

# Opus Transport Apartments

(Albuquerque, New Mexico)

**Traffic Impact Study** 

August 2, 2024

FINAL

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#### **Opus Transport Apartment**

# Flightway Ave. at University Blvd, in Albuquerque, NM Traffic Impact Study Update

## **Executive Summary**

The purpose of this Traffic Impact Study (TIS) is to evaluate the transportation conditions before and after implementation of the proposed Opus Transport Apartment Development, to determine the impact of the site development on the adjacent transportation system, and then recommend improvements where necessary. This TIS is prepared in accordance with the requirements set forth by the City of Albuquerque (COA).

## **Project Scope**

The traffic impact study (TIS) scoping meeting was held on March 28, 2024. The attendees include Matthew Grush, P.E. (City of Albuquerque), Ronald R. Bohannan, P.E. (Tierra West LLC.), Terry Brown P.E. (Tierra West LLC.), Derek Bohannan (Tierra West LLC.), Jon Niski (Tierra West LLC.), Vinny Perea (Tierra West LLC.), and Jimeia Roberts (Tierra West LLC.). The City of Albuquerque scoping letter for the Opus Transport Apartment Development TIS is in Appendix 02.

#### **Proposed Site Location**

The proposed Opus Transport Apartment site will be located east of Transport St. north of Woodward Rd., south of Flightway Ave. and west of University Blvd. in the City of Albuquerque, New Mexico, shown on Figure 1: Opus Transport Apartments Vicinity Map.



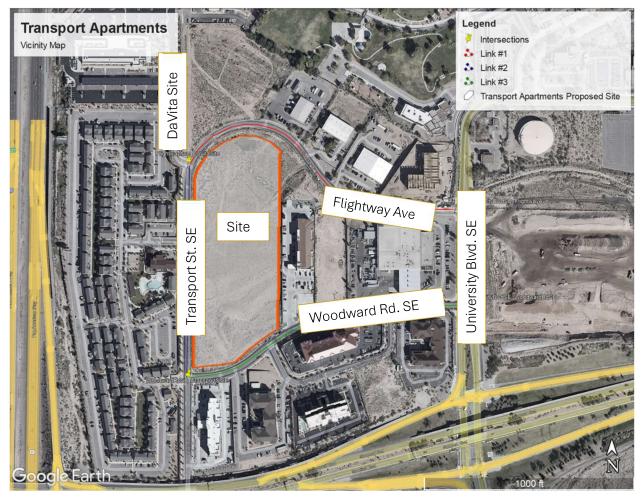


Figure 1: Opus Transport Apartments Vicinity Map

#### **Proposed Study Area**

The study area includes the four intersections and two access points for the Transport Apartments Development shown on Figure 2: Opus Transport Apartments Intersection Reference Map and listed below:

- 1. Flightway Ave. at University Blvd. (Unsignalized)
- 2. Woodward Rd. at University Blvd. (Unsignalized)
- 3. Woodward Rd. at Transport St. (Unsignalized)
- 4. DaVita Access & Transport St. (Unsignalized)
- 5. Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)
- 6. Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)

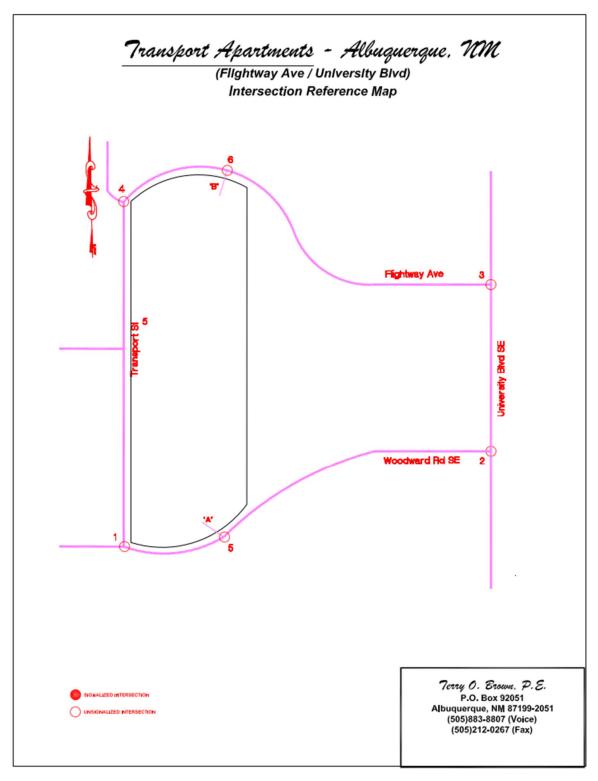


Figure 2: Opus Transport Apartments Intersection Reference Map (Tierra West LLC, 2024)

#### **Proposed Site Description**

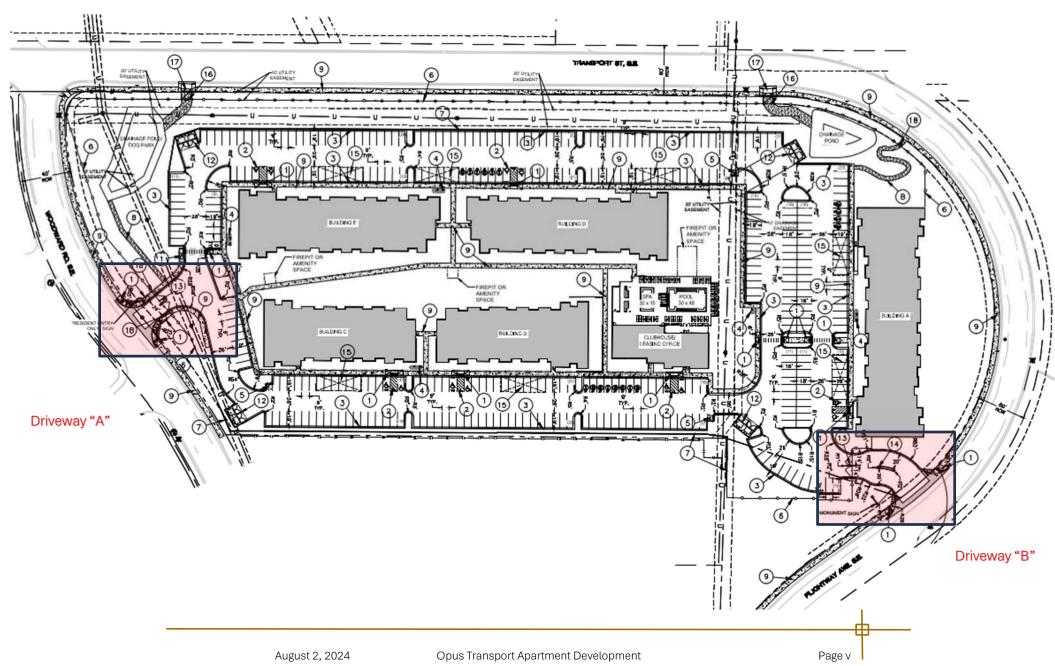
The approximately 9.3-acre Opus Transport Apartments is proposed to be fully developed for the Implementation Year of 2025 and evaluated for the Horizon Year of 2035. The site will generate residential trips.

The proposed site is to be developed with the following facilities:

- 164-units Multifamily Housing (Mid Rise)
- 90-units Multifamily Housing (Low Rise)
- 5,140 sq-ft. Single Tenant Office Building

The proposed site plan is shown on the next page and in Appendix 03.





## **Analysis of Existing Conditions**

#### **Crash Analysis**

Crash data for the study area was collected for the years 2018, 2019, 2020, 2021, and 2022. The crash data was taken from the New Mexico Department of Transportation's (NMDOT) statewide database. The crash history data was collected for the intersections surrounding the Opus Transport Apartments. Based on the low number of crashes reported over the recent five-year period (35 crashes), this report finds that there are no significant safety issues in the study area. Table 1: Opus Transport Apartments Crash Analysis Summary below summarizes the crashes by year and by crash attributes:

Table 1: Opus Transport Apartments Crash Analysis Summary

# Crash Analysis Summary Table Transport Apartments (Flightway Ave /University Blvd)

#### Crash Data from (IPRA) Internal Request

CRASH TYPE			irection			PERCENTAGE			Year			SUBTOTAL	PERCENTAGE
CRASH ITPE	E	W	N	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
BACKING UP	1	0	0	0	0	3%	0	0	1	0	2	3	9%
FIXED OBJECT	1	0	1	3	1	18%	0	2	1	2	0	5	16%
LEFT-TURN ANGLE	0	1	0	0	0	3%	1	0	0	0	0	1	3%
PARKED VEHICLE	1	0	1	3	0	15%	2	0	2	0	0	4	13%
RIGHT-TURN-ANGLED	0	0	0	1	0	3%	1	2	0	0	0	3	9%
HEAD-ON COLLISION	1	2	0	1	1	15%	2	0	0	1	0	3	9%
REAR-END	0	0	1	0	0	3%	1	0	0	0	1	2	6%
SIDESWIPE LL	1	0	0	0	0	3%	0	0	1	0	1	2	6%
SIDESWIPE RL	3	0	2	1	0	18%	0	1	1	2	2	6	19%
T-BONE	0	2	0	1	0	9%	0	0	0	0	1	1	3%
OTHER	1	0	0	1	0	6%	1	0	0	1	1	3	9%
UNKNOWN	0	0	0	0	3	9%	0	2	0	0	0	2	6%
SUBTOTAL	8	5	5	11	5	100%	8	7	5	6	6	35	100.00%

Based on MUTCD warrant 7 criteria the number of crashes based on type did not exceed five or more within a 12-month period. There were no fatalities and majority of the crashes resulted in property damage based on Table 2: Crash Analysis Attributes Summary Table. The summarized crash analysis tables are attached in Appendix 12.

### **Crash Analysis Summary Table**

# Transport Apartments Crash Data from IPRA

ODAOU TVDE			Year		PERCENTAGE		
CRASH TYPE	2018	2019	2020	2021	2022	SUBTOTAL	CRASH TYPE
ALCOHOL INVOLVED	0	0	1	0	1	2	3.1%
CURVE	1	1	0	0	1	3	4.6%
DARK-LIGHTING	1	1	2	0	2	6	9.2%
DARK-NOT LIGHTING	0	1	0	0	1	2	3.1%
FATALITY	0	0	0	0	0	0	0.0%
HEAVY TRUCK	1	1	0	0	0	2	3.1%
HILL CREST	1	0	0	0	1	2	3.1%
HIT-AND-RUN	1	3	3	2	2	11	16.9%
INJURY	3	0	2	1	2	8	12.3%
PROPERTY DAMAGE	5	7	4	5	6	27	41.5%
RAINING	1	0	0	0	0	1	1.5%
WORKZONE	0	0	0	0	1	1	1.5%
SUBTOTAL	14	14	12	8	17	65	100.0%

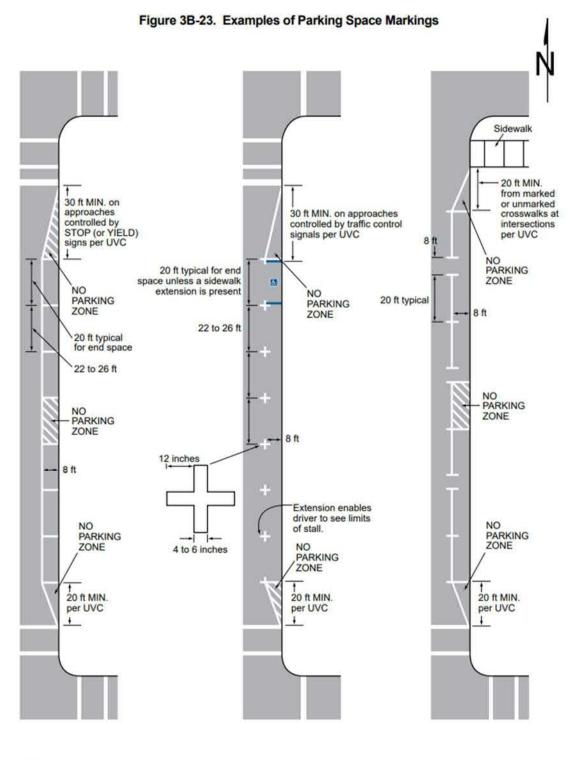
#### **Improvement to Existing Conditions**

Regulations are in place by the Federal Aviation Administration regarding the installation of reflective pavement markings, traffic signs, and roadway lighting in order to protect the safety of aircraft operators. The proposed site location has only a small portion of the property within the Airport Protection Overlay zone on the southeast corner of the parcel. The recommendation for striping is for areas within the zone must meet the United States Department of Transportation Federal Aviation Administration 'Advisory Circular' Chapter 5. Other Surface Markings Section 5.2 Vehicle Roadway Markings.

The recommendation is to continue on-street parking along Transport St. on the east and west sides, as well as recommended improvements to the existing on-street pavement marking. Improvements include the striping of the parking space to meet Figure 3: MUTCD Section 3B-02 Warrants for Yellow Center Lines standard applies the following:

On-street parking space markings shall be white.





Sect. 3B.27 December 2023

Figure 3: MUTCD Section 3B-02 Warrants for Yellow Center Lines

## **Traffic Impact Analysis**

#### **Trip Generation**

The ITE Codes used for the proposed Opus Transport Apartments include the following: ITE Code 221 (Multifamily Housing (Mid-Rise)), ITE Code 220 (Multifamily Housing (Low-Rise)), and ITE Code 715 (Single Tenant Office Building). Table 3: Opus Transport Apartments Trip Generations Data summary is below and attached in Appendix 04.

Table 3: Opus Transport Apartments Trip Generations Data (Tierra West LLC, 2024)

# Transport Apartments (2900 Transport St) Trip Generation Data (ITE Trip Generation Manual - 11th Edition)

USE (ITE CODE)	24 HR VOL	A. M. PEAK HR.		P. M. PEAK HR.		
DESCRIPTION		GROSS	ENTER	EXIT	ENTER	EXIT
Summary Sheet	Units					
Multifamily Housing (Mid-Rise)	164.00	745	14	47	39	25
Multifamily Housing (Low-Rise)	90.00	607	9	27	37	22
Single Tenant Office Building (715)	5.14	67	8	1	1	8
Subtotal		1,419	31	75	77	55

#### **Intersection Analysis Summary**

Background traffic volumes were calculated by applying historical annual background traffic growth rates to the existing traffic volumes for the implementation year. Existing traffic volumes were collected while school was in session during the month of April of the year 2024. The summarized traffic volumes are attached in Appendix 05. Turn movements for 2025 implementation year and 2035 horizon year can be found in Appendix 08 and Appendix 09, respectively.

The results of the Implementation Year (2025) and Horizon Year (2035) APH and PPH NO BUILD and BUILD conditions are summarized in Table 4: Intersection LOS Analysis Summary Table. All intersections within the study area are performing at a LOS B or above.

### **Intersection LOS Analysis Summary Table**

### **Transport Apartments**

(Flightway Ave /University Blvd)

	Intersection Description	Intersection Operation	Case Evaluation	Implementation Yea	ar (2025) Conditions PM Peak LOS - Delay (s)	Horizon Year (2 AM Peak LOS -Delay (s)	035) Conditions PM Peak LOS -Delay (s)
1	Flightway Ave. / University Blvd.	Unsignalized	No Build Build	A (1.3) A (1.8)	A (1.6) A (2.2)	A (1.4) A (1.8)	A (1.7) A (2.3)
	Diva.		No Build	A (3.1)	A (8.0)	A (3.4)	B (11.1)
2	Woodward Rd. / University	Unsignalized	Build	A (4.0)	C (21.2)	A (4.5)	C (21.2)
	Blvd.		Mitigated	A (3.0)	A (5.6)	A (3.1)	A (6.9)
3	Woodward Rd. / Transport	Unaignalizad	No Build	A (7.1)	A (7.1)	A (7.1)	A (7.1)
3	St.	Unsignalized	Build	A (7.2)	A (7.2)	A (7.2)	A (7.2)
-	Woodward Rd. / Driveway	l la sieu siisa d	Build	A (1.8)	A (1.3)	A (1.8)	A (1.2)
5	"A"	Unsignalized	Mitigated	A (1.8)	A (1.3)	A (1.8)	A (1.2)
6	Flightway Ave. / Driveway	Unaignalizad	Build	A (2.1)	A (2.0)	A (1.8)	A (1.9)
6	"B"	Unsignalized	Mitigated	A (2.1)	A (2.0)	A (2.0)	A (1.9)

The LOS at the unsignalized intersection of Woodward Rd. at University Blvd. during the 2025 PM Peak Hour period does not meet the minimum City of Albuquerque LOS E requirement. As a result, a Peak Hour Signal Warrant (Warrant 3) was performed for the intersection.

The guidelines in the Manual on Uniform Traffic Control Devices (MUTCD) for Warrant #3 are as follows:

Section 4C.04 Warrant 3, Peak Hour

Support:

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

Standard:

This signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time.

The need for a traffic control signal shall be considered if an engineering study finds that the criteria in either of the following two categories are met:

- A. If all three of the following conditions exist for the same 1 hour (any four consecutive 15-minute periods) of an average day:
  - 1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach; and
  - 2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes; and
  - 3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.
- B. The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for 1 hour (any four consecutive 15-

minute periods) of an average day falls above the applicable curve in Figure 4C-3 for the existing combination of approach lanes.

Option:

If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, Figure 4C-4 may be used in place of Figure 4C-3 to evaluate the criteria in the second category of the Standard.

If this warrant is the only warrant met and a traffic control signal is justified by an engineering study, the traffic control signal may be operated in the flashing mode during the hours that the volume criteria of this warrant are not met.

The total stopped delay at the intersection of Woodward Rd. at University Blvd. during the implementation year (2025) PPH is 5.36 hours (see Equation 1: Warrant 3 below) considering build volume conditions. Therefore, the intersection meets criterion A.1.

The one lane eastbound approach volume at the intersection is 267 vehicles per hour during the implementation year PPH considering build volume conditions. Therefore, the second criterion (A.2) is met.

For the three approaches the total volume of traffic entering the intersection during the implementation year (2025) PPH is 1903 vehicles considering build volume conditions. Therefore, the third criterion (A.3) is met.

Equation 1: Warrant 3

$$72.3 \frac{sec}{vehicle} * 1903 vehicles * \frac{1 hour}{3600 seconds}$$
$$= 5.36 vehicle - hours$$

The Peak Hour Graph is shown on Appendix 13 which demonstrates that the peak volumes during the implementation year (2025) PPH build volume conditions do meet the volume warrant. Therefore, the intersection meets criterion B.

This study demonstrates that the Peak Hour Volume criteria for a Traffic Signal is warranted. However, a signal is not recommended at this location for the following reasons:

1) The intersection of Woodward Rd. / University Blvd. is only 430 feet north of the existing signalized ramp at Sunport Blvd. / University Blvd. Signal spacing would not be adequate if a signal were to be constructed at Woodward Rd. Based on Table 5: Table 18.C-1 Access Spacing Standards for

Intersections and Driveways the driveway meets the minimal access spacing standards of 330 ft for full access driveways or unsignalized intersections with non-traversal median, however it does not meet the minimum access spacing standards of 1,100 ft for signalized intersections.

Table 5: Table 18.C-1 Access Spacing Standards for Intersections and Driveways

	Access Spa		Table 18.C-1 ards for Inters to centerline spa	sections and	Driveways			
Intersection Spacing (feet) <sup>1</sup> Driveway Spacing (feet) <sup>2</sup>								
		intersection	spacing (leet)	Non-Traversa	Traversable			
Access Category	Posted Speed (mph)	Signalized Unsignalized <sup>3</sup>		Full Access	Partial Access	Median <sup>4</sup>		
Controlled- Access, Non-Interstate Highways	All Speeds	5,280	2,640	2,640	2,640	-NA-		
UPA	≤ 30 mph	2,640	1,320	1,320	200	200		
	35 to 40 mph	2,640	1,320	1,320	325	325		
	45 to 50 mph	2,640	1,320	1,320	450	450		
	≥ 55 mph	5,280	1,320	1,320	625	625		
UMA	≤ 30 mph	1,760	660	660	175	175		
	35 to 40 mph	1,760	660	660	275	275		
	45 to 50 mph	2.640	660	660	400	400		
	≥ 55 mph	5,280	1,320	1,320	600	600		
UCOL	≤ 30 mph	1,100	330	330	150	150		
	35 to 40 mph	1,320	330	330	225	225		
	45 to 55 mph	1,760	660	660	350	350		
RPA	≤ 30 mph	2,640	1,320	1,320	225	225		
	35 to 40 mph	2.640	1,320	1,320	350	350		
	45 to 50 mph	5,280	2,640	2,640	500	500		
	≥ 55 mph	5,280	2,640	2,640	775	775		
RMA	≤ 30 mph	1,760	660	660	200	200		
	35 to 40 mph	2,640	660	660	325	325		
	45 to 50 mph	2,640	1,320	1,320	450	450		
	≥ 55 mph	5,280	2,640	2,640	725	725		
RCOL	≤ 30 mph	1,320	330	330	200	200		
	35 to 40 mph	1,760	660	660	300	300		
	45 to 50 mph	2.640	1.320	1,320	425	425		
	≥ 55 mph	2.640	1,320	1.320	550	550		

2) The calculated average delay for the 2025 PPH implementation year build conditions is about 72 seconds (slightly over one minute). While, this is considered to be level-of-service "F" (more than 50 seconds of delay), it is still less delay than many intersections and driveways onto major streets in Albuquerque. The 72-second delay is expected to increase to 104 seconds of delay for the side street by the year 2035, but that does not take into account the fact that autonomous vehicles will be populating our roadways over the next ten years and, as autonomous vehicles become more and more prevalent, it will increase the capacities of the intersection over time. Thus, the projected 104 second calculated delay will likely be somewhat less.

The new Highway Capacity Manual (7<sup>th</sup> Edition) allows for the ideal saturation flow rate to be increased as a result of the implementation of autonomous vehicles. Thus, the capacity of the roadway system and intersections will be increased incrementally based on the percentage of autonomous vehicles on the roadway.

#### **Mitigation Analysis**

The results of the intersection analysis for the unsignalized intersection of Woodward Rd. at University Blvd. are characterized by a failing LOS F, long delays surpassing 2 minutes, and a V/C ratio exceeding 1.0 for the PPH during the horizon year build volume conditions. The scenario indicates that the unsignalized intersection is slightly congested because of the projected traffic volumes generated by the University Blvd. southbound during the horizon year build volumes. With the additional growth in volumes from the proposed development, the projected delay for the horizon year (2035) increases the PPH intersection delay by 5.9 seconds and the intersection delay remains LOS "C." The existing lane geometry of the Woodward Rd at University Blvd. intersection demonstrate the eastbound left-turn and eastbound right-turn movements are currently striped as one eastbound lane.

Although the existing geometry has one shared eastbound lane, there is sufficient pavement width for expansion to an additional eastbound lane which would separate the turning movements. It is proposed to eliminate the existing on-street parking striping and use this existing pavement section as an additional left-turn lane as well as provide improvements to the stop bar striping of the intersection. These improvements also include the elimination of the on-street parking along the north and south side of Woodward Rd. This can be seen in Figure 4: Proposed Striping and Intersection Mitigation below and attached in Appendix A-03.

The mitigations provided for this intersection include implementing an additional eastbound left lane. The analysis of this report concludes that improving the intersection geometry of Woodward Rd. at University Blvd. intersection improves the Level of Service from a LOS "C" to a LOS "A."

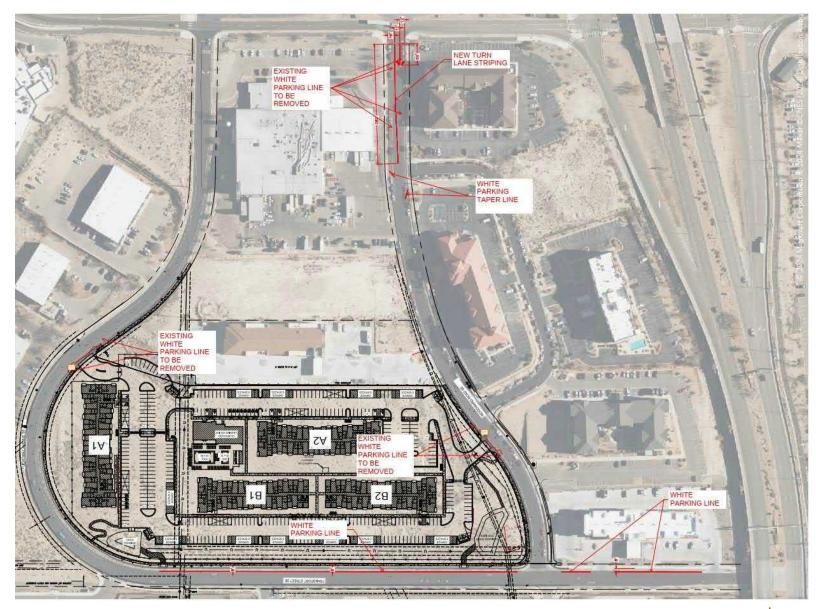




Figure 4: Proposed Striping and Intersection Mitigation

#### **Recommendations**

Based on the LOS increase generated by the volume growth estimated during the implementation and horizon years it is recommended to perform a peak-hour warrant study for the unsignalized intersections of Woodward Rd. at University Blvd. Performing a peak hour signal warrant analysis would provide indications of whether the forecast volume would meet the warrant requirements. However, it should be noted that an intersection that meets the warrant requirements does not mandate installation of a traffic signal.

The intersection of Woodward Rd. at University Blvd. meets the Warrant 3 (Peak Hour) requirements. However, due to the proximity to the signalized intersection of Sunport Blvd. at University Blvd. a new signal is not recommended. Peak hour signal warrant spreadsheet is available in the Appendix 13. To mitigate the delays, it is recommended to remove existing on street parking along both the north and south sides of Woodward Rd. from the stop bar to 265 ft west, then add an eastbound left-turn lane. The striping and lane configuration is available in Appendix 13.

New on-street parking striping is recommended along the east side of Transport St. This will create an opportunity for additional parking for surrounding commercial lodging and residential housing. All new construction associated with this project shall maintain adequate sight distances at driveways and intersections.

This project can be accessed with the two proposed driveways shown on the site plan. Both driveways can be constructed with one entering lane and one existing lane.

