0	0		0	0	1	7		8		5	0	5	13
4:45 PM		0	0		0	0	1	4	1	5		3	0	3	8
5:00 PM		0	0		0	0	1	3		4		3	0	3	7





# E Stonecreek Dr & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 

### 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	Northb E Stonec	reek Dr		Southbor E Stonecre	ek D			E 41	bound th St		 Westt E 4t	h St		Interval		Pedes Cros	swalk	
Time		Bikes	L		R	Bikes	L	Т		Bikes	Т	R	Bikes	Total	North	South	East	West
7:00 AM		0	2		0	0	0	11		0	16	1	0	30	0	0	1	0
7:05 AM		0	1		0	0	0	15		0	29	0	0	45	0	0	0	0
7:10 AM		0	1		0	0	0	10		0	25	0	0	36	0	0	1	0
7:15 AM		0	1		0	0	0	13		0	30	0	0	44	0	0	0	0
7:20 AM		0	2		1	0	0	11		0	19	0	0	33	0	0	0	0
7:25 AM		0	1		2	0	0	15		0	41	0	0	59	0	0	0	0
7:30 AM		0	2		0	0	0	19		0	17	0	0	38	0	0	1	0
7:35 AM		0	7		1	0	0	25		0	28	3	0	64	1	0	3	0
7:40 AM		0	2		0	0	0	18		0	25	3	0	48	0	0	0	0
7:45 AM		0	4		1	0	0	26		0	26	0	0	57	0	0	2	0
7:50 AM		0	7		1	0	0	35		0	27	3	0	73	0	0	1	0
7:55 AM		0	3		0	0	0	28		0	30	1	0	62	0	0	2	0
8:00 AM		0	8		0	0	0	33		0	32	6	0	79	0	0	1	0
8:05 AM		0	3		0	0	0	34		0	39	3	0	79	0	0	11	0
8:10 AM		0	2		0	0	0	42		0	55	3	0	102	0	0	9	0
8:15 AM		0	3		1	0	0	30		0	46	6	0	86	0	0	5	0
8:20 AM		0	4		1	0	2	16		0	35	3	0	61	0	0	1	0
8:25 AM		0	2		1	0	0	20		0	26	2	0	51	0	0	0	0
8:30 AM		0	1		1	0	0	9		0	26	0	0	37	0	0	0	0
8:35 AM		0	2		0	0	0	10		0	26	1	0	39	0	0	0	0
8:40 AM		0	2		0	0	0	15		0	15	0	0	32	0	0	0	0
8:45 AM		0	0		0	0	0	11		0	13	2	0	26	0	0	0	0
8:50 AM		0	1		1	0	1	13		0	 24	0	0	40	0	0	0	0
8:55 AM		0	2		0	0	0	21		0	18	2	0	43	0	0	2	0
Total Survey		0	63		11	0	3	480		0	668	39	0	1,264	1	0	40	0

### 15-Minute Interval Summary

### 7:00 AM to 9:00 AM

Interval Start	Northbour E Stonecree			Southb E Stoneci		r			bound th St	Westl E 4t	bound th St		Interval			s <b>trians</b> swalk	
Time		Bikes	L		R	Bikes	L	Т	Bikes	Т	R	Bikes	Total	North	South	East	West
7:00 AM		0	4		0	0	0	36	0	70	1	0	111	0	0	2	0
7:15 AM		0	4		3	0	0	39	0	90	0	0	136	0	0	0	0
7:30 AM		0	11		1	0	0	62	0	70	6	0	150	1	0	4	0
7:45 AM		0	14		2	0	0	89	0	83	4	0	192	0	0	5	0
8:00 AM		0	13		0	0	0	109	0	126	12	0	260	0	0	21	0
8:15 AM		0	9		3	0	2	66	0	107	11	0	198	0	0	6	0
8:30 AM		0	5		1	0	0	34	0	67	1	0	108	0	0	0	0
8:45 AM		0	3		1	0	1	45	0	55	4	0	109	0	0	2	0
Total Survey		0	63		11	0	3	480	0	668	39	0	1,264	1	0	40	0

# Peak Hour Summary

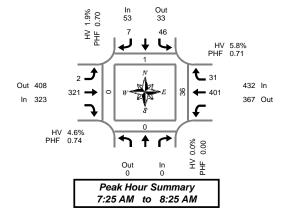
7:25 AM	to	8:25 AM
		NI 411

By		North E Stone	<b>bound</b> creek D	r			bound creek D	r			ound h St				bound th St		Total		Pedes Cross	
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East
Volume	0	0	0	0	53	33	86	0	323	408	731	0	432	367	799	0	808	1	0	36
%HV		0.0	0%			1.9	9%			4.0	5%			5.	8%		5.1%			
PHF		0.	00			0.	70			0.	74			0.	71		0.76			
By Movement		North E Stone	<b>bound</b> creek D	r			bound creek D	r			ound h St				bound th St		Total			
wovernerit				Total	L		R	Total	L	Т		Total		Т	R	Total	]			
Volume				0	46		7	53	2	321		323		401	31	432	808			
%HV	NA	NA	NA	0.0%	2.2%	NA	0.0%	1.9%	0.0%	4.7%	NA	4.6%	NA	5.7%	6.5%	5.8%	5.1%	1		
PHF				0.00	0.64		0.58	0.70	0.25	0.74		0.74		0.72	0.65	0.71	0.76			

### Rolling Hour Summary

### 7:00 AM to 9:00 AM

Interval Start	Northbo E Stonecre			South E Stone		r			bound th St		Westb E 4th			Interval			s <b>trians</b> swalk	
Time		Bikes	L				L	T	Bike	es	T	R	Bikes	Total	North	South	East	West
7:00 AM		0	33		6	0	0	226	0		313	11	0	589	1	0	11	0
7:15 AM		0	42		6	0	0	299	0		369	22	0	738	1	0	30	0
7:30 AM		0	47		6	0	2	326	0		386	33	0	800	1	0	36	0
7:45 AM		0	41	1	6	0	2	298	0		383	28	0	758	0	0	32	0
8:00 AM		0	30		5	0	3	254	0		355	28	0	675	0	0	29	0

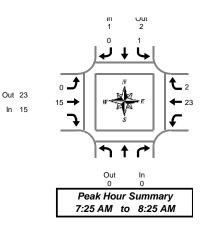


East West



# E Stonecreek Dr & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 



# Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	Northb E Stoned			South E Stoned		r			bound th St		Westl E 4t	bound th St		Interval
Time		Total	L		R	Total	L	Т		Total	Т	R	Total	Total
7:00 AM		0	1		0	1	0	3		3	1	0	1	5
7:05 AM		0	0		0	0	0	3		3	2	0	2	5
7:10 AM		0	0		0	0	0	2		2	0	0	0	2
7:15 AM		0	0		0	0	0	1		1	0	0	0	1
7:20 AM		0	0		0	0	0	0		0	0	0	0	0
7:25 AM		0	0		0	0	0	0		0	1	0	1	1
7:30 AM		0	0		0	0	0	0		0	0	0	0	0
7:35 AM		0	0		0	0	0	0		0	0	1	1	1
7:40 AM		0	0		0	0	0	0		0	0	1	1	1
7:45 AM		0	0	[	0	0	0	2	1	2	1	0	1	3
7:50 AM		0	1		0	1	0	2		2	1	0	1	4
7:55 AM		0	0		0	0	0	3		3	1	0	1	4
8:00 AM		0	0		0	0	0	1		1	1	0	1	2
8:05 AM		0	0		0	0	0	2		2	6	0	6	8
8:10 AM		0	0		0	0	0	1		1	8	0	8	9
8:15 AM		0	0		0	0	0	3		3	3	0	3	6
8:20 AM		0	0		0	0	0	1		1	1	0	1	2
8:25 AM		0	0	[	0	0	0	3	1	3	0	0	0	3
8:30 AM		0	0		0	0	0	0		0	3	0	3	3
8:35 AM		0	0		0	0	0	1		1	0	0	0	1
8:40 AM		0	0		0	0	0	0		0	1	0	1	1
8:45 AM		0	0		0	0	0	0		0	0	0	0	0
8:50 AM		0	0		0	0	0	2		2	 1	0	1	3
8:55 AM		0	0		0	0	0	1		1	0	0	0	1
Total Survey		0	2		0	2	0	31		31	31	2	33	66

# Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	<b>bound</b> creek Dr		South E Stone	<b>bound</b> creek D	r			<b>bound</b> th St	Westa E 4t	h St		Interval
Time	Total	L		R	Total	L	Т	Total	Т	R	Total	Total
7:00 AM	0	1		0	1	0	8	8	3	0	3	12
7:15 AM	0	0		0	0	0	1	1	1	0	1	2
7:30 AM	0	0	1	0	0	0	0	0	0	2	2	2
7:45 AM	0	1		0	1	0	7	7	3	0	3	11
8:00 AM	0	0		0	0	0	4	4	15	0	15	19
8:15 AM	0	0		0	0	0	7	7	4	0	4	11
8:30 AM	0	0	1	0	0	0	1	1	4	0	4	5
8:45 AM	0	0		0	0	0	3	3	1	0	1	4
Total Survey	0	2		0	2	0	31	31	31	2	33	66

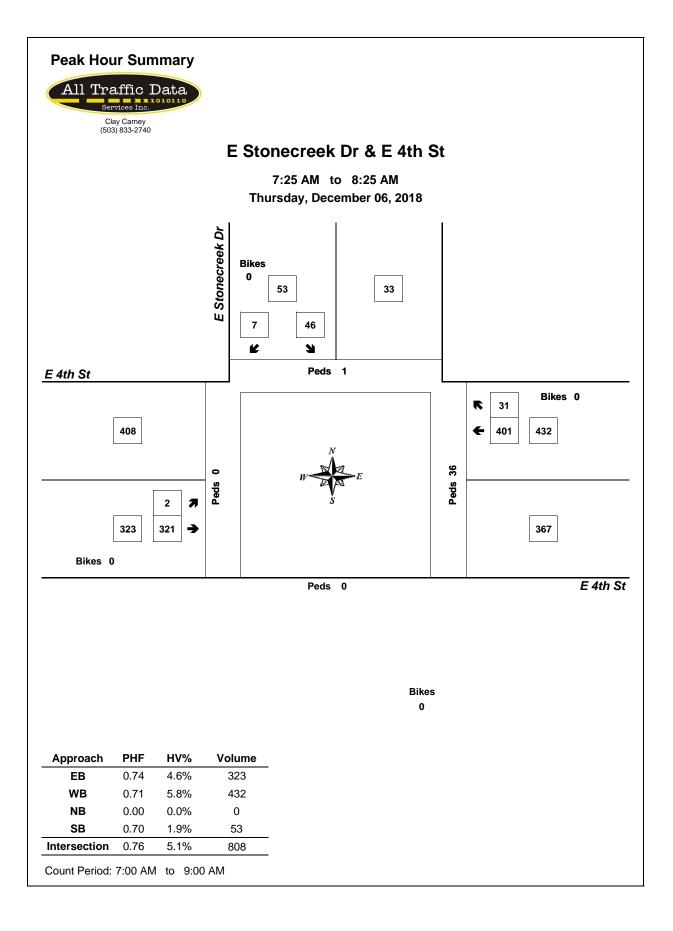
#### Heavy Vehicle Peak Hour Summary 7:25 AM to 8:25 AM

Ву			bound creek Dr			bound creek Dr			oound th St			bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	0	0	0	1	2	3	15	23	38	25	16	41	41
PHF	0.00	0.00				<u></u>	0.54			0.37			0.45

By Movement	I	Northl E Stone	<b>bound</b> creek D	r		South E Stone	<b>bound</b> creek D	r			ound h St		Westa E 4t	bound th St		Total
wovernent				Total	L		R	Total	L	Т		Total	Т	R	Total	
Volume				0	1		0	1	0	15		15	23	2	25	41
PHF				0.00	0.25		0.00	0.25	0.00	0.54		0.54	0.34	0.25	0.37	0.45

#### Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval Start	 <b>bound</b> creek Dr		South E Stone	<b>bound</b> creek D	r			bound th St		bound th St		Interval
Time	Total			R	Total	L	T	Total	Т	R	Total	Total
7:00 AM	0	2		0	2	0	16	16	7	2	9	27
7:15 AM	0	1		0	1	0	12	12	19	2	21	34
7:30 AM	0	1		0	1	0	18	18	22	2	24	43
7:45 AM	0	1		0	1	0	19	19	26	0	26	46
8:00 AM	0	0		0	0	0	15	15	24	0	24	39





# E Stonecreek Dr & E 4th St

Thursday, December 06, 2018 4:00 PM to 6:00 PM

#### 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	Northbo E Stonecr			Southbour E Stonecree			Eastb E 4t	bound h St		tbound 4th St		Interval			s <b>trians</b> swalk	
Time		Bikes	L	F	Bikes	L	Т	Bikes	Т	R	Bikes	Total	North	South	East	West
4:00 PM		0	3	C	0	1	38	0	30	1	0	73	0	0	0	0
4:05 PM		0	6	C	0	1	43	0	22	3	0	75	0	0	0	0
4:10 PM		0	0	C	0	0	32	0	25	6	0	63	0	0	0	0
4:15 PM		0	1	C	0	2	33	0	23	3	0	62	0	0	2	0
4:20 PM		0	0	C	0	0	27	0	11	1	0	39	0	0	0	0
4:25 PM		0	3	1	0	0	29	0	27	2	0	62	0	0	0	0
4:30 PM		0	1	C	0	1	33	0	16	5	0	56	0	0	0	0
4:35 PM		0	1	1	0	1	33	0	19	1	0	56	0	0	0	0
4:40 PM		0	1	1	0	2	26	0	17	1	0	48	0	0	0	0
4:45 PM		0	1	C	0	0	33	0	19	2	0	55	0	0	0	0
4:50 PM		0	1	1	0	0	34	0	28	1	0	65	0	0	0	0
4:55 PM		0	4	1	0	1	37	0	15	4	0	62	0	0	0	0
5:00 PM		0	3	C	0	1	32	0	25	5	0	66	0	0	0	0
5:05 PM		0	0	C	0	1	36	0	23	5	0	65	0	0	0	0
5:10 PM		0	1	C	0	2	25	0	29	1	0	58	0	0	2	0
5:15 PM		0	1	C	1	0	32	0	15	2	0	50	0	0	0	0
5:20 PM		0	0	1	0	0	40	0	16	3	0	60	0	0	0	0
5:25 PM		0	3	C	0	1	38	0	17	2	0	61	0	0	0	0
5:30 PM		0	5	C	0	0	41	0	26	4	0	76	0	0	0	0
5:35 PM		0	4	C	0	0	45	0	19	2	0	70	0	0	0	0
5:40 PM		0	0	C	0	1	41	0	19	1	0	62	0	0	0	0
5:45 PM		0	3	1	0	0	44	0	18	1	0	67	0	0	0	0
5:50 PM		0	1	C	0	1	45	0	24	1	0	72	0	0	1	0
5:55 PM		0	6	2	0	1	29	0	11	1	0	50	0	0	0	0
Total Survey		0	49	9	1	17	846	0	494	58	0	1,473	0	0	5	0

### 15-Minute Interval Summary

#### 4:00 PM to 6:00 PM

Interval	Northbour	nd		Southb	oound			Easth	ound	West	oound				Pedes	trians	
Start	E Stonecree	k Dr		E Stoned	creek D	r		E 41	th St	E 41	h St		Interval		Cross	swalk	
Time		Bikes	L		R	Bikes	L	Т	Bikes	Т	R	Bikes	Total	North	South	East	West
4:00 PM		0	9		0	0	2	113	0	77	10	0	211	0	0	0	0
4:15 PM		0	4		1	0	2	89	0	61	6	0	163	0	0	2	0
4:30 PM		0	3		2	0	4	92	0	52	7	0	160	0	0	0	0
4:45 PM		0	6		2	0	1	104	0	62	7	0	182	0	0	0	0
5:00 PM		0	4		0	0	4	93	0	77	11	0	189	0	0	2	0
5:15 PM		0	4		1	1	1	110	0	48	7	0	171	0	0	0	0
5:30 PM		0	9		0	0	1	127	0	64	7	0	208	0	0	0	0
5:45 PM		0	10		3	0	2	118	0	53	3	0	189	0	0	1	0
Total Survey		0	49		9	1	17	846	0	494	58	0	1,473	0	0	5	0

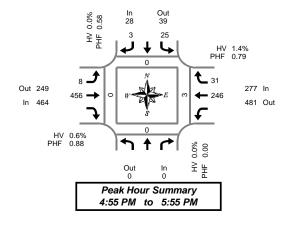
# Peak Hour Summary

4:55 PIVI	το	5:55 PI	vi																		
By		North	bound			South	bound			Eastb	ound			West	oound				Pedes	trians	
Approach		E Stone	creek D	r		E Stone	creek D	r		E 4t	h St			E 41	h St		Total		Cross	swalk	
Apploach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East	West
Volume	0	0	0	0	28	39	67	1	464	249	713	0	277	481	758	0	769	0	0	3	0
%HV		0.	0%	0.0%						0.6	5%			1.4	4%		0.9%				
PHF	0.00					0.	58			0.	88			0.	79		0.92				
																		_			
By	Northbound					South	bound			Eastb	ound			West	bound						
Movement		E Stone	creek D	r	1	E Stone	creek D	r		E 4t	h St			E 41	h St		Total				
wovernerit				Total	L		R	Total	L	Т		Total		Т	R	Total					
Volume				0	25		3	28	8	456		464		246	31	277	769				
%HV	NA	NA	NA	0.0%	0.0%	NA	0.0%	0.0%	0.0%	0.7%	NA	0.6%	NA	1.6%	0.0%	1.4%	0.9%				
PHF	NA NA NA 0.0% 0.0% NA 0.0%							0.58	0.50	0.88		0.88		0.80	0.55	0.79	0.92				

Rollina	Hour	Summ	arv

### 4:00 PM to 6:00 PM

Interval	Northbour	nd		Southbo	ound			Eastb	ound			Westb	ound				Pedes	trians	
Start	E Stonecree	k Dr		E Stonecre	eek D	r		E 4t	th St			E 4t	h St		Interval		Cross	swalk	
Time		Bikes	L		R	Bikes	L	Т	Bil	es		Т	R	Bikes	Total	North	South	East	West
4:00 PM		0	22		5	0	9	398	(	)	1	252	30	0	716	0	0	2	0
4:15 PM		0	17		5	0	11	378	(	)		252	31	0	694	0	0	4	0
4:30 PM		0	17		5	1	10	399	(	)		239	32	0	702	0	0	2	0
4:45 PM		0	23		3	1	7	434		)		251	32	0	750	0	0	2	0
5:00 PM		0	27		4	1	8	448	(	)		242	28	0	757	0	0	3	0





# E Stonecreek Dr & E 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

$\begin{array}{c} m & Out \\ 0 & 0 \\ \bullet & \bullet \\ 0 & \bullet \\ 3 & \bullet \\ 3 & \bullet \\ \hline \\ 3 & \bullet \\ \hline \\ \bullet & \bullet \\ \end{array}$
Out In 0 0
Peak Hour Summary 4:55 PM to 5:55 PM

Out 4

In 3

# Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	Northbo E Stonecre			Southbo		r			bound th St		Westb E 4t			Interval
Time		Total	L		R	Total	L	Т	Т	otal	Т	R	Total	Total
4:00 PM		0	0		0	0	0	1		1	0	0	0	1
4:05 PM		0	0		0	0	0	2		2	1	0	1	3
4:10 PM		0	0		0	0	0	0		0	1	0	1	1
4:15 PM		0	0		0	0	0	0		0	3	0	3	3
4:20 PM		0	0		0	0	0	0		0	0	0	0	0
4:25 PM		0	0		0	0	0	0		0	0	0	0	0
4:30 PM		0	0		0	0	0	3		3	0	0	0	3
4:35 PM		0	0		0	0	0	2		2	 1	0	1	3
4:40 PM		0	0		1	1	0	0		0	1	0	1	2
4:45 PM		0	0		0	0	0	1		1	0	0	0	1
4:50 PM		0	0		0	0	0	0		0	0	0	0	0
4:55 PM		0	0		0	0	0	0		0	1	0	1	1
5:00 PM		0	0		0	0	0	0		0	0	0	0	0
5:05 PM		0	0		0	0	0	1		1	0	0	0	1
5:10 PM		0	0		0	0	0	0		0	 1	0	1	1
5:15 PM		0	0		0	0	0	0		0	1	0	1	1
5:20 PM		0	0		0	0	0	0		0	0	0	0	0
5:25 PM		0	0		0	0	0	0		0	1	0	1	1
5:30 PM		0	0		0	0	0	1		1	0	0	0	1
5:35 PM		0	0		0	0	0	1		1	0	0	0	1
5:40 PM		0	0		0	0	0	0		0	0	0	0	0
5:45 PM		0	0		0	0	0	0		0	0	0	0	0
5:50 PM		0	0		0	0	0	0		0	 0	0	0	0
5:55 PM		0	0		0	0	0	0		0	0	0	0	0
Total Survey		0	0		1	1	0	12		12	11	0	11	24

# Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	<b>bound</b> creek Dr		South E Stone	<b>bound</b> creek D	r			bound th St		bound th St		Interval
Time	Total	L		R	Total	L	Т	Total	Т	R	Total	Total
4:00 PM	0	0		0	0	0	3	3	2	0	2	5
4:15 PM	0	0		0	0	0	0	0	3	0	3	3
4:30 PM	0	0		1	1	0	5	5	2	0	2	8
4:45 PM	0	0		0	0	0	1	1	1	0	1	2
5:00 PM	0	0		0	0	0	1	1	1	0	1	2
5:15 PM	0	0		0	0	0	0	0	2	0	2	2
5:30 PM	0	0		0	0	0	2	2	0	0	0	2
5:45 PM	0	0		0	0	0	0	0	0	0	0	0
Total Survey	0	0		1	1	0	12	12	11	0	11	24

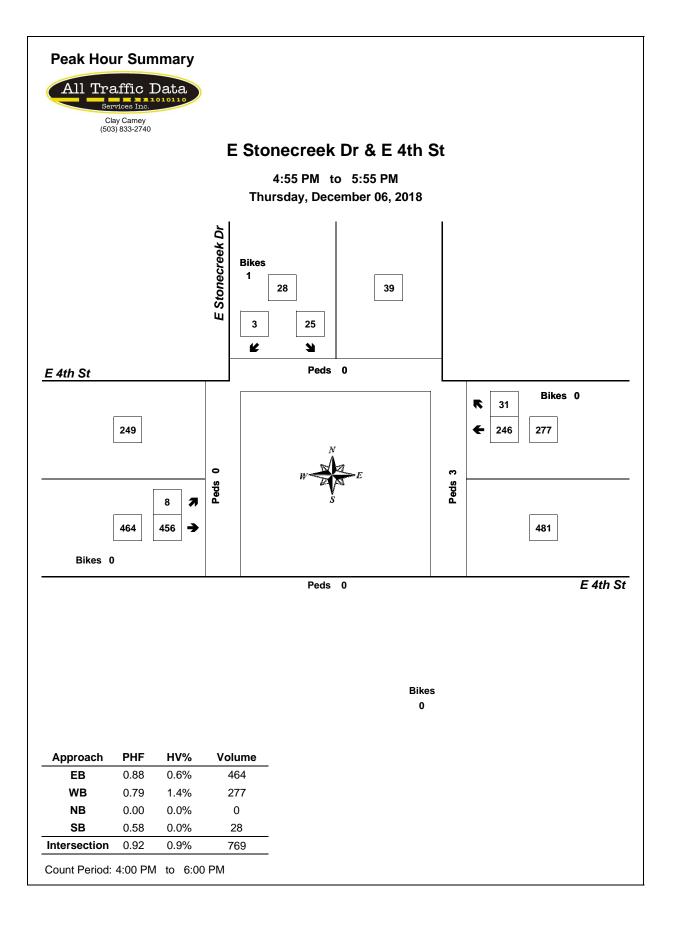
#### Heavy Vehicle Peak Hour Summary 4:55 PM to 5:55 PM

By			<b>bound</b> creek Dr			bound creek Dr			bound th St			bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	0	0	0	0	0	0	3	4	7	4	3	7	7
PHF	0.00			0.00			0.38			0.50			0.58

By Movement	 <b>bound</b> creek Dr			South E Stone	<b>bound</b> creek D	r			bound th St		Westa E 4t			Total
wovernern		Total	L		R	Total	L	Т		Total	Т	R	Total	
Volume		0	0		0	0	0	3		3	4	0	4	7
PHF		0.00	0.00		0.00	0.00	0.00	0.38		0.38	0.50	0.00	0.50	0.58

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval	North	bound		South	bound			East	bound		West	oound		
Start	E Stone	creek Dr		E Stone	creek D	r		E 4	th St		E 41	h St		Interval
Time		Total	L	1	R	Total	L	Т	T	Fotal	Т	R	Total	Total
4:00 PM		0	0		1	1	0	9		9	8	0	8	18
4:15 PM		0	0		1	1	0	7		7	7	0	7	15
4:30 PM		0	0		1	1	0	7		7	6	0	6	14
4:45 PM		0	0	1	0	0	0	4	1	4	4	0	4	8
5:00 PM		0	0		0	0	0	3		3	3	0	3	6





# NE Highland Rd & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 

#### 5-Minute Interval Summary 7:00 AM to 9:00 AM

7.00 AW	10	9.00 A																			
Interval			bound				bound				ound				oound					trians	
Start		NE High	nland Ro			NE High	nland Ro			E 41	h St				h St		Interval		Cros		
Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
7:00 AM	0	0	0	0	0	0	5	0	4	7	0	0	0	11	0	0	27	0	0	0	0
7:05 AM	0	0	0	0	0	0	14	0	2	9	2	0	0	17	0	0	44	0	0	0	0
7:10 AM	0	0	0	0	0	0	9	0	2	9	0	0	0	15	0	0	35	0	0	0	0
7:15 AM	0	0	0	0	0	0	12	0	8	5	0	0	0	17	0	0	42	0	1	0	0
7:20 AM	0	0	0	0	0	0	10	0	5	6	0	0	0	12	0	0	33	0	0	0	0
7:25 AM	0	0	1	0	0	0	12	0	4	7	1	0	0	27	1	0	53	0	0	0	0
7:30 AM	0	0	0	0	0	0	6	0	7	4	0	0	0	14	1	0	32	0	1	0	1
7:35 AM	0	0	0	0	0	0	16	0	13	9	0	0	0	21	2	0	61	0	0	0	0
7:40 AM	1	0	0	0	0	0	15	0	8	5	0	0	0	15	0	0	44	0	2	0	0
7:45 AM	0	0	1	0	0	0	8	0	14	9	1	0	0	17	3	0	53	0	1	0	0
7:50 AM	0	0	0	0	1	0	17	0	16	7	1	0	0	19	8	0	69	0	1	0	0
7:55 AM	0	0	0	0	1	0	21	0	14	6	0	0	0	16	4	0	62	0	2	0	1
8:00 AM	2	0	1	0	2	1	28	0	18	13	0	0	0	28	6	0	99	0	0	0	0
8:05 AM	9	0	2	0	2	2	14	0	11	19	2	0	2	26	5	0	94	0	1	0	0
8:10 AM	7	0	0	0	1	0	16	0	6	15	5	0	1	27	2	0	80	0	2	0	0
8:15 AM	5	0	1	0	1	0	14	0	9	17	0	0	1	16	1	0	65	0	0	0	0
8:20 AM	3	1	1	0	0	0	13	0	4	9	2	0	0	15	0	0	48	0	0	0	0
8:25 AM	3	0	0	0	0	0	6	0	7	12	1	0	0	11	2	0	42	0	0	0	0
8:30 AM	2	0	0	0	1	0	7	0	2	5	1	0	0	14	0	0	32	0	0	0	0
8:35 AM	1	0	0	0	0	0	9	0	5	9	0	0	0	15	1	0	40	0	0	0	0
8:40 AM	0	1	0	0	0	0	4	0	6	8	2	0	0	11	0	0	32	0	0	0	1
8:45 AM	0	0	1	0	0	0	5	0	1	8	0	0	0	11	0	0	26	0	0	0	0
8:50 AM	0	0	0	0	0	0	10	0	4	9	1	0	0	11	0	0	35	0	0	0	0
8:55 AM	0	0	0	0	0	0	4	0	6	18	1	0	0	17	1	0	47	0	0	0	0
Total Survey	33	2	8	0	9	3	275	0	176	225	20	0	4	403	37	0	1,195	0	11	0	3

### 15-Minute Interval Summary

#### 7:00 AM to 9:00 AM

Interval			bound				bound				ound				oound				Pedes	trians	
Start		NE High	land Ro	1		NE High	nland Ro	ł		E 41	th St			E 41	h St		Interval		Cross	swalk	
Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
7:00 AM	0	0	0	0	0	0	28	0	8	25	2	0	0	43	0	0	106	0	0	0	0
7:15 AM	0	0	1	0	0	0	34	0	17	18	1	0	0	56	1	0	128	0	1	0	0
7:30 AM	1	0	0	0	0	0	37	0	28	18	0	0	0	50	3	0	137	0	3	0	1
7:45 AM	0	0	1	0	2	0	46	0	44	22	2	0	0	52	15	0	184	0	4	0	1
8:00 AM	18	0	3	0	5	3	58	0	35	47	7	0	3	81	13	0	273	0	3	0	0
8:15 AM	11	1	2	0	1	0	33	0	20	38	3	0	1	42	3	0	155	0	0	0	0
8:30 AM	3	1	0	0	1	0	20	0	13	22	3	0	0	40	1	0	104	0	0	0	1
8:45 AM	0	0	1	0	0	0	19	0	11	35	2	0	0	39	1	0	108	0	0	0	0
Total Survey	33	2	8	0	9	3	275	0	176	225	20	0	4	403	37	0	1,195	0	11	0	3

### Peak Hour Summary

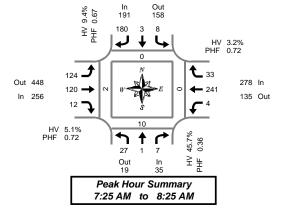
### 7:25 AM to 8:25 AM

Ву		Northl NE High		ł		South NE High	<b>bound</b> Iland Ro	ł			ound h St				bound th St		Total		Pedes Cross	
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East
Volume	35	19	54	0	191	158	349	0	256	448	704	0	278	135	413	0	760	0	10	0
%HV		45.	7%			9.4	1%			5.1	1%			3.2	2%		7.4%			
PHF		0.3	36			0.67				0.	72			0.	72		0.70			
											<u> </u>				<u> </u>		1			
-																				
By		NE High	bound Iland Ro	Ł		NE High	<b>bound</b> Iland Ro	ł			ound h St				bound th St		Total			
By Movement	L			Total	L			l Total	L			Total	L			Total	Total			
	L 27		land Ro R		L 8		land Ro		L 124		h St	Total 256	L 4		h St	Total 278	<b>Total</b> 760			
Movement	L	NE High T	land Ro R 7	Total 35	L	NE High T	land Ro R 180	Total	L 124 5.6%	E 4t T	h St R 12		L 4 0.0%	E 41 T	h St R					

### Rolling Hour Summary

### 7:00 AM to 9:00 AM

Interval		North	bound			South	bound			Eastb	ound			Westb	oound				Pedes	trians	
Start		NE High	nland Ro	ł		NE High	nland Ro	1		E 4t	h St			E 4t	h St		Interval		Cross	swalk	
Time	L	Т	R	Bikes	L	L T R Bikes				Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
7:00 AM	1	0	2	0	2	0	145	0	97	83	5	0	0	201	19	0	555	0	8	0	2
7:15 AM	19	0	5	0	7	3	175	0	124	105	10	0	3	239	32	0	722	0	11	0	2
7:30 AM	30	1	6	0	8	3	174	0	127	125	12	0	4	225	34	0	749	0	10	0	2
7:45 AM	32	2	6	0	9	3	157	0	112	129	15	0	4	215	32	0	716	0	7	0	2
8:00 AM	32	2	6	0	7	3	130	0	79	142	15	0	4	202	18	0	640	0	3	0	1



Wes



# NE Highland Rd & E 4th St

Thursday, December 06, 2018 7:00 AM to 9:00 AM

	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Out 39 In 13	$7 \xrightarrow{\uparrow} \\ 6 \xrightarrow{\downarrow} \\ 0 \xrightarrow{\downarrow} \\ 16 \xrightarrow{\downarrow} \\ S \xrightarrow{\downarrow} \\ 16 \xrightarrow{\downarrow} \\ 0 \xrightarrow{\downarrow} \\ 16 \xrightarrow{\downarrow} \\ 0 \xrightarrow{\downarrow} \\ 0 \xrightarrow{\downarrow} \\ 16 \xrightarrow{\downarrow} \\ 0 \xrightarrow{\downarrow} \\ 16 \xrightarrow{\downarrow} \\ 16$
	Peak Hour Summary 7:25 AM to 8:25 AM

### Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start		North NE High	<b>bound</b> nland Ro	ł		South NE High	<b>bound</b> nland Ro	d			bound th St			West E 4	bound h St		Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	5	0	5	0	1	0	1	6
7:05 AM	0	0	0	0	0	0	1	1	1	2	0	3	0	1	0	1	5
7:10 AM	0	0	0	0	0	0	1	1	0	2	0	2	0	0	0	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
7:20 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:25 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
7:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
7:50 AM	0	0	0	0	1	0	0	1	3	1	0	4	0	1	1	2	7
7:55 AM	0	0	0	0	1	0	2	3	2	0	0	2	0	2	0	2	7
8:00 AM	0	0	0	0	0	0	10	10	1	0	0	1	0	0	1	1	12
8:05 AM	8	0	0	8	0	0	2	2	0	3	0	3	0	1	0	1	14
8:10 AM	6	0	0	6	0	0	2	2	0	0	0	0	0	0	0	0	8
8:15 AM	1	0	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
8:20 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8:25 AM	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	3
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
8:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:40 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
8:50 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
8:55 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Survey	16	0	0	16	2	0	18	20	10	21	0	31	0	13	2	15	82

### Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start		North NE High	<b>bound</b> Iland Ro	ł		South NE High	<b>bound</b> nland Ro	i			bound th St			Westl E 41	bound th St		Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
7:00 AM	0	0	0	0	0	0	2	2	1	9	0	10	0	2	0	2	14
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
7:45 AM	0	0	0	0	2	0	2	4	6	1	0	7	0	4	1	5	16
8:00 AM	14	0	0	14	0	0	14	14	1	3	0	4	0	1	1	2	34
8:15 AM	2	0	0	2	0	0	0	0	2	3	0	5	0	0	0	0	7
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	3
8:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	2	0	2	5
Total Survey	16	0	0	16	2	0	18	20	10	21	0	31	0	13	2	15	82

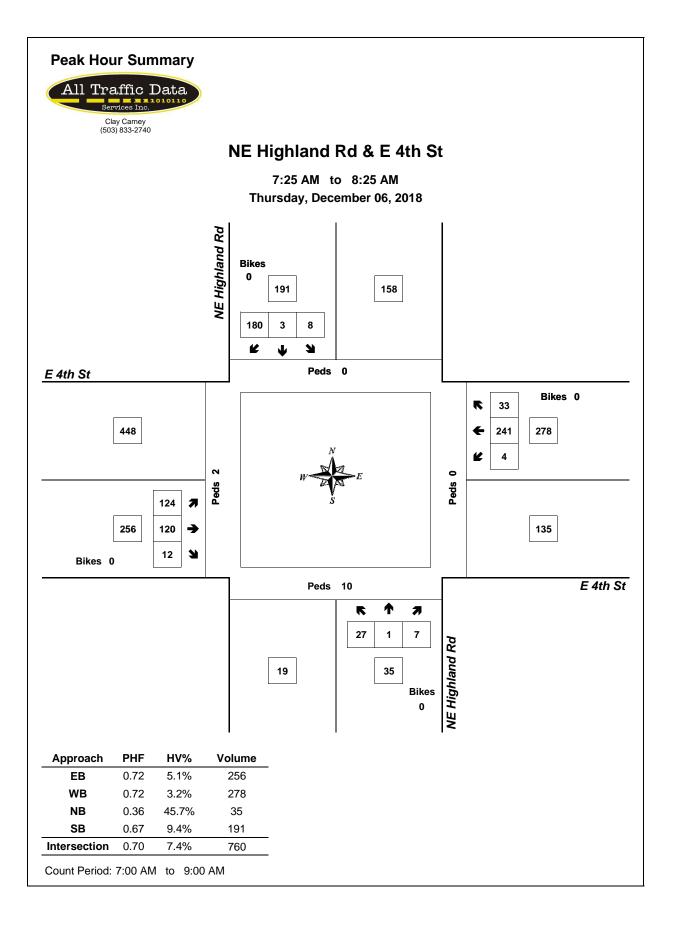
#### Heavy Vehicle Peak Hour Summary 7:25 AM to 8:25 AM

Ву			<b>bound</b> nland Rd			i <b>bound</b> hland Rd			bound th St			<b>bound</b> th St		Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total		
Volume	16	0	16	18	9	27	13	39	52	9	8	17		56
PHF	0.27			0.30			0.46			0.45			-	0.41

By Movement		North NE High	<b>bound</b> Iland Ro	I		South NE High	<b>bound</b> nland Ro	ł			bound th St			Westl E 41			Total
wovernent	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	16	0	0	16	2	0	16	18	7	6	0	13	0	7	2	9	56
PHF	0.27	0.00	0.00	0.27	0.25	0.00	0.29	0.30	0.29	0.30	0.00	0.46	0.00	0.44	0.25	0.45	0.41

#### Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval Start		North NE High		ł		South NE High	bound nland Ro	ł			ound h St			Westl E 41	bound th St		Interval
Time	L	Т	R	Total	L	T	R	Total	L	Т	R	Total	L	Т	R	Total	Total
7:00 AM	0	0	0	0	2	0	4	6	7	11	0	18	0	8	1	9	33
7:15 AM	14	0	0	14	2	0	16	18	7	5	0	12	0	7	2	9	53
7:30 AM	16	0	0	16	2	0	16	18	9	7	0	16	0	7	2	9	59
7:45 AM	16	0	0	16	2	0	16	18	9	8	0	17	0	7	2	9	60
8:00 AM	16	0	0	16	0	0	14	14	3	10	0	13	0	5	1	6	49





# NE Highland Rd & E 4th St

Thursday, December 06, 2018 4:00 PM to 6:00 PM

#### 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval		Manth	bound			Cauth	bound			E + h	ound			M/ 4	oound			1	Dedee	strians	
											th St				h St						
Start		NE High				NE High				E 41							Interval		Cros		
Time	L		R	Bikes	L		R	Bikes	L		R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
4:00 PM	1	0	0	0	1	0	13	0	10	27	1	0	0	14	0	0	67	0	3	0	0
4:05 PM	0	0	0	0	4	0	12	0	20	29	0	0	1	10	1	0	77	0	0	0	0
4:10 PM	0	0	0	0	0	0	10	0	16	27	0	0	0	13	2	0	68	0	2	0	0
4:15 PM	3	0	0	0	0	0	6	0	14	17	0	0	1	9	1	0	51	0	0	0	0
4:20 PM	0	0	0	0	3	0	4	0	8	17	0	0	0	9	2	0	43	1	0	0	0
4:25 PM	0	0	0	0	2	0	12	0	14	26	0	0	0	17	2	0	73	0	0	0	0
4:30 PM	0	0	0	0	0	0	2	0	16	21	0	0	0	13	2	0	54	0	0	0	0
4:35 PM	0	0	0	0	2	0	7	0	17	12	0	0	0	15	1	0	54	0	0	0	0
4:40 PM	0	0	0	0	0	0	2	0	9	22	0	0	0	12	0	0	45	0	1	0	0
4:45 PM	0	0	0	0	0	0	7	0	12	20	0	0	0	14	1	0	54	0	1	0	0
4:50 PM	1	0	0	0	1	0	7	0	16	15	0	0	0	17	4	0	61	0	0	0	0
4:55 PM	0	1	0	0	0	0	10	0	17	19	0	0	1	10	1	0	59	0	0	0	0
5:00 PM	1	0	0	0	1	0	10	0	15	13	1	0	0	16	2	0	59	0	0	0	0
5:05 PM	1	0	0	0	1	0	10	0	15	21	0	0	0	17	0	0	65	0	0	0	0
5:10 PM	2	2	0	0	1	0	9	0	12	22	0	0	0	16	2	0	66	0	0	0	0
5:15 PM	0	0	3	0	1	0	9	0	17	12	0	0	0	10	1	0	53	0	1	0	0
5:20 PM	2	0	0	0	0	0	3	0	15	17	2	0	0	14	2	0	55	0	0	0	0
5:25 PM	1	0	1	0	1	0	6	0	16	23	0	0	0	17	1	0	66	0	0	0	0
5:30 PM	0	0	0	0	0	0	10	0	14	28	0	0	0	9	3	0	64	0	0	0	0
5:35 PM	0	0	0	0	0	0	11	0	22	29	0	0	0	10	1	0	73	0	0	0	0
5:40 PM	0	0	1	0	2	0	5	0	13	28	0	0	0	13	0	0	62	0	1	0	0
5:45 PM	2	1	1	0	1	0	7	0	16	29	1	0	0	8	3	0	69	0	0	0	0
5:50 PM	0	2	0	0	0	0	9	0	18	19	0	0	0	15	2	0	65	0	0	0	0
5:55 PM	0	0	0	0	0	0	9	0	9	22	0	0	0	7	0	0	47	0	2	0	0
Total Survey	14	6	6	0	21	0	190	0	351	515	5	0	3	305	34	0	1,450	1	11	0	0

