

MINOR PRD

JURISDICTION: CITY OF MARYSVILLE, WA LOCATION: 83RD AVE NE, SOUTH OF E SUNNYSIDE SCHOOL RD

Prepared for: South Lake Ridge, LLC 10515 20th Street SE Suite 202 Lake Stevens, Washington 98258

Prepared by: Kimley »Horn

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TRAFFIC IMPACT ANALYSIS

FOR

MINOR PRD

Prepared for: South Lake Ridge, LLC 10515 20th Street SE Suite 202 Lake Stevens, Washington 98258

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TABLE OF CONTENTS

1.	Deve	LOPMEN	T IDENTIFICATION	1
2.	Мет⊦	HODOLOG	iΥ	1
3.	Trip	GENERA	TION	4
4.	Trip	DISTRIBL	JTION	4
5.	INTEF	RSECTION	LEVEL OF SERVICE ANALYSIS	5
	5.1.	Turning	Movement Calculations	10
		5.1.1.	Snohomish County Intersections	10
		5.1.2.	Intersection Volumes	10
	5.2.	Level of	f Service Calculations	17
6.	SITE	ACCESS.		17
7.	TRAN	ISPORTAT	TION IMPACT FEES	17
	7.1.	City of I	Marysville	18
	7.2.	Snohon	nish County	18
	7.3.	Washin	gton State Department of Transportation	18
8.	CON	CLUSIONS	5	18

LIST OF FIGURES

Figure 1: Site Vicinity Map	.2
Figure 2: Trip Distribution Opening Year – AM Peak-Hour	.6
Figure 3: Trip Distribution Opening Year – PM Peak-Hour	.7
Figure 4: Trip Distribution Horizon Year – AM Peak-Hour	.8
Figure 5: Trip Distribution Horizon Year – PM Peak-Hour	.9
Figure 6: 2023 Existing Turning Movements	12
Figure 7: 2026 Opening-Year Baseline Turning Movements	13
Figure 8: 2026 Opening-Year Future with Development Turning Movements	14
Figure 9: 2032 Horizon-Year Baseline Turning Movements	15
Figure 10: 2032 Horizon-Year Future with Development Turning Movements	16

LIST OF TABLES

Table 1: Level of Service Criteria	3
Table 2: Trip Generation Summary	4
Table 3: Key Intersection Volumes – AM Peak Hour	10
Table 4: Key Intersection Volumes – PM Peak Hour	10
Table 5: Level of Service Summary – Opening-Year	17
Table 6: Level of Service Summary – Horizon-Year	17

LIST OF APPENDICES

TRIP GENERATION CALCULATIONS	A
DISTRIBUTION AND COUNT DATA	
TURNING MOVEMENT CALCULATIONS	C
LEVEL OF SERVICE CALCULATIONS	D

1. DEVELOPMENT IDENTIFICATION

Kimley-Horn and Associates, Inc. (Kimley-Horn) has been retained to provide a traffic impact analysis for the Minor PRD Development (Development). This report is intended to provide the City of Marysville (City) and Snohomish County (County) with the necessary traffic generation, trip distribution, and mitigation fee determination to facilitate their reviews of the Development. The Development is located on the east side of 83rd Avenue NE, south of E Sunnyside School Road. A site vicinity map is included in **Figure 1**. The Development is proposed to consist of 29 single-family detached residential units. The site is currently listed as developed with a single-family detached residential unit per the *Snohomish County Online Property Information (SCOPI)* web map. The site will primarily access the City street network via one proposed access drive connected to 83rd Avenue NE through internal connectivity proposed with the Cornelius Lacey Development to the west of the site.

Brad Lincoln, responsible for this report and traffic analysis, is a licensed professional engineer (Civil) in the State of Washington and member of the Washington State section of the Institute of Transportation Engineers (ITE).

2. METHODOLOGY

Congestion at intersections and along arterials is generally measured in terms of level of service (LOS). In accordance with *Highway Capacity Manual (HCM)*, 6th Edition by the Transportation Research Board, road facilities and intersections are rated between LOS A and LOS F, with LOS A being free flow and LOS F being forced flow or over-capacity conditions. The LOS at signalized, roundabout, and all-way stop-controlled intersections is based on the average delay of all approaches. The LOS for two-way stop-controlled intersections is based on average delays for the critical stopped approach. Geometric characteristics and conflicting traffic movements are taken into consideration when determining LOS values. A summary of the intersection LOS criteria is included in **Table 1**.

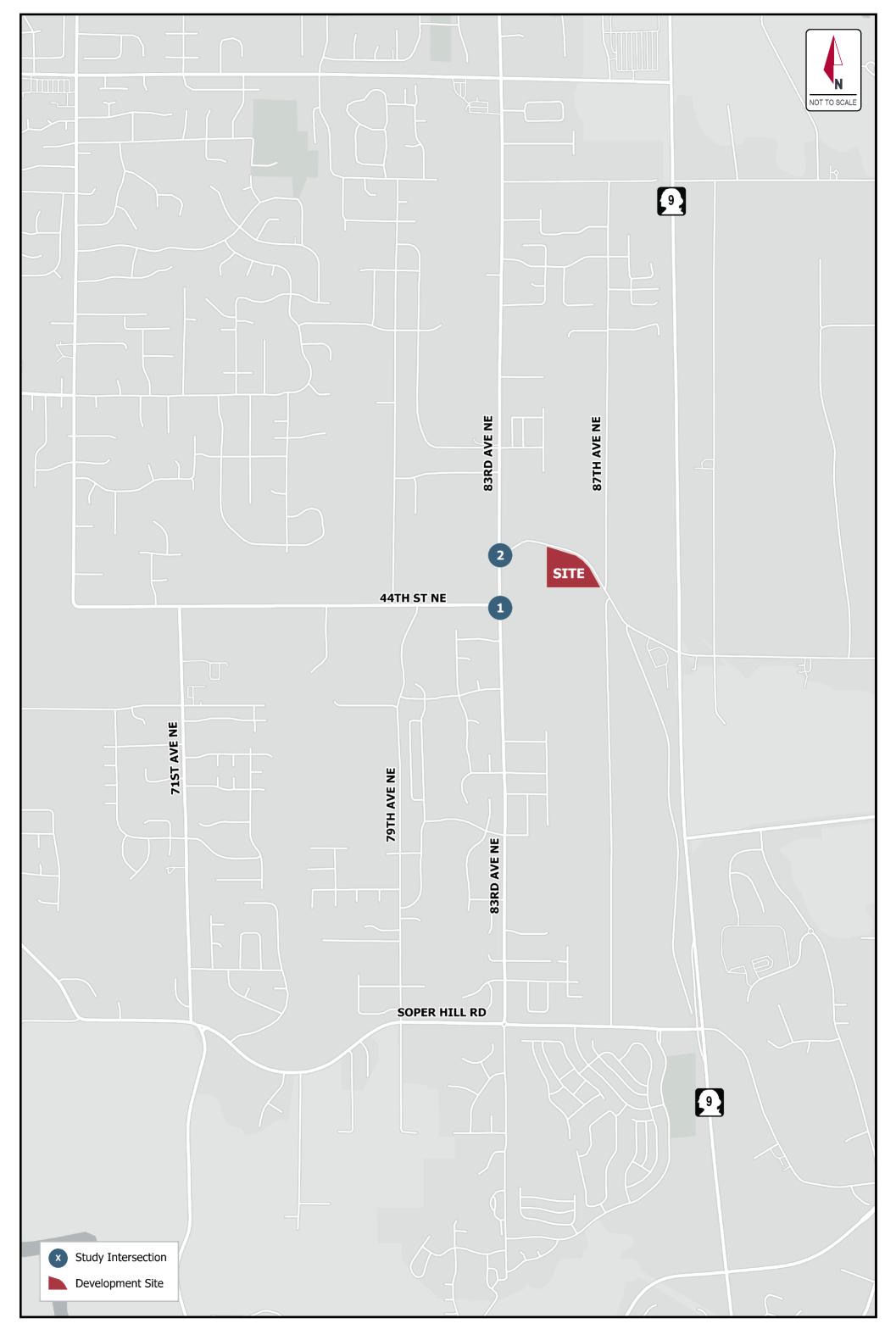


FIGURE 1 - SITE VICINITY MAP MINOR PRD - CITY OF MARYSVILLE, WA 090223206



Table 1: Level of Service Criteria

	Evenented Delevi	Intersection Control Delay (Seconds per Vehicle)								
Level of Service ¹	Expected Delay	Unsignalized Intersections	Signalized Intersections							
A	Little/No Delay	<u><</u> 10	<u><</u> 10							
В	Short Delays	>10 and <u><</u> 15	>10 and <u><</u> 20							
С	Average Delays	>15 and <u><</u> 25	>20 and <u><</u> 35							
D	Long Delays	>25 and <u><</u> 35	>35 and <u><</u> 55							
E	Very Long Delays	>35 and <u><</u> 50	>55 and <u><</u> 80							
F	Extreme Delays ²	>50	>80							

The LOS at two-way stop-controlled intersections is based on the average delay for the stopped approach with the highest delay. The LOS at all-way stop-controlled intersections and signalized intersections is based on the average delay for all vehicles. The LOS analysis for unsignalized and signalized intersections has been performed utilizing the *Synchro 11* software. The City identifies acceptable level of service for intersections as LOS D for all intersections in the vicinity of the development.

The trip generation calculations for the Development are based on average trip generation rates published in the ITE *Trip Generation Manual, 11th Edition (2021)*. The opening year has been estimated for the year 2026, which accounts for a three-year construction window. The horizon year has therefore been evaluated for the year 2032.

¹ **Source:** *Highway Capacity Manual, 6th Edition.*

LOS A: Free-flow traffic conditions, with minimal delay to stopped vehicles (no vehicle is delayed longer than one cycle at signalized intersection).

LOS B: Generally stable traffic flow conditions.

LOS C: Occasional back-ups may develop but delay to vehicles is short term and still tolerable.

LOS D: During short periods of the peak hour, delays to approaching vehicles may be substantial but are tolerable during times of less demand (i.e., vehicles delayed one cycle or less at signal).

LOS E: Intersections operate at or near capacity, with long queues developing on all approaches and long delays.

LOS F: Jammed conditions on all approaches with excessively long delays and vehicles unable to move at times. ² When demand volume exceeds the capacity of the lane, extreme delays will be encountered with queuing which may cause severe congestion affecting other traffic movements in the intersection.

3. TRIP GENERATION

The Development is proposed to consist of 29 single-family detached units. The site is currently developed with one single-family detached residential unit that will be removed during construction. The trip generation calculations have been performed using data published by the ITE *Trip Generation Manual, 11st Edition (2021)* and the City rate of 1.0 PM peak-hour trips per single-family residential unit. The average trip generation rates for ITE Land Use Codes (LUC) 210, Single-Family Detached Housing, have been used for the trip generation calculations. The trip generation calculations for the Development are summarized in **Table 2**.

Table 2: Trip Generation Summary

		Average	AM F	Peak-Hour T	rips	PM Peak-Hour Trips					
Land Use	Size	Daily Trips (ADTs)	In	Out	Total	In	Out	Total			
Single-Family Detached Housing ITE LUC 210	29 Units	273	5	15	20	18	11	29			
Single-Family Detached Housing ITE LUC 210 (Removed)	-1 Unit	-9	0	-1	-1	-1	0	-1			
TOTAL		264	5	14	19	17	11	28			

The Development is anticipated to generate approximately 264 new ADTs with approximately 19 new AM peak-hour trips and 28 new PM peak-hour trips. The trip generation calculations are provided in **Appendix A**.