# Table of Contents

Executive Summary	
Project Scope	
Proposed Site Location	
Proposed Study Area	i
Proposed Site Description	i\
Analysis of Existing Conditions	V
Crash Analysis	V
Improvement to Existing Conditions	vi
Traffic Impact Analysis	i>
Trip Generation	i>
Intersection Analysis Summary	i>
Mitigation Analysis	xiv
Recommendations	XV
List of Equations	xi>
List of Figures	xi>
List of Tables	xi>
Introduction	1
Project Scope	2
Analysis of Existing Conditions	4
Existing and Planned Zoning	4
Existing Alternative Travel Modes	ε
Existing Traffic Volumes	8
Existing Roadway System	8
#1 – Unsignalized Intersection of Flightway Ave. at University Blvd	C
#2 – Unsignalized Intersection of Woodward Rd. at University Blvd	1C
#3 – Unsignalized Intersection of Woodward Rd. at Transport St	11
#4 – Unsignalized Intersection of DaVita Access & Transport St	12
Improvements to Existing Conditions	13
Existing Land Use and Site Access	16
#5 – Unsignalized Intersection of Woodward Rd. at Driveway "A"	16
#6 – Unsignalized Intersection of Flightway Ave. & Driveway "B"	16

	Crash Analysis	16
Ar	nalysis of Implementation Year and Horizon Year Conditions	17
	Description of Proposed Development	17
	Trip Generation	19
	Traffic Volume Projections	19
	Trip Distribution and Trip Assignments	19
	Intersection Analysis	22
	Level of Service (LOS)	22
	#1 – Unsignalized Intersection of Flightway Ave. at University Blvd	23
	#2 – Unsignalized Intersection of Woodward Rd. at University Blvd	26
	#3 – Unsignalized Intersection of Woodward Rd. at Transport St	30
	#4 – Unsignalized Intersection of DaVita Access & Transport St	32
	#5 – Unsignalized Intersection of Woodward Rd. at Driveway "A"	33
	#6 – Unsignalized Intersection of Flightway Ave. & Driveway "B"	36
	Intersection Analysis Summary	39
	Mitigation Analysis	44
Re	ecommendations	46
Bi	bliography	47
Αŗ	ppendices	48
	Appendix 01	51
	Appendix 02	52
	Appendix 03	53
	Appendix 04	54
	Appendix 05	55
	Appendix 06	56
	Appendix 07	57
	Appendix 08	58
	Appendix 09	59
	Appendix 10	60
	Appendix 11	61
	Appendix 12	62
	Appendix 13	63

# List of Equations

Equation 1: Warrant 3	xii
Equation 2: Warrant 3	42
List of Figures	
Figure 1: Opus Transport Apartments Vicinity Map	ii
Figure 2: Opus Transport Apartments Intersection Reference Map (Tierra West LLC, 2024)	iii
Figure 3: MUTCD Section 3B-02 Warrants for Yellow Center Lines	viii
Figure 4: Proposed Striping and Intersection Mitigation	XV
Figure 5: Opus Transport Apartments Vicinity Map	1
Figure 6: Opus Transport Apartments. Intersection Reference Map (Tierra West LLC, 2024)	3
Figure 7: Opus Transport Apartments Zone Atlas Map	5
Figure 8: Futures Long Range Bikeway System	6
Figure 9: ABQ Ride System Map	7
Figure 10: Futures 2040 Maps for Long Range Roadway Systems Map	9
Figure 11: Unsignalized Intersection Areial Flightway Ave. at University Blvd.	10
Figure 12: Unsignalized Intersection Areial of Woodward Rd. at University Blvd.	11
Figure 13: Unsignalized Intersection of Woodward Rd. at Transport St.	12
Figure 14: Unsignalized Intersection of DaVita Access and Transport St. (Google, 2024)	13
Figure 15: MUTCD Section 3B-02 Warrants for Yellow Center Lines	15
Figure 16: Subarea Map	20
Figure 17: Proposed Striping and Intersection Mitigation	45
List of Tables	
Table 1: Opus Transport Apartments Crash Analysis Summary	vi
Table 2: Crash Analysis Attributes Summary Table	vii
Table 3: Opus Transport Apartments Trip Generations Data (Tierra West LLC, 2024)	ix
Table 4: Intersection LOS Analysis Summary Table	x

Table 5: Table 18.C-1 Access Spacing Standards for Intersections and Drivewaysxiii
Table 6: Opus Transport Apartments Crash Analysis Summary
Table 7: Crash Analysis Attributes Summary Table
Table 7: Opus Transport Apartments Trip Generations Data (Tierra West LLC, 2024)19
Table 9: Trip Distribution21
Table 10: Design Process Manual LOS Criteria23
Table 11: 2025 Implementation Year Flightway Ave. at University Blvd. AM Peak LVAM Summary24
Table 12: 2035 Horizon Year Flightway Ave. at University Blvd. LVAM Summary25
Table 13: 2025 Implementation Year Woodward Rd. at University Blvd. LVAM Summary27
Table 14: 2035 Horizon Year Woodward Rd. at University Blvd. LVAM Summary28
Table 15: 2025 Implementation Year Woodward Rd. at Transport St. LVAM Summary31
Table 16: 2035 Horizon Year Woodward Rd. at Transport St. LVAM Summary32
Table 17: 2025 Implementation Year Woodward Rd. at Driveway "A" LVAM Summary34
Table 18: 2035 Horizon Year Woodward Rd. at Driveway "A" LVAM Summary35
Table 19: 2025 Implementation Year Flightway Ave. at Driveway "B" LVAM Summary37
Table 20: 2035 Horizon Year Flightway Ave. at Driveway "B" LVAM Summary38
Table 21: Intersection LOS Analysis Summary Table40
Table 22: Access Spacing Standards for Intersections and Driveways

#### **Opus Transport Apartment**

# Flightway Ave. at University Blvd, in Albuquerque, NM Traffic Impact Study Update

#### Introduction

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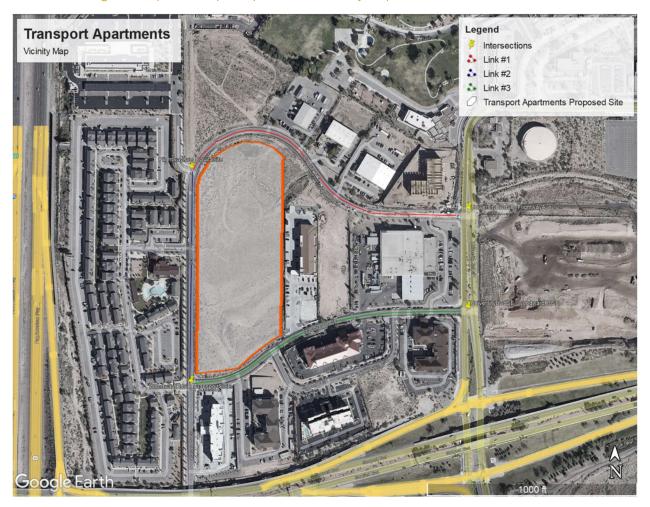


Figure 5: Opus Transport Apartments Vicinity Map

# **Project Scope**

The traffic impact study (TIS) scoping meeting was held on March 28, 2024. The attendees include Matthew Grush, P.E. (City of Albuquerque), Ronald R. Bohannan, P.E. (Tierra West LLC.), Terry Brown P.E. (Tierra West LLC.), Derek Bohannan (Tierra West LLC.), Jon Niski (Tierra West LLC.), Vinny Perea (Tierra West LLC.), and Jimeia Roberts (Tierra West LLC.).

At the scoping meeting, it was determined that the study area for the TIS would include the four unsignalized intersections and two access points listed below and shown on Figure 6: Opus Transport Apartments. Intersection Reference Map. The City of Albuquerque scoping letter for this TIS is on Appendix 02.

- 1. Flightway Ave. at University Blvd. (Unsignalized)
- 2. Woodward Rd. at University Blvd. (Unsignalized)
- 3. Woodward Rd. at Transport St. (Unsignalized)
- 4. DaVita Access & Transport St. (Unsignalized)
- 5. Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)
- 6. Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)

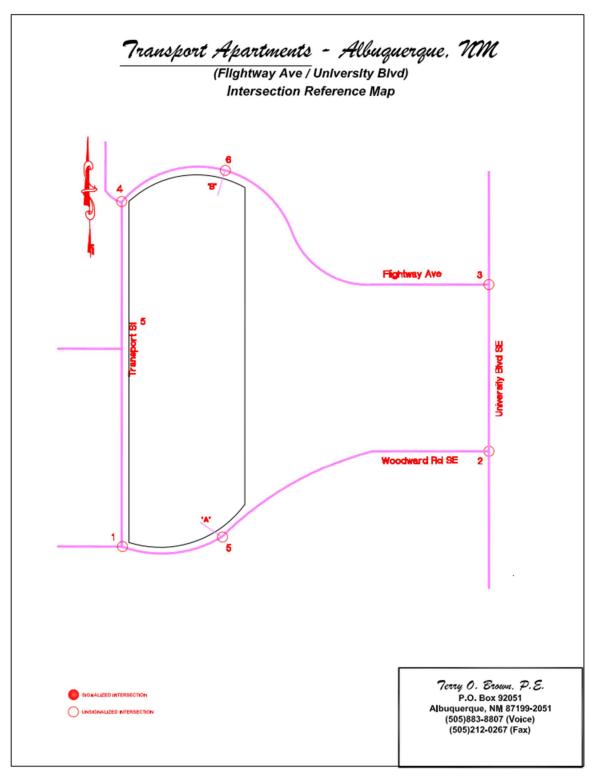


Figure 6: Opus Transport Apartments. Intersection Reference Map (Tierra West LLC, 2024)

# **Analysis of Existing Conditions**

# **Existing and Planned Zoning**

The proposed site location is currently zoned as a Non-Residential (NP) Business Park (BP). NR\_BP zone district is to accommodate a wide range of nonresidential uses in campus-like settings to buffer potential impacts on surrounding uses and adjacent areas. The proposed site also has an Airport Protection Overlay (APO) zone 3-3, which regulates airspace protection sub area. APO requires that land use and development at or around the airport facilities comply with the regulations of the Federal Aviation Administration (FAA) that protect the public from noise, vibration, and hazard impacts of airport operations and that protect the safety of aircraft operators. Additional reflective pavement marking, nor roadway lighting is not recommended at this time pertaining to the proposed driveway access to the Opus Transport Apartments. See Figure 7: Opus Transport Apartments Zone Atlas Map below and Appendix 01.

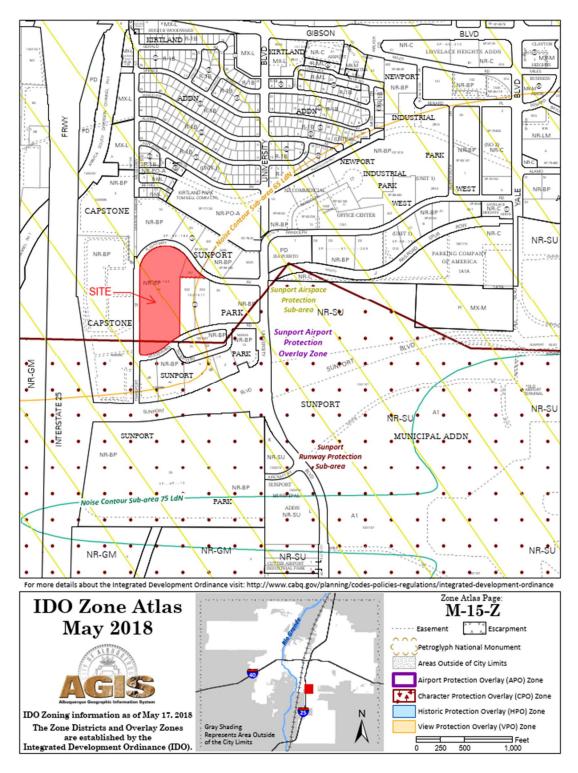


Figure 7: Opus Transport Apartments Zone Atlas Map

# **Existing Alternative Travel Modes**

The Long Range Bikeway System indicates the University Blvd. has an existing paved trail along the west side of the roadway from Aircraft Ave. SE south and Randolph Rd. SE north. University Blvd. also has a proposed bike lane on the east side of the roadway from north of Sunport Blvd. SE to Randolph Rd. SE. There is a proposed paved trail along Flightway Ave. SE to just east of the proposed site location. A proposed bike route continues from the proposed site location along Flightway Ave. then transitions southbound along Transport St. SE. An existing paved trail is parallel to the DaVita Site Access. See Figure 8: Futures Long Range Bikeway System below and Appendix 01.



Portion of Futures 2040 Long Range Bikeway System (from Mid-Region Council of Governments)

Figure 8: Futures Long Range Bikeway System

Long Range Transit Network has a secondary transit route that runs northbound and southbound along University Blvd. SE. The route name is Rio Bravo Blvd.-Sunport KAFB (222) and route code S5. See Figure 9: ABQ Ride System Map below and Appendix 01.



For more information / Para más información: abqride.com / (505) 243-7433

Figure 9: ABQ Ride System Map

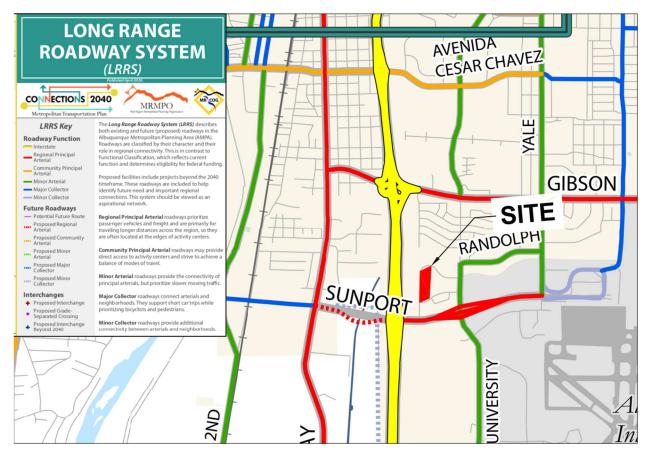
# **Existing Traffic Volumes**

Since the Implementation Year is less than three years in the future and the annual background traffic growth rate is 0.5%, no existing analysis was performed. The Implementation Year NO BUILD analyses should closely approximate existing conditions. Existing traffic volumes (turning movement counts) were collected at the intersections targeted for analysis in this study in March 2024 and attached in Appendix 05.

Existing traffic volumes were collected during March of 2024 while school was in session. The turning movement counts for the 2025 and 2035 AM and PM Peak Hour Demand, NO BUILD, and BUILD conditions for each movement in each intersection the study area. NO BUILD volumes were generated by adjusting the existing volumes with the background traffic growth. BUILD volumes were calculated by increasing the NO BUILD volumes by the trips generated by the project. Summarized turning movement counts for 2025 volumes can be found in Appendix 08. Summarized turning movement counts for 2035 volumes can be found in Appendix 09.

## **Existing Roadway System**

The Long-Range Roadway System (LRRS) classifies the regional role of existing and planned future 2040 arterials within the overall network. By categorizing network links into two groups regional and community, considerations for existing and planned future 2040 transportation system improvements are ensured. The arterial categories within the study area are illustrated in Figure 10: Futures 2040 Maps for Long Range Roadway Systems Map and attached in Appendix 01.



Portion of Futures 2040 Long Range Roadway System (from Mid-Region Council of Governments)

Figure 10: Futures 2040 Maps for Long Range Roadway Systems Map

University Blvd. is classified as an 'Existing Minor Arterial,' on the Figure 10: Futures 2040 Maps for Long Range Roadway Systems (MRMPO Long Range Roadway System (LRRS), 2024). University Blvd. is a two lane in each direction divided roadway. Mixed use asphalt paved pedestrian sidewalks pedestrian cross walks, and ADA pedestrian ramps, are available along University Blvd. The asphalt paved roadway has raised concrete curbs and medians, as well as gutters and sidewalks. The posted speed limit along University Blvd. within the study area is 30 MPH.

#### #1 - Unsignalized Intersection of Flightway Ave. at University Blvd.

Flightway Ave. is a one-lane in each direction roadway with bike lanes in both directions. Sidewalks are available on both the north and south sides of the roadway, however the sidewalk along the south side of the roadway ends just east of the proposed site location. The asphalt paved roadway has raised concrete raised curbs and medians, as well as gutters and sidewalks. The T-intersection at University Blvd. has a stop controlled eastbound movement and a crosswalk along the north leg and west leg. On the south leg of the intersection on University Blvd. there is a left turn lane with 175 ft of

storage length. The speed limit on Flightway Ave. within the study area is 30 MPH. The intersection configuration is shown in *Figure 11: Unsignalized Intersection Areial Flightway Ave. at University Blvd.* 



Figure 11: Unsignalized Intersection Areial Flightway Ave. at University Blvd.

#### #2 - Unsignalized Intersection of Woodward Rd. at University Blvd.

Woodward Rd. is a one-lane in each direction roadway. On-street parking is available along the roadway in both directions. Sidewalks are available on the south side of Woodward Rd. and just east of the proposed site on the north side. The asphalt paved roadway has raised concrete raised curbs and medians, as well as gutters and sidewalks. Unmarked pedestrian crossings are available with ADA pedestrian ramps. The T-intersection at University Blvd. has stop controlled eastbound movement and a left turn lane on the south leg with 175 ft of storage length. The speed limit on Woodward Rd. within the study area is 25 MPH. The intersection configuration is shown in *Figure 12: Unsignalized Intersection Areial of Woodward Rd. at University Blvd*.



Figure 12: Unsignalized Intersection Areial of Woodward Rd. at University Blvd.

#### #3 - Unsignalized Intersection of Woodward Rd. at Transport St.

Transport St. is a one-lane in each direction roadway. Shared bike lanes as well as on street parking are available along the roadway in both directions. Sidewalks are available on the west side of Transport St. The asphalt paved roadway has raised concrete raised curbs and medians, as well as gutters and sidewalks. Unmarked pedestrian crossings are available with ADA pedestrian ramps along the west side of the roadway. The four-leg intersection at Woodward Rd. has stop controlled eastbound and westbound directions. The speed limit on Woodward Rd. within the study area is 25 MPH. The intersection configuration is shown in *Figure 13: Unsignalized Intersection of Woodward Rd. at Transport St.* 



Figure 13: Unsignalized Intersection of Woodward Rd. at Transport St.

#### #4 - Unsignalized Intersection of DaVita Access & Transport St.

The DaVita Access is a one-lane in each direction asphalt paved roadway into a private facility. Sidewalks are available on the west side of Transport St and the east side of DaVita Access. The asphalt paved roadway has raised concrete raised curbs and medians, as well as gutters and sidewalks. Unmarked pedestrian crossings are available with ADA pedestrian ramps along the east side of the roadway. The T- intersection at Transport St. has a stop controlled eastbound movement. The speed limit on DaVita Access within the study area is 25 MPH. The intersection configuration is shown in Figure 14: Unsignalized Intersection of DaVita Access and Transport St.



Figure 14: Unsignalized Intersection of DaVita Access and Transport St. (Google, 2024)

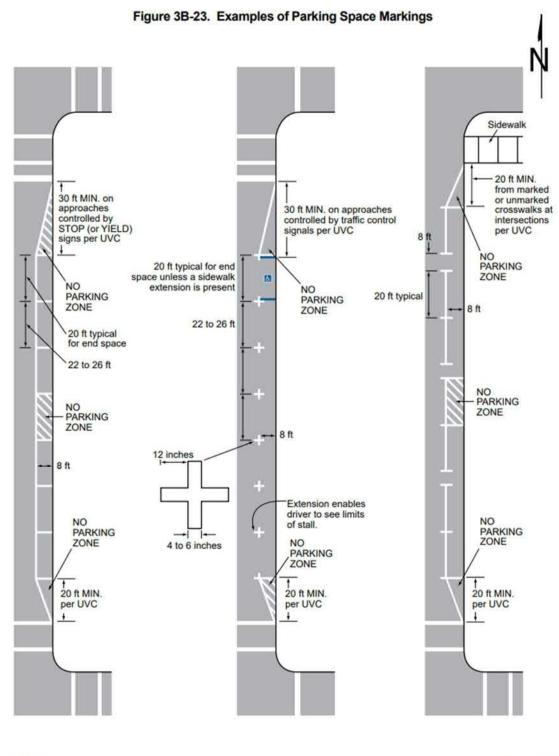
#### **Improvements to Existing Conditions**

Existing roadway markings include lane striping at the intersection of Flightway Ave. and University, delineating an exclusive left-turn lane and right-turn lane. The yellow center line markings extend 350 ft west from the stop bar to end of "No Pass Markings" delineating the eastbound and westbound movements. On-street parking is available on the north and south sides of both Flightway Ave. and Woodward Rd.

Regulations are in place by the Federal Aviation Administration regarding the installation of reflective pavement markings, traffic signs, and roadway lighting in order to protect the safety of aircraft operators. The proposed site location has only a small portion of the property within the Airport Protection Overlay zone on the southeast corner of the parcel. The recommendation for striping is for areas within the zone must meet the United States Department of Transportation Federal Aviation Administration 'Advisory Circular' Chapter 5. Other Surface Markings Section 5.2 Vehicle Roadway Markings.

The recommendation is to continue on-street parking along Transport St. on the east and west sides, as well as recommended improvements to the existing on-street pavement marking. Improvements include the striping of the parking space to meet Figure 15: MUTCD Section 3B-02 Warrants for Yellow Center Lines standard applies the following:

On-street parking space markings shall be white.



Sect. 3B.27 December 2023

Figure 15: MUTCD Section 3B-02 Warrants for Yellow Center Lines

#### **Existing Land Use and Site Access**

The land for the project is undeveloped and the study area is mostly developed with residential lots with minimal commercial land use in the area. There are three proposed access driveways (Driveway 'A', Driveway 'B', and Driveway 'C').

#### #5 - Unsignalized Intersection of Woodward Rd. at Driveway "A"

Driveway 'A' is a proposed right-in, right-out, and left-in only access. This is the only "full access" driveway on the southern end of the site, that will serve incoming traffic along Woodward Rd. from University Blvd.

#### #6 - Unsignalized Intersection of Flightway Ave. & Driveway "B"

Driveway 'B' is a proposed right-in, right-out, and left-in only access. This is the only "full access" driveway on the northern end of the site, that will serve incoming traffic along Flightway Ave. from University Blvd.

#### **Crash Analysis**

Crash data for the study area was collected for the years 2018, 2019, 2020, 2021, and 2022. The crash data was taken from the New Mexico Department of Transportation's (NMDOT) statewide database. The crash history data was collected for the intersections (3 intersections) surrounding the Opus Transport Apartments. Based on the low number of crashes reported over the recent five-year period (35 crashes), this report finds that there are no significant safety issues in the study area. Table 6: Opus Transport Apartments Crash Analysis Summary below summarizes the crashes by year and by crash attributes:

Table 6: Opus Transport Apartments Crash Analysis Summary

## Crash Analysis Summary Table Transport Apartments (Flightway Ave /University Blvd)

Crash Data from (IPRA) Internal Request

ODACH TVDE		- 1	Direction			PERCENTAGE			Year			SUBTOTAL	PERCENTAGE
CRASH TYPE	Е	w	N	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
BACKING UP	1	0	0	0	0	3%	0	0	1	0	2	3	9%
FIXED OBJECT	1	0	1	3	1	18%	0	2	1	2	0	5	16%
LEFT-TURN ANGLE	0	1	0	0	0	3%	1	0	0	0	0	1	3%
PARKED VEHICLE	1	0	1	3	0	15%	2	0	2	0	0	4	13%
RIGHT-TURN-ANGLED	0	0	0	1	0	3%	1	2	0	0	0	3	9%
HEAD-ON COLLISION	1	2	0	1	1	15%	2	0	0	1	0	3	9%
REAR-END	0	0	1	0	0	3%	1	0	0	0	1	2	6%
SIDESWIPE LL	1	0	0	0	0	3%	0	0	1	0	1	2	6%
SIDESWIPE RL	3	0	2	1	0	18%	0	1	1	2	2	6	19%
T-BONE	0	2	0	1	0	9%	0	0	0	0	1	1	3%
OTHER	1	0	0	1	0	6%	1	0	0	1	1	3	9%
UNKNOWN	0	0	0	0	3	9%	0	2	0	0	0	2	6%
SUBTOTAL	8	5	5	11	5	100%	8	7	5	6	6	35	100.00%

Based on MUTCD warrant 7 criteria the number of crashes based on type did not exceed five or more within a 12-month period. There were no fatalities and majority of the crashes resulted in property damage based on Table 7: Crash Analysis Attributes Summary Table. The summarized crash analysis tables are attached in Appendix 12.

Table 7: Crash Analysis Attributes Summary Table

# Crash Analysis Summary Table Transport Apartments Crash Data from IPRA

CDACH TVDE			Year			CURTOTAL	PERCENTAGE
CRASH TYPE	2018	2019	2020	2021	2022	SUBTOTAL	CRASH TYPE
ALCOHOL INVOLVED	0	0	1	0	1	2	3.1%
CURVE	1	1	0	0	1	3	4.6%
DARK-LIGHTING	1	1	2	0	2	6	9.2%
DARK-NOT LIGHTING	0	1	0	0	1	2	3.1%
FATALITY	0	0	0	0	0	0	0.0%
HEAVY TRUCK	1	1	0	0	0	2	3.1%
HILL CREST	1	0	0	0	1	2	3.1%
HIT-AND-RUN	1	3	3	2	2	11	16.9%
INJURY	3	0	2	1	2	8	12.3%
PROPERTY DAMAGE	5	7	4	5	6	27	41.5%
RAINING	1	0	0	0	0	1	1.5%
WORKZONE	0	0	0	0	1	1	1.5%
SUBTOTAL	14	14	12	8	17	65	100.0%

#### Analysis of Implementation Year and Horizon Year Conditions

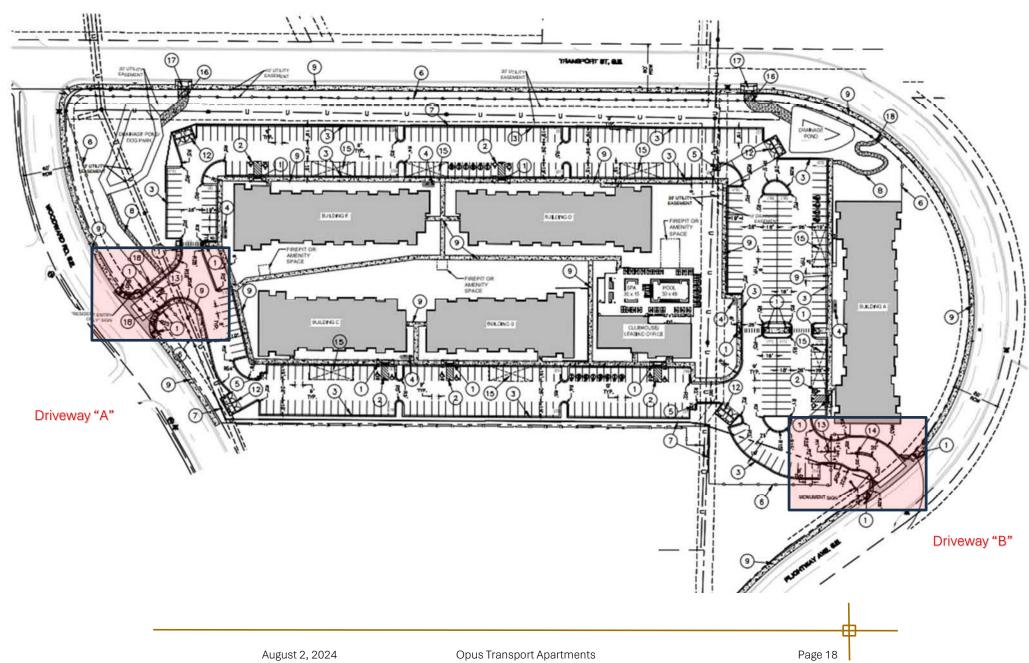
#### **Description of Proposed Development**

The approximately 9.3-acre Opus Transport Apartments site will be located east of Transport St. north of Woodward Rd., south of Flightway Ave. and west of University Blvd. in the City of Albuquerque, New Mexico

The proposed site is to be developed as follows:

- 164-units Multifamily Housing (Mid Rise)
- 90-units Multifamily Housing (Low Rise)
- 5,140 sq-ft. Single Tenant Office Building

The proposed site plan is shown on the next page and in Appendix 03.



#### **Trip Generation**

The ITE Codes used for the proposed Opus Transport Apartments include the following: ITE Code 221 (Multifamily Housing (Mid-Rise)), ITE Code 220 (Multifamily Housing (Low-Rise)), and ITE Code 715 (Single Tenant Office Building). Table 8: Opus Transport Apartments Trip Generations Data summary is below and attached in Appendix 04.

Table 8: Opus Transport Apartments Trip Generations Data (Tierra West LLC, 2024)

## Transport Apartments (2900 Transport St)

#### Trip Generation Data (ITE Trip Generation Manual - 11th Edition)

USE (ITE CODE)	24 HR VOL	A. M. PEAK HR.		P. M. PE	AK HR.		
DESCRIPTION			GROSS	ENTER	EXIT	ENTER	EXIT
Summary Sheet		Units					
Multifamily Housing (Mid-Rise)	•	164.00	745	14	47	39	25
Multifamily Housing (Low-Rise)		90.00	607	9	27	37	22
Single Tenant Office Building (715)	•	5.14	67	8	1	1	8
Subtotal			1,419	31	75	77	55

#### **Traffic Volume Projections**

The anticipated Implementation Year for this project is 2025 and the Horizon Year is 2035. MRCOG Traffic Flow Map data was used for traffic growth from 2015 to 2022 to determine the historical growth rates for the study area. The calculated growth rate at the intersections is 0.5% and is the same for both the Implementation Year and Horizon Year. See Appendix 06 for the Historic Growth Rate Graph.

To balance traffic volumes when building the Synchro 12 model, it was assumed that westbound traffic entering from University Blvd. would terminate prior to the proposed driveway locations. This assumption was based on current conditions and commercial properties east of the proposed site location.

#### **Trip Distribution and Trip Assignments**

The trip assignment percentages were used to distribute the trips generated to the individual traffic movements at each intersection. Trip assignments percentages for new trips entering and exiting are derived from data established in the trip distribution determination process and logical routing. Residential trips were distributed based on Mid-Region Council of Governments' Socio-economic data (2016-2040 data set).

The residential trips were distributed based on the employment distribution regionally inversely proportional to the distance of the subarea from the project. The Residential Trip Distribution Maps can



be found below in Figure 16: Subarea Map, and the Table 9: Trip Distribution used to calculate the Residential Trip Distributions percentages can be found in Appendix 07.