### 15-Minute Interval Summary

#### 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Eastb	ound			West	oound				Pedes	trians	
Start		NE High	land Ro	Ł		NE High	nland Ro	ł		E 4t	h St			E 41	h St		Interval		Cross	swalk	
Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
4:00 PM	1	0	0	0	5	0	35	0	46	83	1	0	1	37	3	0	212	0	5	0	0
4:15 PM	3	0	0	0	5	0	22	0	36	60	0	0	1	35	5	0	167	1	0	0	0
4:30 PM	0	0	0	0	2	0	11	0	42	55	0	0	0	40	3	0	153	0	1	0	0
4:45 PM	1	1	0	0	1	0	24	0	45	54	0	0	1	41	6	0	174	0	1	0	0
5:00 PM	4	2	0	0	3	0	29	0	42	56	1	0	0	49	4	0	190	0	0	0	0
5:15 PM	3	0	4	0	2	0	18	0	48	52	2	0	0	41	4	0	174	0	1	0	0
5:30 PM	0	0	1	0	2	0	26	0	49	85	0	0	0	32	4	0	199	0	1	0	0
5:45 PM	2	3	1	0	1	0	25	0	43	70	1	0	0	30	5	0	181	0	2	0	0
Total Survey	14	6	6	0	21	0	190	0	351	515	5	0	3	305	34	0	1,450	1	11	0	0

### Peak Hour Summary

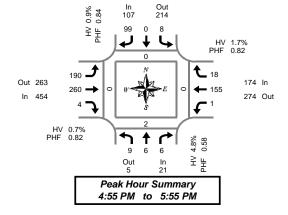
4:55 PM	to	5:55 PM
By		Northbound

Ву		North NE High	<b>bound</b> hland Ro	d			bound nland Ro	ł			bound th St			Westl E 4t	h St		Total		Pedes Cross	
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East
Volume	21	5	26	0	107	214	321	0	454	263	717	0	174	274	448	0	756	0	2	0
%HV		4.8	8%			0.9	9%			0.	7%			1.7	7%		1.1%			
PHF		0	58			0	84			0	82			0.	B2		0.93	1		
		0.	50			0.	04		1	0.	02		1	0.			0.00	•		
Ву			bound	d		South	bound	ł		East	oound th St			West	-		Total	1		
Ву	L	North	bound	d Total	L	South	bound	t Total	L	East	ound	Total	L	West	ound	Total				
Ву	L 9	North	<b>bound</b> nland Ro		L 8	South	<b>bound</b> nland Ro		L 190	Easth	oound th St	Total 454	L 1	West	oound h St	Total 174				
By Movement	L	North NE High T 6	bound nland Ro R	Total	L	South	bound nland Ro R 99	Total	L 190 0.0%	Eastb E 41 T	oound th St R 4		L 1 0.0%	Westl E 41 T	h St R		Total			

### Rolling Hour Summary

### 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Eastb	ound			Westb	ound				Pedes	trians	
Start		NE High	land Ro	ł		NE High	land Ro	b		E 4t	h St			E 4t	h St		Interval		Cross	swalk	
Time	L	Т	R	Bikes	L T R Bikes				L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
4:00 PM	5	1	0	0	13	0	92	0	169	252	1	0	3	153	17	0	706	1	7	0	0
4:15 PM	8	3	0	0	11	0	86	0	165	225	1	0	2	165	18	0	684	1	2	0	0
4:30 PM	8	3	4	0	8	0	82	0	177	217	3	0	1	171	17	0	691	0	3	0	0
4:45 PM	8	3	5	0	8	0	97	0	184	247	3	0	1	163	18	0	737	0	3	0	0
5:00 PM	9	5	6	0	8	0	98	0	182	263	4	0	0	152	17	0	744	0	4	0	0



West 0 Ω



# NE Highland Rd & E 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

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Peak Hour Summary 4:55 PM to 5:55 PM

Out 4

In 3

# Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start		North NE High	<b>bound</b> nland Ro	ł		South NE High	<b>bound</b> nland R	d			bound th St				bound th St		Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
4:00 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
4:05 PM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
4:10 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2
4:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	2	3
4:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
4:35 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
4:40 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
4:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:05 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
5:10 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:25 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1	2
5:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
5:35 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
5:40 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Survey	1	0	0	1	1	0	2	3	2	11	0	13	0	8	0	8	25

# Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start		North NE High	bound Iland Ro	ł		South NE High	<b>bound</b> nland Ro	i			bound th St				bound th St		Interval
Time	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	Total
4:00 PM	0	0	0	0	0	0	1	1	0	4	0	4	0	1	0	1	6
4:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	2	3
4:30 PM	0	0	0	0	0	0	0	0	2	3	0	5	0	2	0	2	7
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2
5:00 PM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
5:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	2	0	2	3
5:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Survey	1	0	0	1	1	0	2	3	2	11	0	13	0	8	0	8	25

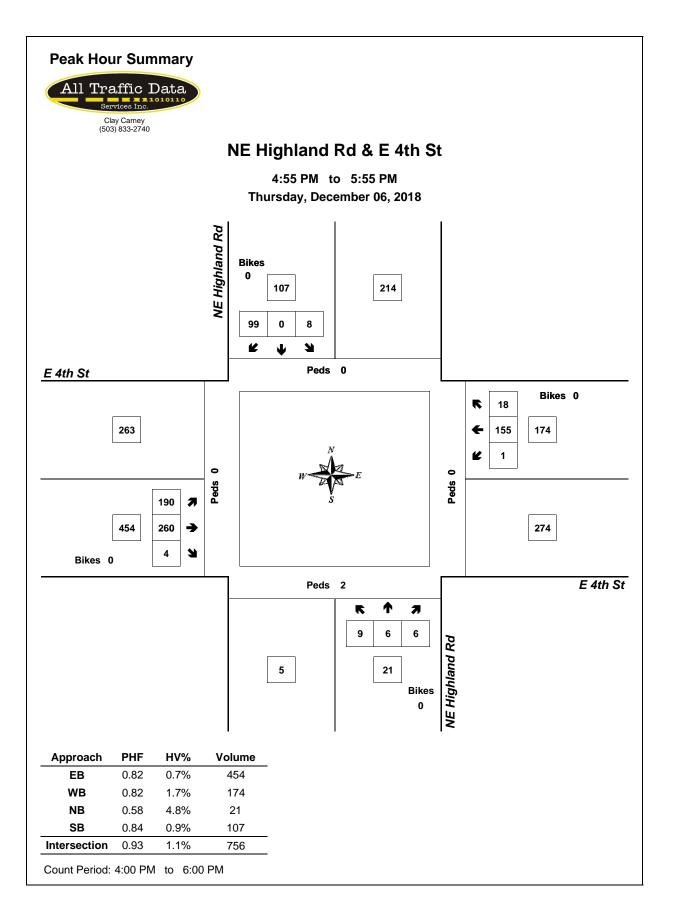
#### Heavy Vehicle Peak Hour Summary 4:55 PM to 5:55 PM

By			<b>bound</b> hland Rd			<b>bound</b> nland Rd			bound th St			bound th St	Total
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	1	0	1	1	0	1	3	4	7	3	4	7	8
PHF	0.25			0.25			0.38			0.38			0.50

By Movement		North NE High	<b>bound</b> nland Ro	I		South NE High	<b>bound</b> nland Ro	I			bound th St			Westl E 41	bound th St		Total
wovernent	t L T R Total				L	Т	R	Total	L	Т	R	Total	L	Т	R	Total	
Volume	1	0	0	1	1	0	0	1	0	3	0	3	0	3	0	3	8
PHF	0.25	0.00	0.00	0.25	0.25	0.00	0.00	0.25	0.00	0.38	0.00	0.38	0.00	0.38	0.00	0.38	0.50

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval		North	bound			South	bound			Eastk	ound			West	oound		
Start		NE High	nland Ro	ł		NE High	nland Ro	ł		E 41	th St			E 41	h St		Interval
Time	L	Т	R	Total	L	L T R Total				Т	R	Total	L	Т	R	Total	Total
4:00 PM	0	0	0	0	0	0	2	2	2	8	0	10	0	6	0	6	18
4:15 PM	1	0	0	1	0	0	1	1	2	5	0	7	0	5	0	5	14
4:30 PM	1	0	0	1	1	0	0	1	2	5	0	7	0	5	0	5	14
4:45 PM	1	0	0	1	1	0	0	1	0	4	0	4	0	3	0	3	9
5:00 PM	1	0	0	1	1	0	0	1	0	3	0	3	0	2	0	2	7





# NE John Storm Ave & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 

### 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	N	Northbe E John St				thbound n Storm A	VA	Eastb E 4t				West	bound th St		Interval		Pedes Cross		
Time	1		R	Bikes	INE JOIN		Bikes	 T 1	R	Bikes	1	<u>с</u> ,		Bikes	Total	North	South		West
7:00 AM	4		0	0		-	0	 6	0	0	2	4		0	16	0	0	0	0
7:05 AM	6		0	0			0	 5	3	0	2	13		0	29	0	0	0	0
7:10 AM	10		0	0			0	 7	4	0	2	5		0	29	0	0	0	0
7:15 AM	10		1	0			0	 4		0	0	15		0	20	0	0	0	0
7:20 AM	6		0	0			0	 6	2	0	2	12		0	28	0	0	0	0
7:25 AM	5		0	0			0	 5	3	0	1	19		0	33	0	0	0	0
7:30 AM	2		0	0			0	 2	1	0	1	16		0	22	0	1	0	0
7:35 AM	4		0	0			0	 5	1	0	0	16		0	26	0	0	0	0
7:40 AM	3		0	0			0	 6	1	0	1	16		0	27	0	1	0	0
7:45 AM	6		0	0			0	 6	1	0	1	17		0	31	0	3	0	0
7:50 AM	3		0	0			0	3	2	0	0	25		0	33	0	0	0	0
7:55 AM	5		2	0			0	3	1	0	1	24		0	36	0	0	0	0
8:00 AM	4		1	0			0	9	3	0	1	43		0	61	0	0	0	0
8:05 AM	4		2	0			0	20	1	0	1	30		0	58	0	0	0	0
8:10 AM	8		0	0			0	 14	3	0	0	25		0	50	0	0	0	0
8:15 AM	4		0	0			0	9	6	0	1	11		0	31	0	0	0	0
8:20 AM	6		3	0			0	10	2	0	2	13		0	36	0	0	0	0
8:25 AM	5		0	0			0	 10	2	0	0	6		0	23	0	4	0	0
8:30 AM	1		0	0			0	3	2	0	0	13		0	19	0	0	0	0
8:35 AM	6		1	0			0	6	2	0	1	9		0	25	0	0	0	0
8:40 AM	3		0	0			0	6	3	0	0	7		0	19	0	0	0	0
8:45 AM	1		0	0			0	8	2	0	0	10		0	21	0	0	0	0
8:50 AM	5		1	0			0	 1	4	0	2	9		0	22	0	0	0	0
8:55 AM	6		0	0			0	16	4	0	1	9		0	36	0	0	0	0
Total Survey	108		11	0			0	170	53	0	20	367		0	729	0	9	0	0

### 15-Minute Interval Summary

### 7:00 AM to 9:00 AM

Interval		Northbour	d		Southbo	und	E	Eastbo	ound			West	ound			Pedes	strians	
Start	NE	John Storn	n Ave	NE	John Sto	rm Ave		E 4th	n St			E 4t	h St	Interval		Cros	swalk	
Time	L	R	Bikes			Bikes		T	R	Bikes	L	Т	Bikes	Total	North	South	East	West
7:00 AM	20	0	0			0		18	7	0	4	22	0	71	0	0	0	0
7:15 AM	12	1	0			0		15	5	0	3	46	0	82	0	0	0	0
7:30 AM	9	0	0			0		13	3	0	2	48	0	75	0	2	0	0
7:45 AM	14	2	0			0	· · ·	12	4	0	2	66	0	100	0	3	0	0
8:00 AM	16	3	0			0	4	43	7	0	2	98	0	169	0	0	0	0
8:15 AM	15	3	0			0	1	29	10	0	3	30	0	90	0	4	0	0
8:30 AM	10	1	0			0		15	7	0	1	29	0	63	0	0	0	0
8:45 AM	12	1	0			0	1 2	25	10	0	3	28	0	79	0	0	0	0
Total Survey	108	1	0			0	1	70	53	0	20	367	0	729	0	9	0	0

## Peak Hour Summary

7:25 AM	to 8	3:25 A	м														
By	N	North E John	<b>bound</b> Storm A	ve	N		<b>bound</b> Storm A	ve			bound th St				bound th St		Total
Approach	In	n Out Total Bikes 2 35 97 0			In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	
Volume	62	2 35 97 0			0	0	0	0	117	309	426	0	265	100	365	0	444
%HV		62 35 97 0 3.2%				0.	0%			7.	7%			2.0	5%		4.1%
PHF						0.	00			0.	55			0.	66		0.66
Bv		North	bound			South	bound			East	oound			West	oound		

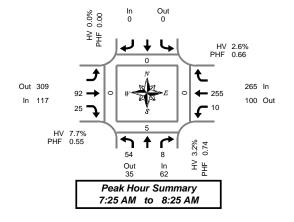
	Pedes	trians												
Crosswalk														
North	South	East	West											
0	5	0	0											

PHF		0.	74			0.	00			0.	55			0.0	66		0.66
Ву	N	North	<b>bound</b> Storm A	ve	N	South E John S	<b>bound</b> Storm A				bound th St			Westa E 4t			Total
Aovement	L		R	Total				Total		Т	R	Total	L	Т		Total	
Volume	54		8	62				0		92	25	117	10	255		265	444
%HV	3.7%	NA	0.0%	3.2%	NA	NA	NA	0.0%	NA	6.5%	12.0%	7.7%	0.0%	2.7%	NA	2.6%	4.1%
PHF	0.75		0.40	0.74				0.00		0.53	0.57	0.55	0.83	0.65		0.66	0.66

### Rolling Hour Summary

7:00 AM to 9:00 AM

Interval		North	bound			South	bound	Eastb	ound			West	oound				Pedes	strians	
Start	N	IE John	Storm A	ve	NE	John S	Storm Ave	E 4t	h St			E 4t	h St		Interval		Cross	swalk	
Time	L		R	Bikes			Bikes	T	R	Bikes	L	Т	B	Bikes	Total	North	South	East	West
7:00 AM	55		3	0			0	58	19	0	11	182		0	328	0	5	0	0
7:15 AM	51		6	0			0	83	19	0	9	258		0	426	0	5	0	0
7:30 AM	54		8	0			0	97	24	0	9	242		0	434	0	9	0	0
7:45 AM	55		9	0			0	99	28	0	8	223		0	422	0	7	0	0
8:00 AM	53		8	0			0	112	34	0	9	185		0	401	0	4	0	0





# NE John Storm Ave & E 4th St

*Thursday, December 06, 2018 7:00 AM to 9:00 AM* 

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2 0 Out In 3 2
Peak Hour Summary 7:25 AM to 8:25 AM

Out 9

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# Heavy Vehicle 5-Minute Interval Summary 7:00 AM to 9:00 AM

Interval Start	N	North E John S	Storm A		N		<b>bound</b> Storm A		Eastb E 4t	h St	,		E 4	<b>bound</b> th St		Interval
Time	L		R	Total				Total	Т	R	Total	L	Т		Total	Total
7:00 AM	1		0	1				0	4	0	4	0	0		0	5
7:05 AM	0		0	0		l		0	2	0	2	0	0		0	2
7:10 AM	0		0	0				0	2	0	2	0	0		0	2
7:15 AM	0		0	0				0	1	0	1	0	0		0	1
7:20 AM	0		0	0				0	0	0	0	0	0		0	0
7:25 AM	0		0	0				0	0	0	0	0	0		0	0
7:30 AM	0		0	0				0	0	0	0	0	0		0	0
7:35 AM	1		0	1				0	0	0	0	0	1		1	2
7:40 AM	0		0	0				0	0	0	0	0	0		0	0
7:45 AM	0		0	0				0	0	0	0	0	1		1	1
7:50 AM	0		0	0				0	1	1	2	0	2		2	4
7:55 AM	1		0	1				0	0	0	0	0	1		1	2
8:00 AM	0		0	0		[		0	1	1	2	0	1	1	1	3
8:05 AM	0		0	0				0	3	0	3	0	1		1	4
8:10 AM	0		0	0		(		0	0	0	0	0	0	1	0	0
8:15 AM	0		0	0				0	0	1	1	0	0		0	1
8:20 AM	0		0	0				0	1	0	1	0	0		0	1
8:25 AM	0		0	0		[		0	1	0	1	0	0		0	1
8:30 AM	1		0	1				0	0	0	0	0	0		0	1
8:35 AM	0		0	0				0	0	0	0	0	0		0	0
8:40 AM	0		0	0				0	0	1	1	0	1		1	2
8:45 AM	1		0	1				0	0	0	0	0	1		1	2
8:50 AM	0		0	0				0	 0	0	0	0	0		0	0
8:55 AM	0		0	0				0	4	0	4	0	0		0	4
Total Survey	5		0	5				0	20	4	24	0	9		9	38

### Heavy Vehicle 15-Minute Interval Summary 7:00 AM to 9:00 AM

Interval			bound				bound		Eastb					bound		
Start	N	E John S	Storm A	ve	N	E John 🗄	Storm Ave		E 4t	h St			E 4	th St		Interval
Time	L		R	Total			To	otal	Т	R	Total	L	Т		Total	Total
7:00 AM	1		0	1				0	8	0	8	0	0		0	9
7:15 AM	0		0	0				0	1	0	1	0	0		0	1
7:30 AM	1		0	1				0	0	0	0	0	1		1	2
7:45 AM	1		0	1				0	1	1	2	0	4		4	7
8:00 AM	0		0	0				0	4	1	5	0	2		2	7
8:15 AM	0		0	0				0	2	1	3	0	0		0	3
8:30 AM	1		0	1				0	 0	1	1	0	1	1	1	3
8:45 AM	1		0	1				0	4	0	4	0	1		1	6
Total Survey	5		0	5				D	20	4	24	0	9		9	38

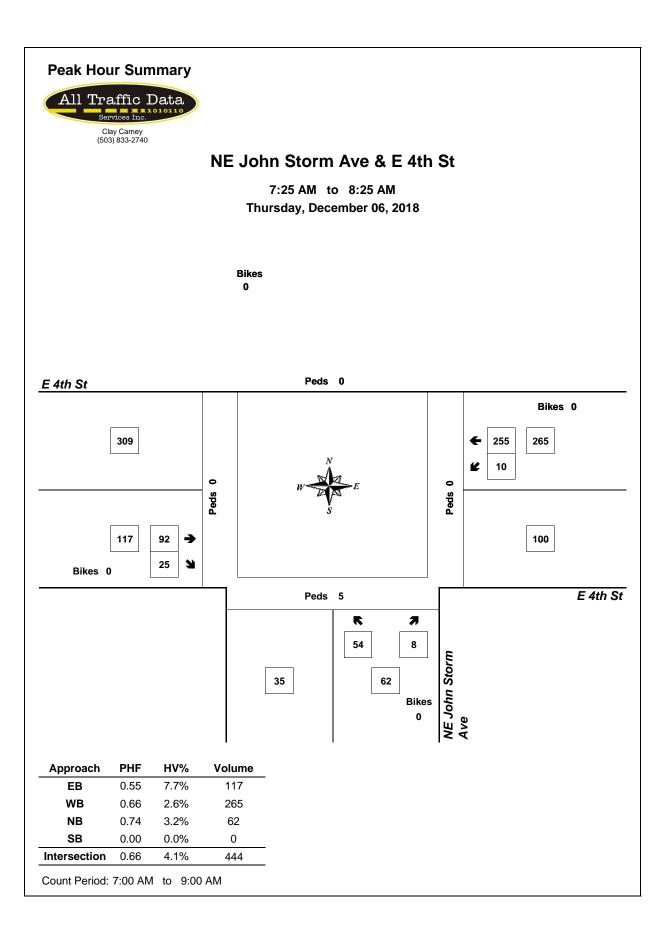
#### Heavy Vehicle Peak Hour Summary 7:25 AM to 8:25 AM

By	N		<b>bound</b> Storm Ave	N		bound Storm Ave			bound th St			bound th St	Total
Approach	In	NE John Storm Ave Out Total		In	Out	Total	In	Out	Total	In	Out	Total	
Volume	2	3	5	0	0	0	9	9	18	7	6	13	18
PHF	0.50			0.00			0.45			0.44			0.50

By Movement	N	Northl E John S		ve	N	 <b>bound</b> Storm Av	ve	Eastb E 4t	ound h St				bound th St		Total
wovernent	L		R	Total			Total	Т	R	Total	L	Т		Total	
Volume	2		0	2			0	6	3	9	0	7		7	18
PHF	0.50		0.00	0.50			0.00	0.38	0.38	0.45	0.00	0.44		0.44	0.50

#### Heavy Vehicle Rolling Hour Summary 7:00 AM to 9:00 AM

Interval		North	bound			South	bound		Eastb	ound			West	bound		
Start	N	E John S	Storm A	ve	N	E John 🗄	Storm Av	/e	E 4t	h St			E 41	th St		Interval
Time	L		R	Total		Total			Т	R	Total	L	Т	1	Total	Total
7:00 AM	3		0	3				0	10	1	11	0	5		5	19
7:15 AM	2		0	2				0	6	2	8	0	7		7	17
7:30 AM	2		0	2				0	7	3	10	0	7		7	19
7:45 AM	2		0	2				0	7	4	11	0	7	1	7	20
8:00 AM	2		0	2				0	10	3	13	0	4		4	19