4. TRIP DISTRIBUTION

The trip distribution for the Development is based on comparison of Whiskey Ridge North and Whiskey Ridge East distributions established by the City since the site is located in the middle of the two areas. The trip distribution for the 2026 opening year is:

- 30% to and from the north along 83rd Avenue NE
- 28% to and from the east
 - 20% to and from the south along SR-9
 - 5% to and from the east along SR-92
 - 3% to and from the north along SR-9
- 22% to and from the south along 83rd Avenue NE
- 20% to and from the west along 44th Street NE

The trip distribution for the 2032 horizon year is:

- 30% to and from the east
 - 20% to and from the south along SR-9
 - 5% to and from the east along SR-92
 - 3% to and from the north along SR-9
 - 2% to and from the north along 87th Avenue NE
- 30% to and from the north along 83rd Avenue NE
- 20% to and from the south along 83rd Avenue NE
- 20% to and from the west along 44th Street NE

Detailed trip distributions for the AM peak-hour and PM peak-hour during existing conditions are shown in **Figure 2** and **Figure 3**, respectively. Detailed trip distributions for the AM peak-hour and PM peak-hour during horizon-year conditions are shown in **Figure 4** and **Figure 5**, respectively. The established distributions are provided in **Appendix B**.

5. INTERSECTION LEVEL OF SERVICE ANALYSIS

The following intersections have been analyzed based on an impact of 25 trips generated by the Development:

- 1. 83rd Avenue NE at Line Road/44th Street NE
- 2. 83rd Avenue NE at E Sunnyside School Road

The intersections have been analyzed for the weekday PM peak-hour.