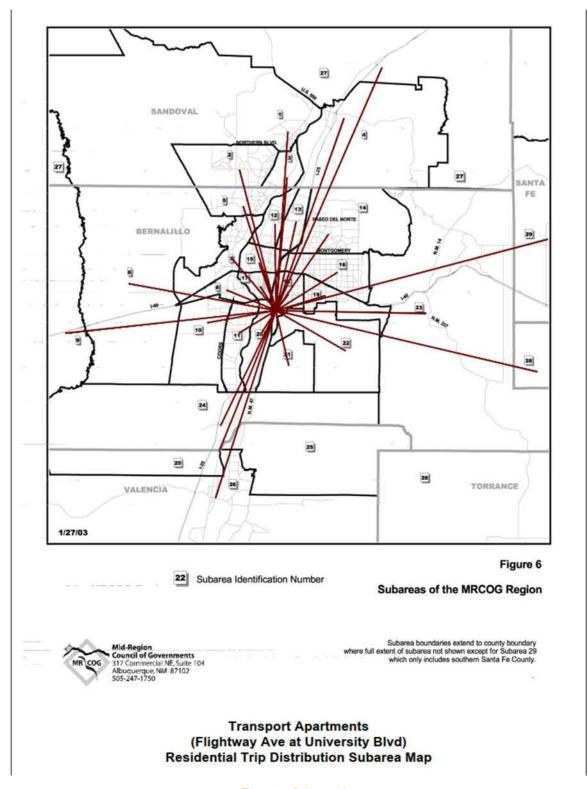


Figure 16: Subarea Map

#### **Trip Distribution Table**

**Project Name: Transport Apartments** 

#### Sub Area Employment Data:

For determination of Trip Distribution for Proposed Residential Development Trips

2016 and 2040 Data Taken from Mid-Region Council of Governments' 2040 Data Set

Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

								UNW)				(US)		(DN)			
									Uni	versity Blvd. N	lorth	Uni	versity Blvd. S	outh		DaVita North	
Sub Area I.D.#	% Sub Area in Study	' '	2040 Employment	Interpolated Employment for the Year	Employment in Study	Dist. (Mi.)	Employment / Distance	% Employment / Distance	% Utilizing	% Employment / Dist. Utilizing	Employment	% Utilizing	% Employment / Dist. Utilizing	Employment	% Utilizing	% Employment / Dist. Utilizing	Employment
		2016	2040	2025													
1	100%	8,354	11,675						20%				0.57%				
2	100%	16,637	19,808	17,826	17,826			1.62%	20%		268		1.30%	1,072	0%		0
3	100%	1,731	1,938	1,809					20%				0.14%				0
4	100%	3,725					206	0.25%	20%			80%	0.20%				0
5	100%	13,625	15,349	14,272	14,272	10	1,427	1.73%	20%	0.35%	285	80%	1.38%	1,142			0
6	100%	1,113	4,263	2,294	2,294	13.7	167	0.20%	30%	0.06%	50	70%	0.14%	117			0
7	100%	9,234	11,922						30%				1.38%	1,138			0
8	100%	9,101	12,837	10,502	10,502	4.9	2,143	2.59%	50%	1.30%	1,072	50%	1.30%	1,072	0%	0.00%	0
9	100%	724	1,023	836	836	19.4	43	0.05%	20%	0.01%	9	80%	0.04%	34	0%	0.00%	0
10	100%	3,409	5,330	4,129	4,129	6.4	645	0.78%	20%	0.16%	129	80%	0.62%	516	0%	0.00%	0
11	100%	5,699	6,882	6,143	6,143			1.86%	20%	0.37%	307	80%	1.49%	1,229	0%	0.00%	0
12	100%	6,287	7,474	6,732	6,732	7.9	852	1.03%	20%	0.21%	170	80%	0.82%	682	0%	0.00%	0
13	100%	38,387	42,986	40,112	40,112	8.4	4,775	5.78%	20%	1.16%	955	80%	4.62%	3,820	0%	0.00%	0
14	100%	37,195	40,809	38,550	38,550	8.5	4,535	5.49%	20%	1.10%	907	80%	4.39%	3,628	0%	0.00%	0
15	100%	17,358	20,784	18,643	18,643	4.6	4,053	4.90%	20%	0.98%	811	80%	3.92%	3,242	0%	0.00%	0
16	100%	54,135	60,416	56,490	56,490	6.6	8,559	10.36%	80%	8.29%	6,847	20%	2.07%	1,712	0%	0.00%	0
17	100%	40,280	48,177	43,241	43,241	2.6	16,631	20.13%	50%	10.06%	8,316	50%	10.06%	8,316	0%	0.00%	0
18	100%	32,770	38,004	34,733	34,733	1.9	18,280	22.12%	75%	16.59%	13,710	20%	4.42%	3,656	5%	1.11%	914
19	100%	24,729	28,854	26,276	26,276	4.7	5,591	6.77%	50%	3.38%	2,795	50%	3.38%	2,795	0%	0.00%	0
20	100%	5,978	8,831	7,048	7,048	2.3	3,064	3.71%	0%	0.00%	0	100%	3.71%	3,064	0%	0.00%	0
21	100%	1,755	4,714	2,865	2,865	5.2	551	0.67%	0%	0.00%	0	100%	0.67%	551	0%	0.00%	0
22	100%	28,349	31,083	29,374	29,374	7.4	3,969	4.80%	0%	0.00%	0	100%	4.80%	3,969	0%	0.00%	0
23	100%	2,923	3,349	3,083	3,083	13.8	223	0.27%	0%	0.00%	0	100%	0.27%	223	0%	0.00%	0
24	100%	1,271	1,266	1,269	1,269	11.7	108	0.13%	0%	0.00%	0	100%	0.13%	108	0%	0.00%	0
25	100%	112	112				8	0.01%	0%	0.00%	0	100%	0.01%	8	0%	0.00%	0
26	100%	17,882	21,300	19,164	19,164	18	1,065	1.29%	0%	0.00%	0	100%	1.29%	1,065	0%	0.00%	0
27	100%	5,846	6,024	5,913	5,913	24.3	243	0.29%	20%	0.06%	49	80%	0.24%	195	0%	0.00%	0
28	100%	4,338	5,143	4,640	4,640	24.6	189	0.23%	80%	0.18%	151	20%	0.05%	38	0%	0.00%	0
29	100%	1,784	2,111	1,907	1,907	25.8	74	0.09%	80%	0.07%	59	20%	0.02%	15	0%	0.00%	0
		394,731	466,547	421,662	421,662		82,639			45.46%			53.44%			1.11%	
											45.46%			53.44%			1.11%

#### **Intersection Analysis**

The Highway Capacity Manual establishes a criterion for the determinations of unsignalized levels-of-service. These levels determine if an intersection will be proficient enough to accommodate the projected volumes from the new development. The average control delay is calculated for each intersection and for each lane group of each leg of the intersection. The analysis of the calculated control delay determines the level of service for each lane group. However, if the v/c ratio is 1.0 or greater, then the v/c ratio overrides the calculated delay and qualifies the lane group to be LOS "F". The control delay generally determines the level-of-service based on the following table:

LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

<u>Average Delay</u>	Level-of-Service
(secs)	
≤ 10	А
> 10 and ≤ 15	В
> 15 and ≤ 25	С
> 25 and ≤ 35	D
> 35 and ≤ 50	Е
> 50	F

For parameter of acceptance, generally a Level-of-Service D or better is an acceptable parameter for design purposes.

In summary, the proposed Opus Transport Apartments will have minimal adverse impact on the adjacent transportation system. Level of service (LOS) at the intersections in the study area meet the City of Albuquerque's minimum acceptable Level of Service Standards for the 2025 implementation year and 2035 horizon year for all intersections in the study area.

#### Level of Service (LOS)

According to the City of Albuquerque Design Process Manual (DPM), LOS standards are defined by Access Category. Table 10: Design Process Manual LOS Criteria identifies the minimum acceptable LOS standards according to Functional Classification & Roadway Type and City of Albuquerque's ABC Comp Plan Type.

Table 10: Design Process Manual LOS Criteria

TABLE 7.5.88 Desired	LOS	y Loc	ation a	nd Cor	ridor 1	Гуре	
		Al	BC Comp	Plan C	enter T	ype	
Functional Classification & Roadway Type	Transit Station Area	Downtown	Urban Center	Activity Center	Village Center	Employment Center	Outside Center
Premium Transit	E-F	E-F	E-F	E-F	E-F	E-F	E-F
Major Transit	Е	E-F	Е	Е	D-E	D-E	D-E
Multi-modal	Е	Е	E	Е	D-E	D-E	D-E
Commuter	Е	Е	D-E	D-E	D-E	D-E	D
Other Arterial	Е	Е	E	D-E	D-E	D-E	D
Minor Arterial	Е	E	D-E	D-E	D-E	D	D
Collector	Е	D-E	D	D	C-D	C-D	C-D

University Blvd. is considered an 'Other Arterial' within a Transit Station Area, intersections along the University Blvd. corridor should have a LOS E or better. Build conditions should have a LOS=E or better or the proposed roadway should be mitigated to maintain the LOS at existing (No Build) condition levels.

The following Lanes / Volumes Analysis Tables demonstrate the impacts to the adjacent roadway system. The Lanes / Volumes Analysis Tables quantify the APH and PPH No Build and Build volumes along with the associated v/c ratios, LOS, calculated delays, and 95th percentile queue lengths. The Lanes / Volume Analysis Tables report the performance of proposed driveway access and existing intersections. The tables are attached in Appendix 10 and Appendix 11 for implementation year 2025 and horizon year 2035, respectively.

#### #1 - Unsignalized Intersection of Flightway Ave. at University Blvd.

The results of the 2025 Implementation Year for the APH and PPH analysis of the unsignalized intersection of Flightway Ave. at University Blvd. are summarized in , as well as attached in Appendix 10. The results of the 2035 Horizon Year for the APH and PPH analysis of the unsignalized intersection of Flightway Ave. at University Blvd. are summarized in , as well as attached in Appendix 11.

Table 11: 2025 Implementation Year Flightway Ave. at University Blvd. AM Peak LVAM Summary

Flightway Ave. / University Blvd.	EB (F	lightway	Ave.)	NB (U	niversity	Blvd.)	SB (University Blvd.)		
2025_Conditions	L	T	R	L	T	R	L	T	R
Existing Lane Geometry	1	0	1	<1	2	0	0	2>	0
AM Peak Hour									
2025_NO BUILD Volumes	50		35	76	857			476	40
V/C Ratio	0.18		0.06	0.08					
Level-of-Service	С		В	Α					
Control Delay (Seconds)	19.4		10.6	9.0					
Intersection LOS				TW					
95th Percentile Queue (veh)	0.6		0.2	0.3					
2025_BUILD Volumes	73		50	80	868			481	49
V/C Ratio	0.27		0.08	0.09					
Level-of-Service	С		В	Α					
Control Delay (Seconds)	21.5		10.9	9.1					
Intersection LOS				TW	SC / A -	1.8			
95th Percentile Queue (veh)	1.1		0.3	0.3					

#### PM Peak Hour

2025_NO BUILD Volumes	62		48	42	625			857	74	
V/C Ratio	0.29		0.10	0.08						
Level-of-Service	D		В	В						
Control Delay (Seconds)	26.4		13.0	11.4						
Intersection LOS				TW	SC / A -	1.6				
95th Percentile Queue (veh)	1.1		0.3	0.2						
2025_BUILD Volumes	79		59	53	636			869	97	
V/C Ratio	0.39		0.13	0.10						
Level-of-Service	D		В	В						
Control Delay (Seconds)	31.3		13.5	11.7						
Intersection LOS	TWSC / A - 2.2									
95th Percentile Queue (veh)	1.7		0.4	0.3						

Table 12: 2035 Horizon Year Flightway Ave. at University Blvd. LVAM Summary

Flightway Ave. / University Blvd.	EB (F	lightway	Ave.)	NB (U	niversity	Blvd.)	SB (University Blvd.)		
2035_Conditions	L	T	R	L	T	R	L	T	R
Existing Lane Geometry	1	0	1	<1	2	0	0	2>	0
AM Peak Hour									
2035_NO BUILD Volumes	53		37	80	900			500	42
V/C Ratio	0.20		0.06	0.09					
Level-of-Service	С		В	Α					
Control Delay (Seconds)	20.6		10.8	9.2					
Intersection LOS				TW	SC / A -	1.4			
95th Percentile Queue (veh)	0.7		0.2	0.3					
2035_BUILD Volumes	76		52	84	911			505	51
V/C Ratio	0.29		0.09	0.10					
Level-of-Service	С		В	Α					
Control Delay (Seconds)	23.0		11.0	9.2					
Intersection LOS				TW	SC / A -	1.8			
95th Percentile Queue (veh)	1.2		0.3	0.3					

#### **PM Peak Hour**

2035_NO BUILD Volumes	65		51	42	659			900	78	
V/C Ratio	0.32		0.11	0.08						
Level-of-Service	D		В	В						
Control Delay (Seconds)	28.8		13.4	11.7						
Intersection LOS				TW	SC / A -	1.7				
95th Percentile Queue (veh)	1.3		0.4	0.3						
2035_BUILD Volumes	82		62	53	667			912	101	
V/C Ratio	0.43		0.14	0.10						
Level-of-Service	D		В	В						
Control Delay (Seconds)	34.9		13.9	12.3						
Intersection LOS	TWSC / A - 2.3									
95th Percentile Queue (veh)	2.0		0.5	0.3						

Both the implementation year and the horizon year analysis in the above tables show that the unsignalized intersection of Flightway Ave. at University Blvd. is operating at an acceptable LOS during both the APH and PPH. The V/C ratio for all approaches are very low and does not indicate that the new trips generated causes a queueing issue along Flightway Ave. The overall intersection delay experienced by the intersection of Flightway Ave. at University Blvd. is insignificant. The new trips generated by the Opus Transport Apartments do not significantly impact the overall operation of the

unsignalized intersection of Flightway Ave. at University Blvd., therefore no recommendations are suggested.

#### #2 - Unsignalized Intersection of Woodward Rd. at University Blvd.

The results of the 2025 Implementation Year for the APH and PPH analysis of the unsignalized intersection of Woodward Rd. at University Blvd. are summarized in Table 13: 2025 Implementation Year Woodward Rd. at University Blvd. LVAM Summary, as well as attached in Appendix 10. The results of the 2035 Horizon Year for the APH and PPH analysis of the unsignalized intersection of Woodward Rd. at University Blvd are summarized in Table 14: 2035 Horizon Year Woodward Rd. at University Blvd. LVAM Summary, as well as attached in Appendix 11.

Table 13: 2025 Implementation Year Woodward Rd. at University Blvd. LVAM Summary

Woodward Rd. / University Blvd.	EB (W	SB (U	University Blvd.)								
2025_Conditions	L	Т	R	L	niversity	R	L	Т	R		
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0		
AM Peak Hour											
2025_NO BUILD Volumes	55		187	107	877			480	32		
V/C Ratio	0.50			0.12							
Level-of-Service	С			Α							
Control Delay (Seconds)	18.5			9.0							
Intersection LOS		TWSC / A - 3.1									
95th Percentile Queue (veh)	2.8			0.4							
2025_BUILD Volumes	66		213	119	881			495	37		
V/C Ratio	0.60			0.13							
Level-of-Service	С			Α							
Control Delay (Seconds)	22.4			9.2							
Intersection LOS				TW	SC / A	4.0					
95th Percentile Queue (veh)	3.9			0.4							
Mitigated Lane Geometry	1	0	1	1	2	0	0	2>	0		
2025_BUILD Volumes	66		213	119	881			495	37		
V/C Ratio	0.27		0.33	0.13							
Level-of-Service	С		В	Α							
Control Delay (Seconds)	23.6		12.6	9.2							
Intersection LOS				TW	SC / A ·	3.0					
95th Percentile Queue (veh)	1.1		1.4	0.4							

Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0
2025_NO BUILD Volumes	76		164	174	590			840	69
V/C Ratio	0.83			0.30					
Level-of-Service	F			В					
Control Delay (Seconds)	54.7			13.1					
Intersection LOS				TW	SC / A ·	8.0			
95th Percentile Queue (veh)	7.2			1.2					
2025_BUILD Volumes	84		183	205	601			851	81
V/C Ratio	1.01			0.37					
Level-of-Service	F			В					
Control Delay (Seconds)	94.7			14.3					
Intersection LOS				TWS	C / B -	14.1			
95th Percentile Queue (veh)	10.6			1.7					
Mitigated Lane Geometry	1	0	1	1	2	0	0	2>	0
2025_BUILD Volumes	84		183	205	601			851	81
V/C Ratio	0.62		0.39	0.37					
Level-of-Service	F		С	В					
Control Delay (Seconds)	62.6		16.5	14.3					

1.8

1.7

3.3

TWSC / A - 5.6

Intersection LOS

95th Percentile Queue (veh)

**PM Peak Hour** 

Table 14: 2035 Horizon Year Woodward Rd. at University Blvd. LVAM Summary

Woodward Rd. / University Blvd.	EB (W	loodwar	d Rd.)	NB (U	niversity	Blvd.)	SB (U	B (University Blvd.		
2035_Conditions	L	Т	R	L	Т	R	L	T	R	
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0	
AM Peak Hour										
2035_NO BUILD Volumes	58		196	112	921			504	34	
V/C Ratio	0.55			0.12						
Level-of-Service	С			Α						
Control Delay (Seconds)	20.3			9.2						
Intersection LOS		-	•	TW	SC / A -	3.4	-	•		
95th Percentile Queue (veh)	3.2			0.4						
2035_BUILD Volumes	69		222	124	925			519	39	
V/C Ratio	0.65			0.14						
Level-of-Service	D			Α						
Control Delay (Seconds)	25.3			9.3						
Intersection LOS				TW	SC / A ·	4.5				
95th Percentile Queue (veh)	4.6			0.5						
Mitigated Lane Geometry	1>	0	0	1	2	0	0	2>	0	
2035_BUILD Volumes	69		222	124	925			519	39	
V/C Ratio	0.30		0.35	0.14						
Level-of-Service	D		В	Α						
Control Delay (Seconds)	25.5		13.1	9.3						
Intersection LOS				TW	SC / A -	3.1				
95th Percentile Queue (veh)	1.2		1.6	0.5						

PM Peak Hour									
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0
2035_NO BUILD Volumes	80		172	183	619			882	73
V/C Ratio	0.94			0.33					
Level-of-Service	F			В					
Control Delay (Seconds)	78.4			13.9					
Intersection LOS				TWS	C / B -	11.1			
95th Percentile Queue (veh)	9.2			1.4					
2035_BUILD Volumes	88		191	214	630			898	85
V/C Ratio	1.16			0.42					
Level-of-Service	F			С					
Control Delay (Seconds)	147.3			16.1					
Intersection LOS				TWS	C / C -	21.2			
95th Percentile Queue (veh)	13.6			2.1					
Mitigated Lane Geometry	1	0	1	1	2	0	0	2>	0
2035_BUILD Volumes	88		191	214	630			898	85
V/C Ratio	0.74		0.42	0.42					
Level-of-Service	F		С	С					
Control Delay (Seconds)	86.9		17.5	16.1					
Intersection LOS				TW	SC / A -	6.9			
95th Percentile Queue (veh)	4.2		2.1	2.1					

The implementation year during the PPH experiences a decreased LOS from LOS A to LOS B for the intersection performance while remaining acceptable to COA requirements. It is indicated that there is an existing high demand for the eastbound left-turn movement which has a failing LOS F during no build volume conditions for the PPH. The V/C ratio for the eastbound left-turn uses the majority of the storage capacity for existing volume conditions during the PPH at 0.83. The delay during the PPH is calculated to be approximately 95 seconds for the eastbound left-turn implementation year build conditions. This is most likely due to the traffic volume southbound on University Blvd. The eastbound left-turn movement is stop sign controlled and shares a lane with eastbound right-turn movement, under no build conditions. Mitigation measures reduced the 95th percentile queue length from approximately 11 vehicles during the build conditions to 3 vehicles during the mitigated conditions. This reduced the eastbound left-turn delay by nearly 30 seconds to 63 seconds, and decreased the V/C from 1.01 to 0.62. The evaluation of this intersection with the proposed mitigation measures has improved the intersection performance from LOS B to LOS A, as well as reduced delays from 14 seconds to 6 seconds.

The horizon year analysis in the above tables show that the unsignalized intersection of Woodward Rd. at University Blvd. is operating at an acceptable LOS during the APH and PPH. The V/C ratio for the eastbound left-turn is 0.94 for no build volume conditions with a LOS of F during the PPH. Under build volume conditions the V/C exceeds 1.0 and the delay time almost doubles. This is reflected by the 95<sup>th</sup> percentile queue increasing from 9 vehicles to approximately 14 vehicles. Mitigation measures previously suggested were applied to install an eastbound left-turn lane. These measures reduced V/C ratio from 1.16 to 0.74 which is less than the no build conditions of 0.94. The eastbound left-turn delays decreased to 87 seconds from 147 seconds. The evaluation of this intersection with the proposed mitigation measures has improved the performance from LOS C to LOS A, as well as reduced delays from 21 seconds to 7 seconds.

Based on the additional traffic generated by the proposed Opus Transport Apartments mitigation measures are suggested. It is recommended that the proposed mitigation measures be applied to the intersection of Woodward Rd. at University Blvd. The mitigation measures considered are an additional eastbound left-turn lane, and the removal of on street parking within 265 ft west of the intersection on both the north and south sides along Woodward Rd. The mitigation measure to the geometry of the intersection is expounded on in the Mitigation Analysis section of this TIS report.

The overall intersection delay experienced by the intersection of Woodward Rd. at University Blvd. is 21.2 seconds, LOS C. The new trips generated by the Opus Transport Apartments do not

significantly impact on the overall operation of the unsignalized intersection of Woodward Rd. at University Blvd., however it is recommended that an eastbound left-turn lane be installed to increase capacity and mitigate the impact of this development on the intersection. Mitigated lane geometry was analyzed and indicated that the measures alleviate the overall intersection LOS from LOS C for build conditions to LOS A for mitigated build conditions.

#### #3 - Unsignalized Intersection of Woodward Rd. at Transport St.

The results of the 2025 Implementation Year for the APH and PPH analysis of the signalized intersection of Woodward Rd. at Transport St. are summarized in Table 15: 2025 Implementation Year Woodward Rd. at Transport St. LVAM Summary, as well as attached in Appendix 10. The results of the 2035 Horizon Year for the APH and PPH analysis of the signalized intersection of Woodward Rd. at Transport St. are summarized in Table 16: 2035 Horizon Year Woodward Rd. at Transport St. LVAM Summary, as well as attached in Appendix 11.

Table 15: 2025 Implementation Year Woodward Rd. at Transport St. LVAM Summary

Woodward Rd. / Transport St.	EB (W	/oodwar	d Rd.)	WB (V	Voodwai	rd Rd.)	NB (	Transpo	rt St.)	SB (	Franspo	rt St.)
2025_Conditions	L	T	R	L	T	R	L	Т	R	L	T	R
Existing Lane Geometry	0	<1>	0	0	<1>	0	0	<1>	0	0	<1>	0
AM Peak Hour												
2025_NO BUILD Volumes	0			1		52	0	1	12	71	0	
V/C Ratio				0.05						0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.6			0.0			7.3	0.0	
Intersection LOS						TWSC /	A - 7.	1				
95th Percentile Queue (veh)				0.2			0.0			0.2		
2025_BUILD Volumes	0			1		57	0	1	12	75	0	
V/C Ratio				0.06						0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.6			0.0			7.4	0.0	
Intersection LOS						TWSC /	A - 7.2	2				
95th Percentile Queue (veh)				0.2			0.0			0.2		

PM Peak Hour												
2025_NO BUILD Volumes	0			4		51	0	1	11	82	4	
V/C Ratio				0.06						0.06		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.6			0.0			7.4	0.0	
Intersection LOS					1	rwsc /	A - 7.	1				
95th Percentile Queue (veh)				0.2			0.0			0.2		
2025_BUILD Volumes	0			4		57	0	1	11	87	4	
V/C Ratio				0.06						0.06		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.7			0.0			7.4	0.0	
Intersection LOS		•	•		1	rwsc /	A - 7.2	2			•	·
95th Percentile Queue (veh)				0.2			0.0			0.2		

Table 16: 2035 Horizon Year Woodward Rd. at Transport St. LVAM Summary

Woodward Rd. / Transport St.	EB (W	/oodwar	d Rd.)	WB (V	Voodwai	rd Rd.)	NB (	Transpo	rt St.)	SB (	Transpo	rt St.)
2035_Conditions	L	T	R	L	T	R	L	T	R	L	T	R
Existing Lane Geometry	0	<1>	0	0	<1>	0	0	<1>	0	0	<1>	0
AM Peak Hour												
2035_NO BUILD Volumes	0			1		55	0	1	13	75	0	
V/C Ratio				0.06						0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.6			0.0			7.4	0.0	
Intersection LOS						TWSC /	A - 7.	1				
95th Percentile Queue (veh)				0.2			0.0			0.2		
2035_BUILD Volumes	0			1		60	0	1	13	79	0	
V/C Ratio				0.06						0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0			8.6			0.0			7.4	0.0	
Intersection LOS						TWSC /	A - 7.	2				
95th Percentile Queue (veh)				0.2			0.0			0.2		

PM Peak Hour										
2035_NO BUILD Volumes	0	4		54	0	1	12	87	4	
V/C Ratio		0.0	5					0.06		
Level-of-Service	Α	A			Α			Α	Α	
Control Delay (Seconds)	0.0	8.7			0.0			7.4	0.0	
Intersection LOS				TWSC	A - 7.	1				
95th Percentile Queue (veh)		0.2			0.0			0.2		
2035_BUILD Volumes	0	4		60	0	1	12	92	4	
V/C Ratio		0.0	,					0.06		
Level-of-Service	Α	А			Α			Α	Α	
Control Delay (Seconds)	0.0	8.7			0.0			7.4	0.0	
Intersection LOS				TWSC	A - 7.2	2				
95th Percentile Queue (veh)		0.2			0.0			0.2		

Both the implementation year and the horizon year analysis in the above tables show the unsignalized intersection of Woodward Rd. at Transport St. is operating at an acceptable level of service for all conditions evaluated in this study. The V/C and the 95<sup>th</sup> percentile queue length are negligible for each approached analyzed. The delay experienced by the intersection is 7.1 seconds and 7.2 seconds for both the APH and PPH during both the implementation year and horizon year. The new trips generated for the Opus Transport Apartments present no significant adverse impact to this unsignalized intersection.

#### #4 - Unsignalized Intersection of DaVita Access & Transport St.

The results of the 2025 Implementation Year and Horizon Year for the unsignalized intersection of DaVita Access could not be analyzed based on HCM TWSC criteria since the intersection stop control is in one direction.

#### #5 - Unsignalized Intersection of Woodward Rd. at Driveway "A"

The results of the 2025 Implementation Year for the APH and PPH analysis of the unsignalized intersection of Woodward Rd. at Driveway "A" are summarized in Table 17: 2025 Implementation Year Woodward Rd. at Driveway "A" LVAM Summary, as well as attached in Appendix 10. The results of the 2035 Horizon Year for the APH and PPH analysis of the unsignalized intersection of Woodward Rd. at Driveway "A" are summarized in Table 18: 2035 Horizon Year Woodward Rd. at Driveway "A" LVAM Summary, as well as attached in Appendix 11.

Table 17: 2025 Implementation Year Woodward Rd. at Driveway "A" LVAM Summary

Woodward Rd. / Driveway "A"	EB (Woodward Rd.) WB (Woodward Rd.) SB (Driveway "A")								
2025_Conditions	L	T	R	L	T	R	L	T	R
Proposed Lane Geometry	0	<1	0	0	1>	0	1>	0	0
AM Peak Hour									
2025_BUILD Volumes	1	86			55	16	34		3
V/C Ratio	0.00						0.05		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.3	0.0					9.5		
Intersection LOS				TW	SC / A -	1.8			
95th Percentile Queue (veh)	0.0						0.2		
Mitigated Lane Geometry	0	<1	0	0	1>	0	1>	0	0
2025_ BUILD Volumes	1	86			55	16	34		3
V/C Ratio	0.00						0.05		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.3	0.0					9.5		
Intersection LOS				TW	SC / A -	1.8			
95th Percentile Queue (veh)	0.0						0.2		

P۱	Л	P	ea	k	Н	O	ıır	

0	<1	0	0	1>	0	1>	0	0
3	95			59	39	25		2
0.00						0.03		
Α	Α					Α		
7.4	0.0					9.6		
			TW	SC / A -	1.3			
0.0						0.1		
0	<1	0	0	1>	0	1>	0	0
3	95			59	39	25		2
0.00						0.04		
Α	Α					Α		
7.4	0.0					9.6		
			TW	SC A -	1.3			
0.0						0.1		
	3 0.00 A 7.4 0.0 0 3 0.00 A 7.4	3 95 0.00 A A 7.4 0.0 0 <1 3 95 0.00 A A 7.4 0.0	3 95 0.00 A A 7.4 0.0 0 <1 0 3 95 0.00 A A 7.4 0.0	3 95 0.00 A A 7.4 0.0  TWS  0.0 0 <1 0 0 3 95 0.00 A A 7.4 0.0  TWS	3 95 59 0.00 A A 7.4 0.0  TWSC / A  0.0 0 <1 0 0 1> 3 95 0.00 A A 7.4 0.0  TWSC A  TWSC A	3 95 59 39  0.00  A A 7.4 0.0  TWSC / A - 1.3  0.0  0 <1 0 0 1> 0  3 95 59 39  0.00  A A 7.4 0.0  TWSC A - 1.3	3 95 59 39 25 0.00 A A 7.4 0.0 9.6  TWSC / A - 1.3  0.0 0 1> 0 1> 3 95 0 0.04 A A 7.4 0.0 9.6  TWSC A - 1.3	3 95 59 39 25 0.00

Table 18: 2035 Horizon Year Woodward Rd. at Driveway "A" LVAM Summary

Woodward Rd. / Driveway "A"	EB (W	/oodwar	d Rd.)	WB (V	Voodwai	d Rd.)	SB (I	Oriveway	/ "A")
2035_Conditions	L	T	R	L	T	R	L	T	R
Proposed Lane Geometry	0	<1	0	0	1>	0	1>	0	0
AM Peak Hour									
2035_NO BUILD Volumes	1	91			58	16	34		3
V/C Ratio	0.00						0.05		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.4	0.0					9.5		
Intersection LOS				TW	SC / A ·	1.8			
95th Percentile Queue (veh)	0.0						0.2		
Mitigated Lane Geometry	0	<1	0	0	1>	0	1>	0	0
2035_NO BUILD Volumes	1	91			58	16	34		3
V/C Ratio	0.00						0.05		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.4	0.0					9.5		
Intersection LOS				TW	SC / A ·	1.8			
95th Percentile Queue (veh)	0.0						0.2		

PM	Peak	Hour
----	------	------

0	<1	0	0	1>	0	1>	0	0
3	100			62	39	25		2
0.00						0.04		
Α	Α					Α		
7.4	0.0					9.7		
			TW	SC / A -	1.2			
0.0						0.1		
0	<1	0	0	1>	0	1>	0	0
3	100			62	39	25		2
0.00						0.04		
Α	Α					Α		
7.4	0.0					9.7		
			TW	SC / A -	1.2			
0.0						0.1		
	3 0.00 A 7.4 0.0 0 3 0.00 A 7.4	3 100 0.00 A A 7.4 0.0 0 <1 3 100 0.00 A A 7.4 0.0	3 100 0.00 A A 7.4 0.0 0 <1 0 3 100 0.00 A A 7.4 0.0	3 100 0.00 A A 7.4 0.0 TWS 0.0 0 <1 0 0 3 100 0.00 A A 7.4 0.0	3 100 62  0.00  A A  7.4 0.0  TWSC / A -  0.0  0 <1 0 0 1>  3 100 62  0.00  A A  7.4 0.0  TWSC / A -	3 100 62 39  0.00  A A  7.4 0.0  TWSC / A - 1.2  0.0  0 <1 0 0 1> 0  3 100 62 39  0.00  A A  7.4 0.0  TWSC / A - 1.2	3 100 62 39 25 0.00 A A 7.4 0.0 9.7  TWSC / A - 1.2  0.0 0 1> 0 1> 3 100 62 39 25 0.00 A A A 7.4 0.0 9.7  TWSC / A - 1.2  TWSC / A - 1.2	3 100 62 39 25  0.00

Both the implementation year and the horizon year analysis in the above tables show the proposed driveway on Woodward Rd. at Driveway "A" is operating at an acceptable level of service for all conditions evaluated in this study. The V/C and the 95<sup>th</sup> percentile queue length are negligible for each approached analyzed. The delay experienced by the intersection is between 1.2 seconds and 1.8 seconds for both the APH and PPH during both the implementation year and horizon year. Calculated

reductions to the delay time for intersection are indicated. This can be attributed to the mitigate measures eastbound and delay reductions at the intersection of University Blvd. The new trips generated by Opus Transport Apartments present no significant adverse impact to this proposed driveway.