# NE John Storm Ave & E 4th St

Thursday, December 06, 2018 4:00 PM to 6:00 PM

#### 5-Minute Interval Summary 4.00 PM to 6.00 PM

Interval		Northbou	Ind		Southb	ound		Eastb	ound			West	bound			1	Pedes	strians	
Start	N	E John Stor		ve	NE John St			E 4t					th St		Interval		Cross		
Time	L		R	Bikes		Bikes		Т	R	Bikes	L	Т		Bikes	Total	North	South	East	West
4:00 PM	6	1 1	2	0		0	1	19	7	0	2	7		0	43	0	0	0	0
4:05 PM	4		1	0		0		18	10	0	0	9		0	42	0	0	1	0
4:10 PM	4		2	0		0		23	6	0	4	8		0	47	0	0	0	0
4:15 PM	5		2	0		0		10	2	0	0	9		0	28	0	0	0	0
4:20 PM	3		1	0		0	· · · · ·	12	3	0	1	5		0	25	0	0	0	0
4:25 PM	4		1	0		0		17	13	0	2	15		0	52	0	0	0	0
4:30 PM	4		2	0		0		13	7	0	3	10		0	39	0	0	0	0
4:35 PM	3		2	0		0		10	1	0	1	14		0	31	0	1	0	0
4:40 PM	5		1	0		0		15	6	0	1	7		0	35	0	0	0	0
4:45 PM	2		2	0		0		15	6	0	0	11		0	36	0	0	0	0
4:50 PM	7		2	0		0		8	6	0	2	7		0	32	0	1	0	0
4:55 PM	3		3	0		0		11	8	0	0	7		0	32	0	0	0	0
5:00 PM	2		1	0		0		12	7	0	1	16		0	39	0	0	0	0
5:05 PM	2		2	0		0		16	5	0	1	16		0	42	0	0	0	0
5:10 PM	3		1	0		0		15	6	0	1	11		0	37	0	0	0	0
5:15 PM	2		1	0		0		15	2	0	1	7		0	28	0	0	0	0
5:20 PM	3		1	0		0		13	2	0	1	10		0	30	0	0	0	0
5:25 PM	2		1	0		0		21	5	0	1	12		0	42	0	0	0	0
5:30 PM	1		0	0		0		20	8	0	0	9		0	38	0	0	0	0
5:35 PM	2		0	0		0		21	5	0	0	9		0	37	0	0	0	0
5:40 PM	2		3	0		0		21	8	0	0	9		0	43	0	0	0	0
5:45 PM	3		3	0		0		17	11	0	1	11		0	46	0	1	0	0
5:50 PM	5		2	0		0		15	5	0	0	5		0	32	0	0	0	0
5:55 PM	3		1	0		0		17	8	0	0	5		0	34	0	0	0	0
Total Survey	80	3	37	0		0		374	147	0	23	229		0	890	0	3	1	0

### 15-Minute Interval Summary

### 4:00 PM to 6:00 PM

Interval Start	N	Northi E John S		ve	-	outhbound ohn Storm A	ve	Eastb E 4t	ound h St			Westb E 4t		Interval		Pedes Cross		
Time	L		R	Bikes			Bikes	Т	R	Bikes	L	Т	Bikes	Total	North	South	East	West
4:00 PM	14		5	0			0	60	23	0	6	24	0	132	0	0	1	0
4:15 PM	12		4	0			0	39	18	0	3	29	0	105	0	0	0	0
4:30 PM	12		5	0			0	38	14	0	5	31	0	105	0	1	0	0
4:45 PM	12		7	0			0	34	20	0	2	25	0	100	0	1	0	0
5:00 PM	7		4	0			0	43	18	0	3	43	0	118	0	0	0	0
5:15 PM	7		3	0			0	49	9	0	3	29	0	100	0	0	0	0
5:30 PM	5		3	0			0	62	21	0	0	27	0	118	0	0	0	0
5:45 PM	11		6	0			0	49	24	0	1	21	0	112	0	1	0	0
Total Survey	80		37	0			0	374	147	0	23	229	0	890	0	3	1	0

# Peak Hour Summary

Dir		North	bound			South	bound			Easth	ound			West	ound		
By	N	E John	Storm A	ve	N	E John	Storm A	ve		E 41	th St			E 4t	h St		Total
Approach	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	
Volume	46	79	125	0	0	0	0	0	275	150	425	0	127	219	346	0	448
%HV		0.	0%			0.	0%			1.	1%			0.8	3%		0.9%
PHF		0.	64			0.	00			0.	83			0.	69		0.89
			64 bound				00 bound				83 bound			0.0 Westk			0.89
Ву	N	North		ve	N	South		ve		Easth					bound		0.89 Total
Ву	N	North	bound	ve Total	N	South	bound	ve Total		Easth	ound	Total	L	West	bound	Total	
	NI L 30	North	bound Storm A		N	South	bound			Easth	oound th St	Total 275	L 7	West	bound	Total 127	
By Movement	L	North	bound Storm A R 16	Total	N	South	bound		NA	Easth E 41	bound th St R		L 7 0.0%	Westt E 4t T	bound		Total

	Pedes	trians	
	Cross	swalk	
North	South	East	West
0	1	0	0

Out 0

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Peak Hour Summary 5:00 PM to 6:00 PM

16

In 46

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0

HV 0.8% PHF 0.69

127 In

219 Out

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0.0% 0.64

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**4** 120

7

In 0

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30

Out 79

HV 0.0% PHF 0.00

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203 🔶

72

HV 1.1% PHF 0.83

Out 150

ln 275

R	Rolling Hour Summ		mary			
4	·nn	РM	to	6.00	РM	

### 4:00 PM to 6:00 PM

Interval Start	N	North E John	<b>bound</b> Storm A	ve	NE	South	bound Storm Ave		Eastb E 4t				Westb E 4t	bound h St	Interval			<b>trians</b> swalk	
Time	L		R	Bikes			Bikes	1	Т	R	Bikes	L	Т	Bike	Total	North	South	East	West
4:00 PM	50		21	0			0		171	75	0	16	109	0	442	0	2	1	0
4:15 PM	43		20	0			0		154	70	0	13	128	0	428	0	2	0	0
4:30 PM	38		19	0			0		164	61	0	13	128	0	423	0	2	0	0
4:45 PM	31		17	0			0		188	68	0	8	124	0	436	0	1	0	0
5:00 PM	30		16	0			0		203	72	0	7	120	0	448	0	1	0	0



# NE John Storm Ave & E 4th St

*Thursday, December 06, 2018 4:00 PM to 6:00 PM* 

		in 0	Out 0		
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	t	B	Å.	] <b>t</b>	•
	°→	#~ <u>P</u>	₩ <sup>™</sup>	L C	• 1 • 0
		1	† /*		
		0 Out 0	0 In 0		
Γ			r Sum to 6:0		
	Pea	Out 0 <b>k Hou</b>			• 0

Out 1

In 3

# Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start	Start NE John Storm Ave			-	Southbound NE John Storm Ave				th St	,		E 4	bound th St		Interval	
Time	L		R	Total			Total		Т	R	Total	L	Т		Total	Total
4:00 PM	0		0	0			0		0	0	0	0	0		0	0
4:05 PM	0		0	0			0		2	0	2	0	0		0	2
4:10 PM	0		0	0			0		1	0	1	1	2		3	4
4:15 PM	0		0	0			0		0	0	0	0	0		0	0
4:20 PM	0		0	0			0		0	0	0	0	0		0	0
4:25 PM	0		0	0			0		0	0	0	0	0		0	0
4:30 PM	0		0	0			0		3	0	3	0	0		0	3
4:35 PM	0		0	0			0		0	0	0	0	1		1	1
4:40 PM	0		0	0			0		0	0	0	0	1		1	1
4:45 PM	0		0	0			0		1	0	1	0	0		0	1
4:50 PM	0		0	0			0		0	0	0	0	0		0	0
4:55 PM	0		0	0			0		0	0	0	0	1		1	1
5:00 PM	0		0	0			0		0	0	0	0	0		0	0
5:05 PM	0		0	0			0		0	0	0	0	0		0	0
5:10 PM	0		0	0			0		0	0	0	0	1		1	1
5:15 PM	0		0	0			0		0	0	0	0	0		0	0
5:20 PM	0		0	0			0		0	0	0	0	0		0	0
5:25 PM	0		0	0			0		0	0	0	0	0		0	0
5:30 PM	0		0	0			0		2	0	2	0	0		0	2
5:35 PM	0		0	0			0		1	0	1	0	0		0	1
5:40 PM	0		0	0			0		0	0	0	0	0		0	0
5:45 PM	0		0	0			0		0	0	0	0	0		0	0
5:50 PM	0		0	0			0		0	0	0	0	0		0	0
5:55 PM	0		0	0			0		0	0	0	0	0		0	0
Total Survey	0		0	0			0		10	0	10	1	6		7	17

# Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval			bound		Southbound         Eastbound           NE John Storm Ave         E 4th St				Westbound E 4th St							
Start	N	E John S	Storm A	ve	N	E Jonn		·	 E 41	n St	,,		E 41	in St		Interval
Time	L		R	Total				Total	Т	R	Total	L	Т		Total	Total
4:00 PM	0		0	0				0	3	0	3	1	2		3	6
4:15 PM	0		0	0				0	0	0	0	0	0		0	0
4:30 PM	0		0	0				0	3	0	3	0	2		2	5
4:45 PM	0		0	0				0	1	0	1	0	1		1	2
5:00 PM	0		0	0				0	0	0	0	0	1		1	1
5:15 PM	0		0	0				0	0	0	0	0	0		0	0
5:30 PM	0		0	0				0	3	0	3	0	0		0	3
5:45 PM	0		0	0				0	0	0	0	0	0		0	0
Total Survey	0		0	0				0	10	0	10	1	6		7	17

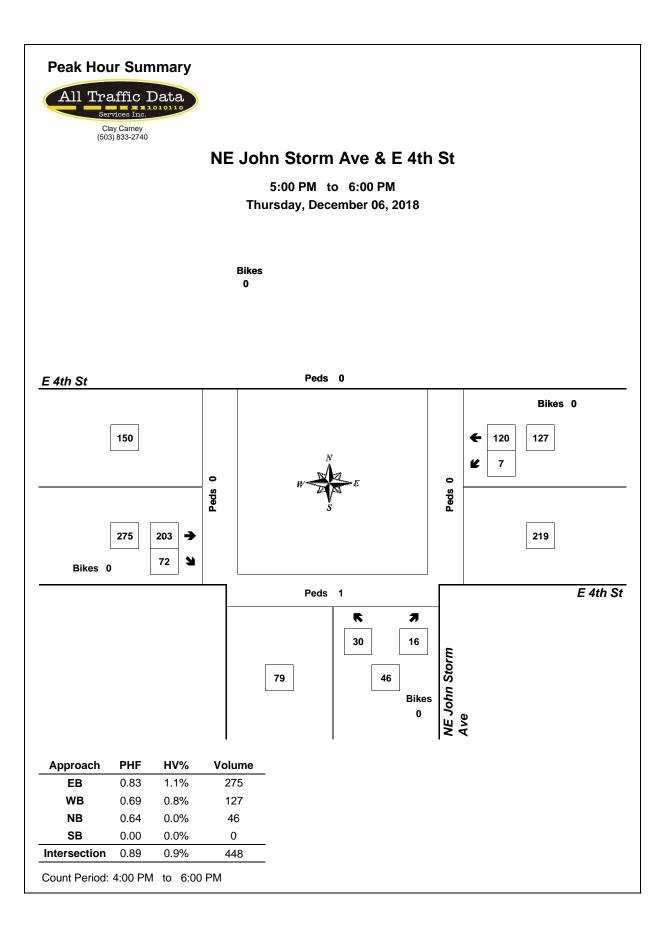
# Heavy Vehicle Peak Hour Summary 5:00 PM to 6:00 PM

By	Northbound NE John Storm Ave		Southbound NE John Storm Ave		E 4th St				Westbound E 4th St				
Approach	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	0	0	0	0	0	0	3	1	4	1	3	4	4
PHF	0.00			0.00			0.25			0.25			0.33

By Movement	Northbound NE John Storm Ave			Southbound NE John Storm Ave		Eastbound E 4th St			Westbound E 4th St			Total				
	L		R	Total			Total		Т	R	Total	L	Т		Total	
Volume	0		0	0			0		3	0	3	0	1		1	4
PHF	0.00		0.00	0.00			0.00		0.25	0.00	0.25	0.00	0.25		0.25	0.33

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval		North	bound			Southbound		Eastbound				West	bound				
Start	N	E John S	Storm A	ve	N	E John	Storm Av	/e		E 4t	h St			E 41	th St		Interval
Time	L		R	Total				Total		Т	R	Total	L	Т		Total	Total
4:00 PM	0		0	0				0		7	0	7	1	5		6	13
4:15 PM	0		0	0				0		4	0	4	0	4		4	8
4:30 PM	0		0	0				0		4	0	4	0	4		4	8
4:45 PM	0		0	0				0		4	0	4	0	2	1	2	6
5:00 PM	0		0	0				0		3	0	3	0	1		1	4



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# TRIP GENERATION CALCULATIONS Existing Development

Land Use: Single-Family Detached Housing Land Use Code: 210 Setting/Location General Urban/Suburban Variable: Dwelling Units Variable Value: 1

# **AM PEAK HOUR**

# Trip Rate: 0.74

	Enter	Exit	Total
Directional Distribution	25%	75%	
Trip Ends	0	1	1

# **PM PEAK HOUR** *Trip Rate:* 0.99

_	Enter	Exit	Total
Directional Distribution	63%	37%	
Trip Ends	1	0	1

## WEEKDAY

Trip Rate: 9.44

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	5	5	10

### SATURDAY

Trip Rate: 9.54

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	5	5	10

Source: Trip Generation Manual, Tenth Edition

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# TRIP GENERATION CALCULATIONS Proposed Development

Land Use: Single-Family Detached Housing Land Use Code: 210 Setting/Location General Urban/Suburban Variable: Dwelling Units Variable Value: 39

# **AM PEAK HOUR**

# Trip Rate: 0.74

	Enter	Exit	Total
Directional Distribution	25%	75%	
Trip Ends	7	22	29

Trip Rate:	0.99	

**PM PEAK HOUR** 

_	Enter	Exit	Total
Directional Distribution	63%	37%	
Trip Ends	25	14	39

## WEEKDAY

Trip Rate: 9.44

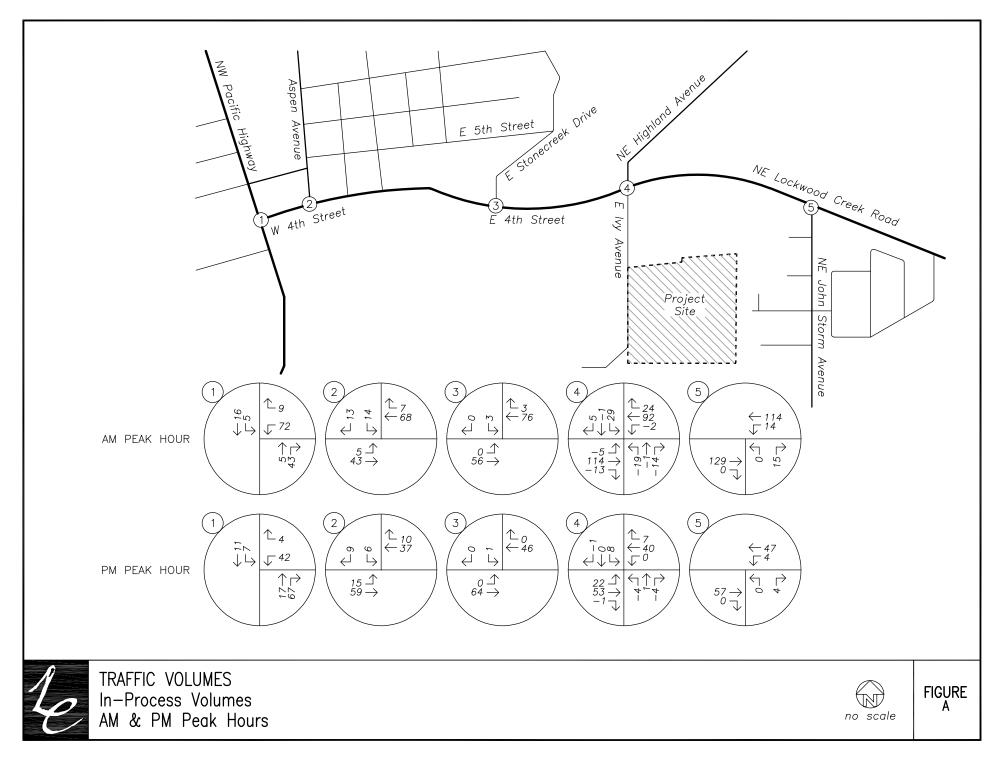
	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	184	184	368

### SATURDAY

Trip Rate: 9.54

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	186	186	372

Source: Trip Generation Manual, Tenth Edition



#### OFFICER REPORTED CRASHES THAT OCCURRED at OR in the vicinity of THE FOLLOWING INTERSECTIONS IN THE CITY OF LA CENTER

4th St @ Pacific Hwy / La Center Rd 01/01/2013 - 12/31/2017

Under 23 U.S. Code § 409 and 23 U.S. Code § 148, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

JURISDICTION	COUNTY	CITY	PRIMARY TRAFFICWAY	BLOCK NUMBER	INTERSECTING TRAFFICWAY	DIST FROM REF POINT	MI or FT	COMP DIR FROM REF POINT	REFERENCE POINT NAME	MILEPOST	A/B	SR ONLY HISTORY / SUSPENSE IND	REPORT NUMBER	DATE	TIME	MOST SEVERE INJURY TYPE	# INJ	# FAT	# VEH	# PEDS	# BIKES	VEHICLE 1 TYPE	VEHICLE 2 TYPE
City Street	Clark	La Center	NW PACIFIC HWY	400	W 4TH ST							No	E358151	09/12/2014	07:45	No Apparent Injury	0	0	2	0	0	Passenger Car	Pickup,Panel Truck or Vanette under 10,000 lb
City Street	Clark	La Center	NW PACIFIC HWY	400	W 4TH ST							No	E367326	10/18/2014	20:00	Possible Injury	1	0	2	0	0	Passenger Car	Passenger Car
City Street	Clark	La Center	NW PACIFIC HWY	400	W 4TH ST							No	E402273	02/20/2015	19:44	Possible Injury	1	0	2	0	0	Pickup,Panel Truck or Vanette under 10,000 lb	Pickup,Panel Truck or Vanette under 10,000 lb
City Street	Clark	La Center	NW PACIFIC HWY	400	W 4TH ST							No	E457917	09/02/2015	06:50	Suspected Minor Injury	2	0	2	0	0	Pickup,Panel Truck or Vanette under 10,000 lb	Pickup,Panel Truck or Vanette under 10,000 lb
City Street	Clark	La Center	NW PACIFIC HWY	400	W 4TH ST							No	E525948	03/17/2016	15:45	No Apparent Injury	0	0	2	0	0	Pickup,Panel Truck or Vanette under 10,000 lb	Passenger Car
City Street	Clark	La Center	NW PACIFIC HWY	0	W 4TH ST							No	E651052	03/10/2017	15:40	Possible Injury	1	0	2	0	0	Passenger Car	Passenger Car
City Street	Clark	La Center	NW PACIFIC HWY	0	W 4TH ST							No	E671709	05/03/2017	06:41	No Apparent Injury	0	0	2	0	0	Passenger Car	Passenger Car
City Street	Clark	La Center	W 4TH ST	200	NW PACIFIC HWY							No	E230384	03/01/2013	08:02	Possible Injury	2	0	2	0	0	Passenger Car	Passenger Car
City Street	Clark	La Center	W 4TH ST	300	NW PACIFIC HWY							No	E464806	09/25/2015	08:10	No Apparent Injury	0	0	2	0	0	Pickup,Panel Truck or Vanette under 10,000 lb	Passenger Car