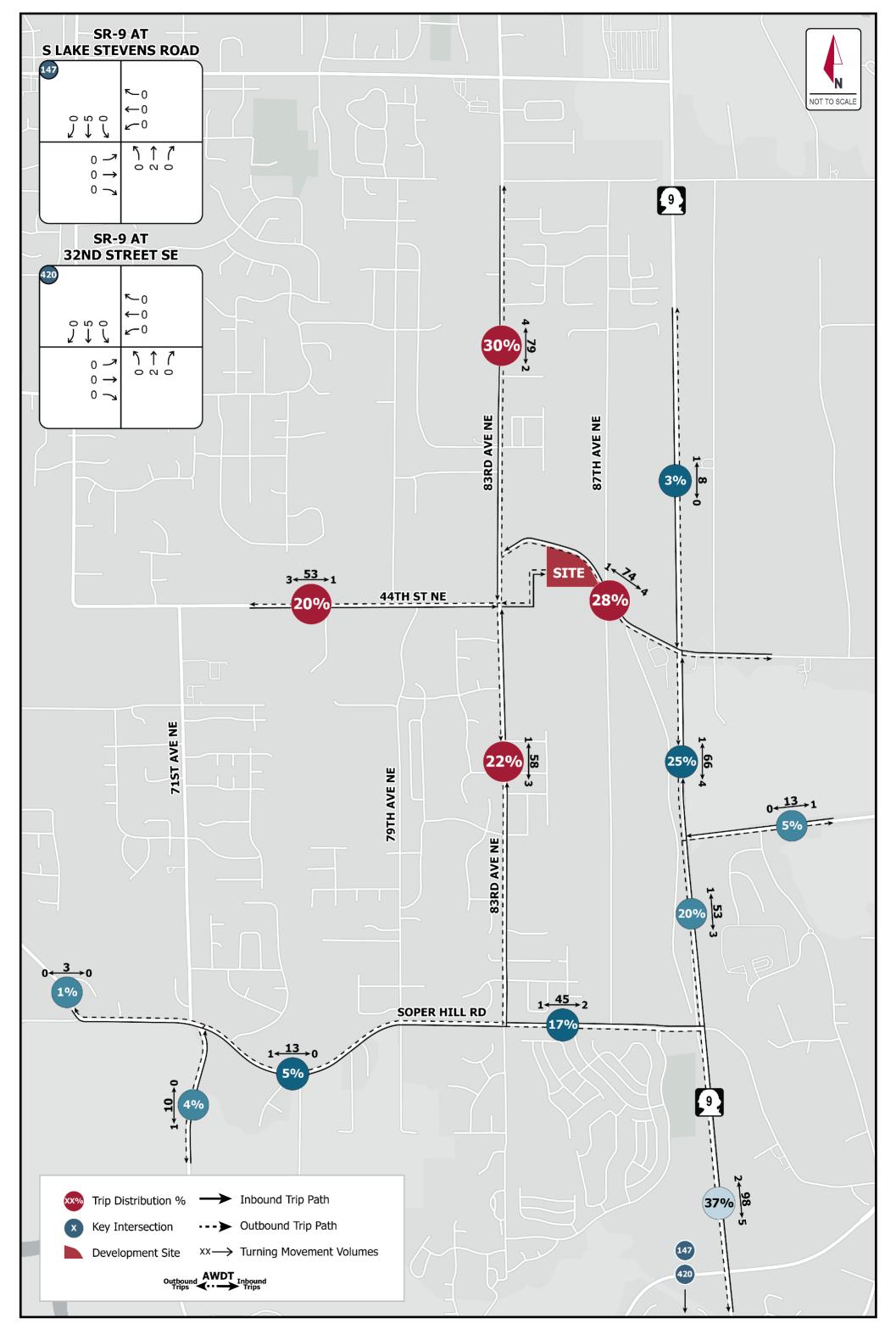


FIGURE 2 - AM PEAK HOUR OPENING YEAR TRIP DISTRIBUTION MINOR PRD - CITY OF MARYSVILLE, WA 090223206

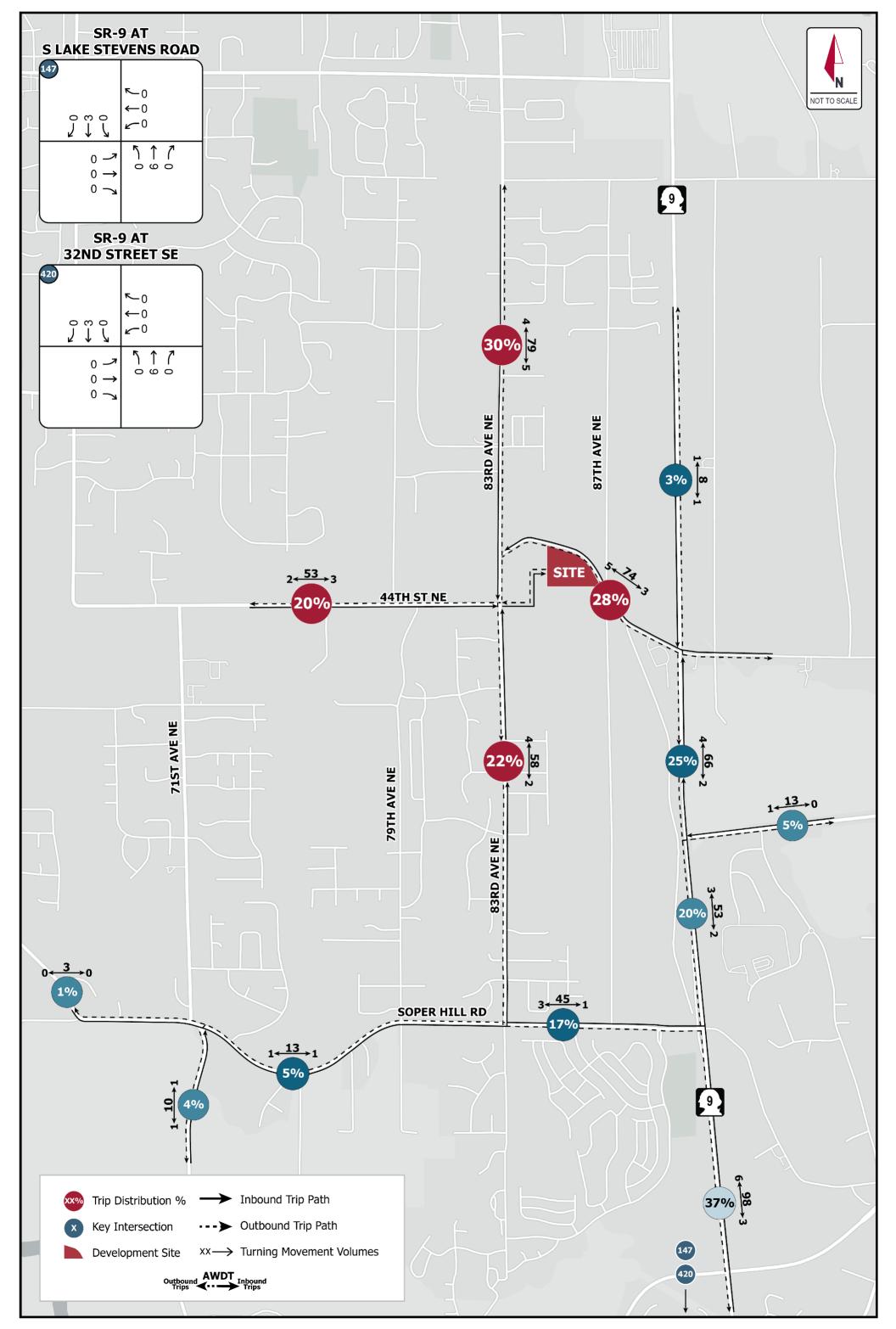


FIGURE 3 - PM PEAK HOUR OPENING YEAR TRIP DISTRIBUTION MINOR PRD - CITY OF MARYSVILLE, WA 090223206

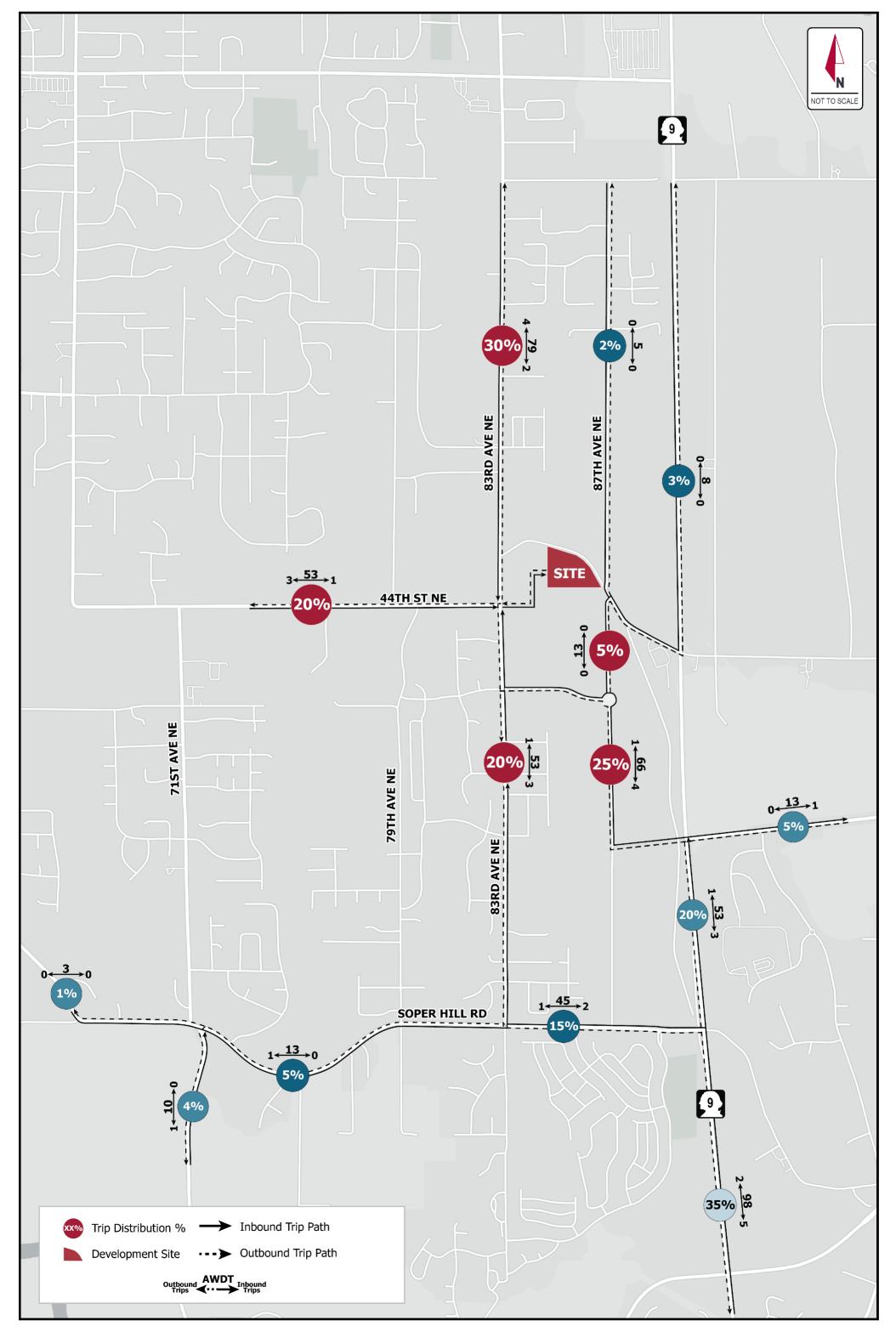


FIGURE 4 - AM PEAK HOUR HORIZON YEAR TRIP DISTRIBUTION MINOR PRD - CITY OF MARYSVILLE, WA 090223206

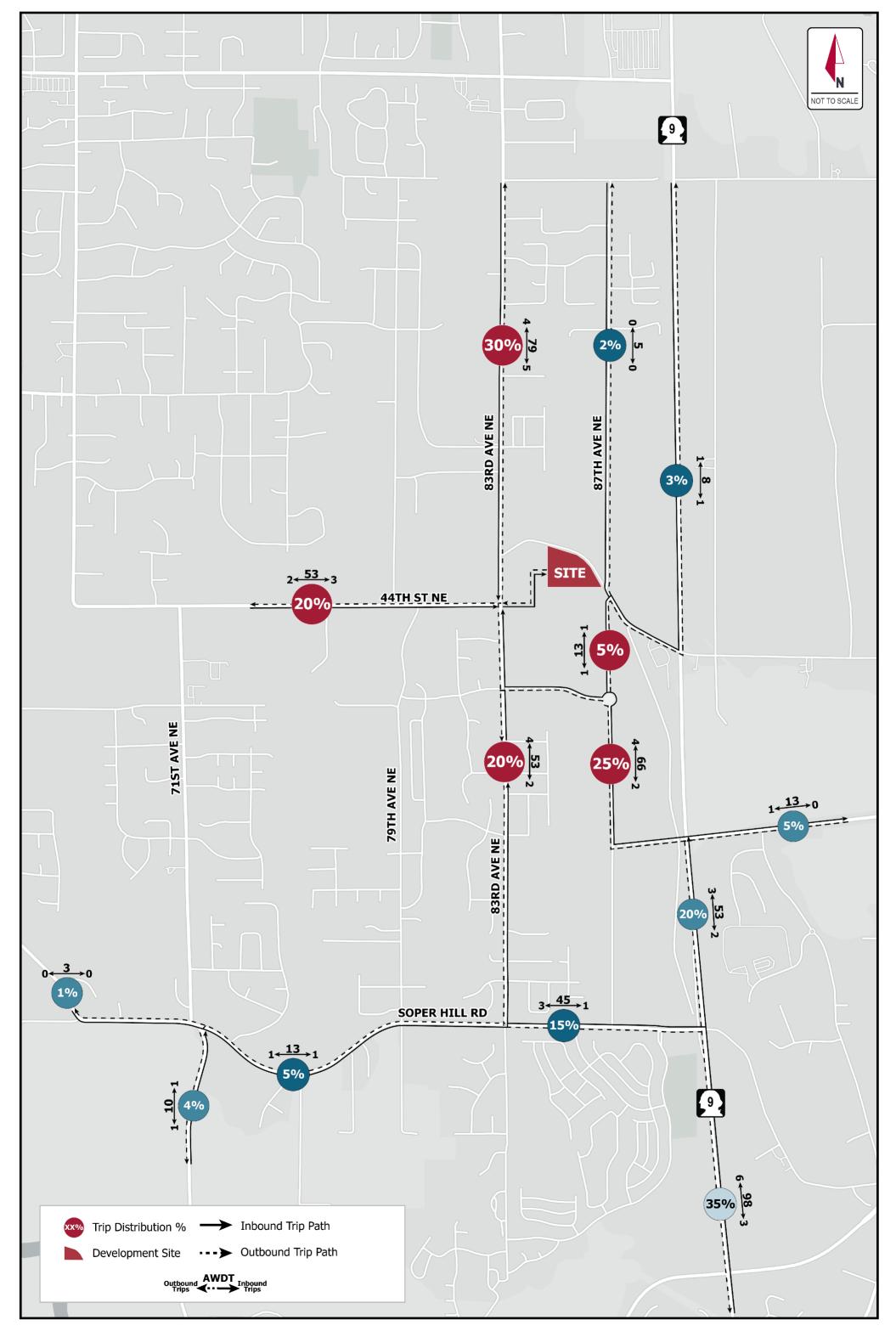


FIGURE 5 - PM PEAK HOUR HORIZON YEAR TRIP DISTRIBUTION MINOR PRD - CITY OF MARYSVILLE, WA 090223206

5.1. Turning Movement Calculations

5.1.1. Snohomish County Intersections

The interlocal agreement between the City and County requires detailed development trip turning movement data at County key intersections impacted with three or more directional trips on an approach or departure. The Development will impact two key intersections during the AM peak-hour and PM Peak-hour. The AM peak-hour key intersection impacts are shown in tabular form in **Table 3** and the PM peak-hour key intersection impacts are shown in tabular form in **Table 3**.

Table 3: Key Intersection Volumes – AM Peak Hour

	Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
#147:	SR-9 at S Lake Stevens Road	0	0	0	0	0	0	0	2	0	0	5	0
#420:	SR-9 at 32 nd Street SE	0	0	0	0	0	0	0	2	0	0	5	0

Table 4: Key Intersection Volumes – PM Peak Hour

Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
#147: SR-9 at S Lake Stevens Road	0	0	0	0	0	0	0	6	0	0	3	0
#420: SR-9 at 32 nd Street SE	0	0	0	0	0	0	0	6	0	0	3	0

The key intersection impacts are also shown in graphical form in **Figure 2** and **Figure 3** for the AM and PM peak-hours, respectively.

5.1.2. Intersection Volumes

The existing PM peak-hour turning movements at the study intersections were collected by the independent count firm Traffic Data Gathering (TDG) in September 2023. The 2023 existing turning movements at the study intersections are shown in **Figure 6**. The count data is included in **Appendix B**.

The future analysis has been performed for an opening year of 2026, which represents when the Development is expected to be constructed and occupied. The 2026 opening year baseline turning movements have been calculated by applying a 3% annually compounding growth rate applied to the 2023 existing turning movements. Additionally, development trips from the Cornelius Lacey and Taylor Property Developments have been added as pipeline to the 2026 baseline volumes to account for impacts to the study intersections by future developments. The 2026 opening year baseline turning movements at the study intersections are shown in **Figure 7**. The 2026 opening year future with development turning movements at the study intersections have been calculated by adding the trips generated by the Development to the 2026 opening year baseline turning movements, which include development trips from the two pipeline projects. The 2026 opening year future with development trips from the two pipeline projects. The 2026 opening year future with development trips from the two pipeline data is included with the existing count data in **Appendix B**.

The study intersections have also been analyzed for the 2032 horizon year conditions (baseline and with development). The horizon year analysis accounts for the typical six-year concurrency period after the expected opening year. The 2032 horizon year baseline turning movements have been calculated using the same 3% annually compounding growth rate. Sunnyside School Road is planned to be converted to a pedestrian trail and will therefore not be an intersection under the 2032 horizon year conditions. The volumes calculated to be turning to and from Sunnyside School Road under the 2032 baseline conditions have been assigned to the 44th Street NE intersection with the addition of 50 eastbound and westbound through trips to account for the potential diversion of trips with the closure. The 2032 horizon year baseline turning movements at the study intersections have been calculated by adding the trips generated by the Development to the 2032 horizon year baseline turning movements. The 2032 horizon year future with development turning movements are shown in **Figure 10**. The turning movement calculations are included in **Appendix C**.