#### #6 - Unsignalized Intersection of Flightway Ave. & Driveway "B"

The results of the 2025 Implementation Year for the APH and PPH analysis of the unsignalized intersection of Flightway Ave. at Driveway "B" are summarized in Table 19: 2025 Implementation Year Flightway Ave. at Driveway "B" LVAM Summary, as well as attached in Appendix 10. The results of the 2035 Horizon Year for the APH and PPH analysis of the unsignalized intersection of Flightway Ave. at Driveway "B" are summarized in Table 20: 2035 Horizon Year Flightway Ave. at Driveway "B" LVAM Summary, as well as attached in Appendix 11.

Table 19: 2025 Implementation Year Flightway Ave. at Driveway "B" LVAM Summary

Flightway Ave / Driveway "B"	EB (Flightway Ave)		WB (Flightway Ave)			NB (Driveway "B")			
2025_Conditions	L	T	R	L	T	R	L	T	R
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
AM Peak Hour									
2025_BUILD Volumes		66	2	12	86		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 2.1								
95th Percentile Queue (veh)				0.0			0.1		
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2025_BUILD Volumes		66	2	12	86		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 2.1								
95th Percentile Queue (veh)				0.0			0.1		

PM Peak Ho
------------

PM Peak Hour									
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2025_BUILD Volumes		81	4	31	97		2		26
V/C Ratio				0.02			0.03		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 2.0								
95th Percentile Queue (veh)				0.1			0.1		
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2025_BUILD Volumes		81	4	31	97		2		26
V/C Ratio				0.02			0.03		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 2.0								
95th Percentile Queue (veh)				0.1			0.1		

Table 20: 2035 Horizon Year Flightway Ave. at Driveway "B" LVAM Summary

Flightway Ave / Driveway "B"	EB (Flightway Ave)		WB (Flightway Ave)			NB (Driveway "B")			
2035_Conditions	L	Т	R	L	Т	R	L	Т	R
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
AM Peak Hour									
2035_NO BUILD Volumes		69	2	12	91		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 1.8								
95th Percentile Queue (veh)				0.0			0.1		
Mitigated Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2035_NO BUILD Volumes		69	2	12	91		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS	TWSC / A - 2.0								
95th Percentile Queue (veh)				0.0			0.1		

PM Peak Hour									
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2035_BUILD Volumes		85	4	31	102		2		26
V/C Ratio				0.02			0.03		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS		TWSC / A - 1.9							
95th Percentile Queue (veh)				0.1			0.1		
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
2035_NO BUILD Volumes		85	4	31	102		2		26
V/C Ratio				0.02			0.03		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)				7.4	0.0		8.9		
Intersection LOS		TWSC / A - 1.9							
95th Percentile Queue (veh)				0.1			0.1		

Both the implementation year and the horizon year analysis in the above tables show the proposed driveway on Flightway Ave. at Driveway "B" is operating at an acceptable level of service for all conditions evaluated in this study. The new trips generated by Opus Transport Apartments present no significant adverse impact to this proposed driveway.

#### **Intersection Analysis Summary**

The results of the Implementation Year (2025) and Horizon Year (2035) APH and PPH NO BUILD and BUILD conditions are summarized in . All intersections within the study area are performing at a LOS B or above.

#### **Intersection LOS Analysis Summary Table**

#### **Transport Apartments**

(Flightway Ave /University Blvd)

	Intersection Description Intersection Operation		Intersection Operation Case Evaluation		ar (2025) Conditions	Horizon Year (2035) Conditions		
				AM Peak LOS - Delay (s)	PM Peak LOS - Delay (s)	AM Peak LOS - Delay (s)	PM Peak LOS -Delay (s)	
1	Flightway Ave. / University	Unairmalinad	No Build	A (1.3)	A (1.6)	A (1.4)	A (1.7)	
1	Blvd.	Unsignalized	Build	A (1.8)	A (2.2)	A (1.8)	A (2.3)	
			No Build	A (3.1)	A (8.0)	A (3.4)	B (11.1)	
2	Woodward Rd. / University	Unsignalized	Build	A (4.0)	C (21.2)	A (4.5)	C (21.2)	
	Blvd.		Mitigated	A (3.0)	A (5.6)	A (3.1)	A (6.9)	
3	Woodward Rd. / Transport	l luni en alima el	No Build	A (7.1)	A (7.1)	A (7.1)	A (7.1)	
3	St.	Unsignalized	Build	A (7.2)	A (7.2)	A (7.2)	A (7.2)	
5	Woodward Rd. / Driveway	Unaignalized	Build	A (1.8)	A (1.3)	A (1.8)	A (1.2)	
5	"A"	Unsignalized	Mitigated	A (1.8)	A (1.3)	A (1.8)	A (1.2)	
6	Flightway Ave. / Driveway	Uncignalized	Build	A (2.1)	A (2.0)	A (1.8)	A (1.9)	
6	"B"	Unsignalized	Mitigated	A (2.1)	A (2.0)	A (2.0)	A (1.9)	

The LOS at the unsignalized intersection of Woodward Rd. at University Blvd. during the 2025 PM Peak Hour period does not meet the minimum City of Albuquerque LOS E requirement for the eastbound left-turn movement. As a result, a Peak Hour Signal Warrant (Warrant 3) was performed for the intersection.

The guidelines in the Manual on Uniform Traffic Control Devices for Warrant #3 are as follows:

Section 4C.04 Warrant 3, Peak Hour

Support:

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

Standard:

This signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time.

The need for a traffic control signal shall be considered if an engineering study finds that the criteria in either of the following two categories are met:

- A. If all three of the following conditions exist for the same 1 hour (any four consecutive 15-minute periods) of an average day:
  - 1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach; and
  - 2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes; and
  - 3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.
- B. The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for 1 hour (any four consecutive 15-

minute periods) of an average day falls above the applicable curve in Figure 4C-3 for the existing combination of approach lanes.

Option:

If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, Figure 4C-4 may be used in place of Figure 4C-3 to evaluate the criteria in the second category of the Standard.

If this warrant is the only warrant met and a traffic control signal is justified by an engineering study, the traffic control signal may be operated in the flashing mode during the hours that the volume criteria of this warrant are not met.

The total stopped delay at the intersection of Woodward Rd. at University Blvd. during the implementation year (2025) PPH is 5.36 hours (see Equation 2: Warrant 3 below) considering build volume conditions. Therefore, the intersection meets criterion A.1.

The one lane eastbound approach volume at the intersection is 267 vehicles per hour during the implementation year PPH considering build volume conditions. Therefore, the second criterion (A.2) is met.

For the three approaches the total volume of traffic entering the intersection during the implementation year (2025) PPH is 1903 vehicles considering build volume conditions. Therefore, the third criterion (A.3) is met.

Equation 2: Warrant 3

$$72.3 \frac{sec}{vehicle} * 1903 vehicles * \frac{1 hour}{3600 seconds}$$
$$= 5.36 vehicle - hours$$

The Peak Hour Graph is shown on Appendix 13 which demonstrates that the peak volumes during the implementation year (2025) PPH build volume conditions do meet the volume warrant. Therefore, the intersection meets criterion B.

This study demonstrates that the Peak Hour Volume criteria for a Traffic Signal is warranted. However, a signal is not recommended at this location for the following reasons:

1) The intersection of Woodward Rd. / University Blvd. is only 430 feet north of the existing signalized ramp at Sunport Blvd. / University Blvd. Signal spacing would not be adequate if a signal were to be constructed at Woodward Rd. Based on Table 22: Access Spacing Standards for Intersections

and Driveways the driveway meets the minimal access spacing standards of 330 ft for full access driveways or unsignalized intersections with non-traversal median, however it does not meet the minimum access spacing standards of 1,100 ft for signalized intersections.

Table 22: Access Spacing Standards for Intersections and Driveways

	Access Spa		Table 18.C-1 ards for Inter- to centerline spa	sections and	Driveways			
			Driveway Spacing (feet) 2					
		Intersection S	Spacing (feet) 1	Non-Traversa				
Access Category	Posted Speed (mph)	Signalized	Unsignalized <sup>3</sup>	Full Access	Partial Access	Traversable Median <sup>4</sup>		
Controlled- Access, Non-Interstate Highways	All Speeds	5,280	2,640	2,640	2,640	-NA-		
UPA	≤ 30 mph	2,640	1,320	1,320	200	200		
	35 to 40 mph	2,640	1,320	1,320	325	325		
	45 to 50 mph	2,640	1,320	1,320	450	450		
	≥ 55 mph	5,280	1,320	1,320	625	625		
UMA	≤ 30 mph	1,760	660	660	175	175		
	35 to 40 mph	1,760	660	660	275	275		
	45 to 50 mph	2,640	660	660	400	400		
	≥ 55 mph	5,280	1,320	1,320	600	600		
UCOL	≤ 30 mph	1,100	330	330	150	150		
	35 to 40 mph	1,320	330	330	225	225		
	45 to 55 mph	1,760	660	660	350	350		
RPA	≤ 30 mph	2,640	1,320	1,320	225	225		
	35 to 40 mph	2,640	1,320	1,320	350	350		
	45 to 50 mph	5,280	2,640	2,640	500	500		
	≥ 55 mph	5,280	2,640	2,640	775	775		
RMA	≤ 30 mph	1,760	660	660	200	200		
	35 to 40 mph	2,640	660	660	325	325		
	45 to 50 mph	2,640	1,320	1,320	450	450		
	≥ 55 mph	5,280	2,640	2,640	725	725		
RCOL	≤ 30 mph	1,320	330	330	200	200		
	35 to 40 mph	1,760	660	660	300	300		
	45 to 50 mph	2,640	1,320	1,320	425	425		
	≥ 55 mph	2,640	1,320	1,320	550	550		

2) The calculated average delay for the 2025 PPH implementation year build conditions are about 72 seconds (slightly over one minute). While, this is considered to be level-of-service "F" (more than 50 seconds of delay), it is still less delay than many intersections and driveways onto major streets in Albuquerque. The 94-second delay is expected to increase to 148 seconds of delay for the side street by the year 2035, but that does not take into account the fact that autonomous vehicles will be populating our roadways over the next ten years and, as autonomous vehicles become more and more prevalent, it will increase the capacities of the intersection over time. Thus, the projected 148 second calculated delay will likely be somewhat less.

The new Highway Capacity Manual (7<sup>th</sup> Edition) allows for the ideal saturation flow rate to be increased as a result of the implementation of autonomous vehicles. Thus, the capacity of the roadway system and intersections will be increased incrementally based on the percentage of autonomous vehicles on the roadway.

#### **Mitigation Analysis**

The results of the intersection analysis for the unsignalized intersection of Woodward Rd. at University Blvd. are characterized by a failing LOS F, long delays surpassing 2 minutes, and a V/C ratio exceeding 1.0 for the PPH during the horizon year build volume conditions. The scenario indicates that the unsignalized intersection is slightly congested because of the projected traffic volumes generated by the University Blvd. southbound during the horizon year build volumes. With the additional growth in volumes from the proposed development, the projected delay for the horizon year (2035) increases the PPH intersection delay by 5.9 seconds and the intersection delay remains LOS "C." The existing lane geometry of the Woodward Rd at University Blvd. intersection demonstrate the eastbound left-turn and eastbound right-turn movements are currently striped as one eastbound lane.

Although the existing geometry has one shared eastbound lane, there is sufficient pavement width for expansion to an additional eastbound lane which would separate the turning movements. It is proposed to eliminate the existing on-street parking striping and use this existing pavement section as an additional left-turn lane as well as provide improvements to the stop bar striping of the intersection. These improvements also include elimination of the on-street parking along the north and south sides of Woodward Rd. This can be seen in Figure 17: Proposed Striping and Intersection Mitigation below and attached in Appendix A-03.

The mitigations provided for this intersection include implementing an additional eastbound left lane. The analysis of this report concludes that improving the intersection geometry of Woodward Rd. at University Blvd. intersection improves the Level of Service from a LOS "C" to a LOS "A."

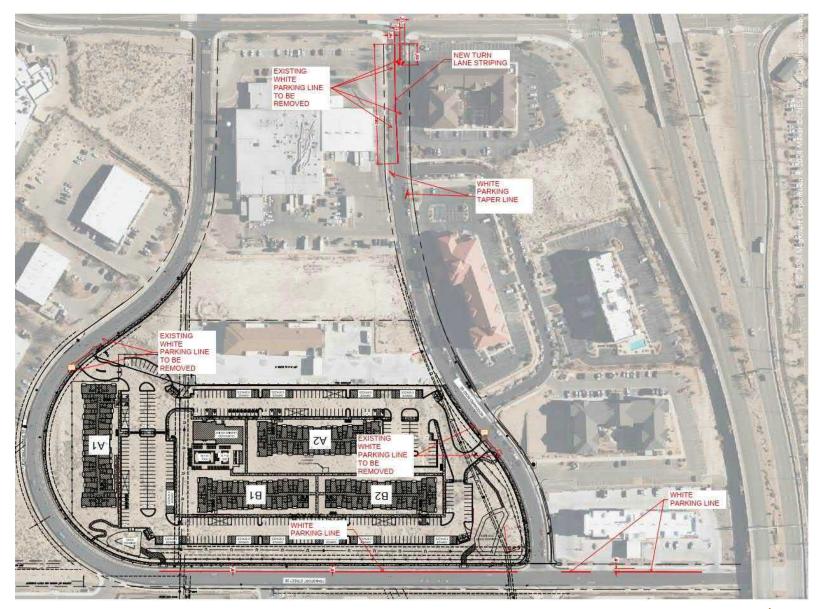




Figure 17: Proposed Striping and Intersection Mitigation

#### **Recommendations**

Based on the LOS increase generated by the volume growth estimated during the implementation and horizon years it is recommended to perform a peak-hour warrant study for the unsignalized intersections of Woodward Rd. at University Blvd. Performing a peak hour signal warrant analysis would provide indications of whether the forecast volume would meet the warrant requirements. However, it should be noted that an intersection that meets the warrant requirements does not mandate installation of a traffic signal.

The intersection of Woodward Rd. at University Blvd. meets the Warrant 3 (Peak Hour) requirements. However, due to the proximity to the signalized intersection of Sunport Blvd. at University Blvd. a new signal is not recommended. Peak hour signal warrant spreadsheet is available in the Appendix 13. To mitigate the delays, it is recommended to remove existing on street parking along both the north and south sides of Woodward Rd. from the stop bar to 265 ft west, then add an eastbound left-turn lane. The striping and lane configuration is available in Appendix 13.

New on-street parking striping is recommended along the east side of Transport St. This will create an opportunity for additional parking for surrounding commercial lodging and residential housing. All new construction associated with this project shall maintain adequate sight distances at driveways and intersections.

This project can be accessed with the two proposed driveways shown on the site plan. Both driveways can be constructed with one entering lane and one existing lane.

#### **Bibliography**

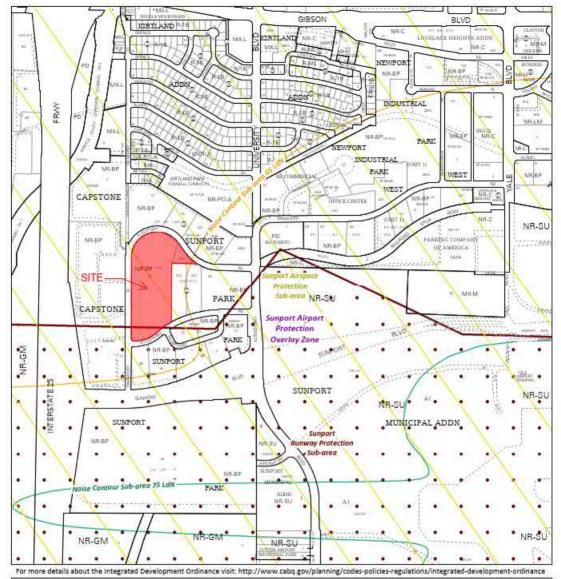
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  - 4.67703481h,3.54318425t,0.37739996r
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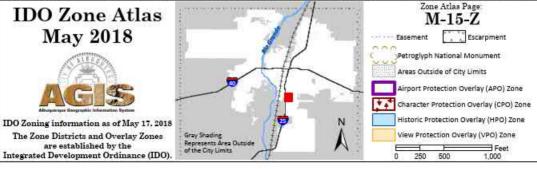
**Appendices** 

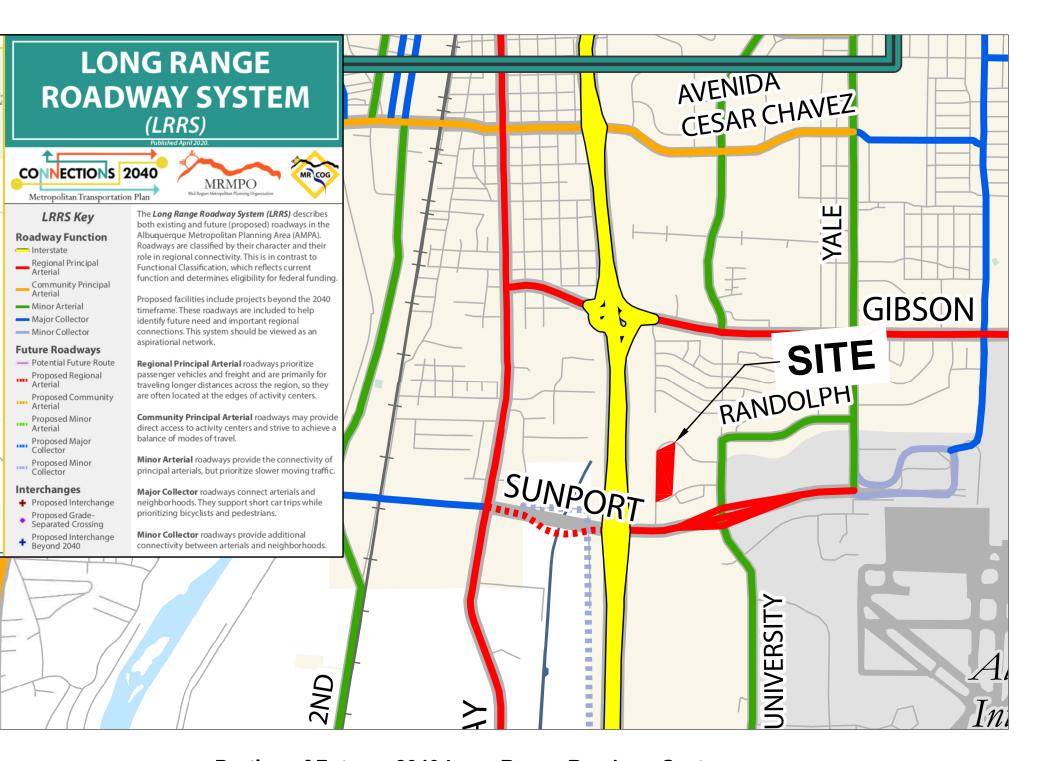
Site Information	
Vicinity Map - Zone Atlas	A-01.1
Vicinity Map - Google Earth	A-01.2
Long Range Roadway System	A-01.3
Long Range Bike System	A-01.4
Traffic Impact Study Scope	A-02.5 thru 02.10
Site Plan	A-03.11
Trip Generation	A-04
Trip Generation Summary & Worksheets	A-04.12 thru04.19
OTISS Trip Generation Calculations	A-04.20 thru 04.28
Traffic Data	A-05
Traffic Count Data Sheets	A-05.29 thru 05.36
Background Growth	A-06
Background Growth Worksheet	A-06.37
Historic Background Growth Graph	A-06.38
Trip Distribution and Trip Assignments	A-07
Trip Distribution Subarea Map (MRCOG)	A-07.39
Trip Distribution Worksheet	A-07.40 thru 07.44
Residential Trip Distribution Map	A-07.45 thru 07.46
Residential Trip Assignments Map (% Entering)	A-07.47
Residential Trip Assignments Map (% Exiting)	A-07.48
2025 Turning Movement Counts	A-08
Turning Movement Volumes Summary Sheet	A-08.49 thru 08.50
Flightway Ave. at University Blvd. (Unsignalized)	A-08.51 thru 08.52
Woodward Rd. at University Blvd. (Unsignalized )	A-08.53 thru 08.54
Woodward Rd. at Transport St. (Unsignalized )	A-08.55 thru 08.56
DaVita Access & Transport St. (Unsignalized )	A-08.57 thru 08.58
Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)	A-08.59 thru 08.60
Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)	A-08.61 thru 08.62
2035 Turning Movement Counts	A-09
Turning Movement Volumes Summary Sheet	A-09.63 thru 09.64

Flightway Ave. at University Blvd. (Unsignalized)	A-09.65 thru 09.66
Woodward Rd. at University Blvd. (Unsignalized )	A-09.67 thru 09.68
Woodward Rd. at Transport St. (Unsignalized )	A-09.69 thru 09.70
DaVita Access & Transport St. (Unsignalized )	A-09.71 thru 09.72
Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)	A-09.73 thru 09.74
Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)	A-09.75 thru 09.76
2025 Intersection Analysis	A-10
Flightway Ave. at University Blvd. (Unsignalized)	A-10.77-10.80
Woodward Rd. at University Blvd. (Unsignalized)	A-10.81-10.84
Woodward Rd. at Transport St. (Unsignalized)	A-10.85-10.88
Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)	A-10.89 thru 10.90
Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)	A-10.91 thru 10.92
2025 Conditions - LVAM Excel Tables	A-10.93 thru 10.98
2035 Intersection Analysis	A-11
Flightway Ave. at University Blvd. (Unsignalized)	A-11.99 thru 11.102
Woodward Rd. at University Blvd. (Unsignalized)	A-11.103 thru 11.106
Woodward Rd. at Transport St. (Unsignalized)	A-11.107 thru 11.110
Woodward Rd. & Driveway "A" (Unsignalized Proposed Driveway)	A-11.111 thru 11.112
Flightway Ave. & Driveway "B" (Unsignalized Proposed Driveway)	A-11.113 thru 11.114
2035 Conditions - LVAM Maps Excel Tables	A-11.115 thru 11.120
Crash Analysis 2018-2022	A-12
Crash Analysis Summary and Worksheets	A-12.121 thru 12.135
Peak Hour Analysis	A-13
Crash Analysis Summary and Worksheets	A-13.136

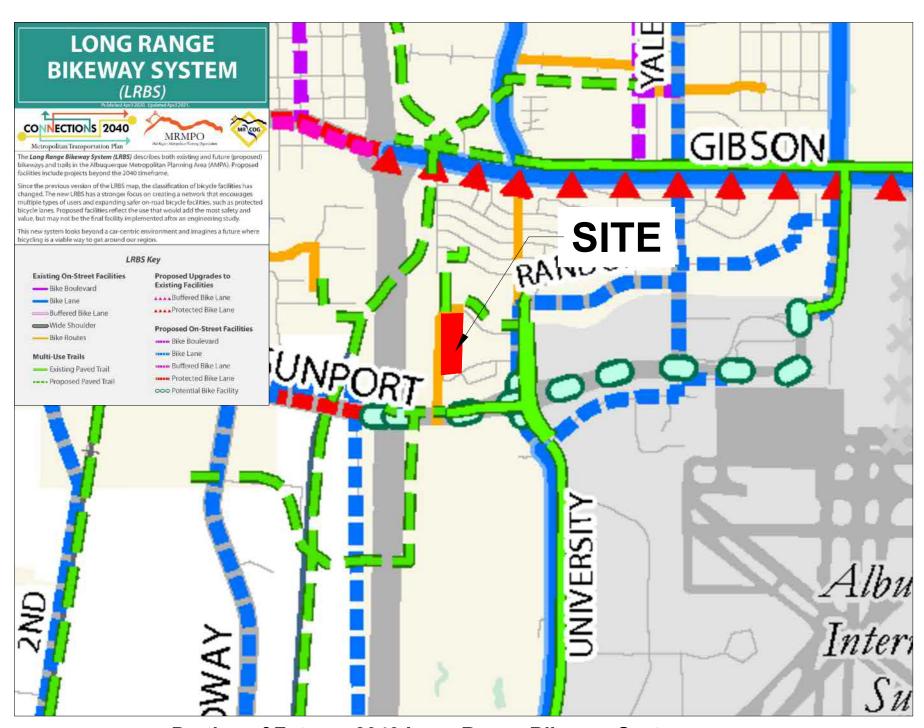
### Appendix 01



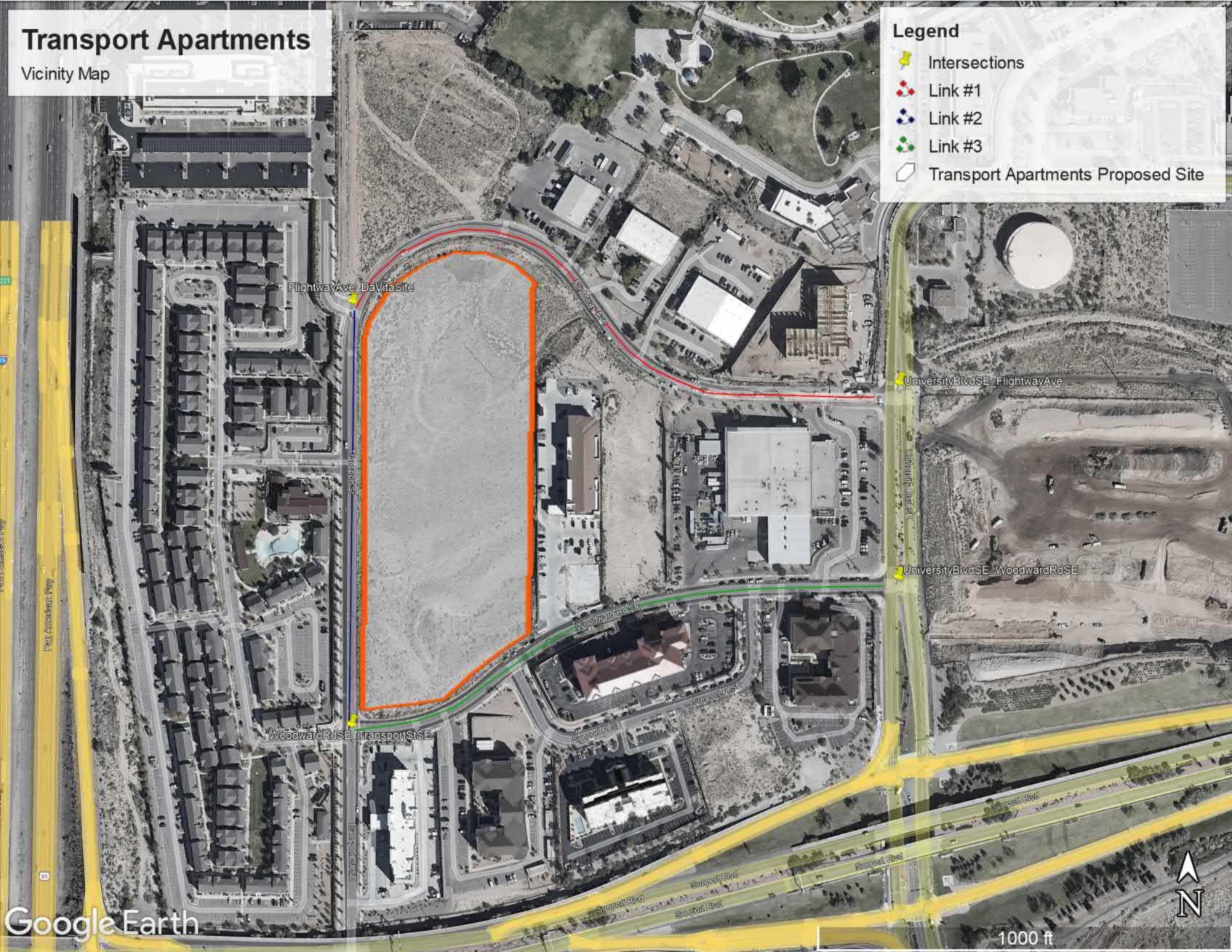




Portion of Futures 2040 Long Range Roadway System (from Mid-Region Council of Governments)



Portion of Futures 2040 Long Range Bikeway System (from Mid-Region Council of Governments)



Appendix 02

# SCOPE OF TRAFFIC IMPACT STUDY (TIS)

TO:	P. O. B	rown . Brown, P. ox 92051 erque, NM		1				
MEET	ING DAT	Γ <b>E</b> : Thu	rsday, Ma	rch 28, 2024	at 9:00 am			
	<b>NDEES:</b> iski, Vinn			h (City of Alberts, and Terr	,		annan, Derek Bohai t LLC).	nnan,
PROJ	ECT:	<u>Transport</u>	<u>Apartmen</u>	its (2900 Tra	nsport St.	SE)		
REQU	IESTED (	CITY ACTI	ON:	_ Zone Char	nge <u>X</u>	_ Site De	velopment Plan	
	_ Subdiv	ision X	_ Building	Permit	_ Sector Pla	an	_Sector Plan Amen	dment
	_ Curb C	ut Permit	Cond	litional Use	Annex	kation _	Site Plan Amend	ment
				•	•		what, etc. Include ac nd high-rise apartme	•
The T		act Study s					ch is outlined in the of this specific stud	
1.	•		may be us				etermined by staff.	
2.		riate study ed Intersed None						
	a. b. c.	Flightway <i>A</i> Woodward	Rd. SE / U ve. SE / U Rd. SE / T	Jniversity Blv Iniversity Blv ransport St. sport St.) / Pr	d. SE SE	vay to Da <sup>v</sup>	Vita site.	
	Drivewa	ay Intersect	ions: all si	te drives. (2)				
3.	Stud		9 a.m. pe	nt counts eak hour, 4-6 all intersection				
Ту	pe III arri	val type (se	ee "Highwa	• •	∕lanual, curi	rent editio	n" or equivalent as and % heavy comme	ercial

5. Boundaries of area to be used for trip distribution.

from current count data by consultant.

should be taken directly from the MRCOG turning movement data provided or as calculated

City Wide - residential, office or industrial; 2-mile radius – commercial; (consultant to proposed preliminary trip distribution criteria for approval by City of Albuquerque. Interstate or to be determined by consultant - motel/hotel APS district boundary mapping for each school and bus routes

6. Basis for trip distribution.

Residential – Use inverse relationship based upon distance and employment. Use employment data from 2040 Socioeconomic Forecasts, MRCOG – See MRCOG website for most current data.