JUNCTION RELATIONSHIP	WEATHER	ROADWAY SURFACE CONDITION	LIGHTING CONDITION	FIRST COLLISION TYPE / OBJECT STRUCK	VEHICLE 1 ACTION	VEHICLE 2 ACTION	VEHICLE 1 COMPASS DIRECTION FROM	VEHICLE 1 COMPASS DIRECTION TO	VEHICLE 2 COMPASS DIRECTION FROM	VEHICLE 2 COMPASS DIRECTION TO	MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 2 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 3 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)
At Intersection and Related	Clear or Partly Cloudy	Dry	Daylight	Entering at angle	Making Left Turn	Going Straight Ahead	East	South	South	North	Did Not Grant RW to Vehicle	Driver Not Distracted		Driver Not Distracted		
At Intersection and Related	Clear or Partly Cloudy	Dry	Dark-Street Lights On	Entering at angle	Stopped at Signal or Stop Sign	Making Right Turn	Vehicle Stopped	Vehicle Stopped	South	East	None			Under Influence of Alcohol		
At Intersection and Related	Clear or Partly Cloudy	Dry	Dark-Street Lights On	From opposite direction - one left turn - one straight	Going Straight Ahead	Making Left Turn	North	South	South	West	None			Did Not Grant RW to Vehicle		
At Intersection and Related	Overcast	Wet	Daylight	Entering at angle	Going Straight Ahead	Making Left Turn	South	North	East	South	None			Did Not Grant RW to Vehicle		
At Intersection and Related	Clear or Partly Cloudy	Dry	Daylight	Entering at angle	Making Left Turn	Going Straight Ahead	East	South	South	North	Improper Turn	Inattention		None		
At Intersection and Related	Clear or Partly Cloudy	Dry	Daylight	From opposite direction - one left turn - one straight	Making Left Turn	Going Straight Ahead	East	South	North	South	Inattention			None		
At Intersection and Related	Clear or Partly Cloudy	Wet	Daylight	Entering at angle	Going Straight Ahead	Making Left Turn	South	North	East	South	None			Did Not Grant RW to Vehicle		
At Intersection and Related	Clear or Partly Cloudy	Wet	Daylight	Entering at angle	Making Left Turn	Going Straight Ahead	East	South	South	North	Did Not Grant RW to Vehicle			None		
At Intersection and Related	Raining	Wet	Daylight	Entering at angle	Making Left Turn	Going Straight Ahead	East	South	South	North	Did Not Grant RW to Vehicle			None		

BICYCLIST CONTRIBUTING CIRCUMSTANCE 1 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 2 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 3 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)	FIRST IMPACT LOCATION (City, County & Misc Trafficways - 2010 forward)	WA STATE PLANE SOUTH - X 2010 - FORWARD	WA STATE PLANE SOUTH - Y 2010 - FORWARD
									Lane of Primary Trafficway	1086930.86	200420.01
									Intersecting Trafficway	1086930.86	200420.01
									Lane of Primary Trafficway	1086930.86	200420.01
									Lane of Primary Trafficway	1086930.87	200420.01
									Lane of Primary Trafficway	1086930.87	200420.01
									Lane of Primary Trafficway	1086930.87	200420.01
									Lane of Primary Trafficway	1086930.87	200420.01
									Lane of Primary Trafficway	1086930.85	200420.01
									Intersecting Trafficway	1086930.87	200420.01

#### OFFICER REPORTED CRASHES THAT OCCURRED at OR in the vicinity of THE FOLLOWING INTERSECTIONS IN THE CITY OF LA CENTER

4th St @ Ivy Ave / Highland Rd / Highland Ave

### 01/01/2013 - 12/31/2017

Under 23 U.S. Code § 409 and 23 U.S. Code § 148, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

JURISDICTION	COUNTY	CITY	PRIMARY TRAFFICWAY	BLOCK NUMBER	INTERSECTING TRAFFICWAY	DIST FROM MI REF or FT POINT	COMP DIR FROM REF POINT	REFERENCE POINT NAME	MILEPOST	A/B	SR ONLY HISTORY / SUSPENSE IND	REPORT NUMBER	DATE	TIME	MOST SEVERE INJURY TYPE	# INJ	# FAT	# VEH	# PEDS # BIKES	VEHICLE 1 TYPE	VEHICLE 2 TYPE
City Street	Clark	La Center	E 4TH ST	900	NE HIGHLAND AVE						No	E354317	09/02/2014	08:05	No Apparent Injury	0	0	2	0 0	Passenger Car	Passenger Car
City Street	Clark	La Center	E 4TH ST	0	NE HIGHLAND RD						No	E713418	09/18/2017	07:56	Possible Injury	1	0	1	1 0	Pickup,Panel Truck or Vanette under 10,000 lb	
City Street	Clark	La Center	NE HIGHLAND AVE	400	E 4TH ST						No	E237901	04/14/2013	11:30	No Apparent Injury	0	0	1	0 0	Passenger Car	

JUNCTION RELATIONSHIP	WEATHER	ROADWAY SURFACE CONDITION	LIGHTING CONDITION	FIRST COLLISION TYPE / OBJECT STRUCK	VEHICLE 1 ACTION	VEHICLE 2 ACTION	VEHICLE 1 COMPASS DIRECTION FROM	VEHICLE 1 COMPASS DIRECTION TO	VEHICLE 2 COMPASS DIRECTION FROM	VEHICLE 2 COMPASS DIRECTION TO	MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 2 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 3 (UNIT 1)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	MV DRIVER CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)
At Intersection and Related	Clear or Partly Cloudy	Dry	Daylight	Entering at angle	Making Left Turn	Making Left Turn	West	Northeast	North	Southeast	Driver Not Distracted			Did Not Grant RW to Vehicle		
At Intersection and Related	Raining	Wet	Daylight	Vehicle going straight hits pedestrian	Going Straight Ahead		West	East			Fail to Yield Row to Pedestrian					
At Intersection and Related	Clear or Partly Cloudy	Dry	Daylight	Street Light Pole or Base	Going Straight Ahead		North	South			Exceeding Stated Speed Limit	Over Center Line				

BICYCLIST CONTRIBUTING CIRCUMSTANCE 1 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 2 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 3 (UNIT 1)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	BICYCLIST CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 1 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 2 (UNIT 2)	PEDESTRIAN CONTRIBUTING CIRCUMSTANCE 3 (UNIT 2)	FIRST IMPACT LOCATION (City, County & Misc Trafficways - 2010 forward)	WA STATE PLANE SOUTH - X 2010 - FORWARD	WA STATE PLANE SOUTH - Y 2010 - FORWARD
									Lane of Primary Trafficway	1089710.53	200594.82
						Other			Lane of Primary Trafficway	1089710.55	200594.81
									Past the Outside Shoulder of Primary Trafficway	1089710.76	200589.11



Project:	Holley Park Subdivision
Intersection:	E 4th Street at E Stonecreek Drive
Date:	2/14/2019
Scenario:	2021 Buildout Conditions - AM Peak Hour (EB)

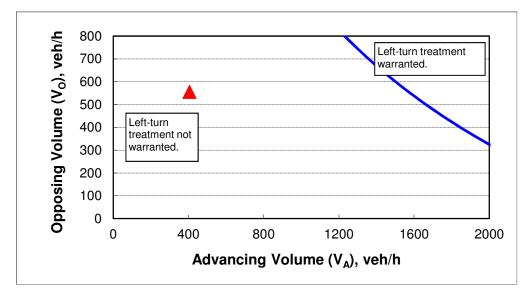
## 2-lane roadway (English)

INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	25
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	0%
Advancing volume (V <sub>A</sub> ), veh/h:	405
Opposing volume (V <sub>O</sub> ), veh/h:	555

### OUTPUT

Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	1571
Guidance for determining the need for a major-road left-turn bay	y:
Left-turn treatment NOT warranted.	



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9



Project:Holley Park SubdivisionIntersection:E 4th Street at E Stonecreek DriveDate:2/14/2019Scenario:2021 Buildout Conditions - PM Peak Hour (EB)

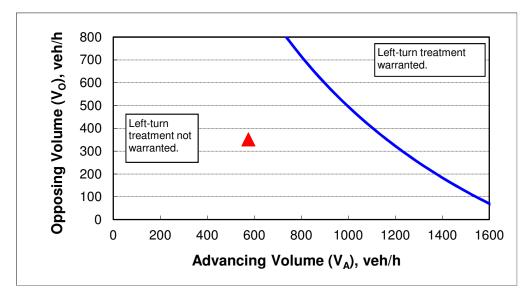
### 2-lane roadway (English)

INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	25
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	1%
Advancing volume (V <sub>A</sub> ), veh/h:	575
Opposing volume (V <sub>O</sub> ), veh/h:	351

### OUTPUT

Variable	Value	
Limiting advancing volume (V <sub>A</sub> ), veh/h:	1164	
Guidance for determining the need for a major-road left-turn bay:		
Left-turn treatment NOT warranted.		



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9



Project:	Holley Park Subdivision
Intersection:	NE John Storm Avenue at NE Lockwood Creek Road
Date:	2/14/2019
Scenario:	2021 Buildout Conditions - AM Peak Hour (WB)

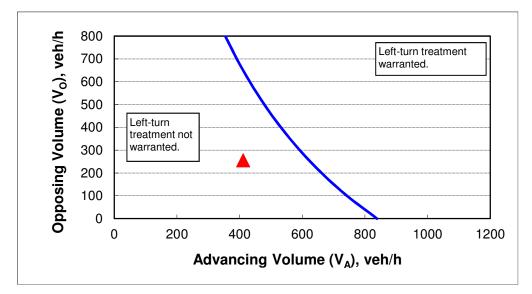
## 2-lane roadway (English)

INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	25
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	6%
Advancing volume (V <sub>A</sub> ), veh/h:	411
Opposing volume (V <sub>O</sub> ), veh/h:	255

### OUTPUT

Variable	Value	
Limiting advancing volume (V <sub>A</sub> ), veh/h:	622	
Guidance for determining the need for a major-road left-turn bay:		
Left-turn treatment NOT warranted.		



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9



Project:	Holley Park Subdivision
Intersection:	NE John Storm Avenue at NE Lockwood Creek Road
Date:	2/14/2019
Scenario:	2021 Buildout Conditions - PM Peak Hour (WB)

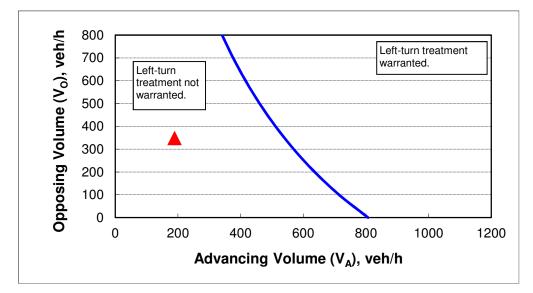
## 2-lane roadway (English)

INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	25
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	7%
Advancing volume (V <sub>A</sub> ), veh/h:	189
Opposing volume (V <sub>O</sub> ), veh/h:	348

### OUTPUT

Variable	Value	
Limiting advancing volume (V <sub>A</sub> ), veh/h:	540	
Guidance for determining the need for a major-road left-turn bay:		
Left-turn treatment NOT warranted.		



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Holley Park Subdivision



Date: Scenario:	2/14/2019 2021 Buildout Conditions		
Major Street:	4th Street	Minor Street:	Aspen Avenue
Number of Lanes:	2	Number of Lanes:	1
PM Peak Hour Volumes:	1019	PM Peak Hour Volumes:	73

## Warrant Used:

Project:

 100 percent of standard warrants used

 X
 70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
WARRANT 1, CC	NDITION A	100%	70%	100%	70%
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CONDITION B					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Volume			
Major Street	10,190	7,400	
Minor Street*	730	1,850	No
Condition B: Interruption of Continuous 7	Fraffic		
Major Street	10,190	11,100	
Minor Street*	730	950	No
Combination Warrant			
Major Street	10,190	8,880	
Minor Street*	730	1,480	No

Note: Minor street right-turning traffic volumes reduced by 25%.

Project:

Holley Park Subdivision



Date: Scenario:	2/14/2019 2021 Buildout Conditions			
Major Street:	4th Street	Minor Street:	Stonecreek Drive	
Number of Lanes:	1	Number of Lanes:	1	
PM Peak Hour Volumes:	926	PM Peak Hour Volumes:	30	
Warrant Used:				

 100 percent of standard warrants used

 X
 70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
WARRANT 1, CONDITION A		100%	70%	100%	70%
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CONDITION B					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Volum	е		
Major Street	9,260	6,200	
Minor Street*	300	1,850	No
Condition B: Interruption of Continuous	Traffic		
Major Street	9,260	9,300	
Minor Street*	300	950	No
Combination Warrant			
Major Street	9,260	7,440	
Minor Street*	300	1,480	No

Note: Minor street right-turning traffic volumes reduced by 25%.

Holley Park Subdivision

Project:



Date: Scenario:	2/14/2019 2021 Buildout Conditions				
Major Street:	4th Street	Minor Street:	Highland Avenue		
Number of Lanes:	1	Number of Lanes:	1		
PM Peak Hour Volumes:	808	PM Peak Hour Volumes:	95		
Warrant Used:	100 percent of standard warr	ants used			
X 70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.					
Number of	Longo for Moving	DT on Major St	ADT on Minor St		

Number o	of Lanes for Moving	AD1 on	Major St.	AD1 on	Minor St.	
Traffic or	n Each Approach:	(total of both	approaches)	(higher-volun	ne approach)	
WARRANT 1, CO	ONDITION A	100%	70%	100%	70%	
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	
1	1	8,850	6,200	2,650	1,850	
2 or more	1	10,600	7,400	2,650	1,850	
2 or more	2 or more	10,600	7,400	3,550	2,500	
1	2 or more	8,850	6,200	3,550	2,500	
WARRANT 1, CONDITION B						
1	1	13,300	9,300	1,350	950	
2 or more	1	15,900	11,100	1,350	950	
2 or more	2 or more	15,900	11,100	1,750	1,250	
1	2 or more	13,300	9,300	1,750	1,250	

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
Warrant 1			
Condition A: Minimum Vehicular Volume	9		
Major Street	8,080	6,200	
Minor Street*	950	1,850	No
Condition B: Interruption of Continuous	Traffic		
Major Street	8,080	9,300	
Minor Street*	950	950	No
Combination Warrant			
Major Street	8,080	7,440	
Minor Street*	950	1,480	No

Note: Minor street right-turning traffic volumes reduced by 25%.



Project: Date: Scenario:	Holley Park Subdiv 2/14/2019 2021 Buildout Cond				le
Major Street:	Lockwood Creek R	oad	Minor Street:	John Storm Av	enue
Number of Lanes:	1		Number of Lanes:	1	
PM Peak Hour Volumes:	537		PM Peak Hour Volumes:	49	
Warrant Used:					
X	100 percent of standa 70 percent of standar of 40 mph or isolated	d warrants us	ed due to 85th perce	-	ess
	Lanes for Moving Each Approach:		n Major St. h approaches)	ADT on M (higher-volum)	
WARRANT 1, CO	NDITION A	100%	70%	100%	70%
Major St.	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CO	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250
Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume					daily volume
		Approach Volumes	Minimum Volumes	ls Signal Warrant Met?	
Warrant 1					
	num Vehicular Volume				
Major Street		5,370	6,200		
Minor Street*		490	1,850	No	

Condition B: Interruption of Continuous TrafficMajor Street5,3709,300Minor Street\*490950Combination Warrant5,3707,440Major Street5,3707,440Minor Street\*4901,480

Note: Minor street right-turning traffic volumes reduced by 25%.

No

No

# LEVEL OF SERVICE

Level of service is used to describe the quality of traffic flow. Levels of service A to C are considered good, and rural roads are usually designed for level of service C. Urban streets and signalized intersections are typically designed for level of service D. Level of service E is considered to be the limit of acceptable delay. For unsignalized intersections, level of service E is generally considered acceptable. Here is a more complete description of levels of service:

*Level of service A:* Very low delay at intersections, with all traffic signal cycles clearing and no vehicles waiting through more than one signal cycle. On highways, low volume and high speeds, with speeds not restricted by other vehicles.

*Level of service B:* Operating speeds beginning to be affected by other traffic; short traffic delays at intersections. Higher average intersection delay than for level of service A resulting from more vehicles stopping.

*Level of service C:* Operating speeds and maneuverability closely controlled by other traffic; higher delays at intersections than for level of service B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. This is the recommended design standard for rural highways.

Level of service D: Tolerable operating speeds; long traffic delays occur at intersections. The influence of congestion is noticeable. At traffic signals many vehicles stop, and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle, are noticeable. This is typically the design level for urban signalized intersections.

*Level of service E:* Restricted speeds, very long traffic delays at traffic signals, and traffic volumes near capacity. Flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate to level of service F. Traffic signal cycle failures are frequent occurrences. For unsignalized intersections, level of service E or better is generally considered acceptable.

*Level of service F:* Extreme delays, resulting in long queues which may interfere with other traffic movements. There may be stoppages of long duration, and speeds may drop to zero. There may be frequent signal cycle failures. Level of service F will typically result when vehicle arrival rates are greater than capacity. It is considered unacceptable by most drivers.

4

# LEVEL OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS

LEVEL	CONTROL DELAY
OF	PER VEHICLE
SERVICE	(Seconds)
А	<10
В	10-20
С	20-35
D	35-55
Е	55-80
F	>80

# LEVEL OF SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

LEVEL	CONTROL DELAY
OF	PER VEHICLE
SERVICE	(Seconds)
А	<10
В	10-15
С	15-25
D	25-35
Е	35-50
F	>50

Intersection					
Intersection Delay, s/veh	5.6				
Intersection LOS	А				
Approach	WE	3	NB		
Entry Lanes	•	1	2		
Conflicting Circle Lanes		2	2		
Adj Approach Flow, veh/h	38	7	270		
Demand Flow Rate, veh/h	400	6	289		
Vehicles Circulating, veh/h	6	5	45		3
Vehicles Exiting, veh/h	269	)	665		8
Ped Vol Crossing Leg, #/h	4	1	2		
Ped Cap Adj	0.999	)	0.998		1.000
Approach Delay, s/veh	5.	5	4.0		7.0
Approach LOS	ŀ	ł	А		A
Lane	Left	Left	Right	Left	
Designated Moves	LR	LT	R	LT	
Assumed Moves	LR	LT	R	LT	
RT Channelized					
Lane Util	1.000	0.225	0.775	1.000	
Follow-Up Headway, s	2.535	2.667	2.535	2.535	
Critical Headway, s	4.328	4.645	4.328	4.328	
Entry Flow, veh/h	406	65	224	324	
Cap Entry Lane, veh/h	1344	1295	1367	1023	
Entry HV Adj Factor	0.953	0.935	0.933	0.953	
Flow Entry, veh/h	387	61	209	309	
Cap Entry, veh/h	1280	1208	1272	974	
V/C Ratio	0.302	0.050	0.164	0.317	
Control Delay, s/veh	5.5	3.4	4.2	7.0	
LOS	А	А	А	А	
95th %tile Queue, veh	1	0	1	1	

Int Delay, s/veh	2.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	4		٦	1
Traffic Vol, veh/h	46	198	312	49	71	35
Future Vol, veh/h	46	198	312	49	71	35
Conflicting Peds, #/hr	1	0	0	1	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	82	82	82	82	82	82
Heavy Vehicles, %	6	6	6	6	3	3
Mvmt Flow	56	241	380	60	87	43

Major/Minor	Major1	Ν	/lajor2		Minor2	
Conflicting Flow All	441	0	-	0	764	411
Stage 1	-	-	-	-	411	-
Stage 2	-	-	-	-	353	-
Critical Hdwy	4.16	-	-	-	6.43	6.23
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	2.254	-	-	-	3.527	
Pot Cap-1 Maneuver	1098	-	-	-	370	639
Stage 1	-	-	-	-	667	-
Stage 2	-	-	-	-	709	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	350	638
Mov Cap-2 Maneuve	r -	-	-	-	350	-
Stage 1	-	-	-	-	632	-
Stage 2	-	-	-	-	708	-
Approach	EB		WB		SB	
HCM Control Delay,			0		16.1	
HCM LOS			-		С	
Minor Lane/Major My	umt	FRI	FRT	W/RT		SBI n1 SBI

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	SBLn2	
Capacity (veh/h)	1097	-	-	- 350	638	
HCM Lane V/C Ratio	0.051	-	-	- 0.247	0.067	
HCM Control Delay (s)	8.5	-	-	- 18.6	11	
HCM Lane LOS	А	-	-	- C	В	
HCM 95th %tile Q(veh)	0.2	-	-	- 1	0.2	

Intersection							
Int Delay, s/veh	1.5						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	l
Lane Configurations		- सी	4		۰¥		
Traffic Vol, veh/h	2	321	401	31	46	7	,
Future Vol, veh/h	2	321	401	31	46	7	,
Conflicting Peds, #/hr	1	0	0	1	36	0	)
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	ļ
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	, # -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	76	76	76	76	76	76	j
Heavy Vehicles, %	5	5	6	6	2	2	2
Mvmt Flow	3	422	528	41	61	9	)

Major/Minor	Major1	Ν	/lajor2		Minor2	
Conflicting Flow All	570	0	-	0	1014	550
Stage 1	-	-	-	-	550	-
Stage 2	-	-	-	-	464	-
Critical Hdwy	4.15	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.245	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	988	-	-	-	264	535
Stage 1	-	-	-	-	578	-
Stage 2	-	-	-	-	633	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	987	-	-	-	262	534
Mov Cap-2 Maneuver	-	-	-	-	262	-
Stage 1	-	-	-	-	575	-
Stage 2	-	-	-	-	632	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		22	
HCM LOS	0.1		U		C	
					Ŭ	
Minor Lane/Major Mvm	it	EBL	EBT	WBT	WBR 3	
Capacity (veh/h)		987	-	-	-	281
HCM Lane V/C Ratio		0.003	-	-	-	0.248
HCM Control Delay (s)		8.7	0	-	-	22
HCM Lane LOS		Α	Α	-	-	С
HCM 95th %tile Q(veh)	)	0	-	-	-	1