Page 11

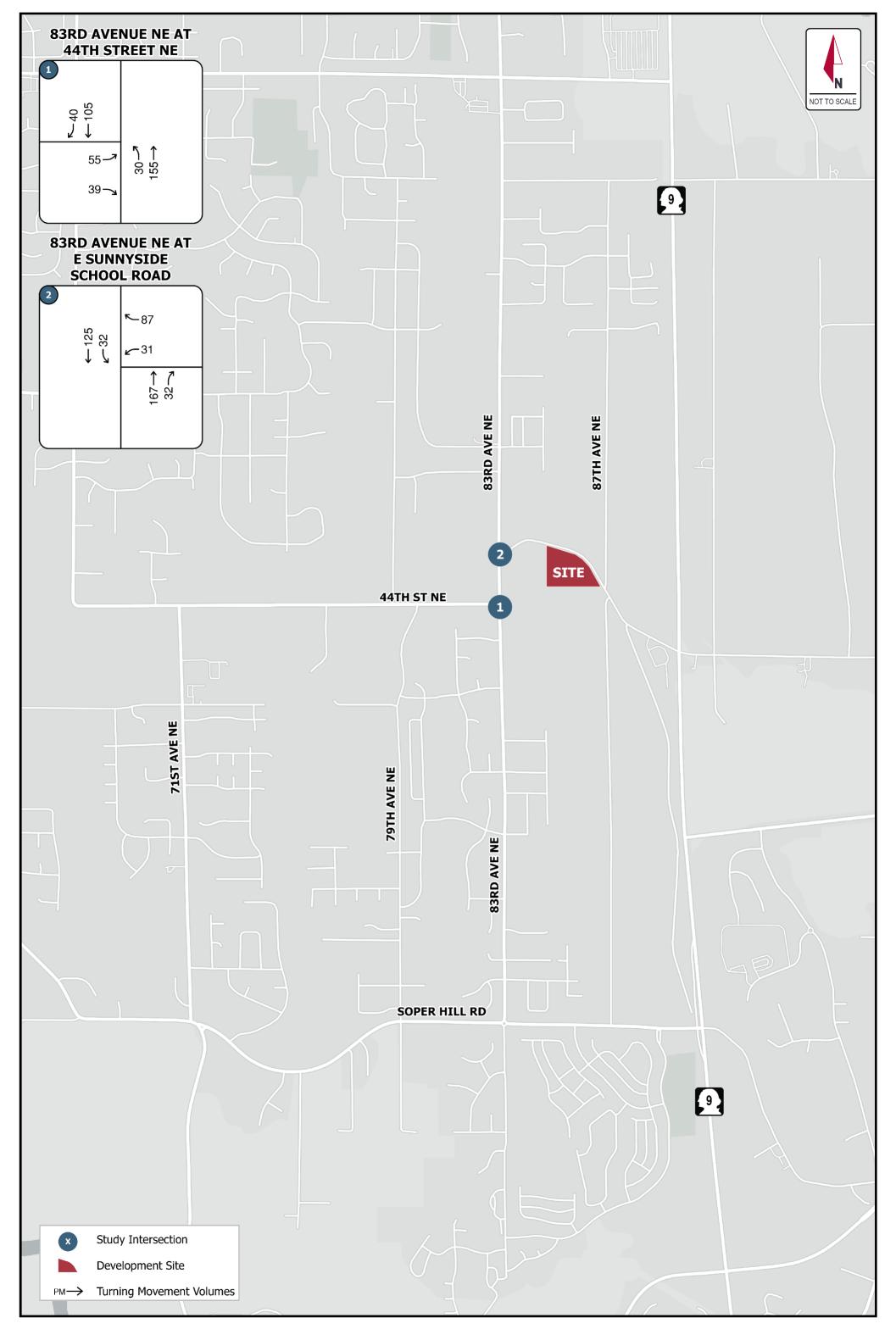


FIGURE 6 - 2023 EXISTING TURNING MOVEMENTS MINOR PRD - CITY OF MARYSVILLE, WA 090223206

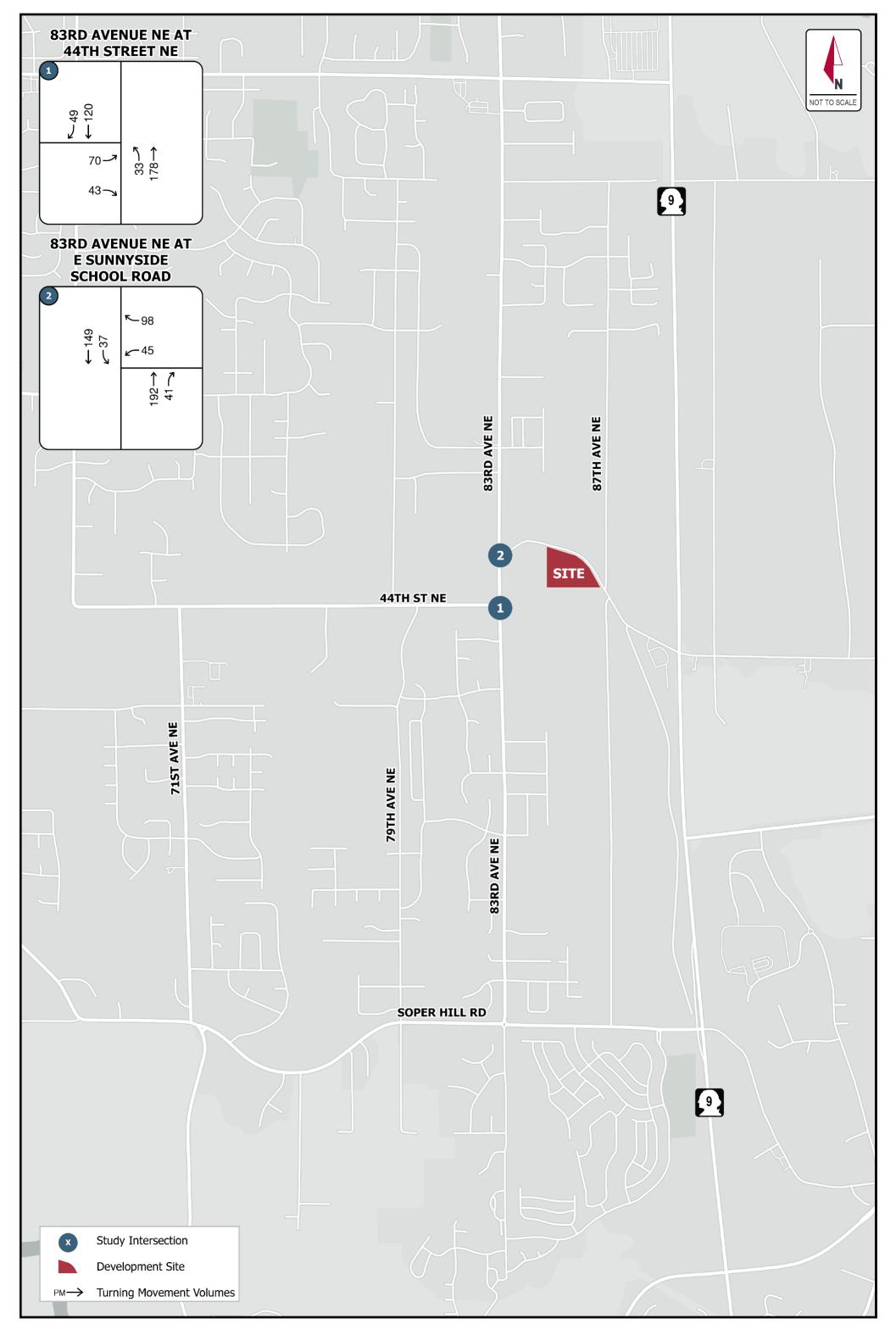


FIGURE 7 - 2026 BASELINE TURNING MOVEMENTS MINOR PRD - CITY OF MARYSVILLE, WA 090223206



FIGURE 8 - 2026 FUTURE TURNING MOVEMENTS MINOR PRD - CITY OF MARYSVILLE, WA 090223206



FIGURE 9 - 2032 BASELINE TURNING MOVEMENTS MINOR PRD - CITY OF MARYSVILLE, WA 090223206

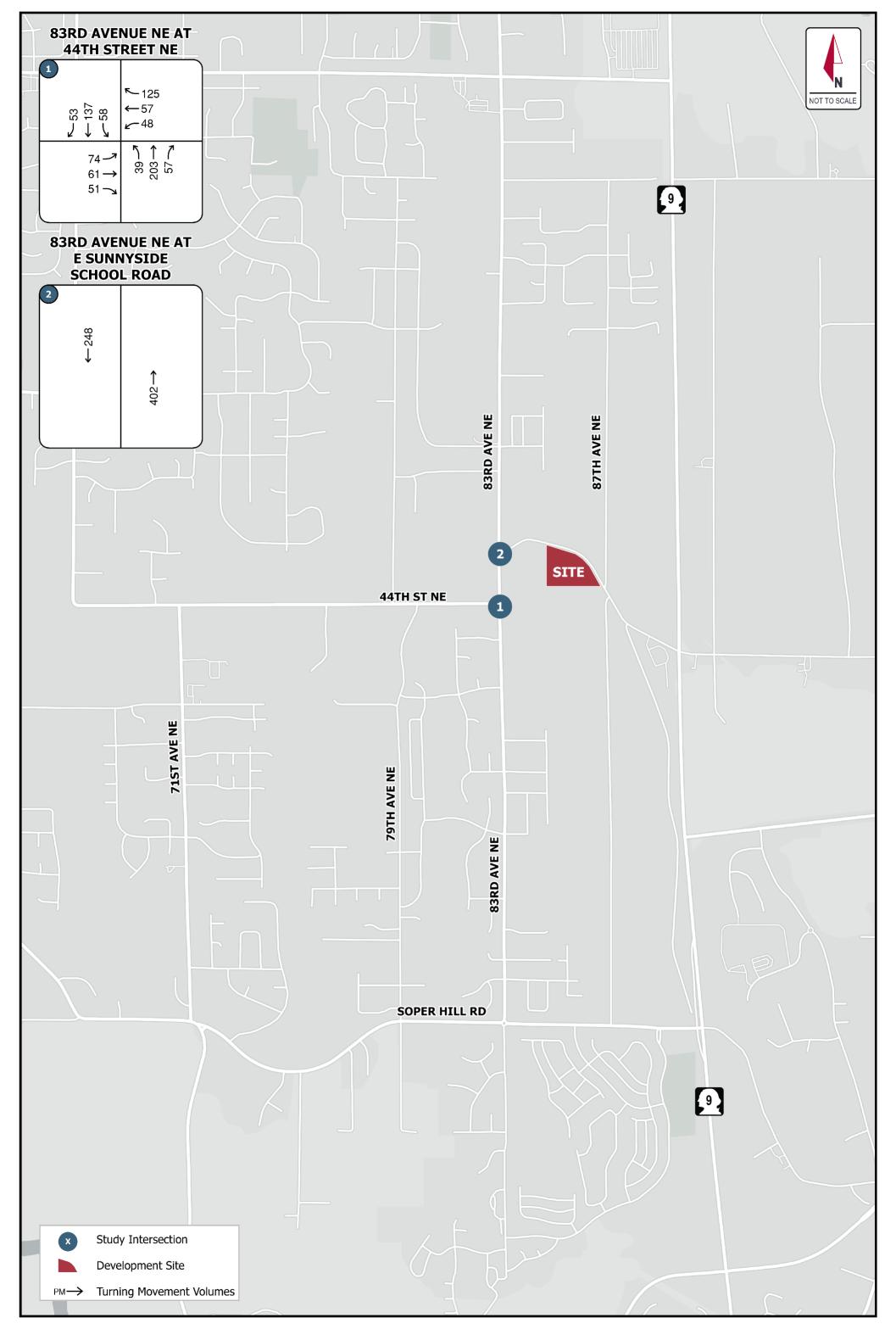


FIGURE 10 - 2032 FUTURE TURNING MOVEMENTS MINOR PRD - CITY OF MARYSVILLE, WA 090223206

5.2. Level of Service Calculations

The level of service calculations have been performed utilizing the existing channelization, existing intersection control and peak-hour factors and heavy vehicle factors from the 2023 turning movement counts. All Development trips have been assigned to the extension of 44th Street NE for feasibility and demonstrate the "worst-case" delay scenario. The level of service summary for the opening-year is included in **Table 5** and the level of service summary for the horizon-year is included in **Table 6** for the PM peakhour.

Table 5: Level of Service Summary – Opening-Year

	Intersection	Approach	2023 E	Existing	2026 B	aseline	2026 Future w Dev.			
			LOS	Delay	LOS	Delay	LOS	Delay		
1:	83 rd Avenue NE at 44 th Street NE	Two-Way Stop Control	В	11.3 sec	В	12.2 sec	В	12.7 sec		
2:	83 rd Avenue NE at E Sunnyside School Road	Two-Way Stop Control	В	10.8 sec	В	11.8 sec	В	12.0 sec		

Table 6: Level of Service Summary – Horizon-Year

	Intersection	Approach	2023 F	Existing	2032 B	aseline	2032 Future w Dev.			
			LOS	Delay	LOS	Delay	LOS	Delay		
1 :	83 rd Avenue NE at 44 th Street NE	Two-Way Stop Control	В	11.3 sec	D	30.7 sec	D	34.0 sec		
2 :	83 rd Avenue NE at E Sunnyside School Road	Two-Lane Roadway	В	10.8 sec						

The analysis shows that the study intersections currently operate at LOS B during the PM peak-hour and are anticipated to remain at LOS B under the 2026 opening-year baseline and future with development conditions. The intersection of 83rd Avenue NE at 44th Street NE is anticipated to change to LOS D with the reassignment from E Sunnyside School Road under the 2032 horizon-year baseline and future with development conditions. The intersection LOS calculations are provided in the **Appendix D**.

6. SITE ACCESS

The Development is proposed to have connectivity to 83rd Avenue NE west of the site via the adjacent Cornelius Lacey Development. The Development will not create any new connections to the public road network.

7. TRANSPORTATION IMPACT FEES

The City has interlocal agreements with the County and Washington State Department of Transportation (WSDOT) for transportation impact fees. These transportation impact fees are based on the area wide traffic mitigation fee or actual impacts to improvement projects.

7.1. City of Marysville

The City traffic mitigation fees have been calculated using the residential rates of \$6,300 per new singlefamily unit. The Development is anticipated to consist of 29 total single-family units with credit for one existing single-family detached unit. The City traffic mitigation fees for the Development should therefore be \$176,400.00 for the 28 new single-family units.

7.2. Snohomish County

The City and County have an interlocal agreement that provides for the payment of traffic mitigation for impacts to County roadways by City developments. Traffic mitigation fees are based on predetermined area impacts or impacts to actual improvement projects. The only County improvement project in the area is along 88th Street NE, between approximately 44th Drive NE to 66th Drive NE. This improvement project is not anticipated to be impacted by three directional PM peak-hour trips from the Development. County traffic mitigation fees should therefore not be required for the Development.

7.3. Washington State Department of Transportation

The WSDOT mitigation fees are based on impacts to improvement projects identified in the Exhibit C List included in the interlocal agreement between the County and WSDOT. There are not any WSDOT intersections on the Exhibit C List that will be impacted by three directional PM peak-hour trips generated by the Development. WSDOT transportation impact fees should therefore not be required for the Development.

8. CONCLUSIONS

The Development is proposed to consist of 29 single-family detached residential units. The site is currently listed as occupied with one single-family detached residential unit. The Development is anticipated to generate approximately 264 new ADTs with approximately 19 new AM peak-hour trips and 28 new PM peak-hour trips. The Development is anticipated to construct 28 new single-family units. The City traffic mitigation fees for the Development should therefore be \$176,400.00. Neither County nor WSDOT traffic mitigation fees should be required for the Development. The study intersections are anticipated to operate at an acceptable level of service with the development.