Office/Industrial - Use inverse relationship based upon distance and population. Use population data from 2040 Socioeconomic Forecasts, MRCOG – See MRCOG website for most current data.

Commercial - Use relationship based upon population. Use population data from 2040 Socioeconomic Forecasts, MRCOG — See MRCOG website for most current data.

Residential - Ts = (Tt)(Se/D)/(Se/D)

Ts = Development to Individual Subarea Trips

Tt = Total Trips

Se = Subarea Employment

D = Distance from Development to Subarea

Office/Industrial - Ts = (Tt)(Sp/D)/(Sp/D)

Ts = Development to Individual Subarea Trips

Tt = Total Trips

Sp = Subarea Population

D = Distance from Development to Subarea

Commercial -

Ts = (Tt)(Sp)/(Sp)

Ts = Development to Individual Subarea Trips

Tt = Total Trips

Sp = Subarea Population

- 7. Traffic Assignment. Logical routing on the major street system.
- 8. Proposed developments which have been approved but not constructed that are to be Included in the analyses. Projects in the area include:
  - None.
- 9. Method of intersection capacity analysis planning or operational (see "2016 Highway Capacity Manual" or equivalent [i.e. HCS, Synchro, Teapac, etc.] as approved by staff). Must use latest version of design software and/or current edition of design manual.

Implementation Year: 2025

Horizon Year: 2035

- 10. Traffic conditions for analysis:
  - a. Existing analysis \_\_\_ yes \_X\_ no year (xxxx);
  - b. Phase implementation year(s) without proposed development 2025
  - c. Phase implementation year(s) with proposed development 2025
  - d. Project horizon year without proposed development 2035

_	Project horizon year with proposed development – 2035 Other –
_	

11. Background traffic growth.

Method: use 10-year historical growth based on standard data from the MRCOG Traffic Flow Maps. Minimum growth rate to be used is 1/2%.

12. Planned (programmed) traffic improvements.

List planned CIP improvements in study area and projected project implementation year:

- a. Project Location (Implementation Year)
- 13. Items to be included in the study:
  - a. Intersection analysis.
  - b. Signal progression An analysis is required if the driveway analysis indicates a traffic signal is possibly warranted. Analysis Method:
  - c. Arterial LOS analysis;
  - d. Recommended street, intersection and signal improvements.
  - e. Site design features such as turning lanes, median cuts, queuing requirements and site circulation, including driveway signalization and visibility.
  - f. Transportation system impacts.
  - g. Other mitigating measures.
  - h. Accident analyses \_\_\_ yes \_X\_ no; Location(s): 5 year history (2015-2019)
  - i. Weaving analyses \_\_\_yes \_X no; Location(s):
- 14. Other:

#### **SUBMITTAL REQUIREMENTS:**

- 1. Number of copies of report required
  - a. 1 digital copy
- 2. Submittal Fee \$1300 for up to 3 reviews

The Traffic Impact Study for this development proposal, project name, shall be performed in accordance with the above criteria. If there are any questions regarding the above items, please contact me at 924-3362.

MPn-P.E.	3/28/2024
Matt Grush, P.E.	Date
Senior Engineer	
City of Albuquerque Planning	

via: email

C: TIS Task Force Attendees, file

Transportation Development Section



# City of Albuquerque

Planning Department
Development Review Services Division

# Traffic Scoping Form $({\hbox{\scriptsize REV}}\ 12/2020)$

Project Title: Transport Apartments Building Per	rmit #: Hydrology File #: M15D023H
Zone Atlas Page: M-15 DRB#: PR-2021-005459 EPC	
Legal Description: Lots 1-A and 2-A-1 Block 2 Sunport P	ark
City Address: 2900 Transport St SE	
Applicant: Tierra West, LLC	Contact: Vinny Perea
Address: 5571 Midway Park Pl NE	
Phone#: _505-858-3100 Fax#:	E-mail: vperea@tierrawestllc.com
Development Information	
Build out/Implementation Year: 2025	Current/Proposed Zoning: NR-BP
Project Type: New: (x) Change of Use: ( ) Same Use/U	nchanged: ( ) Same Use/Increased Activity: ( )
Proposed Use (mark all that apply): Residential: (x) Office	e: ( ) Retail: ( ) Mixed-Use: ( )
Describe development and Uses:	
New Development of a 254-unit me	ulti-family apartment complex
Facility Building Size (sq. ft.): 281,087 SF (total gross floor area)	
Number of Residential Units: 254	
Number of Commercial Units:	
Traffic Considerations	ITE Land Use # 220 Multifamily Housing (Low-Rise) Not Close
Expected Number of Daily Visitors/Patrons (if known):*	
Expected Number of Employees (if known):*	AM peak 102 trips PM peak 130 trips
Expected Number of Delivery Trucks/Buses per Day (if know	
AM Trip Generations during PM/AM Peak Hour (if known):* PM	<del>: 22 Enter, 72 Exit (94 Total)</del> <del>: 60 Enter, 39 Exit (99 Total)</del>
Driveway(s) Located on: Street Name Woodward Rd and Flight	vay Ave
Adjacent Roadway(s) Posted Speed: Street Name Transport St	Posted Speed 30 mph
Street Name Flightway Ave	Posted Speed 30 mph
Woodward Rd	30 mph

<sup>\*</sup> If these values are not known, assumptions will be made by City staff. Depending on the assumptions, a full TIS may be required

Roadway Information (adjacent to site	<u>)</u>	Transport Flightway on	d Woodward are
Comprehensive Plan Corridor Designation/F (arterial, collecttor, local, main street)	unctional Classification:_	Transport, Flightway, and considered "Local"	u vvoodward are
Comprehensive Plan Center Designation: Number Center, employment center, activity center)	/A		
Jurisdiction of roadway (NMDOT, City, Cou			
Adjacent Roadway(s) Traffic Volume: Not a		lume-to-Capacity Ratio:	Not available through MRCOG
Adjacent Transit Service(s):_Bus Route 222 on	,	$\begin{array}{c} \text{applicable)} \\ \text{on Randolph R} \\ \text{nsit Stop(s):}  \text{2800' from site} \end{array}$	d, west of Buena Vista Dr as the crow flies
Is site within 660 feet of Premium Transit?:_	No	<del></del>	
Current/Proposed Bicycle Infrastructure:	Flightway Ave - San Jose Later Transport St - Sunport Intercha	al Trail (proposed) - paved trail nge Con SE (existing) - cars & b	icycles share the street
Current/Proposed Sidewalk Infrastructure: _	Proposed 6' sidewalk alo	ng entire frontage of site	
Relevant Web-sites for Filling out Roadway	Information:		
City GIS Information: <a href="http://www.cabq.gov/gi.">http://www.cabq.gov/gi.</a>	s/advanced-map-viewer		
Comprehensive Plan Corridor/Designation: htt	ps://abc-zone.com/documen	t/abc-comp-plan-chapter-5-la	and-use (map after Page 5-5)
Road Corridor Classification: <a href="https://www.mr">https://www.mr</a> <a href="https://www.mr">PDF?bidId=</a>	cog-nm.gov/DocumentCent	er/View/1920/Long-Range-F	Roadway-System-LRRS-
Traffic Volume and V/C Ratio: https://www.mi	cog-nm.gov/285/Traffic-Co	ounts and https://public.mi	rcog-nm.gov/taqa/
Bikeways: <a href="http://documents.cabq.gov/planning/a81">http://documents.cabq.gov/planning/a81</a> )	dopted-longrange-plans/BT	FP/Final/BTFP%20FINAL_	Jun25.pdf (Map Pages 75 to
TIS Determination  Note: Changes made to development propos	als / assumptions, from th	e information provided ab	pove, will result in a new
TIS determination.	•		
Traffic Impact Study (TIS) Required: Yes	✓ No [ ] Borderlin	e [ ]	
Thresholds Met? Yes No [ ]			
Mitigating Reasons for Not Requiring TIS:	Previously Studied: [	]	
Notes:			
MP~~P.E.	3/27/2024		
TRAFFIC ENGINEER	DATE		

## **Submittal**

The Scoping Form must be submitted as part of any building permit application, DRB application, or EPC application. See the Development Process Manual Chapter 7.4 for additional information.

Submit by email to the City Traffic Engineer <a href="mgrush@cabq.gov">mgrush@cabq.gov</a>. Call 924-3362 for information.

## Site Plan/Traffic Scoping Checklist

Site plan, building size in sq. ft. (show new, existing, remodel), to include the following items as applicable:

- 1. Access -- location and width of driveways
- 2. Sidewalks (Check DPM and IDO for sidewalk requirements. Also, Centers have wider sidewalk requirements.)
- 3. Bike Lanes (check for designated bike routes, long range bikeway system) (check MRCOG Bikeways and Trails in the 2040 MTP map)
- 4. Location of nearby multi-use trails, if applicable (check MRCOG Bikeways and Trails in the 2040 MTP map)
- 5. Location of nearby transit stops, transit stop amenities (eg. bench, shelter). Note if site is within 660 feet of premium transit.
- 6. Adjacent roadway(s) configuration (number of lanes, lane widths, turn bays, medians, etc.)
- 7. Distance from access point(s) to nearest adjacent driveways/intersections.
- 8. Note if site is within a Center and more specifically if it is within an Urban Center.
- 9. Note if site is adjacent to a Main Street.
- 10. Identify traffic volumes on adjacent roadway per MRCOG information. If site generates more than 100 vehicles per hour, identify v/c ratio on this form.

Appendix 03

#### Monthly Monthly RSF Monthly Annual Beds Per Unit Area (SF) Per Unit Units Units Rent Rent Must = Phasing below STUDIO 12,827 \$426,720 505 1,400 \$ 2.77 \$ 35,560 Studio 25 1,600 \$ 2.21 \$ 186,944 \$2,243,328 1 Bedroom / 1 Bath 2 Bed / 2 Bath \$ 2,100 \$ 2.05 \$ 208,026 \$2,496,312 \$ 2,400 \$ 2.00 \$ 30,480 \$365,760 3 Bedroom / 2 Bath 13 \$2.15 \$ 461,010 \$5,532,120 Totals (average) 254 100% 378 844 214,313 \$1,815 YOC at Stabilization: 6.30% RSF Goal 214,313 87.0% Residential Floor Efficiency

1,	1 BED / 1 BATH	122 UNITS	48%	
1,	2 BED / 2 BATH INLINE 2-BED CORNER 2-BED	98 UNITS 54 UNITS 44 UNITS	39%	2
	3 BED / 2 BATH	14 UNITS	6%	2
=	ADDITION OF 19 F	PARKING STALL	_S = 419 S	STALLS = 1.65 STALLS/UNIT

20 UNITS

8%

STORY SF
STORIES

EARLY ESTIMATE

TOTAL SF
UNITS PER STORY
TOTAL UNITS
CONSTRUCTION

+/- 20,270 GSF
4 STORIES

+/- 81,080 GSF
UNITS
19 UNITS
76 UNITS
TYPE IIIB

**BUILDING A1 and A2** 

# **BUILDING B1 and B2**

STORY SF
STORIES

STORIES

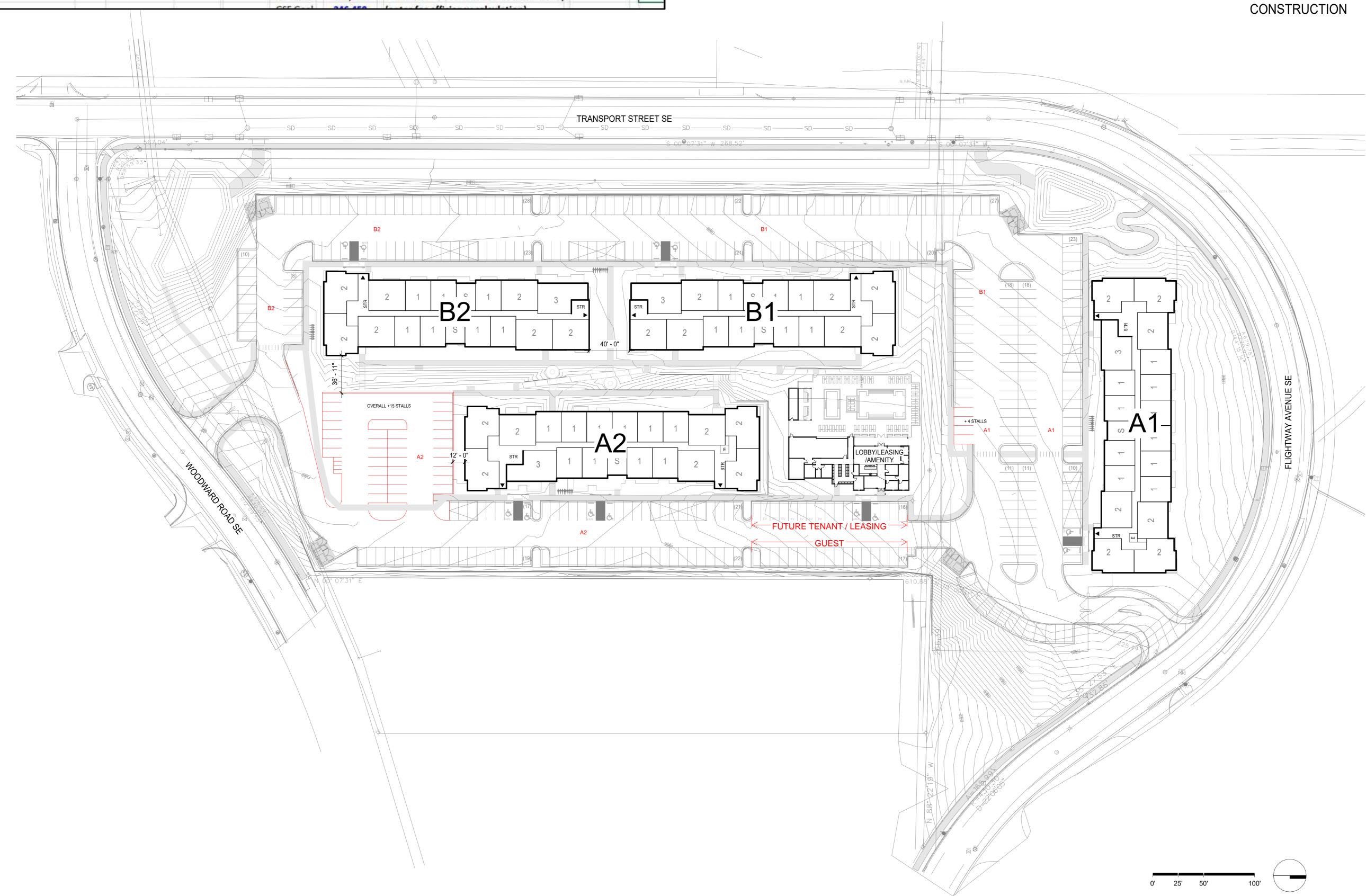
STORIES

4/- 17,728 GSF
STORIES

TOTAL SF
UNITS PER STORY
TOTAL UNITS
CONSTRUCTION

+/- 17,728 GSF
STORIES

TOTAL SF
TOTAL SF
TOTAL UNITS
TOTAL UNITS
TOTAL UNITS
TYPE VB





Opus AE Group, L.L.C. 10350 Bren Road West Minnetonka, MN 55343-0110 952-656-4444

Opus Design Build, L.L.C. 2555 E Camelback Road, Suite 100 Phoenix, AZ 85016 602-648-5099

DESIGN ARCHITECT

TRANSPORT MF

PROJECT ADDRESS

PROJECT NUMBER 32176000

Albuquerque, NM

**ISSUE RECORD** 

DATE
05/31/2024
PROJECT MANAGER
RC
DRAWN BY

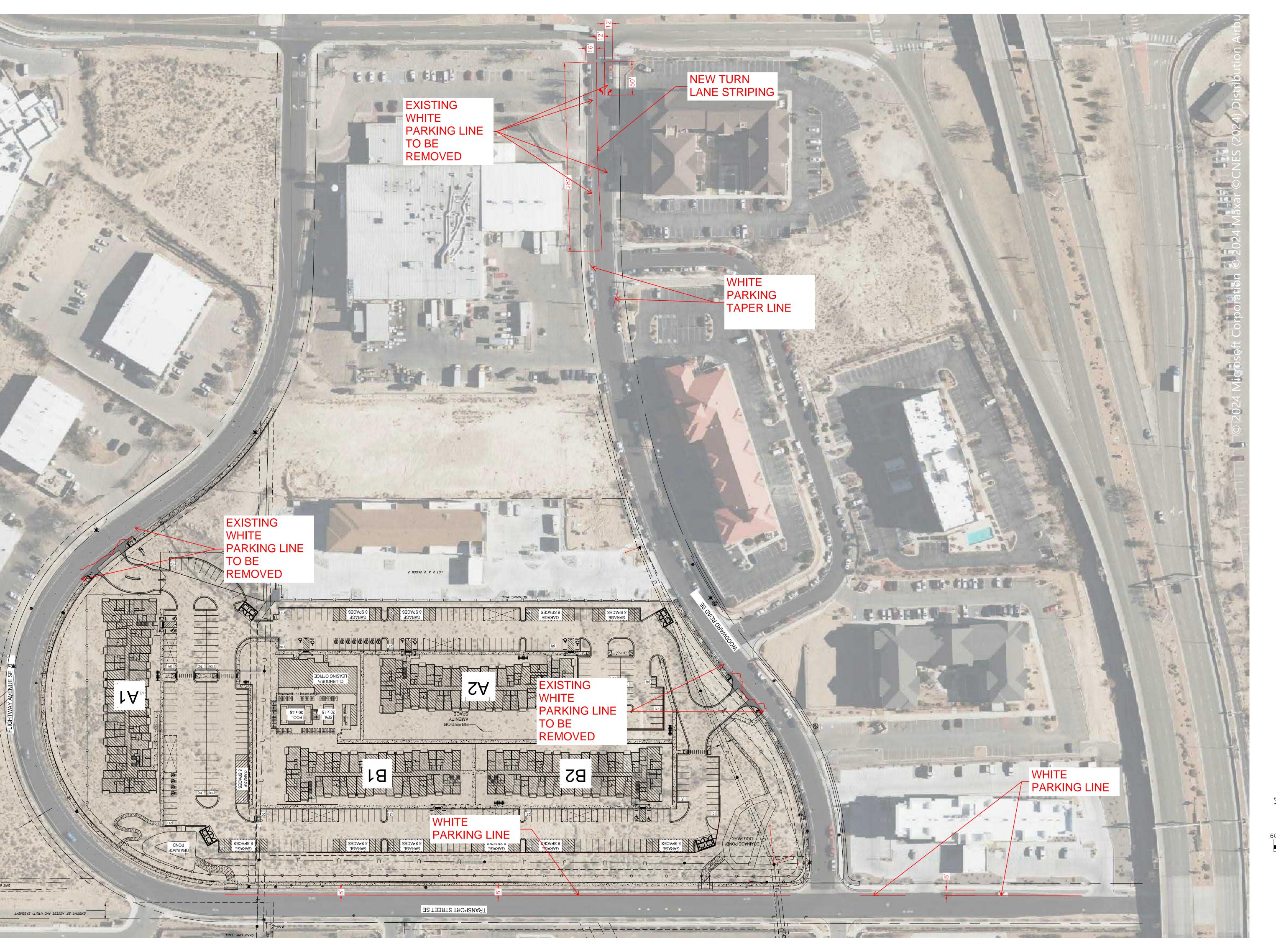
RAWN BY
G
HECKED BY

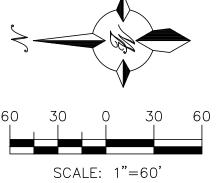
REGISTRATION

HEET TITLE

Conceptual Architectural Site Plan

SHEET NUMBER





Appendix 04

# Transport Apartments (2900 Transport St)

# Trip Generation Data (ITE Trip Generation Manual - 11th Edition)

USE (ITE CODE)			A. M. PEAK HR.		P. M. PEAK HR	
DESCRIPTION			ENTER	EXIT	ENTER	EXIT
Summary Sheet	Units					
Multifamily Housing (Mid-Rise)	164.00	745	14	47	39	25
Multifamily Housing (Low-Rise)	90.00	607	9	27	37	22
Single Tenant Office Building (715)	5.14	67	8	1	1	8
Subtotal		1.419	31	75	77	55

# Land Use: 221 Multifamily Housing (Mid-Rise)

# **Description**

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), offcampus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

# Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

#### **Additional Data**

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

#### Source Numbers

168, 188, 204, 305, 306, 321, 818, 857, 862, 866, 901, 904, 910, 949, 951, 959, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1056, 1057, 1058, 1071, 1076



# Transport Apartments (2900 Transport St) **Trip Generation Data** (ITE Trip Generation Manual - 11th Edition)

USE (ITE CODE)	24 HOUR TWO-WAY VOLUME	7	PEAK HOUR	M d	PEAK HOUR	
		GROSS	ENTER	EXIT	ENTER	EXIT
	Units					
Multifamily Housing (Mid-Rise)	164.00	745	14	47	39	25
	Dwelling Units					-

# **ITE Trip Generation Equations:**

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

T = 4.54 (X) + 0 50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

T = 0.44 (X) + -11.61 23% Enter. 77% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

T = 0.39 (X) + 0 61% Enter, 39% Exit

Comments:

Tract No.

Based on ITE Trip Generation Manual - 11th Edition

# Land Use: 220 **Multifamily Housing (Low-Rise)**

# **Description**

Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have two or three floors (levels). Various configurations fit this description, including walkup apartment, mansion apartment, and stacked townhouse.

- A walkup apartment typically is two or three floors in height with dwelling units that are accessed by a single or multiple entrances with stairways and hallways.
- A mansion apartment is a single structure that contains several apartments within what appears to be a single-family dwelling unit.
- A fourplex is a single two-story structure with two matching dwelling units on the ground and second floors. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.
- A stacked townhouse is designed to match the external appearance of a townhouse. But, unlike a townhouse dwelling unit that only shares walls with an adjoining unit, the stacked townhouse units share both floors and walls. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.

Multifamily housing (mid-rise) (Land Use 221), multifamily housing (high-rise) (Land Use 222), affordable housing (Land Use 223), and off-campus student apartment (low-rise) (Land Use 225) are related land uses.

# Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is 1/2 mile or less.

#### **Additional Data**

For the three sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.72 residents per occupied dwelling unit.

For the two sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96.2 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip



generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

For the three sites for which data were provided for both occupied dwelling units and residents, there was an average of 2.72 residents per occupied dwelling unit.

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1980s, the 1990s, the 2000s, the 2010s, and the 2020s in British Columbia (CAN), California, Delaware, Florida, Georgia, Illinois, Indiana, Maine, Maryland, Massachusetts, Minnesota, New Jersey, Ontario (CAN), Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, and Washington.

### **Source Numbers**

188, 204, 237, 300, 305, 306, 320, 321, 357, 390, 412, 525, 530, 579, 583, 638, 864, 866, 896, 901, 903, 904, 936, 939, 944, 946, 947, 948, 963, 964, 966, 967, 1012, 1013, 1014, 1036, 1047, 1056, 1071, 1076



# Transport Apartments (2900 Transport St) **Trip Generation Data** (ITE Trip Generation Manual - 11th Edition)

SE (ITE CODE)			/	PEAK HOUR	g.	PEAK HOUR
		GROSS	ENTER	EXIT	ENTER	EXIT
	Units					
Multifamily Housing (Low-Rise)	90.00	607	9	27	37	22
	Dwelling Units					

## **ITE Trip Generation Equations:**

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

T = 6.74 (X) + 0 50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

T = 0.4 (X) + 0 24% Enter, 76% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

T = 0.43 (X) + 20.55 63% Enter, 37% Exit

Comments:

Tract No.

Based on ITE Trip Generation Manual - 11th Edition

# Land Use: 221 Multifamily Housing (Mid-Rise)

# **Description**

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), offcampus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

# Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

#### Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

#### Source Numbers

168, 188, 204, 305, 306, 321, 818, 857, 862, 866, 901, 904, 910, 949, 951, 959, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1056, 1057, 1058, 1071, 1076



# Transport Apartments (2900 Transport St) **Trip Generation Data** (ITE Trip Generation Manual - 11th Edition)

USE (ITE CODE)			7 7	PEAK HOUR	M d	PEAK HOUR
		GROSS	ENTER	EXIT	ENTER	EXIT
	Units					
Single Tenant Office Building (715)	5.14	67	8	1	1	8
	1,000 S.F.				•	

# **ITE Trip Generation Equations:**

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

T = 13.07 (X) + 0 50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

T = 1.85 (X) + 0 89% Enter, 11% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

T = 1.76 (X) + 0 15% Enter, 85% Exit

Comments:

Tract No.

Based on ITE Trip Generation Manual - 11th Edition

		o -	

Scenario Name: Daily

Dev. phase: 1

User Group: No. of Years to Project Traffic :

Analyst Note:

Warning: The settings/location among the land uses do not appear to match.

#### VEHICLE TRIPS BEFORE REDUCTION

Land Use & Data Source	Location	IV	Size	Time Period	Method	Entry	Exit	Total
Lailu Ose & Data Source	Location	10	3126	Tillie Fellou	Rate/Equation	Split%	Split%	
220 - Multifamily Housing (Low-Rise) - Not Close	General	Dwelling Units	90	Weekday	Average	303	303	606
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	J J	90	Weekuay	6.74	50%	50%	600
221 - Multifamily Housing (Mid-Rise) - Not Close	Donco Multi Heo Hrban	Dwelling Units	164	Weekday	Average	240	240	480
Data Source: Trip Generation Manual, 11th Ed	Delise Multi-Ose Orban	Dweiling Offics	104	weekuay	2.93	50%	50%	460
715 - Single Tenant Office Building	General	1000 Sg. Ft. GFA	5.14	Weekday	Average	34	34	68
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	1000 Sq. Ft. GFA	5.14	weekuay	13.07	50%	50%	00

#### VEHICLE TO PERSON TRIP CONVERSION

#### **BASELINE SITE VEHICLE CHARACTERISTICS:**

Land Use	Baseline Site Vehicle Mode Share		Baseline Site Vehicle Occupancy		Baseline Site Vehicle Directional Split	
	Entry (%)	Exit (%)	Entry	Exit	Entry (%)	Exit (%)
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	100	100	1	1	50	50
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	100	100	1	1	50	50
715 - Single Tenant Office Building	100	100	1.1	1.1	50	50

#### **ESTIMATED BASELINE SITE PERSON TRIPS:**

Land Use	Person Trips by Vehicle		Person Trips by Other Modes		Total Baseline Site Person Trips	
Land OSE	Entry	Exit	Entry	Exit	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	303	303	0	0	303	303
220 - Multilallily Housing (Low-Rise) - Not Close to Rail Hallsit	606		0	0 606		06
224 Markiferrila Handra (Mid Disc) Mark Class to Bell Torock	240	240	0	0	240	240
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	480		0		480	
715 - Single Tenant Office Building	37	37	0	0	37	37
	74		0		7	74

#### INTERNAL VEHICLE TRIP REDUCTION

#### LAND USE GROUP ASSIGNMENT:

Land Use	Land Use Group
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	Residential
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	Residential
715 - Single Tenant Office Building	Office

#### INTERNAL VEHICLE TRIPS AND CAPTURE:

220 - Multifamily Housing (Low-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1.00	1.00	-

Generated By OTISS Pro v2.1

Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	303	303	606
Internal Vehicle Trip Capture	0%	0%	0%

#### 221 - Multifamily Housing (Mid-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	i
Vehicle Occupancy	1.00	1.00	i
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	240	240	480
Internal Vehicle Trip Capture	0%	0%	0%

#### 715 - Single Tenant Office Building

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1.00	1.00	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	34	34	68
Internal Vehicle Trip Capture	0%	0%	0%

#### PASS-BY VEHICLE TRIP REDUCTION

Land Use	External Vehicle Trips		Pass-by Vehicle Trip %		Pass-by Vehicle Trips	
	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	303	303	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	240	240	0.00%	0.00%	0	0
715 - Single Tenant Office Building	34	34	0.00%	0.00%	0	0

#### DIVERTED VEHICLE TRIP REDUCTION

Land Use	External	External Vehicle Trips		Diverted Vehicle Trip %		ehicle Trips
	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	303	303	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	240	240	0.00%	0.00%	0	0
715 - Single Tenant Office Building	34	34	0.00%	0.00%	0	0

#### EXTRA VEHICLE TRIP REDUCTION

Land Use	(External - (Pass-by -	(External - (Pass-by + Diverted)) Vehicle Trips		Extra Vehicle Trip Reduction %		d Vehicle Trips
	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	303	303	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	240	240	0.00%	0.00%	0	0
715 - Single Tenant Office Building	34	34	0.00%	0.00%	0	0

#### NEW VEHICLE TRIPS

Land Use		New Vehicle Trips				
	Entry	Exit	Total			
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	303	303	606			
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	240	240	480			
715 - Single Tenant Office Building	34	34	68			

#### RESULTS

Site Totals	Entry	Exit	Total
Vehicle Trips Before Reduction	577	577	1154
Internal Vehicle Trips	0	0	0
External Vehicle Trips	577	577	1154
Internal Vehicle Trip Capture	0%	0%	0%
Pass-by Vehicle Trips	0	0	0
Diverted Vehicle Trips	0	0	0
Extra Reduced Vehicle Trips	0	0	0
New Vehicle Trips	577	577	1154

		o -

Scenario Name: Daily User Group:

Dev. phase: 1 User Group:

No. of Years to Project
Traffic: 0

Analyst Note:

Warning: The time periods and settings/location among the land uses do not appear to match.