Int Delay, s/veh

8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	ef 👘		۲	ef 👘		٦	ef 👘		٦	eî 👘		
Traffic Vol, veh/h	124	120	12	4	241	33	27	1	7	8	3	180	
Future Vol, veh/h	124	120	12	4	241	33	27	1	7	8	3	180	
Conflicting Peds, #/hr	0	0	10	10	0	0	2	0	0	0	0	2	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	190	-	-	180	-	-	100	-	-	190	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	70	70	70	70	70	70	70	70	70	70	70	70	
Heavy Vehicles, %	5	5	5	3	3	3	46	46	46	9	9	9	
Mvmt Flow	177	171	17	6	344	47	39	1	10	11	4	257	

Major/Minor I	Major1			Major2			Minor1			Minor2			
Conflicting Flow All	391	0		198	0	0	1056	947	190	919	932	370	
Stage 1	-	-	-	-	-	-	544	544	-	380	380	-	
Stage 2	-	-	-	-	-	-	512	403	-	539	552	-	
Critical Hdwy	4.15	-	-	4.13	-	-	7.56	6.96	6.66	7.19	6.59	6.29	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.56	5.96	-	6.19	5.59	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.56	5.96	-	6.19	5.59	-	
Follow-up Hdwy	2.245		-	2.227	-	-	3.914	4.414	3.714	3.581	4.081	3.381	
Pot Cap-1 Maneuver	1151	-	-	1369	-	-	168	221	751	245	259	660	
Stage 1	-	-	-	-	-	-	452	454	-	628	602	-	
Stage 2	-	-	-	-	-	-	472	530	-	514	504	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1151	-	-	1356	-	-	88	184	744	211	216	659	
Mov Cap-2 Maneuver	-	-	-	-	-	-	88	184	-	211	216	-	
Stage 1	-	-	-	-	-	-	379	380	-	•••	600	-	
Stage 2	-	-	-	-	-	-	284	528	-	427	422	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	4.2			0.1			60.2			14.9			
HCM LOS							F			В			
Minor Lane/Major Mvm	ıt 🔄	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2		
Capacity (veh/h)		88	539	1151	-	-	1356	-	-	211	638		
HCM Lane V/C Ratio		0.438	0.021	0.154	-	-	0.004	-	-	0.054	0.41		
HCM Control Delay (s)		74.6	11.8	8.7	-	-	7.7	-	-	23	14.5		
HCM Lane LOS		F	В	А	-	-	А	-	-	С	В		
HCM 95th %tile Q(veh)	)	1.8	0.1	0.5	-	-	0	-	-	0.2	2		

#### Intersection Int Delay, s/veh 2.1 EBT EBR WBL WBT NBL NBR Movement Lane Configurations Þ đ ¥ 92 Traffic Vol, veh/h 25 10 255 54 8 Future Vol, veh/h 92 25 10 255 54 8 Conflicting Peds, #/hr 0 5 5 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 66 66 66 66 66 66 Heavy Vehicles, % 8 8 3 3 3 3 Mvmt Flow 139 38 15 386 82 12

Major/Minor	Major1	N	Major2		Minor1	
Conflicting Flow All	0	0	182	0	579	163
Stage 1	-	-	-	-	163	-
Stage 2	-	-	-	-	416	-
Critical Hdwy	-	-	4.13	-	6.43	6.23
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-	2.227	-	3.527	3.327
Pot Cap-1 Maneuver	-	-	1387	-	475	879
Stage 1	-	-	-	-	864	-
Stage 2	-	-	-	-	664	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1380	-	466	875
Mov Cap-2 Maneuver	-	-	-	-	466	-
Stage 1	-	-	-	-	848	-
Stage 2	-	-	-	-	664	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		13.9	
HCM LOS					В	
Minor Lane/Major Mvm	nt l	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		496	-	-	1380	-
HCM Lane V/C Ratio		0.189	-		0.011	-
HCM Control Delay (s)		13.9	-	-	7.6	0
HCM Lane LOS		B	-	-	A	Ă
HCM 95th %tile Q(veh)	)	0.7	-	-	0	-
		0.7			0	

Intersection						
Intersection Delay, s/veh	5.5					
Intersection LOS	А					
Approach		WB		NB		SB
Entry Lanes		1		2		1
Conflicting Circle Lanes		2		2		2
Adj Approach Flow, veh/h	:	215		751		175
Demand Flow Rate, veh/h	:	217		759		177
Vehicles Circulating, veh/h		154		22		186
Vehicles Exiting, veh/h		627		341		185
Ped Vol Crossing Leg, #/h		0		0		3
Ped Cap Adj		000		1.000		1.000
Approach Delay, s/veh		4.4		6.1		4.2
Approach LOS		А		А		А
Lane	Left		Left	Right	Left	
Designated Moves	LR		LT	R	LT	
Assumed Moves	LR		LT	R	LT	
RT Channelized						
Lane Util	1.000		0.203	0.797	1.000	
Follow-Up Headway, s	2.535		2.667	2.535	2.535	
Critical Headway, s	4.328		4.645	4.328	4.328	
Entry Flow, veh/h	217		154	605	177	
Cap Entry Lane, veh/h	1246		1323	1394	1212	
Entry HV Adj Factor	0.991		0.990	0.990	0.991	
Flow Entry, veh/h	215		152	599	175	
Cap Entry, veh/h	1234		1310	1380	1201	
V/C Ratio	0.174		0.116	0.434	0.146	
Control Delay, s/veh	4.4		3.7	6.8	4.2	
LOS	А		А	А	А	
95th %tile Queue, veh	1		0	2	1	

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Int Delay, s/veh	2.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	et –		٦	1
Traffic Vol, veh/h	159	431	177	51	40	23
Future Vol, veh/h	159	431	177	51	40	23
Conflicting Peds, #/hr	4	0	0	4	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage	, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	171	463	190	55	43	25

Major/Minor	Major1	Ν	lajor2	ľ	Minor2		
Conflicting Flow All	249	0	-	0	1028	222	
Stage 1	-	-	-	-	222	-	
Stage 2	-	-	-	-	806	-	
Critical Hdwy	4.11	-	-	-	6.4	6.2	
Critical Hdwy Stg 1	-	-	-	-	5.4	-	
Critical Hdwy Stg 2	-	-	-	-	5.4	-	
Follow-up Hdwy	2.209	-	-	-	3.5	3.3	
Pot Cap-1 Maneuver	1323	-	-	-	262	823	
Stage 1	-	-	-	-	820	-	
Stage 2	-	-	-	-	443	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver		-	-	-	226	820	
Mov Cap-2 Maneuver	r -	-	-	-	226	-	
Stage 1	-	-	-	-	711	-	
Stage 2	-	-	-	-	441	-	
Approach	EB		WB		SB		
HCM Control Delay, s			0		19.1		
HCM LOS	,				C		
					Ū		
		EDI	EDT	MDT			
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBK 8	SBLn1 S	
Capacity (veh/h)		1318	-	-	-	226	820
HCM Lane V/C Ratio		0.13	-	-	-	0.19	0.03

Capacity (veh/h)	1318	-	-	- 22	5 820	
HCM Lane V/C Ratio	0.13	-	-	- 0.1	9 0.03	
HCM Control Delay (s)	8.1	-	-	- 24.	<b>6</b> 9.5	
HCM Lane LOS	А	-	-	- (	C A	
HCM 95th %tile Q(veh)	0.4	-	-	- 0.1	7 0.1	

01/11/2019

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- सी	<b>ب</b>		۰¥	
Traffic Vol, veh/h	8	456	246	31	25	3
Future Vol, veh/h	8	456	246	31	25	3
Conflicting Peds, #/hr	0	0	0	0	3	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	9	496	267	34	27	3

Major/Minor	Major1	N	/lajor2	1	Minor2	
Conflicting Flow All	301	0	-	0	801	284
Stage 1	-	-	-	-	284	-
Stage 2	-	-	-	-	517	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209		-	-	3.5	3.3
Pot Cap-1 Maneuver	1266	-	-	-	356	760
Stage 1	-	-	-	-	769	-
Stage 2	-	-	-	-	603	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	352	760
Mov Cap-2 Maneuver	-	-	-	-	352	-
Stage 1	-	-	-	-	761	-
Stage 2	-	-	-	-	603	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		15.5	
HCM LOS					С	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1266	-	-	-	373
HCM Lane V/C Ratio		0.007	-	-	-	0.082
HCM Control Delay (s)	)	7.9	0	-	-	15.5
HCM Lane LOS		А	А	-	-	С
HCM 95th %tile Q(veh		0				0.3

Int Delay, s/veh

4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ኘ	eî 👘		۲.	ef 👘		ሻ	eî 👘		ኘ	eî 👘	
Traffic Vol, veh/h	190	260	4	1	155	18	9	6	6	8	1	99
Future Vol, veh/h	190	260	4	1	155	18	9	6	6	8	1	99
Conflicting Peds, #/hr	0	0	2	2	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									
Storage Length	190	-	-	180	-	-	100	-	-	190	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	2	2	2	5	5	5	1	1	1
Mvmt Flow	204	280	4	1	167	19	10	6	6	9	1	106

Major/Minor	Major1			Major2			Minor1			Min	or2	or2
Conflicting Flow All	186	0	0	286	0	0	924	880	284	875	5	5 873
Stage 1	-	· -	-	-	-	-	692	692	-	179		179
Stage 2	-	· -	-	-	-	-	232	188	-	696		694
Critical Hdwy	4.11	-	-	4.12	-	-	7.15	6.55	6.25	7.11		6.51
Critical Hdwy Stg 1	-	· -	-	-	-	-	6.15	5.55	-	6.11		5.51
Critical Hdwy Stg 2	-		-	-	-	-	6.15	5.55	-	6.11	5	.51
Follow-up Hdwy	2.209	-	-	2.218	-	-	3.545	4.045	3.345	3.509	4.00	9
Pot Cap-1 Maneuver	1395	-	-	1276	-	-	247	283	748	271	290	)
Stage 1	-		-	-	-	-	429	441	-	825	753	
Stage 2	-		-	-	-	-	764	739	-	434	446	
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver		-	-	1274	-	-	191	241	747	234	247	
Mov Cap-2 Maneuver	-	· -	-	-	-	-	191	241	-	234	247	
Stage 1	-	· -	-	-	-	-	366	376	-		752	
Stage 2	-		-	-	-	-	669	738	-	361	380	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	3.4			0			19.4			10.7		
HCM LOS							С			В		
Minor Lane/Major Mvn	nt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
Capacity (veh/h)		191	364	1395	-	-	1274	-	-	234	848	
HCM Lane V/C Ratio		0.051	0.035	0.146	-	-	0.001	-	-	0.037	0.127	
HCM Control Delay (s)	)	24.9	15.3	8	-	-	7.8	-	-	21	9.9	
HCM Lane LOS		С	С	А	-	-	А	-	-	С	А	
HCM 95th %tile Q(veh	ı)	0.2	0.1	0.5	-	-	0	-	-	0.1	0.4	

Intersection							
Int Delay, s/veh	1.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	ł
Lane Configurations	<b>f</b>			्र	۰¥		
Traffic Vol, veh/h	203	72	7	120	30	16	;
Future Vol, veh/h	203	72	7	120	30	16	;
Conflicting Peds, #/hr	0	1	1	0	0	0	)
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	,
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	e, # 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	89	89	89	89	89	89	)
Heavy Vehicles, %	1	1	1	1	0	0	)
Mvmt Flow	228	81	8	135	34	18	5

Major/Minor N	/lajor1	Ν	Major2	I	Minor1	
Conflicting Flow All	0	0	310	0	421	270
Stage 1	-	-	-	-	270	-
Stage 2	-	-	-	-	151	-
Critical Hdwy	-	-	4.11	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.209	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1256	-		774
Stage 1	-	-	-	-	780	-
Stage 2	-	-	-	-	882	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1255	-	588	773
Mov Cap-2 Maneuver	-	-	-	-	588	-
Stage 1	-	-	-	-	774	-
Stage 2	-	-	-	-	882	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		11.1	
HCM LOS	•		•		В	
N /:			CDT			
Minor Lane/Major Mvm	t í	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		641	-	-	1255	-
HCM Lane V/C Ratio		0.081	-		0.006	-
HCM Control Delay (s)		11.1	-	-	1.0	0
HCM Lane LOS		B	-	-	A	A
HCM 95th %tile Q(veh)		0.3	-	-	0	-

Intersection					
Intersection Delay, s/veh	6.6				
Intersection LOS	А				
Approach	WB		NB		
Entry Lanes	1		2		
Conflicting Circle Lanes	2		2		
Adj Approach Flow, veh/h	497		336		
Demand Flow Rate, veh/h	522		360		
Vehicles Circulating, veh/h	74		52		
Vehicles Exiting, veh/h	338		804		
Ped Vol Crossing Leg, #/h	4		2		
Ped Cap Adj	0.999		0.998		1.
Approach Delay, s/veh	6.6		4.4		
Approach LOS	A		А		
Lane	Left	Left	Right	Left	
Designated Moves	LR	LT	R	LT	
Assumed Moves	LR	LT	R	LT	
RT Channelized					
Lane Util	1.000	0.206	0.794	1.000	
Follow-Up Headway, s	2.535	2.667	2.535	2.535	
Critical Headway, s	4.328	4.645	4.328	4.328	
Entry Flow, veh/h	522	74	286	366	
Cap Entry Lane, veh/h	1334	1287	1359	936	
Entry HV Adj Factor	0.952	0.935	0.934	0.954	
Flow Entry, veh/h	497	69	267	349	
Cap Entry, veh/h	1269	1200	1266	893	
V/C Ratio	0.392	0.058	0.211	0.391	
Control Delay, s/veh	6.6	3.5	4.7	8.6	
LOS	А	А	А	А	
95th %tile Queue, veh	2	0	1	2	

Int Delay, s/veh	4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	et –		٦	1
Traffic Vol, veh/h	54	253	399	59	89	50
Future Vol, veh/h	54	253	399	59	89	50
Conflicting Peds, #/hr	1	0	0	1	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	82	82	82	82	82	82
Heavy Vehicles, %	6	6	6	6	3	3
Mvmt Flow	66	309	487	72	109	61

Major/Minor	Major1	Ν	lajor2	1	Minor2				
Conflicting Flow All	560	0	-	0	965	524			
Stage 1	-	-	-	-	524	-			
Stage 2	-	-	-	-	441	-			
Critical Hdwy	4.16	-	-	-	6.43	6.23			
Critical Hdwy Stg 1	-	-	-	-	5.43	-			
Critical Hdwy Stg 2	-	-	-	-	5.43	-			
Follow-up Hdwy	2.254	-	-	-	3.527				
Pot Cap-1 Maneuver	991	-	-	-	282	551			
Stage 1	-	-	-	-	592	-			
Stage 2	-	-	-	-	646	-			
Platoon blocked, %		-	-	-					
Mov Cap-1 Maneuver		-	-	-	263	550			
Mov Cap-2 Maneuver	-	-	-	-	263	-			
Stage 1	-	-	-	-	552	-			
Stage 2	-	-	-	-	645	-			
Approach	EB		WB		SB				
			0		22.4				
HCM Control Delay, s HCM LOS	1.0		0		22.4 C				
					U				
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR	SBLn1 S	SBLn2		
Capacity (veh/h)		990	-	-	-	263	550	1	

	990	-	-	-	205	550
HCM Lane V/C Ratio	0.067	-	-	-	0.413	0.111
HCM Control Delay (s)	8.9	-	-	-	28	12.4
HCM Lane LOS	А	-	-	-	D	В
HCM 95th %tile Q(veh)	0.2	-	-	-	1.9	0.4

Int Delay, s/veh	2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷.	el 👘		Y	
Traffic Vol, veh/h	2	397	502	36	52	7
Future Vol, veh/h	2	397	502	36	52	7
Conflicting Peds, #/hr	1	0	0	1	36	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	5	5	6	6	2	2
Mvmt Flow	3	522	661	47	68	9

Major/Minor	Major1	Ν	/lajor2		Minor2		
Conflicting Flow All	709	0	-	0	1250	686	;
Stage 1	-	-	-	-	686	-	•
Stage 2	-	-	-	-	564	-	
Critical Hdwy	4.15	-	-	-	6.42	6.22	2
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	2.245	-	-	-	3.518		
Pot Cap-1 Maneuver	876	-	-	-	191	447	'
Stage 1	-	-	-	-	500	-	•
Stage 2	-	-	-	-	569	-	•
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver		-	-	-	190	447	
Mov Cap-2 Maneuver	-	-	-	-	190	-	•
Stage 1	-	-	-	-	497	-	•
Stage 2	-	-	-	-	568	-	•
Approach	EB		WB		SB		
HCM Control Delay, s	0		0		33.1		
HCM LOS					D		
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	SBLn1	
Capacity (veh/h)		875	-	-	-	204	_
HCM Lane V/C Ratio		0.003	-	-	-	0.381	
HCM Control Delay (s	;)	9.1	0	-	-	33.1	
HCM Lane LOS		А	А	-	-	D	)
HCM 95th %tile Q(veh	-)	0				1.7	,

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	ef 👘		۲.	4Î		ሻ	4Î		ሻ	eî 👘		
Traffic Vol, veh/h	127	241	1	2	348	59	10	1	1	37	2	196	
Future Vol, veh/h	127	241	1	2	348	59	10	1	1	37	2	196	
Conflicting Peds, #/hr	0	0	10	10	0	0	2	0	0	0	0	2	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	190	-	-	180	-	-	100	-	-	190	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	70	70	70	70	70	70	70	70	70	70	70	70	
Heavy Vehicles, %	5	5	5	3	3	3	46	46	46	9	9	9	
Mvmt Flow	181	344	1	3	497	84	14	1	1	53	3	280	

Major/Minor	Major1			Major2			Minor1		ļ	Minor2		
Conflicting Flow All	581	0	0	355	0	0	1406	1304	355	1253		1262
Stage 1	-	-	-	-	-	-	717	717	-	545		545
Stage 2	-	-	-	-	-	-	689	587	-	708		717
Critical Hdwy	4.15	-	-	4.13	-	-	7.56	6.96	6.66	7.19	6.	59
Critical Hdwy Stg 1	-	-	-	-	-	-	6.56	5.96	-	6.19	5.5	9
Critical Hdwy Stg 2	-	-	-	-	-	-	6.56	5.96	-	6.19	5.59	
Follow-up Hdwy	2.245	-	-	2.227	-	-	3.914	4.414	3.714	3.581	4.081	
Pot Cap-1 Maneuver	978	-	-	1198	-	-	94	131	600	144	165	
Stage 1	-	-	-	-	-	-	359	374	-	510	507	
Stage 2	-	-	-	-	-	-	372	433	-	415	423	
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	978	-	-	1187	-	-	37	105	594	122	133	
Mov Cap-2 Maneuver	-	-	-	-	-	-	37	105	-	122	133	
Stage 1	-	-	-	-	-	-	290	302	-	416	505	
Stage 2	-	-	-	-	-	-	173	432	-	336	341	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	3.3			0			132.5			25.9		
HCM LOS							F			D		
Minor Lane/Major Mvn	nt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
Capacity (veh/h)		37	178	978	-	-	1187	-	-	122	512	
HCM Lane V/C Ratio		0.386	0.016	0.186	-	-	0.002	-	-	0.433	0.552	
HCM Control Delay (s)	)	153.9	25.6	9.5	-	-	8	-	-	55.4	20.4	
HCM Lane LOS		F	D	А	-	-	А	-	-	F	С	
HCM 95th %tile Q(veh	I)	1.3	0	0.7	-	-	0	-	-	1.9	3.3	

HCM 95th %tile Q(veh)

Int Delay, s/veh	3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	el el			<del>ب</del> ا	Y	
Traffic Vol, veh/h	227	27	25	385	57	23
Future Vol, veh/h	227	27	25	385	57	23
Conflicting Peds, #/hr	0	5	5	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	66	66	66	66
Heavy Vehicles, %	8	8	3	3	3	3
Mvmt Flow	344	41	38	583	86	35

Major/Minor	Major1	Ν	/lajor2		Minor1	
Conflicting Flow All	0	0	390	0	1029	370
Stage 1	-	-	-	-	370	-
Stage 2	-	-	-	-	659	-
Critical Hdwy	-	-	4.13	-	6.43	6.23
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-	2.227	-		3.327
Pot Cap-1 Maneuver	-	-	1163	-	258	673
Stage 1	-	-	-	-	696	-
Stage 2	-	-	-	-	513	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	1157	-	244	670
Mov Cap-2 Maneuver		-	-	-	244	-
Stage 1	-	-	-	-	658	-
Stage 2	-	-	-	-	513	-
, in the second s						
Approach	EB		WB		NB	
HCM Control Delay, s			0.5		25	
HCM LOS	0		0.5		23 D	
					U	
Minor Lane/Major Mvr	nt N	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		299	-	-	1157	-
HCM Lane V/C Ratio		0.405	-	-	0.033	-
HCM Control Delay (s	;)	25	-	-	8.2	0
HCM Lane LOS		D	-	-	Α	Α