APPENDIX A

TRIP GENERATION CALCULATIONS

Minor PRD 090223206

Trip Generation for: Weekday (a.k.a.): Average Weekday Daily Trips (AWDT)

												Ν	ET EXTER	RNAL TRI	PS BY	TYPE				
									IN BOTH DIRECTIONS DIRECTIONAL ASSIGNM									GNMENT	ſS	
				Gros	s Trips			ernal sover	TOTAL	DTAL PASS-BY		DIVERTED LINK		NEW PA		PASS-BY		DIVERTED LINK		w
LAND USES	VARIABLE	ITE LU code	Trip Rate	% IN	% OUT	In+Out (Total)	% of Gross Trips	Trips In+Out (Total)	In+Out (Total)	E Fyt	In+Out (Total)	I Fxt	In+Out (Total)	In+Out (Total)	In	Out	In	Out	In	Out
Single-Family Detached Housing	29 units	210	9.43	50%	50%	273	0%	0	273	0%	0	0%	0	273	0	0	0	0	137	136
Single-Family Detached Housing (Removed)	-1 unit	210	9.43	50%	50%	-9	0%	0	-9	0%	0	0%	0	-9	0	0	0	0	-5	-4
Total						264		0	264		0		0	264	0	0	0	0	132	132

Minor PRD 090223206

Trip Generation for:Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 7 and 9 AM
(a.k.a.):(a.k.a.):Weekday AM Peak Hour

												TYPE	E							
		_							IN BOTH DIRECTIONS							DIRECT	IONAL	_ ASSI	GNMENTS	
				Gros	s Trips			ernal sover	TOTAL	AL PASS-BY		DIVERTED LINK		NEW	PASS-BY		DIVERTED LINK		NEW	
LAND USES	VARIABLE	ITE LU code	Trip Rate	% IN	% OUT	In+Out (Total)	% of Gross Trips	Trips In+Out (Total)	In+Out (Total)	E Fyt	In+Out (Total)	ll Fyt		In+Out (Total)	In	Out	In	Out	In	Out
Single-Family Detached Housing	29 units	210	0.70	26%	74%	20	0%	0	20	0%	0	0%	0	20	0	0	0	0	5	15
Single-Family Detached Housing (Removed)	-1 unit	210	0.70	26%	74%	-1	0%	0	-1	0%	0	0%	0	-1	0	0	0	0	0	-1
Total						19		0	19		0		0	19	0	0	0	0	5	14

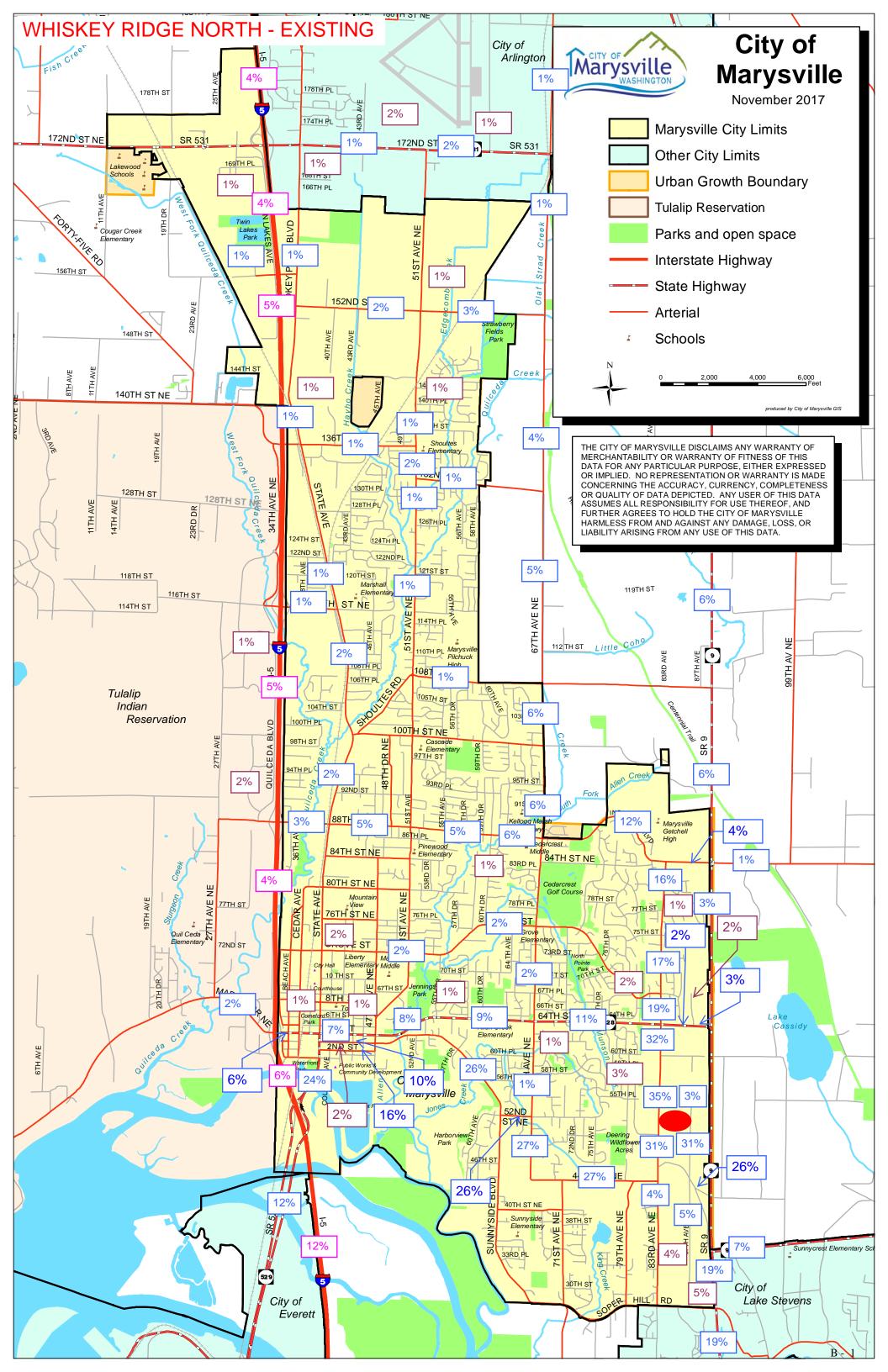
Minor PRD 090223206

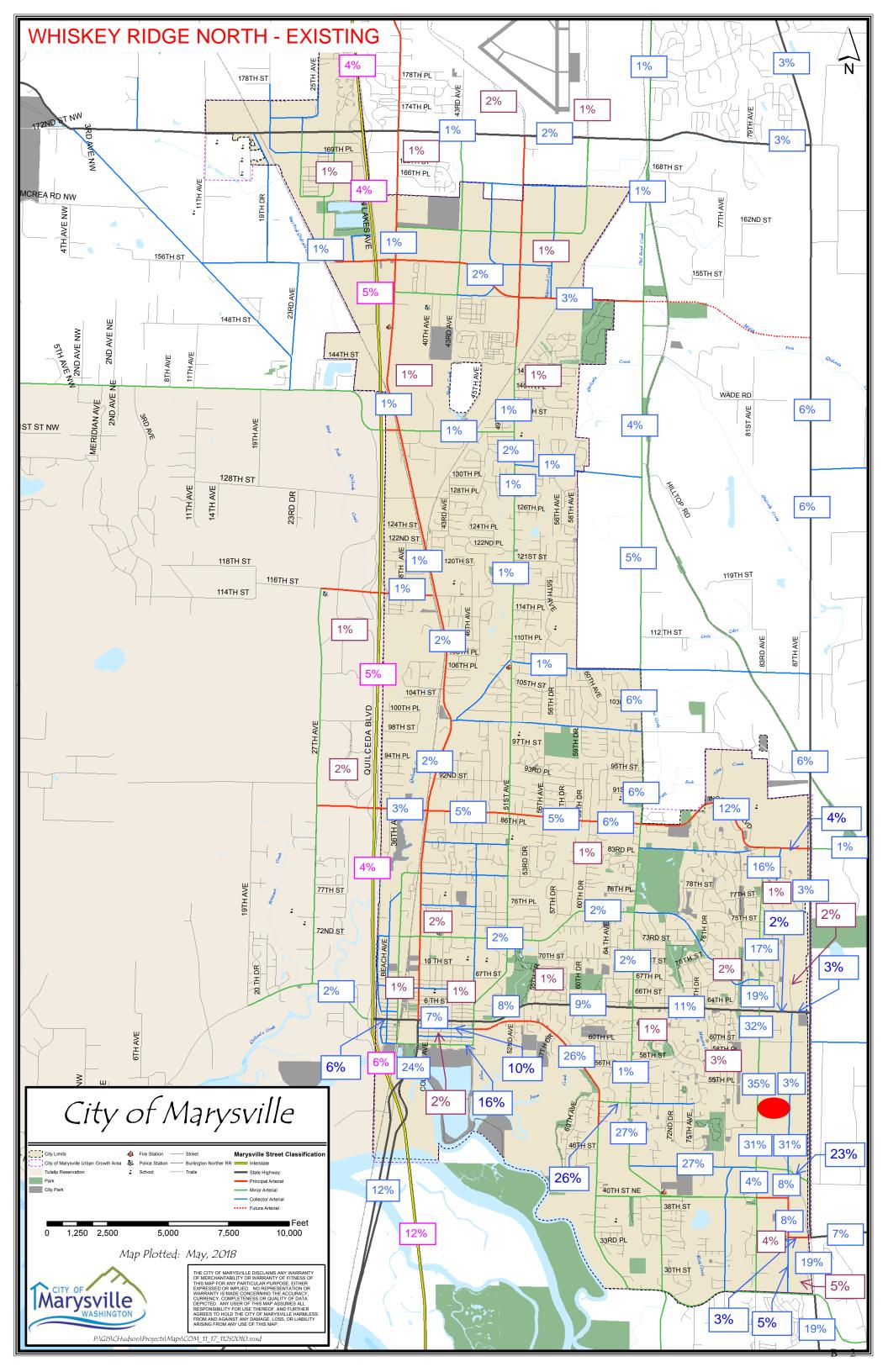
Trip Generation for:Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 4 and 6 PM
(a.k.a.):(a.k.a.):Weekday PM Peak Hour

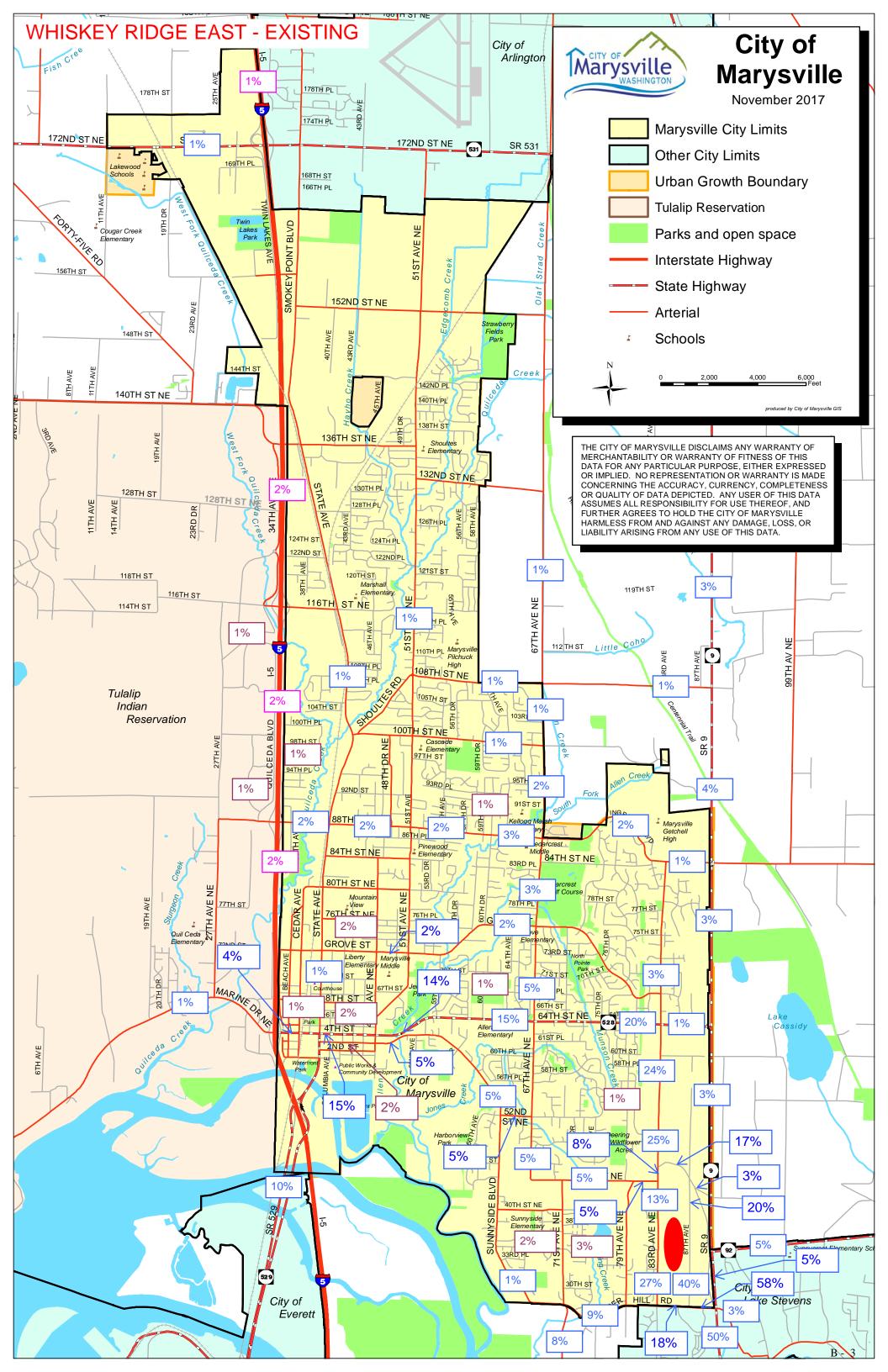
												Ν	ET EXTEI	RNAL TRI	PS BY	TYPE				
		_								11	N BOTH C	IRECTIO	ONS			DIRECT	IONAL	_ ASSI	GNMEN	rs
				Gros	s Trips			ernal sover	TOTAL	PAS	SS-BY	DIVERT	ED LINK	NEW	PAS	S-BY		RTED NK	NE	EW
LAND USES	VARIABLE	ITE LU code	Trip Rate	% IN	% OUT	In+Out (Total)	% of Gross Trips	Trips In+Out (Total)	In+Out (Total)	E Fyt	In+Out (Total)	I Fyt		In+Out (Total)	In	Out	In	Out	In	Out
Single-Family Detached Housing	29 units	210	1.00	63%	37%	29	0%	0	29	0%	0	0%	0	29	0	0	0	0	18	11
Single-Family Detached Housing (Removed)	-1 unit	210	1.00	63%	37%	-1	0%	0	-1	0%	0	0%	0	-1	0	0	0	0	-1	0
Total						28		0	28		0		0	28	0	0	0	0	17	11