#### VEHICLE TRIPS BEFORE REDUCTION

Land Use & Data Source	Location	IV	IV Size	Time Period	Method	Entry	Entry Exit	Total													
	Location			Tillie Fellou	Rate/Equation	Split%	Split%	IOtal													
220 - Multifamily Housing (Low-Rise) - Not Close	General	Dwelling Units	90	Weekday, Peak Hour of	Average	9	27	26													
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	ŭ	90	Adjacent Street Traffic,	0.40	24%	76%	30													
221 - Multifamily Housing (Mid-Rise) - Not Close	Danca Multi Usa Urban	Dwolling Units	164	Weekday, Peak Hour of	Average	6	39	45													
Data Source: Trip Generation Manual, 11th Ed	Dense Multi-Ose Orban	Dwelling Units	Dweiling Units	Dwelling Units	Dwelling Units	Dweiling Onits	Dweiling Offics	Dweiling Offics	Dweiling Offics	Dweiling Offics	Dwelling Offics	Dweiling Offics	Dwelling Units	Dweiling Offics	Dweiling Offics	104	Adjacent Street Traffic,	0.28	14%	86%	45
715 - Single Tenant Office Building	General	1000 Sg. Ft. GFA	E 14	Weekday, Peak Hour of	Average	1	8	0													
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	1000 3q. rt. GrA 5.12	5.14	Adjacent Street Traffic,	1.76	15%	85%	] "													

#### VEHICLE TO PERSON TRIP CONVERSION

#### **BASELINE SITE VEHICLE CHARACTERISTICS:**

Land Use	Baseline Site Vehicle Mode Share		Baseline Site Vehicle Occupancy		Baseline Site Vehicle Directional Split	
Lanu Ose	Entry (%)	Exit (%)	Entry	Exit	Entry (%)	Exit (%)
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	100	100	1	1	24	76
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	100	100	1	1	14	86
715 - Single Tenant Office Building	100	100	1.1	1.1	15	85

#### **ESTIMATED BASELINE SITE PERSON TRIPS:**

Land Use	Person Trips by Vehicle		Person Trips by Other Modes		Total Baseline Site Person Trips	
	Entry	Exit	Entry	Exit	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	9	27	0	0	9	27
	36		0		36	
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	6	39	0	0	6	39
221 - Multilallily Housing (Mid-Rise) - Not Close to Rail Hallsit	45		0		45	
74E Cinela Tanant Office Building	1	8	0	0	1	8
715 - Single Tenant Office Building	9		0		9	

#### INTERNAL VEHICLE TRIP REDUCTION

#### LAND USE GROUP ASSIGNMENT:

Land Use	Land Use Group
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	Residential
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	Residential
715 - Single Tenant Office Building	Office

#### INTERNAL VEHICLE TRIPS AND CAPTURE:

220 - Multifamily Housing (Low-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1.00	1.00	-

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Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	9	27	36
Internal Vehicle Trip Capture	0%	0%	0%

#### 221 - Multifamily Housing (Mid-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1.00	1.00	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	6	39	45
Internal Vehicle Trip Capture	0%	0%	0%

#### 715 - Single Tenant Office Building

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1	1	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	1	8	9
Internal Vehicle Trip Capture	0%	0%	0%

#### PASS-BY VEHICLE TRIP REDUCTION

Land Use	External Vehicle Trips		Pass-by Vehicle Trip %		Pass-by Vehicle Trips	
Lanu Ose	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	9	27	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	6	39	0.00%	0.00%	0	0
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0

#### DIVERTED VEHICLE TRIP REDUCTION

Land Use	External Vehicle Trips		Diverted Vehicle Trip %		Diverted Vehicle Trips	
Lanu Ose	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	9	27	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	6	39	0.00%	0.00%	0	0
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0

#### EXTRA VEHICLE TRIP REDUCTION

Land Use	(External - (Pass-by + Diverted)) Vehicle Trips		Extra Vehicle Trip Reduction %		Extra Reduced Vehicle Trips	
Lanu Ose	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	9	27	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	6	39	0.00%	0.00%	0	0
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0

#### NEW VEHICLE TRIPS

Land Use	New Vehicle Trips					
	Entry	Exit	Total			
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	9	27	36			
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	6	39	45			
715 - Single Tenant Office Building	1	8	9			

#### RESULTS

Site Totals	Entry	Exit	Total
Vehicle Trips Before Reduction	16	74	90
Internal Vehicle Trips	0	0	0
External Vehicle Trips	16	74	90
Internal Vehicle Trip Capture	0%	0%	0%
Pass-by Vehicle Trips	0	0	0
Diverted Vehicle Trips	0	0	0
Extra Reduced Vehicle Trips	0	0	0
New Vehicle Trips	16	74	90

Scenario - 1		
Scenario Name: Daily	User Group:	
Dev. phase: 1	No. of Years to Project <sub>0</sub> Traffic :	
Analyst Note:		

Warning: The settings/location among the land uses do not appear to match.

#### VEHICLE TRIPS BEFORE REDUCTION

Land Use & Data Source	Location	IV	Size	Time Period	Method	Entry	Exit	Total				
Lailu Ose & Data Source	Location	IV	3126	Size Time Period	Rate/Equation	Split%	Split%	Iotai				
220 - Multifamily Housing (Low-Rise) - Not Close	General	Dwelling Units	90	Weekday, Peak Hour of	Best Fit (LIN)	37	22	FO				
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	· ·	90	Adjacent Street Traffic,	T = 0.43(X) + 20.55	63%	37%	39				
221 - Multifamily Housing (Mid-Rise) - Not Close	Donco Multi Heo Hrban	Dwelling Units	164	Weekday, Peak Hour of	Average	32	11	43				
Data Source: Trip Generation Manual, 11th Ed	Dense Multi-ose orban Dwelling Offics	Dwelling Units	Dweiling Offics	Dweiling Units	Dweiling Units	Dwelling Offics	104	Adjacent Street Traffic,	0.26	74%	26%	43
715 - Single Tenant Office Building	General	1000 Sg. Ft. GFA	E 14	Weekday, Peak Hour of	Average	1	8	0				
Data Source: Trip Generation Manual, 11th Ed	Urban/Suburban	1000 Sq. Ft. GFA	1000 Sq. Ft. GFA 5.14	Adjacent Street Traffic,	1.76	15%	85%	9				

#### VEHICLE TO PERSON TRIP CONVERSION

#### **BASELINE SITE VEHICLE CHARACTERISTICS:**

Land Use	Baseline Site Vehicle Mode Share		Baseline Site Vehicle Occupancy		Baseline Site Vehicle Directional Split	
Lanu Ose	Entry (%)	Exit (%)	Entry	Exit	Entry (%)	Exit (%)
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	100	100	1	1	63	37
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	100	100	1	1	74	26
715 - Single Tenant Office Building	100	100	1.1	1.1	15	85

#### ESTIMATED BASELINE SITE PERSON TRIPS:

Land Use	Person Trips by Vehicle		Person Trips by Other Modes		Total Baseline Site Person Trips	
Land OSE	Entry	Exit	Entry	Exit	Entry	Exit
220 Markifernik Hanning (Law Bire) Mat Class to Beil Toronit	37	22	0	0	37	22
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	59		0		59	
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	32	11	0	0	32	11
221 - Multilallily Housing (Mid-Rise) - Not Close to Rail Hallsit	43		0		43	
715 - Single Tenant Office Building	1	8	0	0	1	8
715 - Shighe Terrant Office Building	9		0		9	

#### INTERNAL VEHICLE TRIP REDUCTION

#### LAND USE GROUP ASSIGNMENT:

Land Use	Land Use Group
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	Residential
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	Residential
715 - Single Tenant Office Building	Office

#### **BALANCED PERSON TRIPS:**

220 - Multifamily Housing (	(Low-Rise)-Not Close	to Rail Transit				221 - Multifamily Housing (Mid-Rise)-Not Close to Rail Tra					
Persons Exit	PAF	UIPTC	<b>Unconstrained Demand</b>	==>>> BALANCED ==>>>	Unconstrained Demand	UIPTC	PAF	Persons Entry			
22	1	0	0	0	0	0	1	32			
Persons Entry	PAF	UIPTC	Unconstrained Demand	<<== BALANCED <<<==	Unconstrained Demand	UIPTC	PAF	Persons Exit			
37	1	0	0	0	0	0	1	11			

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220 - Multifamily Housing	(Low-Rise)-Not Close	to Rail Transit					715 - Si	ngle Tenant Office Building
Persons Exit	PAF	UIPTC	Unconstrained Demand	==>>> BALANCED ==>>>	Unconstrained Demand	UIPTC	PAF	Persons Entry
22	1	2	0	0	0	28.5	1	1
Persons Entry	PAF	UIPTC	Unconstrained Demand	<<== BALANCED <<<==	<b>Unconstrained Demand</b>	UIPTC	PAF	Persons Exit
37	1	2	1	0	0	1	1	8
221 - Multifamily Housing	(Mid-Rise)-Not Close	to Rail Transit					715 - Si	ngle Tenant Office Building
Persons Exit	PAF	UIPTC	Unconstrained Demand	==>>> BALANCED ==>>>	<b>Unconstrained Demand</b>	UIPTC	PAF	Persons Entry
11	1	2	0	0	0	28.5	1	1
Persons Entry	PAF	UIPTC	Unconstrained Demand	<<== BALANCED <<<==	<b>Unconstrained Demand</b>	UIPTC	PAF	Persons Exit
32	1	2	1	0	0	1	1	8

#### INTERNAL VEHICLE TRIPS AND CAPTURE:

#### 220 - Multifamily Housing (Low-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1	1	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	37	22	59
Internal Vehicle Trip Capture	0%	0%	0%

#### 221 - Multifamily Housing (Mid-Rise)-Not Close to Rail Transit

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1	1	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	32	11	43
Internal Vehicle Trip Capture	0%	0%	0%

#### 715 - Single Tenant Office Building

Total Internal Person Trips	0	0	0
Vehicle Mode Share	100%	100%	-
Vehicle Occupancy	1	1	-
Total Vehicle Internal Trips	0	0	0
Total External Vehicle Trips	1	8	9
Internal Vehicle Trip Capture	0%	0%	0%

### PASS-BY VEHICLE TRIP REDUCTION

Land Use	External \	ehicle Trips	Pass-by Vehi	cle Trip %	Pass-by Vehicle Trips			
Lanu Osc	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit		
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	37	22	0.00%	0.00%	0	0		
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	32	11	0.00%	0.00%	0	0		
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0		

### DIVERTED VEHICLE TRIP REDUCTION

Land Use	External V	ehicle Trips	Diverted Veh	nicle Trip %	Diverted Vehicle Trips			
Lanu Ose	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit		
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	37	22	0.00%	0.00%	0	0		

221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	32	11	0.00%	0.00%	0	0
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0

## EXTRA VEHICLE TRIP REDUCTION

Land Use	(External - (Pass-by +	Diverted)) Vehicle Trips	Extra Vehicle Tri	p Reduction %	Extra Reduced	d Vehicle Trips
Lanu Ose	Entry	Exit	Entry (%)	Exit (%)	Entry	Exit
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	37	22	0.00%	0.00%	0	0
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	32	11	0.00%	0.00%	0	0
715 - Single Tenant Office Building	1	8	0.00%	0.00%	0	0

## NEW VEHICLE TRIPS

Land Use	New Vehicle Trips						
Latitu OSE	Entry	Exit	Total				
220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit	37	22	59				
221 - Multifamily Housing (Mid-Rise) - Not Close to Rail Transit	32	11	43				
715 - Single Tenant Office Building	1	8	9				

## RESULTS

Site Totals	Entry	Exit	Total
Vehicle Trips Before Reduction	70	41	111
Internal Vehicle Trips	0	0	0
External Vehicle Trips	70	41	111
Internal Vehicle Trip Capture	0%	0%	0%
Pass-by Vehicle Trips	0	0	0
Diverted Vehicle Trips	0	0	0
Extra Reduced Vehicle Trips	0	0	0
New Vehicle Trips	70	41	111

Appendix 05

# CAM1-University Blvd and Flightway Ave - AM

#### 0 0 Tuesday, April 9, 2024 AM Peak Hour

	Southbound							Westbound							Northbound						Eastbound					
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL	
7:30 AM	0	0	58	7	0	65	0	0	0	0	0	0	0	10	114	0	0	124	0	7	0	2	0	9	198	
7:45 AM	0	0	90	10	0	100	0	0	0	0	0	0	0	8	151	0	0	159	0	6	0	4	2	10	269	
8:00 AM	0	0	81	5	0	86	0	0	0	0	0	0	0	9	148	0	0	157	0	4	0	8	0	12	255	
8:15 AM	0	0	70	4	0	74	0	0	0	0	0	0	0	10	87	0	0	97	0	7	0	4	1	11	182	
Peak Hour Total	0	0	299	26	0	325	0	0	0	0	0	0	0	37	500	0	0	537	0	24	0	18	3	42	904	
PHF	0.000	0.000	0.831	0.650	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.925	0.828	0.000	0.000	0.844	0.000	0.857	0.000	0.563	0.375	0.875	0.840	

Vehicle	es Enterina	les On Leg	Vehicles Exiting								
I	ntersection	514	Intersection 903								
Southbound											
Cars	38	461	0	0	0						
Heavy	2	13	0	0	0						
Total	40	474	0	0	0						
	J	1	J	b	<i>5</i> : <b>7</b> :						

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		3	1	4	
Vehicles on Leg	85	puno	0	0	0	ı
199	Vehicles	Eastbound	49	1	50	
	Exiting Intersection		0	0	0	•
	114		30	5	35	



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	叅	ŋ	7	1	•							
Cars	0	1	70	841	0							
Heavy	0	0	4	12	0							
Total	0	1	74	853	0							
Northbound												
Vehicle I	es Entering ntersection	928	Vehicles Exiting Intersection 510									
	Total Vehic	les On Leg	1438									

# CAM1-University Blvd and Flightway Ave - PM

#### 0 0 Tuesday, April 9, 2024 PM Peak Hour

	I MI I CAN HOUI																								
			South	oound					West	bound			Northbound							Eastbound					
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings		VEHICLE TOTAL
4:15 PM	0	0	108	12	0	120	0	0	0	0	0	0	1	4	80	0	0	85	0	6	0	7	2	13	218
4:30 PM	0	0	140	9	0	149	0	0	0	0	0	0	0	2	84	0	0	86	0	12	0	8	0	20	255
4:45 PM	0	0	119	8	0	127	0	0	0	0	0	0	0	6	81	0	0	87	0	6	0	5	0	11	225
5:00 PM	0	0	124	13	0	137	0	0	0	0	0	0	1	6	87	0	0	94	0	8	0	8	1	16	247
Peak Hour Total	0	0	491	42	0	533	0	0	0	0	0	0	2	18	332	0	0	352	0	32	0	28	3	60	945
PHF	0.000	0.000	0.877	0.808	0.000	0.894	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.954	0.000	0.000	0.936	0.000	0.667	0.000	0.875	0.375	0.750	0.926

	Total Vehic	les On Leg		1614		
Vehicle I	es Entering ntersection	927	Vehicles Exiting Intersection 687			
		South	bound			
Cars	70	848	0	0	0	
Heavy	4	5	0	0	0	
Total	74	853	0	0	0	
		1	L	l÷	5. <b>K</b>	

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		6	2	8	
Vehicles on Leg	110	Eastbound	0	0	0	1
222	Vehicles Exiting Intersection		62	0	62	
			0	0	0	ı
	112		47	1	48	



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	* <b>!</b>	ŋ	7	1	•
Cars	0	2	35	619	0
Heavy	0	0	3	6	0
Total	0	2	38	625	0
			bound		
Vehicle I	es Entering ntersection	665	Vehicles Inters	Exiting ection	903
	Total Vehic	les On Leg		1568	

# CAM2-University Blvd and Woodward Rd - AM

#### 0 0 Tuesday, April 9, 2024 AM Peak Hour

	Southbound					Westbound			Northbound				Eastbound				I	1							
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:30 AM	0	0	54	5	0	59	0	0	0	0	0	0	0	8	118	0	0	126	0	7	0	31	0	38	223
7:45 AM	0	0	88	6	0	94	0	0	0	0	0	0	0	10	149	0	0	159	0	9	0	24	1	33	286
8:00 AM	0	0	85	3	0	88	0	0	0	0	0	0	0	24	149	0	0	173	0	6	0	27	0	33	294
8:15 AM	0	0	70	5	0	<i>7</i> 5	0	0	0	0	0	0	0	22	90	0	0	112	0	7	0	24	1	31	218
Peak Hour Total	0	0	297	19	0	316	0	0	0	0	0	0	0	64	506	0	0	570	0	29	0	106	2	135	1021
PHF	0.000	0.000	0.844	0.792	0.000	0.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.667	0.849	0.000	0.000	0.824	0.000	0.806	0.000	0.855	0.500	0.888	0.868

		les On Leg					
Vehicle I	es Entering ntersection	510	Vehicles Exiting Intersection 928				
		South	bound				
Cars	32	460	0	0	0		
Heavy	0	18	0	0	0		
Total	32	478	0	0	0		
		1	L	l÷	5. <b>X</b>		

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		2	1	3	
Vehicles on Leg	241	Eastbound	0	0	0	۱
381	Vehicles Exiting Intersection		53	2	55	۱
			0	0	0	•
	140		180	6	186	]



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	<b>∱</b>	ŋ	7	1	•
Cars	0	0	106	859	0
Heavy	0	0	2	14	0
Total	0	0	108	873	0
			bound		
Vehicle I	es Entering ntersection	981		s Exiting ection	664
	Total Vehic	les On Leg		1645	

#### CAM2-University Blvd and Woodward Rd - PM

#### 0 0 Tuesday, April 9, 2024 PM Peak Hour

			Southb	ound					Westl	bound					North	bound			1		Eastb	ound			ł
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
4:00 PM	0	0	125	8	0	133	0	0	0	0	0	0	1	29	74	0	0	104	0	16	0	22	1	38	275
4:15 PM	0	0	111	4	0	115	0	0	0	0	0	0	2	11	81	0	0	94	0	4	0	23	0	27	236
4:30 PM	0	0	141	7	0	148	0	0	0	0	0	0	3	26	80	0	0	109	0	8	0	14	1	22	279
4:45 PM	0	0	111	10	0	121	0	0	0	0	0	0	1	27	82	0	0	110	0	4	0	21	0	25	256
Peak Hour Total	0	0	488	29	0	517	0	0	0	0	0	0	7	93	317	0	0	417	0	32	0	80	2	112	1046
PHF	0.000	0.000	0.865	0.725	0.000	0.873	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.802	0.966	0.000	0.000	0.948	0.000	0.500	0.000	0.870	0.500	0.737	0.937

Vehicle	Total Vehic es Entering ntersection	les On Leg 905	Vehicle	1567 s Exiting section	662
		South			
Cars	69	830	0	0	0
Heavy	0	6	0	0	0
Total	69	836	0	0	0
	J	1	J	b	<i>⁵</i> : <b>∱</b>

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		0	3	3	
Vehicles on Leg	239	puno	1	0	1	•
474	Vehicles	Eastbound	74	1	75	
	Exiting Intersection		0	0	0	•
	235		159	4	163	•



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	<b>∱</b>	ŋ	7	1	•
Cars	0	8	162	579	0
Heavy	0	0	3	8	0
Total	0	8	165	587	0
			bound		
Vehicle I	es Entering ntersection	760		s Exiting ection	1007
	Total Vehic	les On Leg		1767	

#### **CAM3-Woodward and Transport - AM**

#### 0 0 Tuesday, April 9, 2024 AM Peak Hour

			Southb	ound					Westl	oound					Northb	ound					Eastb	ound			1
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:15 AM	0	8	0	0	0	8	0	0	0	7	0	7	0	0	0	1	0	1	0	0	0	0	0	0	16
7:30 AM	0	8	0	0	0	8	0	0	0	7	0	7	0	0	0	4	0	4	0	0	0	0	0	0	19
7:45 AM	0	15	0	0	0	15	0	0	0	7	0	7	0	0	1	3	0	4	0	0	0	0	0	0	26
8:00 AM	0	10	0	0	0	10	0	0	0	7	0	7	0	0	0	2	0	2	0	0	0	0	0	0	19
Peak Hour Total	0	41	0	0	0	41	0	0	0	28	0	28	0	0	1	10	0	11	0	0	0	0	0	0	80
PHF	0.000	0.683	0.000	0.000	0.000	0.683	0.000	0.000	0.000	1.000	0.000	1.000	0.000	0.000	0.250	0.625	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.769

	Total Vehic	les On Leg		124							
Vehicl	es Entering Intersection	71		s Exiting section	53						
	Southbound										
Cars	0	0	67	0	0						
Heavy	0	0	4	0	0						
Total	0	0	71	0	0						
	J	L	b	<b>ં.</b>							

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		0	0	0	ć
Vehicles on Leg	0	puno	0	0	0	•
0	Vehicles	Eastbound	0	0	0	
	Exiting Intersection		0	0	0	•
	0		0	0	0	•



Cars	Heavy	Total		Vehicles	
52	0	52		Entering Intersection	Total
0	0	0	Westbound	53	Vehicles on Leg
1	0	1	ound	Vehicles	136
0	0	0		Exiting Intersection	
0	0	0		83	

	<b>Á</b>	ŋ	7	1	•
Cars	2	0	0	1	12
Heavy	0	0	0	0	0
Total	2	0	0	1	12
			bound		
Vehicle I	es Entering ntersection	13		s Exiting ection	1
	Total Vehic	les On Leg		14	·

#### **CAM3-Woodward and Transport - PM**

#### 0 0 Tuesday, April 9, 2024 PM Peak Hour

			Southb	ound					West	ound					Northb	oound					Eastb	ound		ļ	ł
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through		Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
4:45 PM	0	10	1	0	0	11	0	1	0	8	0	9	0	0	0	1	0	1	0	0	0	0	0	0	21
5:00 PM	0	13	0	0	0	13	1	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	17
5:15 PM	0	15	0	0	0	15	0	0	0	12	0	12	0	0	0	2	2	2	0	0	0	0	2	0	29
5:30 PM	0	14	0	0	0	14	1	0	0	4	0	5	0	0	0	1	0	1	0	0	0	0	0	0	20
Peak Hour Total	0	52	1	0	0	53	2	1	0	27	1	30	0	0	0	4	2	4	0	0	0	0	2	0	87
PHF	0.000	0.867	0.250	0.000	0.000	0.883	0.500	0.250	0.000	0.563	0.250	0.625	0.000	0.000	0.000	0.500	0.250	0.500	0.000	0.000	0.000	0.000	0.250	0.000	0.750

		les On Leg		138							
Vehicl	Vehicles Entering 86 Vehicles Exiting Intersection										
	Southbound										
Cars	0	4	77	0	0						
Heavy	0	0	5	0	0						
Total	0	0									
		1	L	I+	s: i						

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		2	0	2	
Vehicles on Leg	0	puno	0	0	0	
0	Vehicles	Eastbound	0	0	0	
	Exiting Intersection		0	0	0	ı
	0		0	0	0	



Cars	Heavy	Total		Vehicles	
50	1	51		Entering Intersection	Total
0	0	0	Westbound	55	Vehicles on Leg
2	0	2	ound	Vehicles	150
2	0	2		Exiting Intersection	
1	0	1		95	

	<b>Á</b>	ŋ	7	1	•
Cars	2	0	0	1	11
Heavy	0	0	0	0	0
Total	2	0	0	1	11
		North	bound		
Vehicle I	es Entering ntersection	12		s Exiting ection	6
	Total Vehic	les On Leg		18	

### Flightaway and Private Drive 0 0

#### Tuesday, April 9, 2024 AM Peak Hour

			Southb	ound					West	oound			1		North	oound					Eastb	ound			
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:45 AM	0	0	6	7	0	13	0	0	0	0	0	0	0	4	5	0	0	9	0	0	0	0	0	0	22
8:00 AM	0	0	6	7	0	13	0	0	0	0	0	0	0	6	4	0	0	10	0	4	0	3	0	7	30
8:15 AM	0	0	1	6	0	7	0	0	0	0	0	0	0	3	5	0	0	8	0	5	0	0	0	5	20
8:30 AM	0	0	4	7	0	11	0	0	0	0	0	0	0	6	8	0	0	14	0	1	0	1	0	2	27
Peak Hour Total	0	0	17	27	0	44	0	0	0	0	0	0	0	19	22	0	0	41	0	10	0	4	0	14	99
PHF	0.000	0.000	0.708	0.964	0.000	0.846	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.792	0.688	0.000	0.000	0.732	0.000	0.500	0.000	0.333	0.000	0.500	0.825

			L	- I	ć ji.							
Total	59	26	0	0	0							
Heavy	0	4	0	0	0							
Cars	59	22	0	0	0							
Southbound												
Vehicl	es Entering ntersection	85	Vehicles Exiting Intersection 63									
		cles On Leg		148								

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		2	0	2	
Vehicles on Leg	18	Eastbound	0	0	0	
104	Vehicles	Eastb	13	0	13	•
	Exiting Intersection		0	0	0	•
	86		5	0	5	



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	<b>૾૽∱</b>	ๆ	7	1	~			
Cars	0	0	27	50	0			
Heavy	0	0	0	0	0			
Total	0	0	27	50	0			
		North	bound					
Vehicle I	es Entering ntersection	77	Vehicles Exiting Intersection 31					
	Total Vehic	les On Leg		108				

#### CAM4-Flightway Ave and Private Driveway - PM

#### 0 0 Tuesday, April 9, 2024 PM Peak Hour

			Southb	ound					West	oound			l		Northb	oound					Eastb	ound		ļ	ĺ
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings		VEHICLE TOTAL
4:30 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	7	0	0	7	0	10	0	2	0	12	30
4:45 PM	0	0	9	1	0	10	0	0	0	0	0	0	0	1	3	0	0	4	0	8	0	3	0	11	25
5:00 PM	0	0	16	0	0	16	0	0	0	0	0	0	0	0	8	0	0	8	0	6	0	4	0	10	34
5:15 PM	0	0	5	3	0	8	0	0	0	0	0	0	0	5	8	0	0	13	0	4	0	4	1	8	29
Peak Hour Total	0	0	41	4	0	45	0	0	0	0	0	0	0	6	26	0	0	32	0	28	0	13	1	41	118
PHF	0.000	0.000	0.641	0.333	0.000	0.703	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.813	0.000	0.000	0.615	0.000	0.700	0.000	0.813	0.250	0.854	0.868

	Total Vehic			173									
Vehicle I	es Entering Intersection	94	Vehicles Exiting Intersection 79										
Southbound													
Cars	8	82	0	0	0								
Heavy	1	3	0	0	0								
Total	9	85	0	0	0								
		1	L	I+	š. <b>Ž</b>								

	Vehicles		Cars	Heavy	Total	
Total	Entering Intersection		1	0	1	&À <b></b>
Vehicles on Leg	58	puno	0	0	0	2
74	Vehicles	Eastbound	35	0	35	3
	Exiting Intersection		0	0	0	<b>→</b>
	16		22	1	23	7



Cars	Heavy	Total		Vehicles	
0	0	0		Entering Intersection	Total
0	0	0	Westbound	0	Vehicles on Leg
0	0	0	ound	Vehicles	0
0	0	0		Exiting Intersection	
0	0	0		0	