0.1

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Intersection					
Intersection Delay, s/veh	6.3				
Intersection LOS	А				
Approach		WB	NB		
Entry Lanes		1	2		
Conflicting Circle Lanes		2	2		
Adj Approach Flow, veh/h		277	886		
Demand Flow Rate, veh/h		279	895		
Vehicles Circulating, veh/h		182	31		
Vehicles Exiting, veh/h	7	744	418		
Ped Vol Crossing Leg, #/h		0	0		
Ped Cap Adj	1.(	000	1.000		
Approach Delay, s/veh		5.0	7.1		
Approach LOS		А	А		
Lane	Left	Le	ft Right	Left	
Designated Moves	LR	Ľ	T R	LT	
Assumed Moves	LR	L	T R	LT	
RT Channelized					
Lane Util	1.000	0.20	3 0.797	1.000	
Follow-Up Headway, s	2.535	2.66	7 2.535	2.535	
Critical Headway, s	4.328	4.64	5 4.328	4.328	
Entry Flow, veh/h	279	18	2 713	207	
Cap Entry Lane, veh/h	1217	131	2 1383	1156	
Entry HV Adj Factor	0.993	0.99	0 0.990	0.992	
Flow Entry, veh/h	277	18	0 706	205	
Cap Entry, veh/h	1208	129	9 1370	1146	
V/C Ratio	0.229	0.13	9 0.515	0.179	
Control Delay, s/veh	5.0	3.	9 8.0	4.7	
LOS	А		A A	А	
95th %tile Queue, veh	1		0 3	1	

Int Delay, s/veh	3.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	4		٦	1
Traffic Vol, veh/h	184	516	225	64	48	33
Future Vol, veh/h	184	516	225	64	48	33
Conflicting Peds, #/hr	4	0	0	4	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	198	555	242	69	52	35

Major/Minor	Major1	Ν	/lajor2	I	Minor2	
Conflicting Flow All	315	0	-	0	1233	281
Stage 1	-	-	-	-	281	-
Stage 2	-	-	-	-	952	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1251	-	-	-	197	763
Stage 1	-	-	-	-	771	-
Stage 2	-	-	-	-	378	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	164	760
Mov Cap-2 Maneuve	er -	-	-	-	164	-
Stage 1	-	-	-	-	646	-
Stage 2	-	-	-	-	376	-
Approach	EB		WB		SB	
HCM Control Delay,	s 2.2		0		25.8	
HCM LOS					D	
Minor Lane/Major My	/mt	EBL	EBT	WBT	WBR S	BLn1 SBLn

	EDL	EDI	VVDI	WDR ODLIII	SDLIIZ	
Capacity (veh/h)	1246	-	-	- 164	760	
HCM Lane V/C Ratio	0.159	-	-	- 0.315	0.047	
HCM Control Delay (s)	8.4	-	-	- 36.7	10	
HCM Lane LOS	А	-	-	- E	В	
HCM 95th %tile Q(veh)	0.6	-	-	- 1.3	0.1	

#### Intersection Int Delay, s/veh 0.7 EBL EBT WBT WBR SBR Movement SBL Y Lane Configurations Æ ₽ 548 28 Traffic Vol, veh/h 8 307 33 3 Future Vol, veh/h 8 548 307 33 28 3 Conflicting Peds, #/hr 0 0 0 0 3 0 Sign Control Stop Free Free Free Free Stop RT Channelized -None -None -None Storage Length 0 \_ -\_ --Veh in Median Storage, # -0 0 -0 -Grade, % 0 0 0 ---Peak Hour Factor 92 92 92 92 92 92 Heavy Vehicles, % 1 1 1 0 0 1 Mvmt Flow 9 596 334 36 30 3

Major/Minor	Major1	Ν	/lajor2	ľ	Minor2	
Conflicting Flow All	370	0	-	0	969	352
Stage 1	-	-	-	-	352	-
Stage 2	-	-	-	-	617	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1194	-	-	-	284	696
Stage 1	-	-	-	-	716	-
Stage 2	-	-	-	-	542	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1194	-	-	-	281	696
Mov Cap-2 Maneuver	-	-	-	-	281	-
Stage 1	-	-	-	-	708	-
Stage 2	-	-	-	-	542	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		18.6	
HCM LOS					С	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1194	-	-	-	298
HCM Lane V/C Ratio		0.007	-	-	-	0.113
HCM Control Delay (s)	)	8	0	-	-	18.6
HCM Lane LOS		А	А	-	-	С
HCM 95th %tile Q(veh	)	0	-	-	-	0.4

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	4		٦	4		۲	4Î		۲	¢Î	
Traffic Vol, veh/h	224	329	3	1	204	26	6	7	2	16	1	104
Future Vol, veh/h	224	329	3	1	204	26	6	7	2	16	1	104
Conflicting Peds, #/hr	0	0	2	2	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									
Storage Length	190	-	-	180	-	-	100	-	-	190	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	2	2	2	5	5	5	1	1	1
Mvmt Flow	241	354	3	1	219	28	6	8	2	17	1	112

Major/Minor	Major1			Major2			Minor1			Minc	or2	or2
Conflicting Flow All	247	0	0	359	0	0	1132	1089	358	1078	3	3 1076
Stage 1	-	-	-	-	-	-	840	840	-	235		235
Stage 2	-	-	-	-	-	-	292	249	-	843		841
Critical Hdwy	4.11	-	-	4.12	-	-	7.15	6.55	6.25	7.11		6.51
Critical Hdwy Stg 1	-	-	-	-	-	-	6.15	5.55	-	6.11	5	.51
Critical Hdwy Stg 2	-	-	-	-	-	-	6.15	5.55	-	6.11	5.5	1
Follow-up Hdwy	2.209	-	-	2.218	-	-	3.545	4.045	3.345	3.509	4.009	)
Pot Cap-1 Maneuver	1325	-	-	1200	-	-	178	213	680	197	220	
Stage 1	-	-	-	-	-	-	355	377	-	770	712	
Stage 2	-	-	-	-	-	-	710	695	-	360	382	
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1325	-	-	1198	-	-	131	174	679	164	180	
Mov Cap-2 Maneuver	-	-	-	-	-	-	131	174	-	164	180	
Stage 1	-	-	-	-	-	-	290	308	-	630	711	
Stage 2	-	-	-	-	-	-	610	694	-	286	312	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	3.4			0			27.5			12.9		
HCM LOS							D			В		
Minor Lane/Major Mvm	nt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
Capacity (veh/h)		131	208	1325	-	-	1198	-	-	164	783	
HCM Lane V/C Ratio		0.049	0.047	0.182	-	-	0.001	-	-	0.105	0.144	
HCM Control Delay (s)	)	33.9	23.2	8.3	-	-	8	-	-	29.5	10.4	
HCM Lane LOS		D	С	А	-	-	А	-	-	D	В	
HCM 95th %tile Q(veh	)	0.2	0.1	0.7	-	-	0	-	-	0.3	0.5	

Intersection							
Int Delay, s/veh	1.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	ł
Lane Configurations	- î>			- <del>स</del>	۰¥		
Traffic Vol, veh/h	272	76	11	174	32	21	
Future Vol, veh/h	272	76	11	174	32	21	
Conflicting Peds, #/hr	0	1	1	0	0	0	)
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	,
Storage Length	-	-	-	-	0	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	89	89	89	89	89	89	)
Heavy Vehicles, %	1	1	1	1	0	0	)
Mvmt Flow	306	85	12	196	36	24	ł

Major/Minor M	Major1	Ν	/lajor2	1	Minor1	
Conflicting Flow All	0	0	392	0	570	350
Stage 1	-	-	-	-	350	-
Stage 2	-	-	-	-	220	-
Critical Hdwy	-	-	4.11	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.209	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1172	-	486	698
Stage 1	-	-	-	-	718	-
Stage 2	-	-	-	-	821	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1171	-	480	697
Mov Cap-2 Maneuver	-	-	-	-	480	-
Stage 1	-	-	-	-	709	-
Stage 2	-	-	-	-	821	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		12.4	
HCM LOS	Ū		0.0		B	
					_	
			EDT			
Minor Lane/Major Mvm	t N	IBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		548	-	-		-
HCM Lane V/C Ratio		0.109	-		0.011	-
HCM Control Delay (s)		12.4	-	-	8.1	0
HCM Lane LOS		B	-	-	A	A
HCM 95th %tile Q(veh)		0.4	-	-	0	-

Intersection					
Intersection Delay, s/veh	6.7				
Intersection LOS	А				
Approach	1	WB	NB		SE
Entry Lanes		1	2		1
Conflicting Circle Lanes		2	2		2
Adj Approach Flow, veh/h	Ļ	515	341		350
Demand Flow Rate, veh/h	Į	541	365		368
Vehicles Circulating, veh/h		74	54		507
Vehicles Exiting, veh/h	~	345	821		108
Ped Vol Crossing Leg, #/h		4	2		3
Ped Cap Adj		999	0.998		1.000
Approach Delay, s/veh		6.8	4.5		8.8
Approach LOS		А	А		А
Lane	Left	Left	Right	Left	
Designated Moves	LR	LT		LT	
Assumed Moves	LR	LT	R	LT	
RT Channelized					
Lane Util	1.000	0.203	0.797	1.000	
Follow-Up Headway, s	2.535	2.667	2.535	2.535	
Critical Headway, s	4.328	4.645	4.328	4.328	
Entry Flow, veh/h	541	74	291	368	
Cap Entry Lane, veh/h	1334	1284	1356	923	
Entry HV Adj Factor	0.952	0.935	0.935	0.951	
Flow Entry, veh/h	515	69	272	350	
Cap Entry, veh/h	1269	1198	1265	877	
V/C Ratio	0.406	0.058	0.215	0.399	
Control Delay, s/veh	6.8	3.5	4.7	8.8	
LOS	А	A	Α	А	
95th %tile Queue, veh	2	0	1	2	

Int Delay, s/veh	4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	et –		٦	1
Traffic Vol, veh/h	54	259	416	59	89	50
Future Vol, veh/h	54	259	416	59	89	50
Conflicting Peds, #/hr	1	0	0	1	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	82	82	82	82	82	82
Heavy Vehicles, %	6	6	6	6	3	3
Mvmt Flow	66	316	507	72	109	61

Major/Minor	Major1	Ν	/lajor2	ſ	Minor2	
Conflicting Flow All	580	0	-	0	992	544
Stage 1	-	-	-	-	544	-
Stage 2	-	-	-	-	448	-
Critical Hdwy	4.16	-	-	-	6.43	6.23
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	2.254	-	-	-	3.527	
Pot Cap-1 Maneuver	974	-	-	-	271	537
Stage 1	-	-	-	-	580	-
Stage 2	-	-	-	-	642	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	252	536
Mov Cap-2 Maneuver	· -	-	-	-	252	-
Stage 1	-	-	-	-	540	-
Stage 2	-	-	-	-	641	-
Approach	EB		WB		SB	
HCM Control Delay, s			0		23.5	
HCM LOS	1.0				20.0 C	
					J	
Minor Lane/Major Mvr	mt	EBL	EBT	WBT	WBR	SBLn1 SBLn

minor Lano/major minit	202			TIBICOBEIII	OBEILE	
Capacity (veh/h)	973	-	-	- 252	536	
HCM Lane V/C Ratio	0.068	-	-	- 0.431	0.114	
HCM Control Delay (s)	9	-	-	- 29.7	12.6	
HCM Lane LOS	А	-	-	- D	В	
HCM 95th %tile Q(veh)	0.2	-	-	- 2	0.4	

Int Delay, s/veh	2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷.	el 👘		Y	
Traffic Vol, veh/h	2	403	519	36	52	7
Future Vol, veh/h	2	403	519	36	52	7
Conflicting Peds, #/hr	1	0	0	1	36	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	5	5	6	6	2	2
Mvmt Flow	3	530	683	47	68	9

Major/Minor	Major1	Ν	/lajor2		Minor2	
Conflicting Flow All	731	0	-	0	1280	708
Stage 1	-	-	-	-	708	-
Stage 2	-	-	-	-	572	-
Critical Hdwy	4.15	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.245	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	860	-	-	-	183	435
Stage 1	-	-	-	-	488	-
Stage 2	-	-	-	-	565	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	182	435
Mov Cap-2 Maneuver	-	-	-	-	182	-
Stage 1	-	-	-	-	485	-
Stage 2	-	-	-	-	564	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		35.2	
HCM LOS					E	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR 3	SBLn1
Capacity (veh/h)		859	-	-	-	195
HCM Lane V/C Ratio		0.003	-	-	-	0.398
HCM Control Delay (s	;)	9.2	0	-	-	35.2
HCM Lane LOS		А	А	-	-	Е
HCM 95th %tile Q(veh	ר)	0	-	-	-	1.8

Int Delay, s/veh

9.1

								NET		0.51	0.0.7	000	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	- ሽ	- <b>1</b> +		<u>۲</u>	- <b>Þ</b>		- ኘ	- <b>Þ</b>		ሻ	- î>		
Traffic Vol, veh/h	127	247	1	2	365	60	10	1	1	37	2	196	
Future Vol, veh/h	127	247	1	2	365	60	10	1	1	37	2	196	
Conflicting Peds, #/hr	0	0	10	10	0	0	2	0	0	0	0	2	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	190	-	-	180	-	-	100	-	-	190	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	70	70	70	70	70	70	70	70	70	70	70	70	
Heavy Vehicles, %	5	5	5	3	3	3	46	46	46	9	9	9	
Mvmt Flow	181	353	1	3	521	86	14	1	1	53	3	280	

Stage 1       -       -       -       -       726       726       -         Stage 2       -       -       -       -       714       613       -         Critical Hdwy       4.15       -       -       4.13       -       7.56       6.96       6.66       7         Critical Hdwy Stg 1       -       -       -       -       6.56       5.96       -       6         Critical Hdwy Stg 2       -       -       -       6.56       5.96       -       6         Critical Hdwy Stg 2       -       -       -       6.56       5.96       -       6         Critical Hdwy Stg 2       -       -       -       2.227       -       3.914       4.414       3.714       3.1         Pot Cap-1 Maneuver       957       -       1189       -       88       125       593         Stage 1       -       -       -       -       360       420       -       420       -         Mov Cap-1 Maneuver       957       -       1178       -       33       100       587         Mov Cap-2 Maneuver       -       -       -       284       297       -<	Major/Minor	Major1			Major2			Minor1			Mir	nor2	ior2
Stage 2       -       -       -       -       714       613       -       717         Critical Hdwy       4.15       -       4.13       -       7.56       6.96       6.66       7.19         Critical Hdwy Stg 1       -       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       -       3.914       4.414       3.714       3.587         Pot Cap-1 Maneuver 957       -       1189       -       88       125       593       136         Stage 1       -       -       -       -       360       420       -       410         Platoon blocked, %       -       -       -       -       33       100       587       118         Mov Cap-2 Maneuver       -       -       -       284       297       -       407         Stage 1       -       -       -       -       -	Conflicting Flow All	607	0	0	364	0	0	1440	1339	364	1287	7	7 1296
Critical Hdwy       4.15       -       -       4.13       -       -       7.56       6.96       6.66       7.19         Critical Hdwy Stg 1       -       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       2.227       -       3.914       4.414       3.714       3.581         Pot Cap-1 Maneuver       957       -       1189       -       -       88       125       593       136         Stage 1       -       -       -       -       -       354       370       -       494         Stage 2       -       -       -       -       -       33       100       587       115         Mov Cap-1 Maneuver       957       -       1178       -       -       33       100       587       115         Mov Cap-2 Maneuver       -       -       -       284       297       -       401         Stage 1       -       -       -       -       284       297       -       401 <t< td=""><td>Stage 1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>726</td><td>726</td><td>-</td><td>570</td><td></td><td>570</td></t<>	Stage 1	-	-	-	-	-	-	726	726	-	570		570
Critical Hdwy Stg 1       -       -       -       -       6.56       5.96       -       6.19         Critical Hdwy Stg 2       -       -       -       -       6.56       5.96       -       6.19         Follow-up Hdwy       2.245       -       2.227       -       -       3.914       4.414       3.714       3.581         Pot Cap-1 Maneuver       957       -       1189       -       -       88       125       593       136         Stage 1       -       -       -       -       -       360       420       -       410         Platoon blocked, %       -       -       -       -       33       100       587       115         Mov Cap-2 Maneuver       957       -       1178       -       -       33       100       -       115         Stage 1       -       -       -       -       284       297       -       401         Stage 2       -       -       -       -       161       419       -       330         Mor Cap-2 Maneuver       -       -       -       -       161       419       -       330         <	Stage 2	-	-	-	-	-	-	714	613	-	717		726
Critical Hdwy St 2       -       -       -       -       6.56       5.96       -       6.19         Follow-up Hdwy       2.245       -       -       2.227       -       3.914       4.414       3.714       3.581       4         Pot Cap-1 Maneuver       957       -       1189       -       -       88       125       593       136         Stage 1       -       -       -       -       -       354       370       -       494         Stage 2       -       -       -       -       360       420       -       410         Platoon blocked, %       -       -       -       33       100       587       115         Mov Cap-1 Maneuver       957       -       1178       -       33       100       587       115         Mov Cap-2 Maneuver       -       -       -       -       33       100       1115       5         Stage 1       -       -       -       -       161       419       330       30         Stage 2       -       -       -       -       161       419       330       30         Minor Lane/Major Mvmt	Critical Hdwy	4.15	-	-	4.13	-	-	7.56	6.96	6.66	7.19		6.59
Follow-up Hdwy       2.245       -       2.227       -       3.914       4.414       3.714       3.581       4.0         Pot Cap-1 Maneuver       957       -       1189       -       88       125       593       136       44         Stage 1       -       -       -       354       370       -       494       4         Stage 2       -       -       -       -       360       420       -       410       4         Platoon blocked, %       -       -       -       -       331       100       587       115       5         Mov Cap-1 Maneuver       957       -       1178       -       -       33       100       587       115       5         Mov Cap-2 Maneuver       -       -       -       -       33       100       -       115       5         Stage 1       -       -       -       -       284       297       -       401       4         Stage 2       -       -       -       -       161       419       -       330       30         HCM Control Delay, s       3.3       0       154.6       27.6       27.6 <td>Critical Hdwy Stg 1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>6.56</td> <td>5.96</td> <td>-</td> <td>6.19</td> <td>5</td> <td>5.59</td>	Critical Hdwy Stg 1	-	-	-	-	-	-	6.56	5.96	-	6.19	5	5.59
Pot Cap-1 Maneuver       957       -       1189       -       -       88       125       593       136       145         Stage 1       -       -       -       -       354       370       -       494       49         Stage 2       -       -       -       -       360       420       -       410       44         Platoon blocked, %       -       -       -       360       420       -       410       44         Platoon blocked, %       -       -       -       33       100       587       115       12         Mov Cap-1 Maneuver       957       -       -       1178       -       -       33       100       587       115       12         Mov Cap-2 Maneuver       -       -       -       -       33       100       -       115       12         Stage 1       -       -       -       -       284       297       -       401       49         Stage 2       -       -       -       -       161       419       -       330       33         HCM Control Delay, s       3.3       0       154.6       277.6 <t< td=""><td>Critical Hdwy Stg 2</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>-</td><td></td><td>5.5</td><td></td></t<>	Critical Hdwy Stg 2			-	-	-	-			-		5.5	
Stage 1       -       -       -       -       354       370       -       494       494         Stage 2       -       -       -       -       360       420       -       410       419         Platoon blocked, %       -       -       -       -       -       -       -       404       419         Platoon blocked, %       -       -       -       -       -       -       -       -       410       419         Mov Cap-1 Maneuver       957       -       1178       -       -       33       100       587       115       126         Mov Cap-2 Maneuver       -       -       -       -       284       297       -       401       493         Stage 1       -       -       -       -       284       297       -       401       493         Stage 2       -       -       -       -       161       419       -       330       336         HCM Control Delay, s       3.3       0       154.6       277.6       D       -       -       15       496         HCM Lane V/C Ratio       0.433       0.017       0.19 <t< td=""><td>Follow-up Hdwy</td><td></td><td></td><td>-</td><td>2.227</td><td>-</td><td>-</td><td></td><td></td><td>3.714</td><td></td><td>4.081</td><td></td></t<>	Follow-up Hdwy			-	2.227	-	-			3.714		4.081	
Stage 2       -       -       -       -       360       420       -       410       419         Platoon blocked, %       -       115       126       Mov Cap-2 Maneuver       -       -       -       -       -       -       -       -       33       100       -       115       126       Stage 1       -       -       -       -       -       33       100       -       115       126       Stage 2       -       -       -       -       161       419       -       330       336       -       -       161       419       -       330       336       -       -       161       419       -       330       336       -       -       -       161       419       -       330       336       -       -       -       -       - <td< td=""><td>Pot Cap-1 Maneuver</td><td>957</td><td>-</td><td>-</td><td>1189</td><td>-</td><td>-</td><td>88</td><td>125</td><td>593</td><td>136</td><td>157</td><td></td></td<>	Pot Cap-1 Maneuver	957	-	-	1189	-	-	88	125	593	136	157	
Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver       957       -       1178       -       33       100       587       115       126         Mov Cap-2 Maneuver       -       -       -       -       33       100       -       115       126         Stage 1       -       -       -       -       -       284       297       -       401       493         Stage 2       -       -       -       -       -       161       419       -       330       336         Approach       EB       WB       NB       SB       HCM Control Delay, s       3.3       0       154.6       27.6         HCM LOS       F       D       D       -       -       115       495         HCM LOS       F       D       D       -       1178       -       115       495         HCM Lane V/C Ratio       0.433       0.017       0.19       -       0.002       -       0.46       0.571         HCM Lane LOS       F       D       A       -       A       -       F       C		-	-	-	-	-	-			-		494	
Mov Cap-1 Maneuver         957         -         1178         -         -         33         100         587         115         126           Mov Cap-2 Maneuver         -         -         -         -         33         100         -         115         126           Stage 1         -         -         -         -         284         297         -         401         493           Stage 2         -         -         -         -         284         297         -         401         493           Stage 2         -         -         -         -         161         419         -         330         336           Approach         EB         WB         NB         SB         -         -         -         -         161         419         -         330         336           HCM Control Delay, s         3.3         0         154.6         27.6         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         15         495         -         -         -         115	Stage 2	-	-	-	-	-	-	360	420	-	410	419	
Mov Cap-2 Maneuver         -         -         -         -         33         100         -         115         126           Stage 1         -         -         -         -         284         297         -         401         493           Stage 2         -         -         -         -         -         284         297         -         401         493           Approach         EB         WB         -         -         -         161         419         -         330         336           Approach         EB         WB         WB         NB         SB           HCM Control Delay, s         3.3         0         154.6         27.6           HCM LOS         F         D         D         -         -         115         495           Gapacity (veh/h)         33         171         957         -         -         1178         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         0.46         0.571           HCM Lane LOS         F         D         A         -         A         - </td <td>Platoon blocked, %</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Platoon blocked, %			-		-	-						
Stage 1         -         -         -         -         -         284         297         -         401         493         Stage 2         -         -         -         -         161         419         -         330         336           Approach         EB         WB         NB         NB         SB           HCM Control Delay, s         3.3         0         154.6         27.6           HCM LOS         F         D         D           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBL         EBT         EBR         WBL         WBT         WBR SBLn1 SBLn2           Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         0.46         0.571           HCM Lane LOS         F         D         A         -         A         -         F         C	Mov Cap-1 Maneuver	957	-	-	1178	-	-			587			
Stage 2         -         -         -         -         161         419         -         330         336           Approach         EB         WB         NB         SB           HCM Control Delay, s         3.3         0         154.6         27.6           HCM LOS         F         D         D           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBL         EBT         EBR         WBL         WBT         WBR SBLn1 SBLn2           Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         60.5         21.5           HCM Lane LOS         F         D         A         -         A         -         F         C	Mov Cap-2 Maneuver	-	-	-	-	-	-			-	115		
Approach         EB         WB         NB         SB           HCM Control Delay, s         3.3         0         154.6         27.6           HCM LOS         F         D           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBL         EBT         EBR         WBL         WBT         WBR SBLn1 SBLn2           Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         60.5         21.5           HCM Lane LOS         F         D         A         -         A         -         F         C	Stage 1	-	-	-	-	-	-			-	401		
HCM Control Delay, s       3.3       0       154.6       27.6         HCM LOS       F       D         Minor Lane/Major Mvmt       NBLn1 NBLn2       EBL       EBT       EBR       WBT       WBR SBLn1 SBLn2         Capacity (veh/h)       33       171       957       -       -       115       495         HCM Lane V/C Ratio       0.433       0.017       0.19       -       -       0.002       -       0.46       0.571         HCM Control Delay (s)       180.2       26.4       9.6       -       -       8.1       -       -       60.5       21.5         HCM Lane LOS       F       D       A       -       -       A       -       F       C	Stage 2	-	-	-	-	-	-	161	419	-	330	336	
HCM Control Delay, s       3.3       0       154.6       27.6         HCM LOS       F       D         Minor Lane/Major Mvmt       NBLn1 NBLn2       EBL       EBT       EBR       WBL       WBT       WBR SBLn1 SBLn2         Capacity (veh/h)       33       171       957       -       1178       -       115       495         HCM Lane V/C Ratio       0.433       0.017       0.19       -       0.002       -       0.46       0.571         HCM Control Delay (s)       180.2       26.4       9.6       -       8.1       -       60.5       21.5         HCM Lane LOS       F       D       A       -       A       -       F       C													
HCM LOS         F         D           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBL         EBT         EBR         WBT         WBR SBLn1 SBLn2           Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         -         60.5         21.5           HCM Lane LOS         F         D         A         -         -         A         -         F         C	Approach	EB			WB			NB			SB		
Minor Lane/Major Mvmt         NBLn1 NBLn2         EBL         EBT         EBR         WBL         WBT         WBR SBLn1 SBLn2           Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         -         60.5         21.5           HCM Lane LOS         F         D         A         -         -         F         C	HCM Control Delay, s	3.3			0			154.6			27.6		
Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         -         60.5         21.5           HCM Lane LOS         F         D         A         -         -         A         -         F         C	HCM LOS							F			D		
Capacity (veh/h)         33         171         957         -         -         1178         -         -         115         495           HCM Lane V/C Ratio         0.433         0.017         0.19         -         -         0.002         -         -         0.46         0.571           HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         -         60.5         21.5           HCM Lane LOS         F         D         A         -         -         A         -         F         C													
HCM Lane V/C Ratio0.4330.0170.190.0020.460.571HCM Control Delay (s)180.226.49.68.160.521.5HCM Lane LOSFDAAFC	Minor Lane/Major Mvm	nt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
HCM Control Delay (s)         180.2         26.4         9.6         -         -         8.1         -         -         60.5         21.5           HCM Lane LOS         F         D         A         -         -         A         -         F         C	Capacity (veh/h)		33	171	957	-	-	1178	-	-	115	495	
HCM Lane LOS F D A A F C	HCM Lane V/C Ratio		0.433	0.017	0.19	-	-	0.002	-	-	0.46	0.571	
	HCM Control Delay (s)	)	180.2	26.4	9.6	-	-	8.1	-	-	60.5	21.5	
HCM 95th %tile Q(veh) 1.4 0.1 0.7 0 2 3.5	HCM Lane LOS		F	D	А	-	-	А	-	-		С	
	HCM 95th %tile Q(veh	)	1.4	0.1	0.7	-	-	0	-	-	2	3.5	