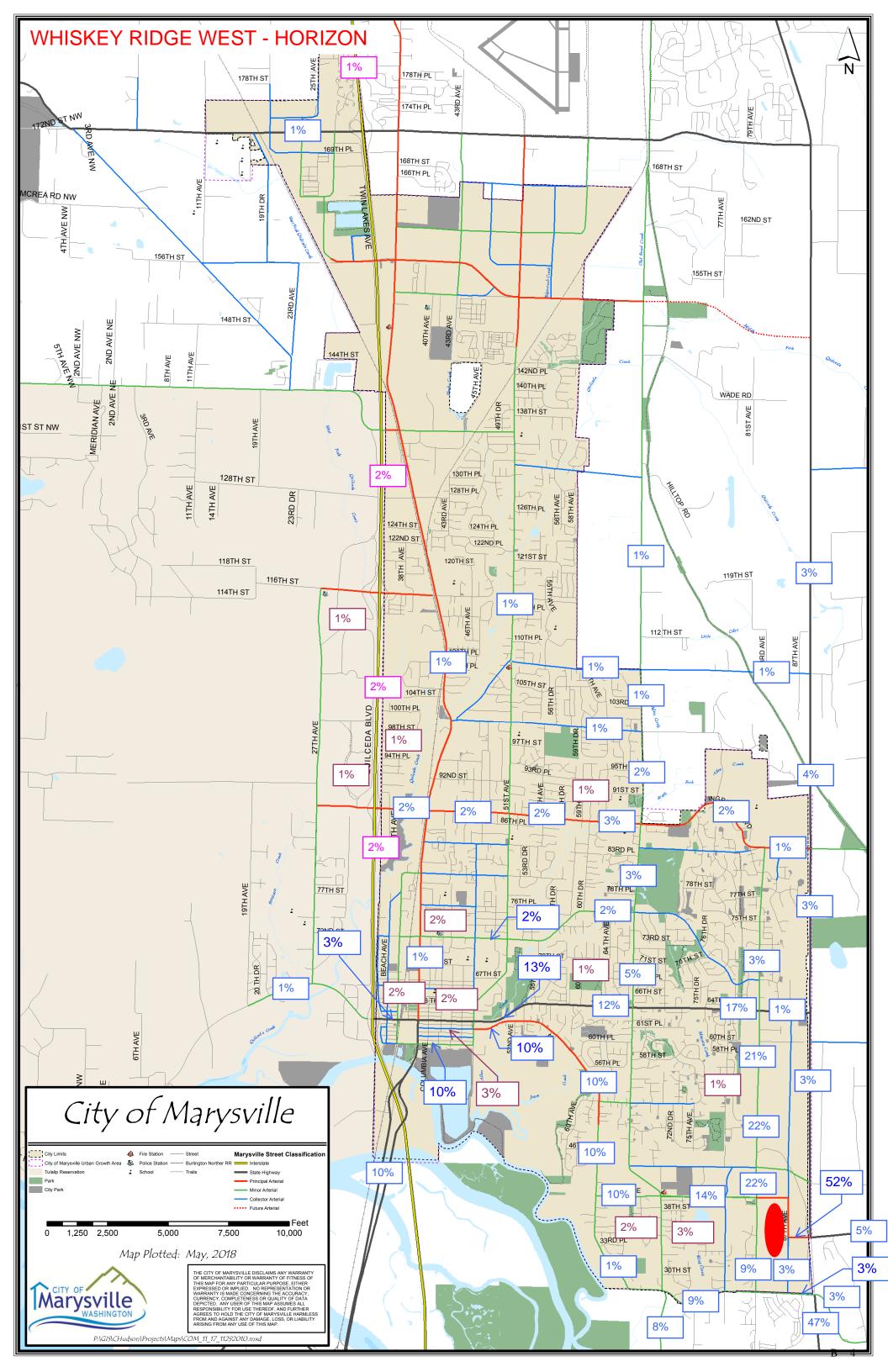
APPENDIX B

DISTRIBUTION AND COUNT DATA



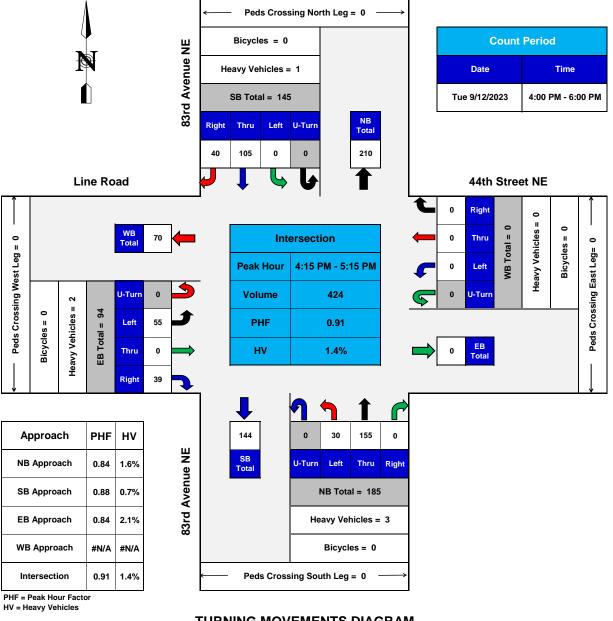






83rd Avenue NE @ Line Road/44th Street NE





TURNING MOVEMENTS DIAGRAM

PEAK HOUR SUMMARY



TRAFFIC DATA GATHERING

83rd Avenue NE @ E Sunnyside School Road

Peds Xing N Leg = 0 **Count Period** Bicycles = 0 83rd Avenue NE HV = 3 Time Date SB Total = 157 Tue 9/12/2023 4:00 PM - 6:00 PM NB Total U-Turn Thru Left 125 32 254 0 E Sunnyside School Road 87 Right WB Total = 118 Bicycles = 0 Intersection HV = 5 Left 31 Peds Xing E Leg= 0 4:00 PM - 5:00 PM **Peak Hour** U-Turn 0 5 Volume 474 PHF 0.91 EB Total 64 3.4% ΗV PHF 156 167 Approach нν 0 32 83rd Avenue NE SB Total U-Turn Thru Right NB Approach 0.92 4.0% NB Total = 199 SB Approach 0.89 1.9% HV = 8 WB Approach 0.67 4.2% Bicycles = 0 Intersection 0.91 3.4% Peds Xing S Leg = 0 PHF = Peak Hour Factor HV = Heavy Vehicles