	<b>Æ</b>	ŋ	7	1	•			
Cars	0	0	7	44	0			
Heavy	0	0	0	0	0			
Total	0	0	7	44	0			
			bound					
Vehicle I	es Entering ntersection	51	Vehicles Exiting Intersection 108					
	Total Vehic	les On Leg		159				

Appendix 06

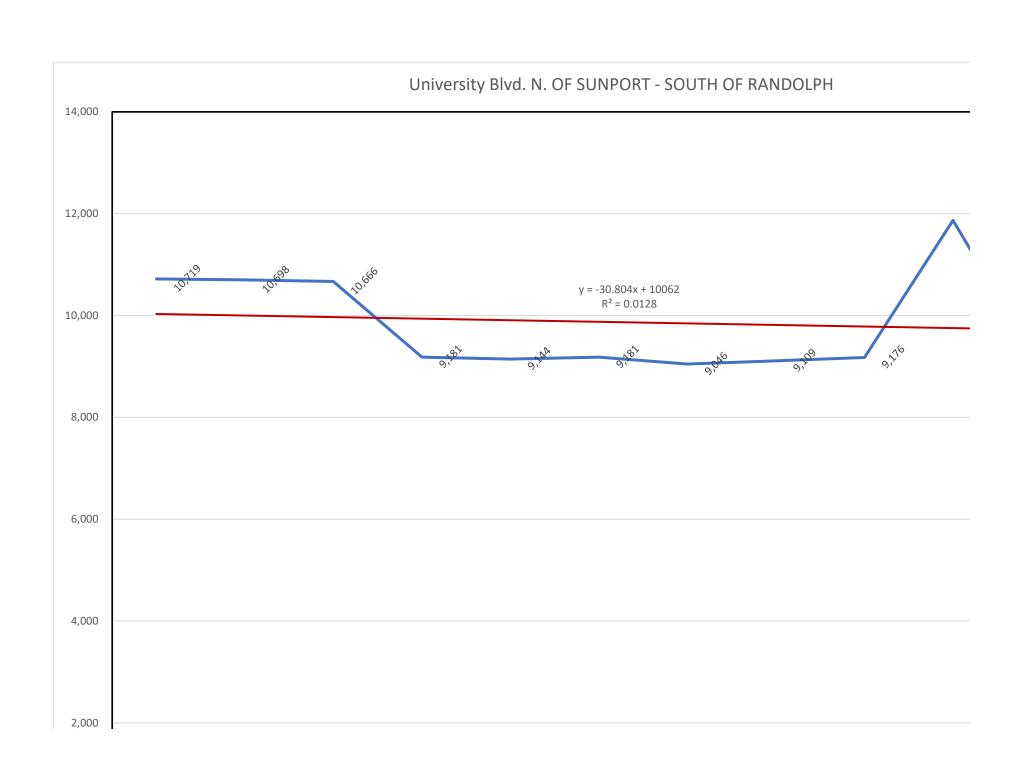
#### **Historic Growth Data Table**

#### **Transport Apartments**

(Flightway Ave /University Blvd)

#### Traffic Flows (AWDT) from Mid-Region Council of Governments

COG ID	Location	Paseo del Norte and Holbrook										
Intersection #1	UNIVERSITY / Not Found											
	Street:	From:	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2665	55 UNIVERSITY	N. OF SUNPORT/UNIV. N. RAMPS - SOUTH OF RANDOLPH	10,719	10,698	10,666	9,181	9,144	9,181	9,046	9,109	9,176	11,868



Appendix 07

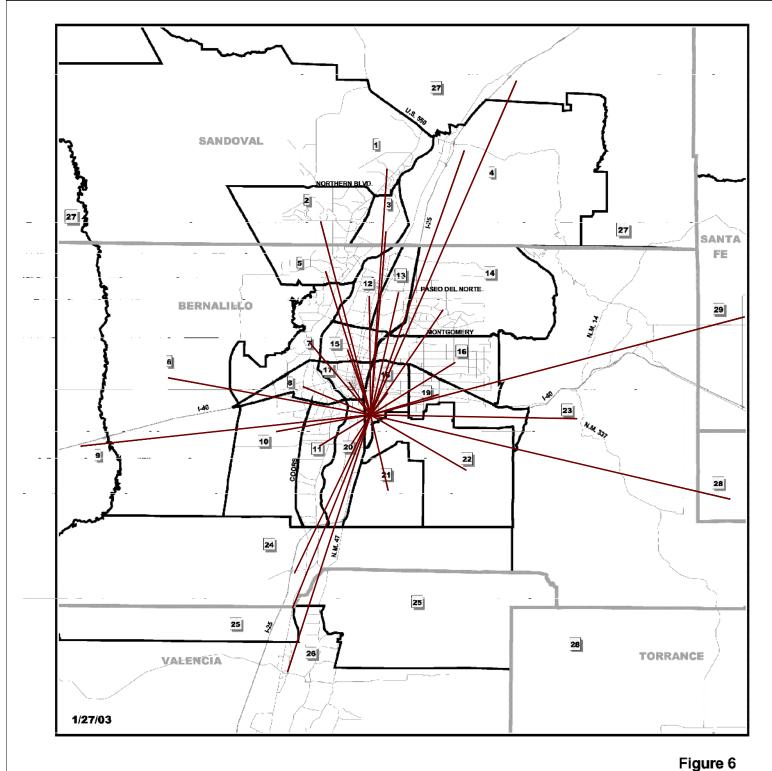


Figure 6

Subarea Identification Number

Subareas of the MRCOG Region



Subarea boundaries extend to county boundary where full extent of subarea not shown except for Subarea 29 which only includes southern Santa Fe County.

### Trip Distribution Table Project Name: Transport Apartments

#### Sub Area Employment Data:

For determination of Trip Distribution for Proposed **Residential Development Trips** 

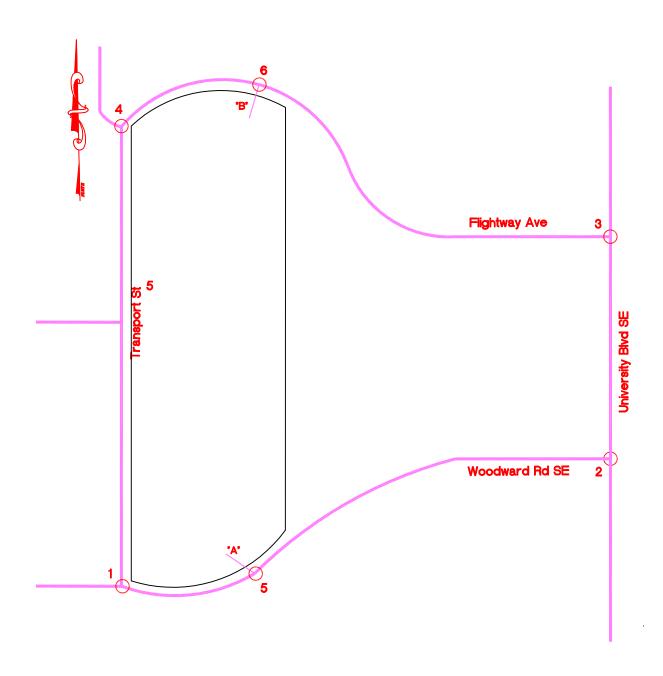
2016 and 2040 Data Taken from Mid-Region Council of Governments' 2040 Data Set Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

										UNW)			(US)		( <b>DN</b> ) DaVita North			
									Uni	versity Blvd. N	lorth	Uni	versity Blvd. S	outh				
Sub Area I.D.#	% Sub Area in Study	2016 Employment		Interpolated Employment for the Year	Employment in Study	Dist. (Mi.)	Employment / Distance	% Employment / Distance	% Utilizing	% Employment / Dist. Utilizing	Employment	% Utilizing	% Employment / Dist. Utilizing	Employment	% Utilizing	% Employment / Dist. Utilizing	Employmen	
		2016	2040	2025														
1	100%	8,354	11,675	9,599			585			0.14%	117		0.57%	468			(	
2	100%	16,637	19,808	17,826	17,826	13.3			20%	0.32%	268		1.30%	1,072			(	
3	100%	1,731	1,938	1,809				0.18%	20%	0.04%	29		0.14%	118			(	
4	100%	3,725	4,083	3,859			206		20%	0.05%	41	80%	0.20%	165			(	
5	100%	13,625	15,349	14,272				1.73%	20%	0.35%	285		1.38%	1,142			(	
6	100%	1,113	4,263	2,294	2,294	13.7	167	0.20%	30%	0.06%	50	70%	0.14%	117	0%	0.00%	(	
7	100%	9,234	11,922	10,242					30%	0.59%	488		1.38%	1,138			(	
8	100%	9,101	12,837	10,502	10,502	4.9	2,143	2.59%	50%	1.30%	1,072	50%	1.30%	1,072	0%	0.00%	(	
9	100%	724	1,023	836	836	19.4	43	0.05%	20%	0.01%	9	80%	0.04%	34	0%	0.00%	(	
10	100%	3,409	5,330	4,129	4,129	6.4	645	0.78%	20%	0.16%	129	80%	0.62%	516	0%	0.00%	C	
11	100%	5,699	6,882	6,143	6,143	4	1,536	1.86%	20%	0.37%	307	80%	1.49%	1,229	0%	0.00%	C	
12	100%	6,287	7,474	6,732	6,732	7.9	852	1.03%	20%	0.21%	170	80%	0.82%	682	0%	0.00%	0	
13	100%	38,387	42,986	40,112	40,112	8.4	4,775	5.78%	20%	1.16%	955	80%	4.62%	3,820	0%	0.00%	C	
14	100%	37,195	40,809	38,550	38,550	8.5	4,535	5.49%	20%	1.10%	907	80%	4.39%	3,628	0%	0.00%	C	
15	100%	17,358	20,784	18,643	18,643	4.6	4,053	4.90%	20%	0.98%	811	80%	3.92%	3,242	0%	0.00%	C	
16	100%	54,135	60,416	56,490	56,490	6.6	8,559	10.36%	80%	8.29%	6,847	20%	2.07%	1,712	0%	0.00%	C	
17	100%	40,280	48,177	43,241	43,241	2.6	16,631	20.13%	50%	10.06%	8,316	50%	10.06%	8,316	0%	0.00%	(	
18	100%	32,770	38,004	34,733	34,733	1.9	18,280	22.12%	75%	16.59%	13,710	20%	4.42%	3,656	5%	1.11%	914	
19	100%	24,729	28,854	26,276	26,276	4.7	5,591	6.77%	50%	3.38%	2,795	50%	3.38%	2,795	0%	0.00%	C	
20	100%	5,978	8,831	7,048	7,048	2.3	3,064	3.71%	0%	0.00%	0	100%	3.71%	3,064	0%	0.00%	C	
21	100%	1,755	4,714	2,865	2,865	5.2	551	0.67%	0%	0.00%	0	100%	0.67%	551	0%	0.00%	C	
22	100%	28,349	31,083	29,374	29,374	7.4	3,969	4.80%	0%	0.00%	0	100%	4.80%	3,969	0%	0.00%	C	
23	100%	2,923	3,349	3,083	3,083	13.8	223	0.27%	0%	0.00%	0	100%	0.27%	223	0%	0.00%	C	
24	100%	1,271	1,266	1,269	1,269	11.7	108	0.13%	0%	0.00%	0	100%	0.13%	108	0%	0.00%	C	
25	100%	112	112	112	112	13.9	8	0.01%	0%	0.00%	0	100%	0.01%	8	0%	0.00%	C	
26	100%	17,882	21,300	19,164	19,164	18		1.29%	0%	0.00%	0	100%	1.29%	1,065	0%	0.00%	C	
27	100%	5,846	6,024	5,913	5,913	24.3	243	0.29%	20%	0.06%	49	80%	0.24%	195	0%	0.00%	(	
28	100%	4,338	5,143	4,640	4,640			0.23%		0.18%	151	20%	0.05%	38		0.00%	C	
29	100%	1,784	2,111	1,907	1,907	25.8		0.09%	80%	0.07%	59	20%	0.02%	15	0%	0.00%	C	
		394,731	466,547	421,662	421,662		82,639	100.00%		45.46%	37,566		53.44%	44,159		1.11%	914	
		, -		,	,		,				45.46%			53.44%			1.11%	
0											11 450/			11 540/			11 40/	

<sup>\* -</sup> Subarea in which the site it located. Use 45% Use 54% Use 1%

### Transport Apartments - Albuquerque, NM

(Flightway Ave / University Blvd)
Intersection Reference Map





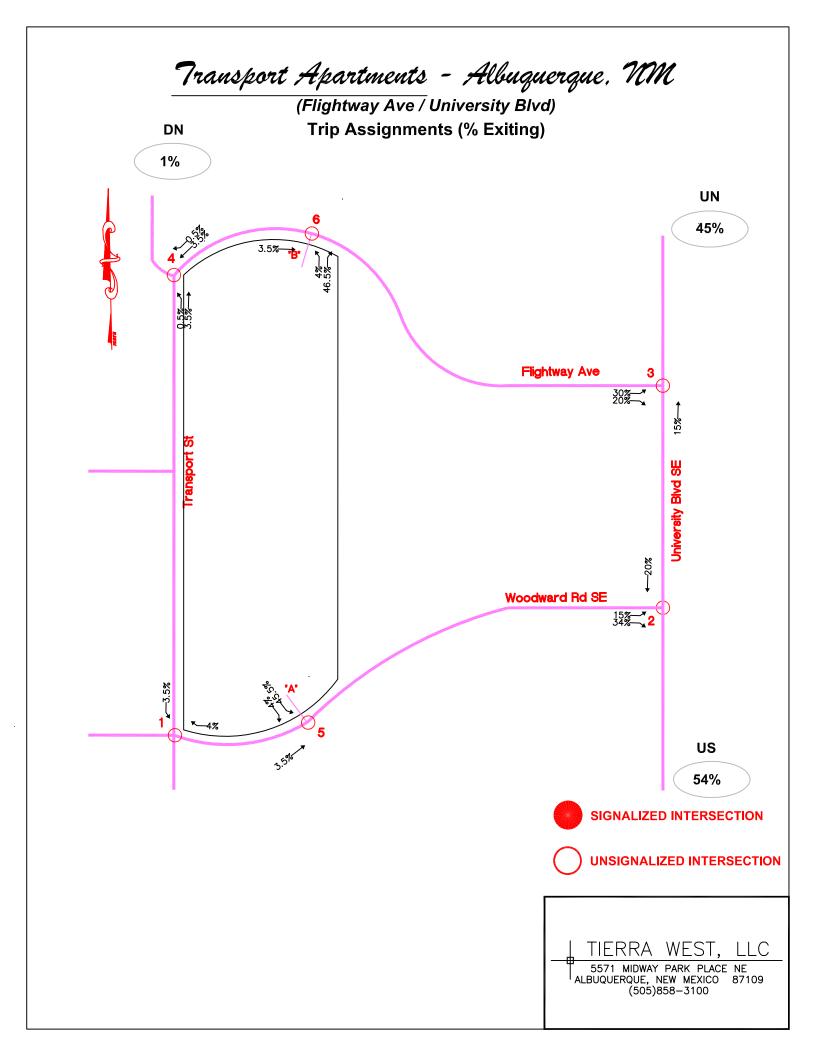
TIERRA WEST, LLC

5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505)858-3100

# Transport Apartments - Albuquerque, NM (Flightway Ave / University Blvd) **Trip Distribution Map (%)** DN 1% UN 45% Flightway Ave 3 Woodward Rd SE US 54% **SIGNALIZED INTERSECTION UNSIGNALIZED INTERSECTION** TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505)858-3100

## Transport Apartments - Albuquerque, NM (Flightway Ave / University Blvd) **Trip Assignments (% Entering)** DN 1% UN 45% Flightway Ave 15% Woodward Rd SE 2 0%—**\*** US 54% **SIGNALIZED INTERSECTION UNSIGNALIZED INTERSECTION** TIERRA WEST,

5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505)858-3100



Appendix 08

## Transport Apartments (Flightway Ave / University Blvd, NM) Projected Turning Movements SUMMARY PROPOSED DEVELOPMENT (2025) - 100% Development

INTERSECTION:	Su	m m a	r y										
Woodward Rd / Transport St		1.00			1.00			1.00			1.00	PHF	
(1)	Eastbou	nd (Woodw	ard Rd)	Westbou	ınd (Woodw	ard Rd)	Northbo	ound (Trans	port St)	Southbo	ound (Trans	port St)	
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	0	0	0	1	0	52	0	1	12	71	0	0	
2025 (NO BUILD - A.M.)	0	0	0	1	0	52	0	1	12	71	0	0	
2025 (BUILD - A.M.)	0	Õ	0	1	0	57	0	1	12	75	Õ	0	
		1.00	<u> </u>	•	1.00	<u> </u>		1.00	.=		1.00	PHF	
Ī	Eastbou	nd (Woodw	ard Rd)	Westbou	ınd (Woodw	ard Rd)	Northbo	ound (Trans	port St)	Southbound (Transport St)			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	0	0	0	4	0	51	0	1	11	82	4	0	
2025 (NO BUILD - P.M.)	0	0	0	4	0	51	0	1	11	82	4	0	
2025 (BUILD - P.M.)	0	0	0	4	0	57	0	1	11	87	4	0	
ZOZO (BOILD - 1 .M.)	U	U	U	7	v	07	U		,,	07	7		
Woodward Rd / University Bl	vd	1.00			1.00			1.00			1.00	PHF	
(2)	Eastbou	nd (Woodw	ard Rd)	Westbou	ınd (Woodw	rard Rd)	Northbou	ınd (Univers	sity Blvd)	Southboo	und (Univers	ity Blvd)	
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	55	0	186	0	0	0	106	873	0	0	478	32	
2025 (NO BUILD - A.M.)	55	0	187	0	0	0	107	877	0	0	480	32	
2025 (BUILD - A.M.)	66	0	213	0	0	0	119	881	0	0	495	37	
, , ,	U.	1.00		l.	1.00	l.		1.00			1.00	PHF	
	Eastbou	nd (Woodw	ard Rd)	Westbou	Westbound (Woodward Rd)			ınd (Univers	sity Blvd)	Southboo	und (Univers	ity Blvd)	
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	75	0	163	0	0	0	173	587	0	0	836	69	
2025 (NO BUILD - P.M.)	75	0	164	0	0	0	174	590	0	0	840	69	
2025 (BUILD - P.M.)	83	0	183	0	0	0	205	601	0	0	851	81	
						•							
Flightway Ave / University Bl		1.00			1.00			1.00			1.00	PHF	
(3)		nd (Flightw			ınd (Flightw			ınd (Univers		Southbound (University Blvd)			
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	50	0	35	0	0	0	75	853	0	0	474	40	
2025 (NO BUILD - A.M.)	50	0	35	0	0	0	75	857	0	0	476	40	
2025 (BUILD - A.M.)	73	0	50	0	0	0	79	868	0	0	481	49	
_		1.00			1.00			1.00			1.00	PHF	
		nd (Flightw			ınd (Flightw			ınd (Univers			und (Univers		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	62	0	48	0	0	0	40	625	0	0	853	74	
2025 (NO BUILD - P.M.)	62	0	48	0	0	0	40	628	0	0	857	74	
2025 (BUILD - P.M.)	79	0	59	0	0	0	51	636	0	0	869	97	
Devite Dr / Transport Ct												54.15	
Davita Dr / Transport St (4)	Eacth	1.00 ound (Davit	o Drl	Mooth	1.00 ound (Davi	to Drl	Northbe	1.00 ound (Trans	nort Ct)	Southh	1.00 ound (Transi	PHF	
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
						Ü							
Existing (2024)	13	0	5	0	0	0	27	50	0	0	26	59	
2025 (NO BUILD - A.M.)	13	0	5	0	0	0	27	50	0	0	26	59	
2025 (BUILD - A.M.)	13	0	5	0	0	0	27	55	0	0	30	59	
Γ	Eacth	1.00 ound (Davit	a Drl	Mooth	1.00 ound (Davi	ta Dr\	Northh	1.00 ound (Trans	nort St)	1.00 PHF Southbound (Transport St)			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	35	0	23	0	0	Night 0	7	44	1 Night	0	85	1Xigitt 9	
2025 (NO BUILD - P.M.)	35	0	23	0	0	0	7	44	0	0	85	9	
2025 (NO BOILD - Р.М.) 2025 (BUILD - Р.М.)	35	0	23	0	0	0	7	50	0	0	90	9	
		.,,	7.3	U	U	U	/	อบ		U	90	9 1	

INTERSECTION:

Existing (2024)

2025 (NO BUILD - P.M.)

2025 (BUILD - P.M.)

Summary

Left

0

0

0

Thru

79

79

81

0

0

4

#### Transport Apartments (Flightway Ave / University Blvd, NM)

Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2025) - 100% Development

Woodward Rd / Driveway "A' 1.00 1.00 1.00 1.00 PHF Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") 3% Truck Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing (2024) 0 0 83 0 53 0 0 0 0 0 2025 (NO BUILD - A.M.) 0 83 0 0 53 0 0 0 0 0 0 2025 (BUILD - A.M.) 0 16 0 0 0 34 1 86 0 55 0 3 1.00 1.00 1.00 1.00 Southbound (Driveway "A") Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Thru Thru Left Thru Right Thru Existing (2024) 2025 (NO BUILD - P.M.) 0 93 0 55 0 0 0 0 0 0 0 0 2025 (BUILD - P.M.) 3 95 0 0 59 39 0 0 0 25 0 Flightway Ave / Driveway "B" 1 00 1 00 1.00 1 00 PHF Northbound (Driveway "B") Eastbound (Flightway Ave) Westbound (Flightway Ave) Southbound (Driveway "B") Thru Right Thru Right Thru Right Thru Right 3% Truck Left Left Left Existing (2024) 0 85 0 63 0 0 0 0 0 0 0 2025 (NO BUILD - A.M.) 0 63 0 0 85 0 0 0 0 0 2025 (BUILD - A.M.) 86 0 66 12 3 0 35 0 0 0 0 1.00 PHF 1.00 1.00 1.00 Eastbound (Flightway Ave) Westbound (Flightway Ave) Northbound (Driveway "B") Southbound (Driveway "B")

Thru

94

97

0

0

31

Right

0

0

0

Left

0

0

2

Thru

0

0

0

Right

0

26

Thru

0

0

0

0

0

0

Right

0

0

Projected Turning Movements Worksheet

#### Woodward Rd / Transport St

0.50%

INTERSECTION: E-W Street: Woodward Rd (1)

N-S Street: Transport St

Year of Existing Counts 2024 Horizon Year 2025

**Total PM Peak Hour BUILD Volumes** 

**Growth Rates** 0.50% 0.50% 0.50%

	Eastboo	und (Woodw	ard Rd)	Westbo	und (Woodv	vard Rd)	Northbo	ound (Trans	port St)	Southbound (Transport St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	1	0	52	0	1	12	71	0	0
Background Traffic Growth	0	0	<u>0</u>	0	0	<u>0</u>	0	0	0	<u>0</u>	<u>0</u>	<u>0</u>
Subtotal (NO BUILD - A.M.)	0	0	0	1	0	52	0	1	12	71	0	0
Percent Residential Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	4.50%	0.00%	0.00%
Percent Residential Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.00%	3.50%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	5	0	0	0	4	0	0
Subtotal AM Pk Hr. BUILD Volumes	0	0	0	1	0	57	0	1	12	75	0	0
Total AM Peak Hour BUILD Volumes	0	0	0	1	0	57	0	1	12	75	0	0

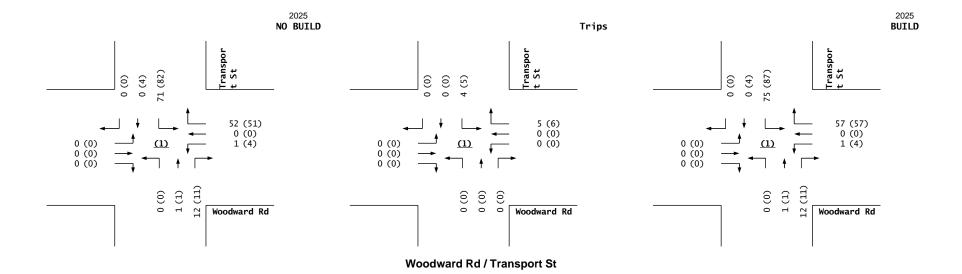
Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Transport St) Southbound (Transport St) Thru Left Thru Right Left Thru Right Left Right Left Thru Right Existing Volumes 51 82 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.)
Percent Residential Trips Generated(Entering) 0 0 0 0 51 0 11 82 0 4.50% 5.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.00% 0.00% 0.00% 3.50% 0.00% 0.00% Total Trips Generated Subtotal PM Pk Hr. BUILD Volumes 57

57

Exiting Entering Number of Residential Trips Generated 31 77 75 100% Residential Development A.M.

55

P.M.



Projected Turning Movements Worksheet

#### Woodward Rd / University Blvd

INTERSECTION: E-W Street: Woodward Rd (2)

N-S Street: University Blvd
Year of Existing Counts 2024

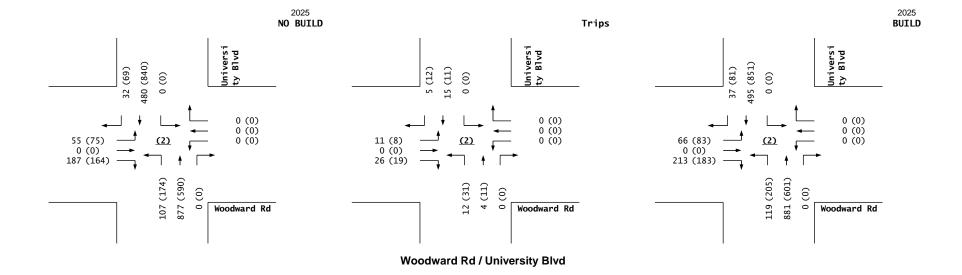
Horizon Year 2025

**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 186 478 32 55 106 873 Background Traffic Growth Subtotal (NO BUILD - A.M.) 187 107 877 480 55 0 32 Percent Residential Trips Generated(Entering) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 40.00% 14.00% 0.00% 0.00% 0.00% 15.00% Percent Residential Trips Generated(Exiting) 15.00% 0.00% 34.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 20.00% 0.00% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 66 213 119 881 495 37 Total AM Peak Hour BUILD Volumes 66 213 881 495 37 119

Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Right Existing Volumes 75 163 173 587 836 69 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.) 590 840 75 0 164 0 0 0 174 0 0 69 Percent Residential Trips Generated(Entering) 0.00% 0.00% 40.00% 14.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 15.00% 0.00% 34.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 20.00% 0.00% Total Trips Generated 19 31 11 12 Subtotal PM Pk Hr. BUILD Volumes 601 81 183 205 **Total PM Peak Hour BUILD Volumes** 183 205 601 851 81

Entering Exiting

Number of Residential Trips Generated 31 75 A.M. 100% Residential Development 77 55 P.M.



Projected Turning Movements Worksheet

#### Flightway Ave / University Blvd

79

868

481

49

E-W Street: Flightway Ave INTERSECTION: (3)

N-S Street: **University Blvd** 

73

Year of Existing Counts 2024 Horizon Year 2025

Total AM Peak Hour BUILD Volumes

**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Flightway Ave) Westbound (Flightway Ave) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 35 853 474 40 50 Background Traffic Growth Subtotal (NO BUILD - A.M.) 50 857 476 35 0 75 40 Percent Residential Trips Generated (Entering) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 14.00% 0.00% 0.00% 0.00% 15.00% 30.00% Percent Residential Trips Generated(Exiting) 30.00% 0.00% 20.00% 0.00% 0.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 73 50 79 868 49

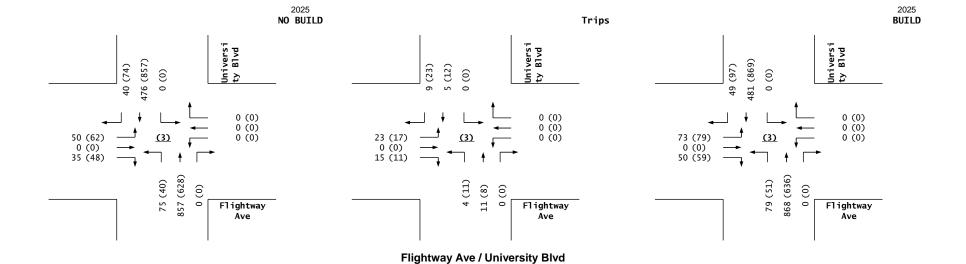
50

Northbound (University Blvd) Eastbound (Flightway Ave) Westbound (Flightway Ave) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Right Existing Volumes 62 48 40 625 853 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.) 857 62 0 48 0 0 0 40 628 0 0 74 14.00% Percent Residential Trips Generated(Entering) 0.00% 0.00% 0.00% 30.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 15.00% Percent Residential Trips Generated(Exiting) 30.00% 0.00% 20.00% 0.00% 0.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% Total Trips Generated 17 11 12 23 Subtotal PM Pk Hr. BUILD Volumes 97 **Total PM Peak Hour BUILD Volumes** 59 51 636 869 97

Exiting Entering

Number of Residential Trips Generated 75 100% Residential Development 31 A M P.M.