Intersection							
Int Delay, s/veh	4.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	ł
Lane Configurations	4			<u>स</u> ्	۰¥		
Traffic Vol, veh/h	227	33	26	385	75	26	;
Future Vol, veh/h	227	33	26	385	75	26	;
Conflicting Peds, #/hr	0	5	5	0	0	0	)
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	ę
Storage Length	-	-	-	-	0	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	66	66	66	66	66	66	;
Heavy Vehicles, %	8	8	3	3	3	3	3
Mvmt Flow	344	50	39	583	114	39	)

Major/Minor N	1ajor1	ľ	Major2	I	Minor1	
Conflicting Flow All	0	0	399	0	1035	374
Stage 1	-	-	-	-	374	-
Stage 2	-	-	-	-	661	-
Critical Hdwy	-	-	4.13	-	6.43	6.23
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-	2.227	-	3.527	3.327
Pot Cap-1 Maneuver	-	-	1154	-	256	670
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	512	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1149	-	242	667
Mov Cap-2 Maneuver	-	-	-	-	242	-
Stage 1	-	-	-	-	655	-
Stage 2	-	-	-	-	512	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		30.7	
HCM LOS	Ū		0.0		D	
Minor Lane/Major Mvmt	: N	BLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		289	-		1149	-
HCM Lane V/C Ratio		0.53	-	-	0.034	-
HCM Control Delay (s)		30.7	-	-	8.2	0
HCM Lane LOS		D	-	-	А	А

2.9

HCM 95th %tile Q(veh)

0.1

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Intersection					
Intersection Delay, s/veh	6.5				
Intersection LOS	А				
Approach	WB		NB		
Entry Lanes	1		2		
Conflicting Circle Lanes	2		2		2
Adj Approach Flow, veh/h	289		903		208
Demand Flow Rate, veh/h	292		912		210
Vehicles Circulating, veh/h	182		34		254
Vehicles Exiting, veh/h	764		430		220
Ped Vol Crossing Leg, #/h	0		0		3
Ped Cap Adj	1.000		1.000		1.000
Approach Delay, s/veh	5.1		7.3		4.8
Approach LOS	А		А		А
Lane	Left	Left	Right	Left	
Designated Moves	LR	LT	R	LT	
Assumed Moves	LR	LT	R	LT	
RT Channelized					
Lane Util	1.000	0.200	0.800	1.000	
Follow-Up Headway, s	2.535	2.667	2.535	2.535	
Critical Headway, s	4.328	4.645	4.328	4.328	
Entry Flow, veh/h	292	182	730	210	
Cap Entry Lane, veh/h	1217	1308	1380	1144	
Entry HV Adj Factor	0.990	0.990	0.990	0.992	
Flow Entry, veh/h	289	180	723	208	
Cap Entry, veh/h	1204	1295	1366	1134	
V/C Ratio	0.240	0.139	0.529	0.184	
Control Delay, s/veh	5.1	3.9	8.2	4.8	
LOS	А	А	А	А	
95th %tile Queue, veh	1	0	3	1	

Int Delay, s/veh	3.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	1	et –		٦	1
Traffic Vol, veh/h	184	535	236	64	48	33
Future Vol, veh/h	184	535	236	64	48	33
Conflicting Peds, #/hr	4	0	0	4	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	80	0
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	198	575	254	69	52	35

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	327	0	-	0	1265	293
Stage 1	-	-	-	-	293	-
Stage 2	-	-	-	-	972	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1238	-	-	-	189	751
Stage 1	-	-	-	-	762	-
Stage 2	-	-	-	-	370	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1233	-	-	-	157	748
Mov Cap-2 Maneuver	-	-	-	-	157	-
Stage 1	-	-	-	-	637	-
Stage 2	-	-	-	-	369	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.2		0		27.1	
HCM LOS					D	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	SBLn1 SBLn2
	•••					

Capacity (veh/h)	1233	-	-	- 157	748	
HCM Lane V/C Ratio	0.16	-	-	- 0.329	0.047	
HCM Control Delay (s)	8.5	-	-	- 38.8	10.1	
HCM Lane LOS	А	-	-	- E	В	
HCM 95th %tile Q(veh)	0.6	-	-	- 1.3	0.1	

Intersection							
Int Delay, s/veh	0.7						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	l
Lane Configurations		÷	el 👘		Y		
Traffic Vol, veh/h	8	567	318	33	28	3	)
Future Vol, veh/h	8	567	318	33	28	3	,
Conflicting Peds, #/hr	0	0	0	0	3	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	,
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	ļ
Heavy Vehicles, %	1	1	1	1	0	0	J
Mvmt Flow	9	616	346	36	30	3	)

Major/Minor	Major1	N	/lajor2	1	Minor2	
Conflicting Flow All	382		-	0	1001	364
Stage 1	-	-	-	-	364	-
Stage 2	-	-	-	-	637	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209		-	-	3.5	3.3
Pot Cap-1 Maneuver	1182	-	-	-	271	685
Stage 1	-	-	-	-	707	-
Stage 2	-	-	-	-	531	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1182	-	-	-	268	685
Mov Cap-2 Maneuver	-	-	-	-	268	-
Stage 1	-	-	-	-	699	-
Stage 2	-	-	-	-	531	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		19.3	
HCM LOS					С	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1182	-	-	-	285
HCM Lane V/C Ratio		0.007	-	-	-	0.118
HCM Control Delay (s)	)	8.1	0	-	-	19.3
HCM Lane LOS		А	А	-	-	С
	)	0				0.4

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u> </u>	<b>1</b>	LDIX	<u> </u>	4	<b>WBR</b>	<u>1102</u>	4	NBR	<u> </u>	1	OBIX
Traffic Vol, veh/h	224	348	3	1	215	27	6	7	2	17	1	104
Future Vol, veh/h	224	348	3	1	215	27	6	7	2	17	1	104
Conflicting Peds, #/hr	0	0	2	2	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	190	-	-	180	-	-	100	-	-	190	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	1	1	1	2	2	2	5	5	5	1	1	1
Mvmt Flow	241	374	3	1	231	29	6	8	2	18	1	112

Conflicting Flow All 260 0 0 379 0 0 1164 1122 378 1111 1109 246
Stage 1 860 860 - 248 248 -
Stage 2 304 262 - 863 861 -
Critical Hdwy 4.11 4.12 7.15 6.55 6.25 7.11 6.51 6.21
Critical Hdwy Stg 1 6.15 5.55 - 6.11 5.51 -
Critical Hdwy Stg 2 6.15 5.55 - 6.11 5.51 -
Follow-up Hdwy 2.209 2.218 3.545 4.045 3.345 3.509 4.009 3.309
Pot Cap-1 Maneuver 1310 1179 169 203 662 187 210 795
Stage 1 346 369 - 758 703 -
Stage 2 699 686 - 351 374 -
Platoon blocked, %
Mov Cap-1 Maneuver 1310 1177 124 165 661 154 171 795
Mov Cap-2 Maneuver 124 165 - 154 171 -
Stage 1
Stage 2 599 685 - 278 304 -
Approach EB WB NB SB
HCM Control Delay, s 3.3 0 28.7 13.4
HCM LOS D B
Minor Lane/Major Mvmt NBLn1 NBLn2 EBL EBT EBR WBL WBT WBR SBLn1 SBLn2
Capacity (veh/h) 124 198 1310 1177 154 768
HCM Lane V/C Ratio 0.052 0.049 0.184 0.001 0.119 0.147
HCM Control Delay (s) 35.6 24.1 8.4 8.1 31.5 10.5
HCM Lane LOS E C A A D B
HCM 95th %tile Q(veh) 0.2 0.2 0.7 0 0.4 0.5

Intersection							
Int Delay, s/veh	1.6						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	2
Lane Configurations	4			- <del>स</del> ी	۰¥		
Traffic Vol, veh/h	272	96	15	174	44	23	3
Future Vol, veh/h	272	96	15	174	44	23	3
Conflicting Peds, #/hr	0	1	1	0	0	0	)
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	None	-	None	-	None	)
Storage Length	-	-	-	-	0	-	-
Veh in Median Storage	,# 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	89	89	89	89	89	89	)
Heavy Vehicles, %	1	1	1	1	0	0	)
Mvmt Flow	306	108	17	196	49	26	5

Major/Minor         Major1         Major2         Minor1           Conflicting Flow All         0         0         415         0         591         361           Stage 1         -         -         -         361         -         -         361         -           Stage 1         -         -         -         361         -         -         361         -           Stage 2         -         -         -         230         -         -         230         -           Critical Hdwy         -         -         4.11         -         6.4         6.2         -         -         -         5.4         -         -         Critical Hdwy Stg 2         -         -         -         5.4         -         -         Critical Hdwy Stg 2         -         -         -         5.4         -         -         Critical Hdwy Stg 2         -         -         -         5.4         -         -         Critical Hdwy Stg 2         -         -         1149         -         473         688         Stage 1         -         -         710         -         Stage 2         -         -         813         -         -         Mov Cap-1 Maneuv
Stage 1       -       -       -       361       -         Stage 2       -       -       -       230       -         Critical Hdwy       -       -       4.11       -       6.4       6.2         Critical Hdwy Stg 1       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Follow-up Hdwy       -       2.209       -       3.5       3.3         Pot Cap-1 Maneuver       -       1149       -       473       688         Stage 1       -       -       -       813       -         Platoon blocked, %       -       -       -       697       -         Stage 1       -       -       -       697       -         Stage 2       -       -       -
Stage 2       -       -       -       230       -         Critical Hdwy       -       4.11       -       6.4       6.2         Critical Hdwy Stg 1       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Follow-up Hdwy       -       2.209       -       3.5       3.3         Pot Cap-1 Maneuver       -       1149       -       473       688         Stage 1       -       -       -       813       -         Platoon blocked, %       -       -       -       813       -         Mov Cap-1 Maneuver       -       1148       464       687         Mov Cap-2 Maneuver       -       -       697       -         Stage 1       -       -       -       813       -         Stage 2       -       -       -       813       -     <
Critical Hdwy       -       -       4.11       -       6.4       6.2         Critical Hdwy Stg 1       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Follow-up Hdwy       -       2.209       -       3.5       3.3         Pot Cap-1 Maneuver       -       1149       -       473       688         Stage 1       -       -       -       710       -         Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       -       867         Mov Cap-1 Maneuver       -       1148       464       687         Mov Cap-2 Maneuver       -       -       -       697       -         Stage 1       -       -       -       813       -         Stage 2       -       -       -       813       -         Vor Cap-2 Maneuver       -       -       813       -         Stage 2       -       -       -       813       -
Critical Hdwy Stg 1       -       -       -       5.4       -         Critical Hdwy Stg 2       -       -       -       5.4       -         Follow-up Hdwy       -       2.209       -       3.5       3.3         Pot Cap-1 Maneuver       -       -       1149       -       473       688         Stage 1       -       -       -       710       -         Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver       -       1148       464       687         Mov Cap-2 Maneuver       -       -       -       697       -         Stage 1       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       697       -         Stage 1       -       -       -       813       -         Very Cap-2 Maneuver       -       -       813       -         Very Cap-2 Maneuver       -       -       813       -         Very Cap-2 Maneuver       -       -       813       -         Mov Cap-1       EB </td
Critical Hdwy Stg 2       -       -       -       5.4       -         Follow-up Hdwy       -       2.209       -       3.5       3.3         Pot Cap-1 Maneuver       -       -       1149       -       473       688         Stage 1       -       -       -       710       -         Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       813       -         Mov Cap-1 Maneuver       -       1148       464       687         Mov Cap-2 Maneuver       -       -       464       -         Stage 1       -       -       -       697       -         Mov Cap-2 Maneuver       -       -       813       -         Stage 1       -       -       -       813       -         Stage 2       -       -       -       813       -         V       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         Mov Cap-
Pot Cap-1 Maneuver       -       -       1149       -       473       688         Stage 1       -       -       -       710       -         Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       813       -         Mov Cap-1 Maneuver       -       -       1148       -       464       687         Mov Cap-2 Maneuver       -       -       1148       -       464       -         Stage 1       -       -       -       697       -         Stage 2       -       -       -       813       -         Stage 1       -       -       -       813       -         Stage 2       -       -       -       813       -         Vertice       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         Stage 2       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -
Pot Cap-1 Maneuver       -       -       1149       -       473       688         Stage 1       -       -       -       710       -         Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       813       -         Mov Cap-1 Maneuver       -       1148       464       687         Mov Cap-2 Maneuver       -       -       464       -         Stage 1       -       -       -       697       -         Stage 2       -       -       -       813       -         Very Cap-2 Maneuver       -       -       -       697       -         Stage 1       -       -       -       813       -         Stage 2       -       -       -       813       -         Very Cap-2 Maneuver       -       -       -       813       -         Stage 2       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       813       -         <
Stage 2       -       -       -       813       -         Platoon blocked, %       -       -       -       -       -         Mov Cap-1 Maneuver       -       -       1148       -       464       687         Mov Cap-2 Maneuver       -       -       1148       -       464       -         Stage 1       -       -       -       697       -         Stage 2       -       -       -       813       -         V       -       -       -       813       -         Mov Cap-2 Maneuver       -       -       -       697       -         Stage 1       -       -       -       813       -         V       -       -       -       813       -         Manual Mathematical Mathematical Mathematical Mathematical Mathematical Mathematical Mathematical Mathematical Mathmatical Mathematical Mathmatical Mathematical
Platoon blocked, %       -       -       -         Mov Cap-1 Maneuver       -       -       1148       -       464       687         Mov Cap-2 Maneuver       -       -       -       464       -         Stage 1       -       -       -       697       -         Stage 2       -       -       -       813       -         Approach       EB       WB       NB         HCM Control Delay, s       0       0.6       13.1
Mov Cap-1 Maneuver         -         -         1148         -         464         687           Mov Cap-2 Maneuver         -         -         -         464         -           Stage 1         -         -         -         697         -           Stage 2         -         -         -         813         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.6         13.1
Mov Cap-2 Maneuver         -         -         -         464         -           Stage 1         -         -         -         697         -           Stage 2         -         -         -         813         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.6         13.1
Stage 1         -         -         697         -           Stage 2         -         -         -         813         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.6         13.1
Stage 2         -         -         -         813         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.6         13.1
ApproachEBWBNBHCM Control Delay, s00.613.1
HCM Control Delay, s 0 0.6 13.1
HCM Control Delay, s 0 0.6 13.1
HCM Control Delay, s 0 0.6 13.1
HGM E03 D
Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT
Capacity (veh/h) 522 1148 -
HCM Lane V/C Ratio 0.144 0.015 -
HCM Control Delay (s) 13.1 8.2 0
HCM Lane LOS B A A

0.5

HCM 95th %tile Q(veh)

0

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