Marysville, WA

TURNING MOVEMENTS DIAGRAM

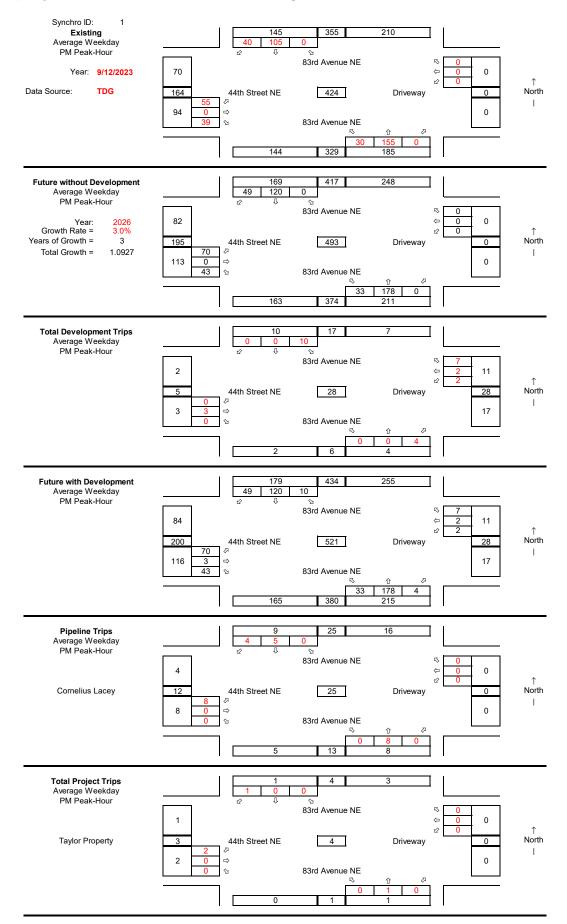
PEAK HOUR SUMMARY

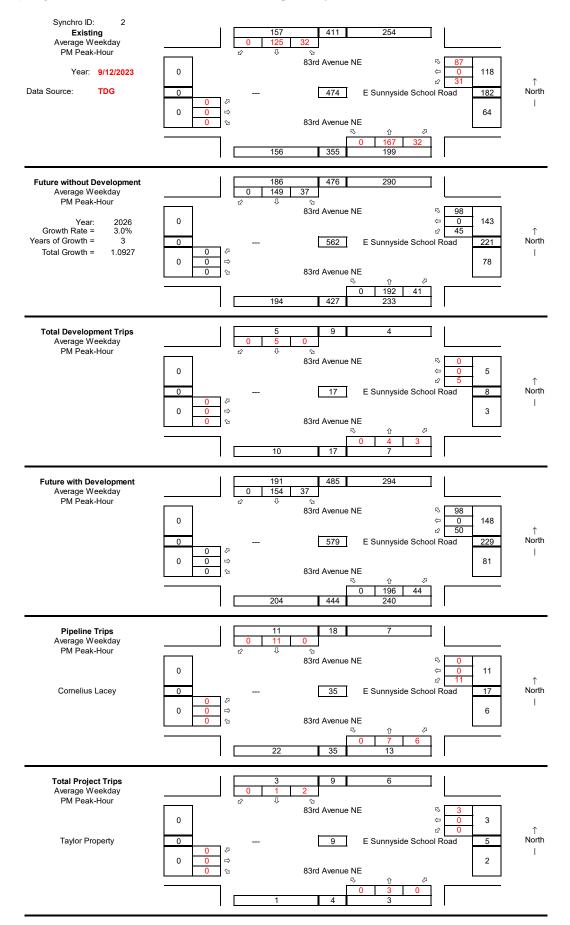


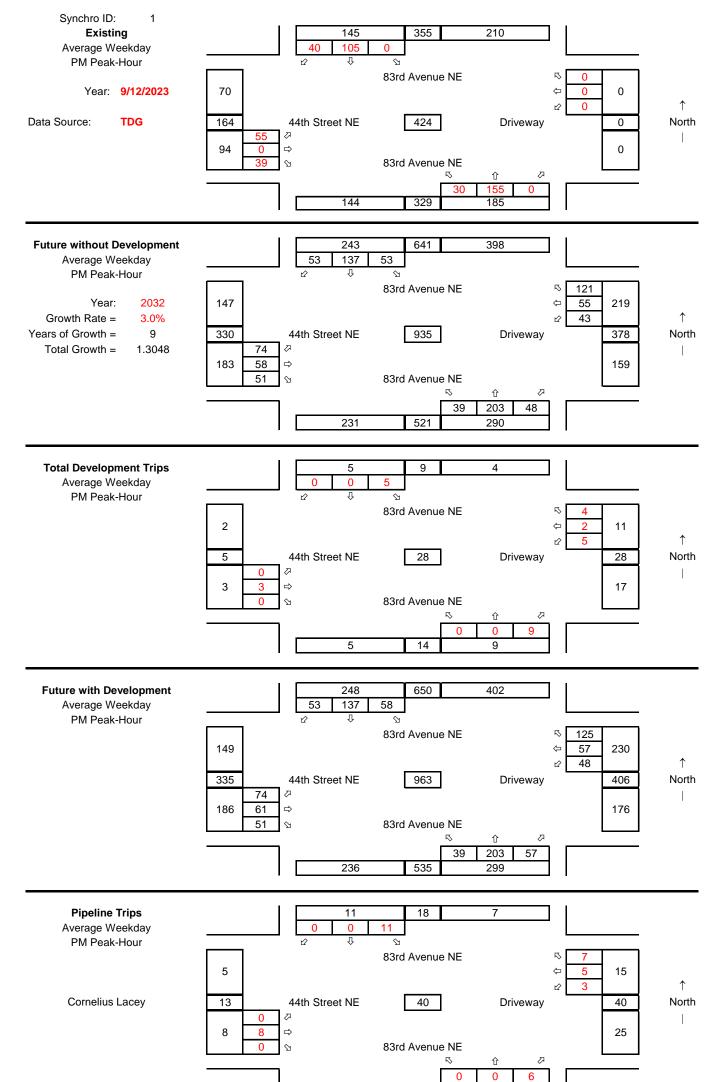
G TRAFFIC DATA GATHERING

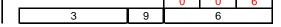
APPENDIX C

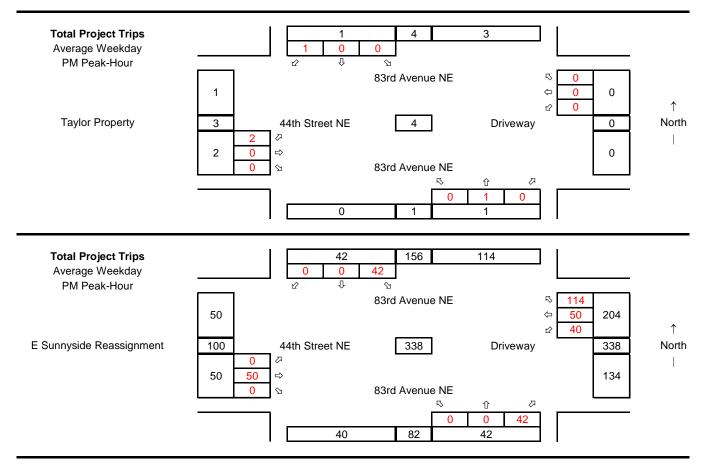
TURNING MOVEMENT CALCULATIONS











APPENDIX D

LEVEL OF SERVICE CALCULATIONS

Adversement EBL EBL EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR ane Configurations -	Intersection													
are Configurations 4 4 4 4 4 4 4 4 traffic Vol, veh/h 55 0 39 0 0 30 155 0 105 40 viture Vol, veh/h 55 0 39 0	Int Delay, s/veh	3												
Tartfic Vol, veh/h 55 0 39 0 0 0 30 155 0 0 105 40 viture Vol, veh/h 55 0 30 155 0 0 105 40 onflicting Peds, #/hr 0 <td>Movement</td> <td>EBL</td> <td>EBT</td> <td>EBR</td> <td>WBL</td> <td>WBT</td> <td>WBR</td> <td>NBL</td> <td>NBT</td> <td>NBR</td> <td>SBL</td> <td>SBT</td> <td>SBR</td> <td></td>	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Value Vol, veh/h 55 0 39 0 0 0 30 155 0 0 105 40 Conflicting Peds, #/n 0 <t< td=""><td>Lane Configurations</td><td></td><td>4</td><td></td><td></td><td>4</td><td></td><td></td><td>4</td><td></td><td></td><td>4</td><td></td><td></td></t<>	Lane Configurations		4			4			4			4		
Sonflicting Peds, #hr 0	Traffic Vol, veh/h	55	0	39	0	0	0			0	0	105	40	
Stop	Future Vol, veh/h	55	0	39	0	0	0	30	155	0	0	105	40	
RT Channelized - None Non	Conflicting Peds, #/hr	0	0	-				0	0	0	0	0	0	
Storage Length - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - 0 - 0 - 0 - 0 - 1 <th1< th=""> 1 1 <th1< th=""> <t< td=""><td>Sign Control</td><td>Stop</td><td>Stop</td><td>•</td><td>Stop</td><td>Stop</td><td></td><td>Free</td><td>Free</td><td></td><td>Free</td><td>Free</td><td></td><td></td></t<></th1<></th1<>	Sign Control	Stop	Stop	•	Stop	Stop		Free	Free		Free	Free		
Yeh in Median Storage, # - 0 - 0 - - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 1 <th1< th=""> 1 1 <th1< td="" th<=""><td></td><td>-</td><td>-</td><td>None</td><td>-</td><td>-</td><td>None</td><td>-</td><td>-</td><td>None</td><td>-</td><td>-</td><td>None</td><td></td></th1<></th1<>		-	-	None	-	-	None	-	-	None	-	-	None	
Grade, % - 0 - 1 <th1< th=""> 1 <th1< th=""> 1 <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Peak Hour Factor 91<	-	e,# -		-	-		-	-		-	-		-	
Heavy Vehicles, % 1 <th1< th=""> 1 <th1< th=""></th1<></th1<>	Grade, %													
Mmit Flow 60 0 43 0 0 0 33 170 0 0 115 44 Algor/Minor Minor2 Minor1 Major1 Major2 Conflicting Flow All 373 373 137 395 395 170 159 0 0 170 0 0 Stage 1 137 137 - 236 236 -														
Major/Minor Minor1 Major1 Major2 Conflicting Flow All 373 373 137 395 395 170 159 0 0 170 0 0 Stage 1 137 137 - 236 236 -	•					-	-		-	-	-			
Conflicting Flow All 373 373 137 395 395 170 159 0 0 170 0 0 Stage 1 137 137 - 236 236 -	Mvmt Flow	60	0	43	0	0	0	33	170	0	0	115	44	
Conflicting Flow All 373 373 137 395 395 170 159 0 0 170 0 0 Stage 1 137 137 - 236 236 -	Major/Minor	linor?		,	Minor1		,	Major1			Major?			
Stage 1 137 137 - 236 236 -			272			205			0			0	0	
Stage 2 236 236 - 159 159 -	-						170	109	0	0	170	0	0	
Dritical Howy 7.11 6.51 6.21 7.11 - - 4.11 - <td< td=""><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td></td<>	-			-			-	-	-	-	-	-	-	
Dritical Hdwy Stg 1 6.11 5.51 -<				6 21			6 21	- / 11	-	-	- / 11	-	-	
Dritical Hdwy Stg 2 6.11 5.51 - 6.11 5.51 -	•						0.21	4.11	_	_	-	_	_	
Follow-up Hdwy 3.509 4.009 3.309 3.509 4.009 3.309 2.209 - - 2.209 - <t< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td></t<>				_			_	_	_	_	_	_	_	
Pot Cap-1 Maneuver 586 559 914 567 543 876 1427 - - 1413 - - Stage 1 869 785 - 769 712 -				3 309			3 309	2 209	-	-	2 209	-	-	
Stage 1 869 785 - 769 712 -									-	-		-	-	
Stage 2 769 712 - 846 768 -	•						-	-	-	-	-	-	-	
Platoon blocked, % -	-			-			-	-	-	-	-	-	-	
Mov Cap-1 Maneuver 574 544 914 530 529 876 1427 - - 1413 - - Mov Cap-2 Maneuver 574 544 - 530 529 - <t< td=""><td></td><td></td><td>• •=</td><td></td><td>•.•</td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td></t<>			• •=		•.•				-	-		-	-	
Nov Cap-2 Maneuver 574 544 - 530 529 - </td <td></td> <td>574</td> <td>544</td> <td>914</td> <td>530</td> <td>529</td> <td>876</td> <td>1427</td> <td>-</td> <td>-</td> <td>1413</td> <td>-</td> <td>-</td> <td></td>		574	544	914	530	529	876	1427	-	-	1413	-	-	
Stage 1 846 785 - 749 693 -	-						-	-	-	-	-	-	-	
Stage 2 749 693 - 806 768 - 1 1	-			-			-	-	-	-	-	-	-	
ICM Control Delay, s 11.3 0 1.2 0 ICM LOS B A	•	749	693	-	806	768	-	-	-	-	-	-	-	
ICM Control Delay, s 11.3 0 1.2 0 ICM LOS B A														
ICM LOS B A	Approach													
								1.2			0			
	HCM LOS	В			A									
/inor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR	Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
·	Capacity (veh/h)			-	-				-	-				
	HCM Lane V/C Ratio			-	-		-	-	-	-				
	HCM Control Delay (s)		0	-		0	0	-	-				
	HCM Lane LOS	,			-				-	-				
	HCM 95th %tile Q(veh)		-	-		-		-	-				

Intersection						
Int Delay, s/veh	3.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1+			÷.
Traffic Vol, veh/h	31	87	167	32	32	125
Future Vol, veh/h	31	87	167	32	32	125
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	NUNE	-	NULLE	-	
Veh in Median Storag		-	0	-	-	0
				-	-	
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	34	96	184	35	35	137
Major/Minor	Minor1	Ν	/lajor1	ſ	Major2	
Conflicting Flow All	409	202	0	0	219	0
Stage 1	202		-	-	-	-
Stage 2	207	-	-	-	-	-
Critical Hdwy	6.43	6.23		_	4.13	_
Critical Hdwy Stg 1	5.43	0.20	_	_	4.10	_
Critical Hdwy Stg 2	5.43	-	-	-	-	-
	3.527	-	-	-	- 2.227	-
Follow-up Hdwy			-	-		-
Pot Cap-1 Maneuver	597	836	-	-	1344	-
Stage 1	830	-	-	-	-	-
Stage 2	825	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		836	-	-	1344	-
Mov Cap-2 Maneuver	580	-	-	-	-	-
Stage 1	830	-	-	-	-	-
Stage 2	802	-	-	-	-	-
5 - 5						
Approach	WB		NB		SB	
HCM Control Delay, s			0		1.6	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	749	1344	-
		-	-	0.173	0.026	-
HCM Lane V/C Ratio						٥
	;)	-	-	10.8	1.0	0
HCM Control Delay (s	;)	-	-	10.8 В	7.8 A	0 A
		-	-	10.8 B 0.6	7.0 A 0.1	A

Intersection														
nt Delay, s/veh	3.3													
Novement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
ane Configurations		4			4			4			4			
raffic Vol, veh/h	70	0	43	0	0	0	33	178	0	0	120	49		
uture Vol, veh/h	70	0	43	0	0	0	33	178	0	0	120	49		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
ign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
T Channelized	-	-	None	-	-	None	-	-	None	-	-	None		
torage Length	-	-	-	-	-	-	-	-	-	-	-	-		
eh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-		
eak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91		
leavy Vehicles, %	1	1	1	1	1	1	1	1	1	1	1	1		
/lvmt Flow	77	0	47	0	0	0	36	196	0	0	132	54		
/ajor/Minor N	Minor2		I	Minor1		I	Major1		I	Major2				
Conflicting Flow All	427	427	159	451	454	196	186	0	0	196	0	0		
Stage 1	159	159	-	268	268	-	-	-	-	-	-	-		
Stage 2	268	268	-	183	186	-	-	-	-	-	-	-		
ritical Hdwy	7.11	6.51	6.21	7.11	6.51	6.21	4.11	-	-	4.11	-	-		
critical Hdwy Stg 1	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-		
Critical Hdwy Stg 2	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-		
ollow-up Hdwy	3.509	4.009	3.309	3.509	4.009	3.309	2.209	-	-	2.209	-	-		
Pot Cap-1 Maneuver	540	521	889	520	503	848	1395	-	-	1383	-	-		
Stage 1	846	768	-	740	689	-	-	-	-	-	-	-		
Stage 2	740	689	-	821	748	-	-	-	-	-	-	-		
latoon blocked, %								-	-		-	-		
lov Cap-1 Maneuver	528	506	889	482	488	848	1395	-	-	1383	-	-		
lov Cap-2 Maneuver		506	-	482	488	_	-	-	-	-	-	-		
•			-			-	-	-	-	-	-	-		
Stage 2	719	669	-	777	748	-	-	-	-	-	-	-		
	EB			WB			NB			SB				
							1.2			0				
ICM LOS	В			A										
/inor Lane/Maior Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR					
			-	_				-	_					
			-	_				-	-					
)						0	-	-					
	/			_				-	_					
	1)		-	_		-		-	_					
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s HCM Lane LOS HCM 95th %tile Q(veh	<u>EB</u> 12.2 B nt	768 669 1395 0.026 7.7 A 0.1	- - - - - 0 A -	WB 0 A NBR	669 748 EBLn1V 625 0.199 12.2 B 0.7	- - - - - 0 A -	- NB 1.2 SBL 1383 - 0 A 0	- - SBT - - - -	- - SBR - - - - -	- - SB 0	-	-		

Intersection						
Int Delay, s/veh	3.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ţ,			ŧ
Traffic Vol, veh/h	45	98	192	41	37	149
Future Vol, veh/h	45	98	192	41	37	149
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		_	0	_	_	0
Grade, %	0, 0	-	0		_	0
Peak Hour Factor	91	- 91	91	- 91	- 91	91
	3	3	3	3	3	3
Heavy Vehicles, %	49		211	45	3 41	3 164
Mvmt Flow	49	108	211	40	41	104
Major/Minor N	Minor1	Ν	/lajor1		Major2	
Conflicting Flow All	480	234	0	0	256	0
Stage 1	234	-	-	-	-	-
Stage 2	246	-	-	-	-	-
Critical Hdwy	6.43	6.23	-	-	4.13	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	_
	3.527	3 327	-	-	2.227	_
Pot Cap-1 Maneuver	543	803	_	_	1303	_
Stage 1	802		_	_	1000	_
Stage 2	793	_	_		_	
Platoon blocked, %	155	-	-	-	-	-
	524	803	-	-	1303	-
Mov Cap-1 Maneuver		003	-	-	1303	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	802	-	-	-	-	-
Stage 2	765	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	11.8		0		1.6	
HCM LOS	В					
	_					
Minor Lano/Major Mun	nt			VBLn1	SBL	SBT
Minor Lane/Major Mvn	nt	NBT				
Capacity (veh/h)		-	-	688	1303	-
HCM Lane V/C Ratio	、	-		0.228		-
HU IVI I ODTROL LIQIQV (C			-	11.8	7.9	0
HCM Control Delay (s))	-				
HCM Lane LOS HCM 95th %tile Q(veh		-	-	B 0.9	A 0.1	A

Intersection													
Int Delay, s/veh	3.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			\$			\$		
Traffic Vol, veh/h	70	3	43	2	2	7	33	178	4	10	120	49	
Future Vol, veh/h	70	3	43	2	2	7	33	178	4	10	120	49	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e.# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	1	1	1	1	1	1	1	1	1	1	1	1	
Mvmt Flow	77	3	47	2	2	8	36	196	4	11	132	54	
		Ū		-	-	Ū						•	
Major/Minor	Minor2		I	Minor1		I	Major1		ſ	Major2			
Conflicting Flow All	456	453	159	476	478	198	186	0	0	200	0	0	
Stage 1	181	181	-	270	270	-	-	-	-	-	-	-	
Stage 2	275	272	-	206	208	-	-	-	-	-	-	-	
Critical Hdwy	7.11	6.51	6.21	7.11	6.51	6.21	4.11	-	-	4.11	-	-	
Critical Hdwy Stg 1	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-	
Follow-up Hdwy		4.009	3.309	3.509	4.009	3.309	2.209	-	-	2.209	-	-	
Pot Cap-1 Maneuver	516	504	889	501	488	846	1395	-	-	1378	-	-	
Stage 1	823	752	-	738	688	-	-	-	-	-	-	-	
Stage 2	733	686	-	798	732	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	495	485	889	458	469	846	1395	-	-	1378	-	-	
Mov Cap-2 Maneuver		485	-	458	469	_	-	-	-	-	-	-	
Stage 1	799	745	-	717	668	-	-	-	-	-	-	-	
Stage 2	703	666	-	745	725	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	12.7			10.6			1.2			0.4			
HCM LOS	В			В									
Minor Lane/Major Mvr	nt	NBL	NBT	NRR	EBLn1V	VRI n1	SBL	SBT	SBR				
Capacity (veh/h)		1395			592	651	1378	001	0011				
HCM Lane V/C Ratio		0.026	-	-	0.215			-	-				
	<u>۱</u>		-	-				-	-				
HCM Control Delay (s)	7.7	0	-	12.7	10.6	7.6	0	-				
HCM Lane LOS		A	A	-	B	B	A	A	-				
HCM 95th %tile Q(veh	1)	0.1	-	-	0.8	0.1	0	-	-				

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ţ,			र्स
Traffic Vol, veh/h	50	98	196	44	37	154
Future Vol, veh/h	50	98	196	44	37	154
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0, // 0	-	Ő	-	-	Ũ
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	55	108	215	48	41	169
	55	100	210	40	41	109
Major/Minor	Minor1	Ν	/lajor1		Major2	
Conflicting Flow All	490	239	0	0	263	0
Stage 1	239	-	-	-	-	-
Stage 2	251	-	-	-	-	-
Critical Hdwy	6.43	6.23	-	-	4.13	-
Critical Hdwy Stg 1	5.43		-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3 327	-	_	2.227	_
Pot Cap-1 Maneuver	536	797	_	_	1295	_
Stage 1	798	-	-	-	1200	_
Stage 2	788	-	-	-	-	-
Platoon blocked, %	100	-	-	-	-	-
	E17	797	-	-	1295	-
Mov Cap-1 Maneuver		191	-	-	1290	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	798	-	-	-	-	-
Stage 2	760	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		1.5	
HCM LOS	B		0		1.0	
	U					
		•			•	
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1295	-
HCM Lane V/C Ratio		-	-	0.241		-
HCM Control Delay (s)	-	-	12	7.9	0
HCM Lane LOS		-	-	В	А	А
HCM 95th %tile Q(ver	ı)	-	-	0.9	0.1	-
	·,			5.5	5.1	

Intersection													
Int Delay, s/veh	11.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		- 4			- 44			4			- 44		
Traffic Vol, veh/h	74	58	51	43	55	121	39	203	48	53	137	53	
Future Vol, veh/h	74	58	51	43	55	121	39	203	48	53	137	53	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	1	1	1	1	1	1	1	1	1	1	1	1	
Mvmt Flow	81	64	56	47	60	133	43	223	53	58	151	58	
Major/Minor	/linor2			Minor1			Major1		ſ	Major?			
Major/Minor Conflicting Flow All	728	658	180	692	661	250	Major1 209	0	0	Major2 276	0	0	
•	728 296	658 296	180	692 336	336	200	209	U	U	210	U	U	
Stage 1 Stage 2	290 432	296 362		356 356	330 325	-	-	-	-	-	-	-	
Critical Hdwy	432 7.11	502 6.51	- 6.21	350 7.11	525 6.51	- 6.21	- 4.11	-	-	- 4.11	-	-	
Critical Hdwy Stg 1	6.11	5.51	0.21	6.11	5.51	U.Z I	4.11	-	-	4.11	-	-	
Critical Hdwy Stg 2	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-	
Follow-up Hdwy	3.509	4.009	3.309	3.509	4.009	3.309	2.209	-	_	2.209	-		
Pot Cap-1 Maneuver	340	385	865	360	384	791	1368	-	-	1293	-	-	
Stage 1	715	670	- 005	680	644	731	1000	_		1200	_		
Stage 2	604	627	_	664	651			_		_	_		
Platoon blocked, %	004	021		004	001			_			_		
Mov Cap-1 Maneuver	230	352	865	271	351	791	1368	_		1293	_		
Mov Cap-1 Maneuver	230	352	- 005	271	351	-	1000	-	-	-	-	-	
Stage 1	689	636	-	655	620	-	-	-	-	-	-	-	
Stage 2	437	604	-	530	618	-	-	-	-	-	-	-	
010902	401	004		000	010								
Approach	EB			WB			NB			SB			
HCM Control Delay, s	30.7			20.6			1			1.7			
HCM LOS	D			С									
Minor Lane/Major Mvm	t	NBL	NBT	NBR	EBLn1V	WBI n1	SBL	SBT	SBR				
Capacity (veh/h)	•	1368			335	468	1293						
HCM Lane V/C Ratio		0.031	-	-				-	-				
HCM Control Delay (s)		7.7	0	-	30.7	20.6	7.9	0	-				
HCM Lane LOS		A	A	-	50.7 D	20.0 C	7.5 A	A	-				
		л		-	0	U U	л		-				

Intersection													
Int Delay, s/veh	12.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		- 4 >			- 42			- 44			- 4 >		
Traffic Vol, veh/h	74	61	51	48	57	125	39	203	57	58	137	53	
Future Vol, veh/h	74	61	51	48	57	125	39	203	57	58	137	53	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	1	1	1	1	1	1	1	1	1	1	1	1	
Mvmt Flow	81	67	56	53	63	137	43	223	63	64	151	58	
Major/Minor	Minor2			Minor1			Major1			Major2			
Conflicting Flow All	749	680	180	711	678	255	209	0	0	286	0	0	
Stage 1	308	308	-	341	341	-	-	-	-	-	-	-	
Stage 2	441	372	-	370	337	-	-	-	-	-	-	-	
Critical Hdwy	7.11	6.51	6.21	7.11	6.51	6.21	4.11	-	-	4.11	-	-	
Critical Hdwy Stg 1	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.11	5.51	-	6.11	5.51	-	-	-	-	-	-	-	
Follow-up Hdwy	3.509	4.009	3.309	3.509	4.009	3.309	2.209	-	-	2.209	-	-	
Pot Cap-1 Maneuver	329	374	865	349	375	786	1368	-	-	1282	-	-	
Stage 1	704	662	-	676	640	-	-	-	-	-	-	-	
Stage 2	597	621	-	652	643	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	217	339	865	258	340	786	1368	-	-	1282	-	-	
Mov Cap-2 Maneuver	217	339	-	258	340	-	-	-	-	-	-	-	
Stage 1	677	624	-	650	616	-	-	-	-	-	-	-	
Stage 2	426	597	-	513	606	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	34			22.9			1			1.9			
HCM LOS	D			С									
Minor Lane/Major Mvm	ht	NBL	NBT		EBLn1\	N/RI n1	SBL	SBT	SBR				
	it.		INDÍ	NDK					JDK				
Capacity (veh/h)		1368	-	-	321	449	1282	-	-				
HCM Lane V/C Ratio		0.031	-	-		0.563	0.05	-	-				
HCM Control Delay (s)		7.7	0	-	34	22.9	8	0	-				
HCM Lane LOS	Ň	A	A	-	D	C	A	A	-				
HCM 95th %tile Q(veh))	0.1	-	-	4.1	3.4	0.2	-	-				