77 55



Projected Turning Movements Worksheet

#### Davita Dr / Transport St

27

55

59

INTERSECTION: E-W Street: Davita Dr (4)

N-S Street: **Transport St**Year of Existing Counts 2024

Total AM Peak Hour BUILD Volumes

Horizon Year 2025

**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Davita Dr) Westbound (Davita Dr) Northbound (Transport St) Southbound (Transport St) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 59 27 50 26 Background Traffic Growth Subtotal (NO BUILD - A.M.) 13 0 27 50 26 59 Percent Residential Trips Generated(Entering) 0.50% 0.00% 0.50% 0.00% 0.00% 0.00% 0.00% 5.00% 0.00% 0.00% 4.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.50% 3.50% 0.00% 0.00% 3.50% 0.50% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 13 27 55 30 59

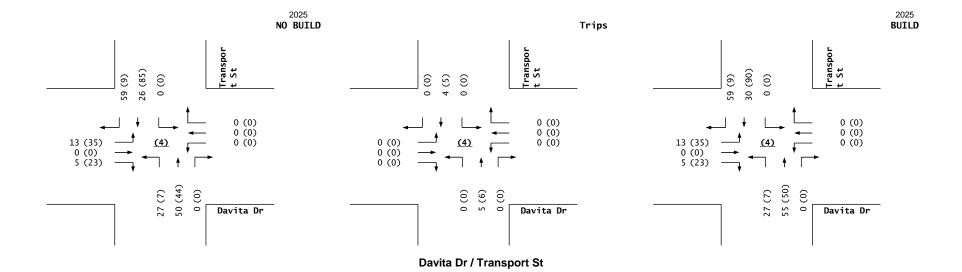
Eastbound (Davita Dr) Westbound (Davita Dr) Northbound (Transport St) Southbound (Transport St) Left Thru Right Left Thru Right Left Thru Right Left Existing Volumes 44 35 23 85 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.) 44 35 0 23 0 0 0 0 0 85 9 4.00% Percent Residential Trips Generated(Entering) 0.50% 0.00% 0.00% 5.00% 0.00% 0.00% 0.50% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.50% 3.50% 0.00% 0.00% 3.50% 0.50% Total Trips Generated 0 Subtotal PM Pk Hr. BUILD Volumes 35 **Total PM Peak Hour BUILD Volumes** 23 50

Rumber of Residential Trips Generated Entering Exiting 75

ed **31 75** A.M. **77 55** P.M.

13

100% Residential Development



Projected Turning Movements Worksheet

#### Woodward Rd / Driveway "A"

INTERSECTION: E-W Street: Woodward Rd (5)

N-S Street: Driveway "A" Year of Existing Counts 2024

Horizon Year 2025

**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 83 0 53 Background Traffic Growth Subtotal (NO BUILD - A.M.) 83 53 Percent Residential Trips Generated(Entering) 4.50% 0.00% 0.00% 0.00% 5.00% 50.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 45.50% 0.00% 4.00% Total Trips Generated

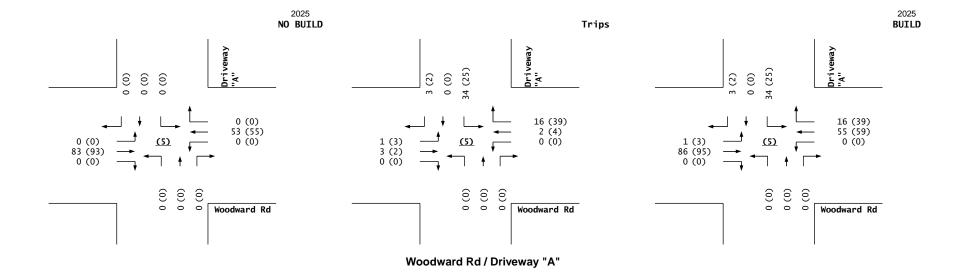
Subtotal AM Pk Hr. BUILD Volumes 86 55 16 34 Total AM Peak Hour BUILD Volumes 55 16 86

Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") Left Thru Right Left Thru Right Left Thru Right Left Existing Volumes 93 55 0 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.) 0 93 0 0 55 0 0 0 0 0 0 50.00% Percent Residential Trips Generated(Entering) 0.00% 0.00% 5.00% 0.00% 0.00% 4.50% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 45.50% 0.00% 4.00% Total Trips Generated 39 Subtotal PM Pk Hr. BUILD Volumes 95 **Total PM Peak Hour BUILD Volumes** 95 59 39 25

> Entering Exiting

Number of Residential Trips Generated 75 100% Residential Development 31 A M

77 55 P.M.



Projected Turning Movements Worksheet

#### Flightway Ave / Driveway "B"

INTERSECTION: E-W Street: Flightway Ave (6)

N-S Street: Driveway "B"

Year of Existing Counts 2024 Horizon Year 2025

**Growth Rates** 0.50% 0.50%

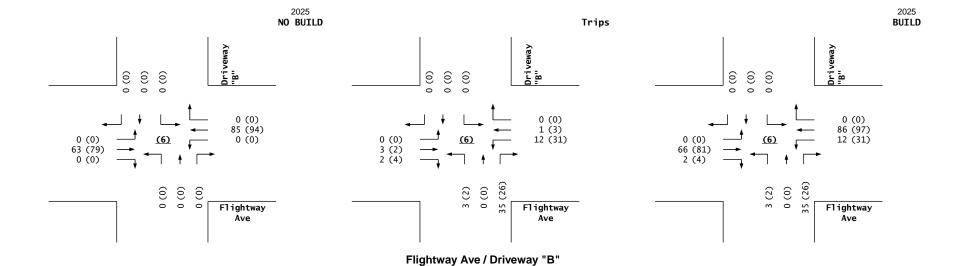
Growth Rates		0.50%			0.50%			0.50%		0.50%			
	Eastboo	und (Flightw	ay Ave)	Westbou	nd (Flightw	ay Ave)	Northbo	und (Drivew	/ay "B")	Southbound (Driveway "B")			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing Volumes	0	63	0	0	85	0	0	0	0	0	0	0	
Background Traffic Growth	0	0	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	0	<u>0</u>	<u>0</u>	
Subtotal (NO BUILD - A.M.)	0	63	0	0	85	0	0	0	0	0	0	0	
Percent Residential Trips Generated(Entering)	0.00%	0.00%	5.50%	40.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Percent Residential Trips Generated(Exiting)	0.00%	3.50%	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	46.50%	0.00%	0.00%	0.00%	
Total Trips Generated	0	3	2	12	1	0	3	0	35	0	0	0	
Subtotal AM Pk Hr. BUILD Volumes	0	66	2	12	86	0	3	0	35	0	0	0	
Total AM Peak Hour BUILD Volumes	0	66	2	12	86	0	3	0	35	0	0	0	

Westbound (Flightway Ave) Eastbound (Flightway Ave) Northbound (Driveway "B") Southbound (Driveway "B") Thru Left Thru Right Left Thru Right Left Right Left Thru Existing Volumes 94 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.)
Percent Residential Trips Generated(Entering) 0 79 0 0 0 0 0 0 0 5.50% 40.00% 4.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 4.00% 0.00% 46.50% 0.00% 0.00% Total Trips Generated 31 Subtotal PM Pk Hr. BUILD Volumes 26 **Total PM Peak Hour BUILD Volumes** 81 31 97 26

Exiting Entering

Number of Residential Trips Generated 31 77 75 100% Residential Development A.M. P.M.

55



Appendix 09

## Transport Apartments (Flightway Ave / University Blvd, NM) Projected Turning Movements SUMMARY PROPOSED DEVELOPMENT (2035) - 100% Development

INTERSECTION:	S u	mma	r y										
Woodward Rd / Transport St		1.00			1.00			1.00			1.00	PHF	
(1)		ind (Woodw	ard Dd\	Waathau	nd (Woodw	ard Dd\	Northbo	ound (Trans	nort St)	Southbo	und (Trans		
3% Truck			,			,		Thru	1		Thru		
	Left	Thru	Right	Left	Thru	Right	Left		Right	Left		Right	
Existing (2024)	0	0	0	1	0	52	0	1	12	71	0	0	
2035 (NO BUILD - A.M.)	0	0	0	1	0	55	0	1	13	75	0	0	
2035 (BUILD - A.M.)	0	0	0	1	0	60	0	1	13	79	0	0	
		1.00			1.00			1.00		1.00 PHF			
	Eastbou	ınd (Woodw	ard Rd)	Westbou	ınd (Woodw	rard Rd)	Northbo	ound (Trans	port St)	Southbound (Transport St)			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	0	0	0	4	0	51	0	1	11	82	4	0	
2035 (NO BUILD - P.M.)	0	0	0	4	0	54	0	1	12	87	4	0	
2035 (BUILD - P.M.)	0	0	0	4	0	60	0	1	12	92	4	0	
2033 (BUILD - F.W.)	U	U	U	7	U	00	U		12	32	4	U	
We advised Dd / University D													
Woodward Rd / University BI		1.00	15.0	14/ //	1.00	15.0		1.00	'' DI I	0 (1)	1.00	PHF	
(2)		ınd (Woodw			ınd (Woodw			ınd (Univers			nd (Univers		
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	55	0	186	0	0	0	106	873	0	0	478	32	
2035 (NO BUILD - A.M.)	58	0	196	0	0	0	112	921	0	0	504	34	
2035 (BUILD - A.M.)	69	0	222	0	0	0	124	925	0	0	519	39	
, , ,		1.00	•		1.00	•		1.00		*	1.00	PHF	
	Eastbou	ınd (Woodw	ard Rd)	Westbou	ınd (Woodw	ard Rd)	Northbou	ınd (Univers	sity Blvd)	Southbou	nd (Univers	ity Blvd)	
	Left Thru Right			Left Thru Right			Left	Thru	Right	Left	Thru	Right	
Existing (2024)	75	0	163	0	0	0	173	587	0	0	836	69	
2035 (NO BUILD - P.M.)	79	0	172	0	0	0	183	619	0	0	882	73	
2035 (NO BOILD - P.M.)	87	0	191	0	0	0	214	630	0	0	893	85	
2035 (BUILD - P.IVI.)	01	U	191	U	U	U	214	030	U	U	093	00	
Flightwey Ave / University Bl	al											54.5	
Flightway Ave / University Bl		1.00	4>	W4	1.00	4	M 41-1	1.00	it. Dl. il	1.00 PHF Southbound (University Blvd)			
(3)		ınd (Flightw	,		ınd (Flightw			ınd (Univers		, , ,			
3% Truck	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	50	0	35	0	0	0	75	853	0	0	474	40	
2035 (NO BUILD - A.M.)	53	0	37	0	0	0	79	900	0	0	500	42	
2035 (BUILD - A.M.)	76	0	52	0	0	0	83	911	0	0	505	51	
		1.00			1.00			1.00			1.00	PHF	
	Eastbou	ınd (Flightw	ay Ave)	Westbou	ınd (Flightw	ay Ave)	Northbou	ınd (Univers	sity Blvd)	Southbou	nd (Univers	ity Blvd)	
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2024)	62	0	48	0	0		40	625	0	0	853	74	
2035 (NO BUILD - P.M.)	~-		.0			Ω	40						
	65		51			0					900	78	
'	65 82	0	51 <b>62</b>	0	0	0	42	659	0	0	900	78 <b>101</b>	
2035 (BUILD - P.M.)	65 <b>82</b>		51 <b>62</b>								900 <b>912</b>	78 <b>101</b>	
2035 (BUILD - P.M.)		0 <b>0</b>	-	0	0 <b>0</b>	0	42	659 <b>667</b>	0	0	912	101	
2035 (BUILD - P.M.) Davita Dr / Transport St	82	0 <b>0</b> 1.00	62	0 <b>0</b>	0 <b>0</b>	0 <b>0</b>	42 <b>53</b>	659 <b>667</b>	0 <b>0</b>	0 <b>0</b>	912	<b>101</b> PHF	
2035 (BUILD - P.M.) Davita Dr / Transport St	82 Eastb	1.00 nound (Davi	62 ta Dr)	0 0	1.00 nound (Davi	0 0 ta Dr)	42 53 Northbo	659 667 1.00 pund (Trans	0 0	0 0 Southbo	912 1.00 und (Trans	PHF	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck	Eastb	0 0 1.00 ound (Davited Thru	62 ta Dr) Right	0 0 Westb	0 0 1.00 ound (Davi	0 0 ta Dr)	42 53 Northbo	659 667 1.00 ound (Trans Thru	0 0 port St)	0 0 Southbo	912  1.00  und (Trans	PHF port St) Right	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck Existing (2024)	Eastb Left	1.00 lound (David Thru	62 a Dr) Right	0 0 Westb	1.00 lound (Davi Thru	0 0 0 ta Dr) Right 0	42 53 Northbo Left	659 667 1.00 Dund (Trans Thru	0 0 port St) Right	Southbo	912 1.00 und (Trans Thru	PHF port St) Right 59	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck	Eastb	0 0 1.00 ound (Davited Thru	62 ta Dr) Right 5 5	0 0 Westb	0 0 1.00 ound (Davi	0 0 ta Dr)	42 53 Northbo	659 667 1.00 ound (Trans Thru	0 0 port St)	0 0 Southbo	912  1.00  und (Trans	PHF port St) Right	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck Existing (2024)	Eastb Left	1.00 lound (David Thru	62 a Dr) Right	0 0 Westb	1.00 lound (Davi Thru	0 0 0 ta Dr) Right 0	42 53 Northbo Left	659 667 1.00 Dund (Trans Thru	0 0 port St) Right	Southbo	912 1.00 und (Trans Thru	PHF port St) Right 59	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)	Eastb Left 13 14	1.00 lound (David Thru 0	62 ta Dr) Right 5 5	0 0 Westb Left 0 0	1.00 lound (Davi Thru 0	ta Dr) Right 0	42 53 Northbo Left 27 28	1.00 bund (Trans Thru 50 53	port St) Right 0	Southbo	1.00 und (Trans Thru 26 27	### PHF    PHF   Port St)	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)	Eastb Left 13 14 14	1.00 1.00 Thru 0 0 0 0	62 (a Dr) Right 5 5 5	0 0 0 Westb Left 0 0 0	1.00 cound (Davi Thru 0 0 0	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42 53 Northbo Left 27 28 28	659 667 1.00 bund (Trans Thru 50 53 58	0 0 port St) Right 0 0	0 0 0 Southbo	1.00 und (Trans Thru 26 27 31	PHF port St) Right 59 62 62 PHF	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)	Eastb Left 13 14 14	1.00 cound (Davit Thru 0 0 0 1.00	62 (a Dr) Right 5 5 5	0 0 0 Westb Left 0 0 0	1.00 Pound (Davi Thru 0 0 0	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42 53 Northbo Left 27 28 28	659 667 1.00 bund (Trans Thru 50 53 58 1.00	0 0 port St) Right 0 0	0 0 0 Southbo Left 0 0 0	1.00 und (Trans Thru 26 27 31	PHF port St) Right 59 62 62 PHF	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)  2035 (BUILD - A.M.)	Eastb Left 13 14 14 Left Eastb	1.00 1.00 Thru 0 0 1.00 0 1.00 0 1.00 0 1.00 1.00 0 Thru	62 ta Dr) Right 5 5 5 Right Right	0   0	1.00 cound (Davi Thru 0 0 1.00 0 1.00 cound (Davi Thru	ta Dr) Right  0 0 ta Dr) Right Right Right	42 53 Northbo Left 27 28 28 Northbo Left	1.00 Dund (Trans Thru 50 53 58 1.00 Dund (Trans Thru	port St) Right 0 0 0 port St) Right Right Right	Southbo Left 0 0 0 Southbo Left 1 Southbo Left	1.00 und (Trans Thru 26 27 31 1.00 und (Trans	PHF port St) Right 59 62 62 PHF port St) Right	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)  2035 (BUILD - A.M.)	Eastb Left 13 14 14 14 Left  Eastb Left 35	1.00 Thru 0 0 1.00 0 0 1.00 0 1.00 0 1.00 0 1.00 0 Thru 0 0 0 1.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	62  ta Dr)  Right  5  5  5  Right  23	0 0 0 Westb Left 0 0 0 Westb Left 0 0 0 Westb Left 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.00 cound (Davi Thru 0 0 1.00 0 1.00 cound (Davi Thru 0 1.00 cound (Davi Thru 0	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42 53 Northbo Left 27 28 28 Northbo Left	1.00 pund (Trans Thru 50 53 58 1.00 pund (Trans 44	port St) Right 0 0 0 port St) Right 0 0 Right 0 0 port St) Right	0   0	1.00 und (Trans Thru 26 27 31 1.00 und (Trans Thru	PHF port St) Right 59 62 62 PHF port St) Right 9	
2035 (BUILD - P.M.)  Davita Dr / Transport St (4)  3% Truck  Existing (2024)  2035 (NO BUILD - A.M.)  2035 (BUILD - A.M.)	Eastb Left 13 14 14 Left Eastb	1.00 1.00 Thru 0 0 1.00 0 1.00 0 1.00 0 1.00 1.00 0 Thru	62 ta Dr) Right 5 5 5 Right Right	0   0	1.00 cound (Davi Thru 0 0 1.00 0 1.00 cound (Davi Thru	ta Dr) Right  0 0 ta Dr) Right Right Right	42 53 Northbo Left 27 28 28 Northbo Left	1.00 Dund (Trans Thru 50 53 58 1.00 Dund (Trans Thru	port St) Right 0 0 0 port St) Right Right Right	Southbo Left 0 0 0 Southbo Left 1 Southbo Left	1.00 und (Trans Thru 26 27 31 1.00 und (Trans	PHF port St) Right 59 62 62 PHF port St) Right	

Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2035) - 100% Development

INTERSECTION: Summary Woodward Rd / Driveway "A' 1.00 1.00 1.00 1.00 PHF Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") 3% Truck Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing (2024) 0 0 0 83 0 53 0 0 0 0 2035 (NO BUILD - A.M.) 0 88 0 0 56 0 0 0 0 0 2035 (BUILD - A.M.) 91 0 16 0 0 0 34 1 0 58 0 3 1.00 1.00 1.00 1.00 Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") Right Left Thru Thru Left Thru Left Thru Existing (2024) 2035 (NO BUILD - P.M.) 0 98 0 0 58 0 0 0 0 0 0 0 2035 (BUILD - P.M.) 3 100 0 62 39 0 0 0 25 0 Flightway Ave / Driveway "B" 1 00 1 00 1.00 1 00 PHF Northbound (Driveway "B") Eastbound (Flightway Ave) Westbound (Flightway Ave) Southbound (Driveway "B") Thru Right Thru Right Thru Right Thru Right 3% Truck Left Left Left Existing (2024) 0 85 0 63 0 0 0 0 0 0 0 2035 (NO BUILD - A.M.) 0 66 0 0 90 0 0 0 0 0 2035 (BUILD - A.M.) 91 0 0 69 12 3 0 35 0 0 0 1.00 PHF 1.00 1.00 1.00 Eastbound (Flightway Ave) Westbound (Flightway Ave) Northbound (Driveway "B") Southbound (Driveway "B") Left Thru Thru Right Left Thru Right Thru Right Existing (2024) 0 79 0 0 0 0 0 0 0 2035 (NO BUILD - P.M.) 0 0 0 0 99 0 0 0 0 0 83 0 2035 (BUILD - P.M.) 0 4 31 102 0 2 0 0 0 0 85 26

Projected Turning Movements Worksheet

#### Woodward Rd / Transport St

INTERSECTION: E-W Street: Woodward Rd (1)

N-S Street: Transport St

Year of Existing Counts 2024 Horizon Year **2035** 

Growth Rates 0.50% 0.50% 0.50% 0.50% 0.50%

	Eastbou	ınd (Woodw	ard Rd)	Westbo	und (Woodw	rard Rd)	Northbo	ound (Trans	port St)	Southbound (Transport St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	1	0	52	0	1	12	71	0	0
Background Traffic Growth	0	<u>0</u>	<u>0</u>	0	0	<u>3</u>	0	0	<u>1</u>	<u>4</u>	0	<u>0</u>
Subtotal (NO BUILD - A.M.)	0	0 0		1	0	55	0	1	13	75	0	0
Percent Residential Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	4.50%	0.00%	0.00%
Percent Residential Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.00%	3.50%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	5	0	0	0	4	0	0
Subtotal AM Pk Hr. BUILD Volumes	0	0	0	1	0	60	0	1	13	79	0	0
Total AM Peak Hour BUILD Volumes	0	0	0	1	0	60	0	1	13	79	0	0

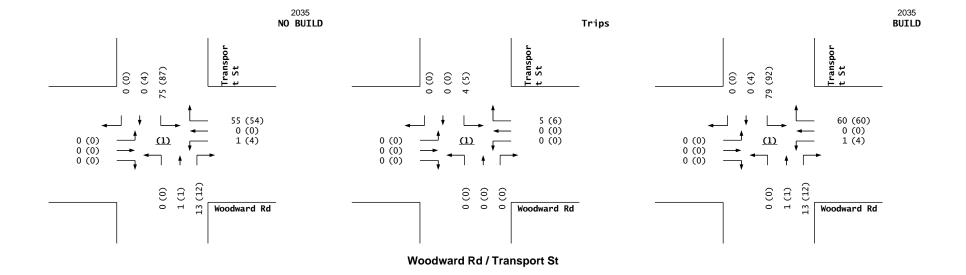
Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Transport St) Southbound (Transport St) Thru Left Thru Right Left Thru Right Left Right Left Thru Right Existing Volumes 51 82 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.)
Percent Residential Trips Generated (Entering) 54 0 0 0 0 0 12 87 0 4.50% 5.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 4.00% 0.00% 0.00% 3.50% 0.00% 0.00% Total Trips Generated Subtotal PM Pk Hr. BUILD Volumes 60 **Total PM Peak Hour BUILD Volumes** 60 12

100% Residential Development

Number of Residential Trips Generated Entering Exiting 75

31 75 A.M. 77 55 P.M.

TURNS\_Single\_2035.xlsm - Turns\_1



Projected Turning Movements Worksheet

#### Woodward Rd / University Blvd

INTERSECTION: E-W Street: Woodward Rd

N-S Street: **University Blvd** 2024

Year of Existing Counts 2035 Horizon Year

Subtotal PM Pk Hr. BUILD Volumes

Number of Residential Trips Generated

0.50% **Growth Rates** 0.50% 0.50% 0.50% Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 186 873 478 32 55 106 Background Traffic Growth 10 Subtotal (NO BUILD - A.M.) 504 58 196 0 112 921 34 Percent Residential Trips Generated(Entering) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 40.00% 14.00% 0.00% 0.00% 0.00% 15.00% Percent Residential Trips Generated(Exiting) 15.00% 0.00% 34.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 20.00% 0.00% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 69 222 124 925 519 39 69 222 124 925 519 39

(2)

Total AM Peak Hour BUILD Volumes Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Right Existing Volumes 75 163 173 587 836 69 Background Traffic Growth 10 46 Subtotal (NO BUILD - P.M.) 79 0 172 0 0 0 183 619 0 0 882 73 Percent Residential Trips Generated(Entering) 0.00% 0.00% 40.00% 14.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 15.00% 0.00% 34.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 20.00% 0.00% Total Trips Generated 19 31 11 12

630

630

214

85

85

893

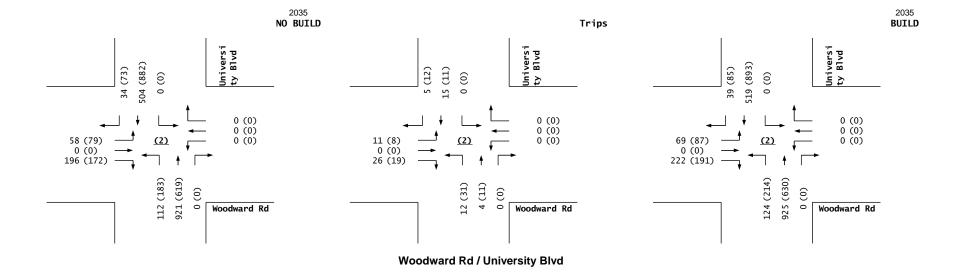
Entering Exiting

**Total PM Peak Hour BUILD Volumes** 

75 31 77

100% Residential Development A M 55 P.M.

191



Projected Turning Movements Worksheet

#### Flightway Ave / University Blvd

INTERSECTION: E-W Street: Flightway Ave (3)
N-S Street: University Blvd

Year of Existing Counts 2024 Horizon Year 2035

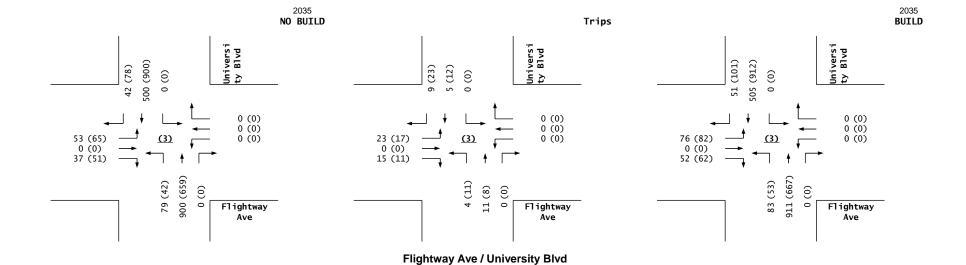
**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Flightway Ave) Westbound (Flightway Ave) Northbound (University Blvd) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 35 853 474 50 75 Background Traffic Growth 47

Subtotal (NO BUILD - A.M.) 500 53 37 0 79 900 42 Percent Residential Trips Generated (Entering) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 14.00% 0.00% 0.00% 0.00% 15.00% 30.00% Percent Residential Trips Generated(Exiting) 30.00% 0.00% 20.00% 0.00% 0.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 76 52 83 911 505 51 Total AM Peak Hour BUILD Volumes 76 52 83 911 505 51

Northbound (University Blvd) Eastbound (Flightway Ave) Westbound (Flightway Ave) Southbound (University Blvd) Left Thru Right Left Thru Right Left Thru Right Left Right Existing Volumes 62 48 40 625 853 Background Traffic Growth 34 <u>2</u> 42 Subtotal (NO BUILD - P.M.) 65 0 51 0 0 0 659 0 0 900 78 Percent Residential Trips Generated(Entering) 0.00% 0.00% 0.00% 0.00% 30.00% 0.00% 0.00% 0.00% 0.00% 14.00% 0.00% 15.00% Percent Residential Trips Generated(Exiting) 30.00% 0.00% 20.00% 0.00% 0.00% 0.00% 0.00% 15.00% 0.00% 0.00% 0.00% 0.00% Total Trips Generated 17 11 12 23 Subtotal PM Pk Hr. BUILD Volumes 101 82 62 667 **Total PM Peak Hour BUILD Volumes** 62 53 667 101

Entering Exiting

Number of Residential Trips Generated 31 75 A.M. 100% Residential Development 77 55 P.M.



Projected Turning Movements Worksheet

### Davita Dr / Transport St

INTERSECTION: E-W Street: Davita Dr (4)

N-S Street: Transport St

Year of Existing Counts 2024 Horizon Year 2035

Growth Rates 0.50% 0.50% 0.50% 0.50%

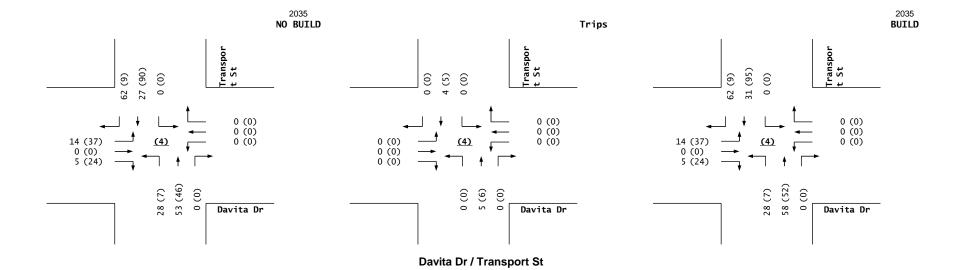
	Eastb	ound (Davit	ta Dr)	Westl	bound (Davi	ta Dr)	Northbo	ound (Trans	port St)	Southbo	und (Trans	oort St)
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	13	0	5	0	0	0	27	50	0	0	26	59
Background Traffic Growth	<u>1</u>	<u>0</u>	<u>0</u>	0	0	0	<u>1</u>	<u>3</u>	0	0	<u>1</u>	<u>3</u>
Subtotal (NO BUILD - A.M.)	14	0	5	0	0	0	28	53	0	0	27	62
Percent Residential Trips Generated(Entering)	0.50%	0.00%	0.50%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	4.00%	0.00%
Percent Residential Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%	3.50%	0.00%	0.00%	3.50%	0.50%
Total Trips Generated	0	0	0	0	0	0	0	5	0	0	4	0
Subtotal AM Pk Hr. BUILD Volumes	14	0	5	0	0	0	28	58	0	0	31	62
Total AM Peak Hour BUILD Volumes	14	0	5	0	0	0	28	58	0	0	31	62

Westbound (Davita Dr) Eastbound (Davita Dr) Northbound (Transport St) Southbound (Transport St) Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 35 23 44 85 Background Traffic Growth Subtotal (NO BUILD - P.M.)
Percent Residential Trips Generated(Entering) 37 0 0 0 0 46 0 0 90 9 0.50% 5.00% 0.00% 4.00% 0.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.50% 3.50% 0.00% 3.50% 0.50% Total Trips Generated Subtotal PM Pk Hr. BUILD Volumes **Total PM Peak Hour BUILD Volumes** 24

Exiting Entering

Number of Residential Trips Generated 31 77 75 A.M. 100% Residential Development P.M.

55



Projected Turning Movements Worksheet

#### Woodward Rd / Driveway "A"

INTERSECTION: E-W Street: Woodward Rd (5)

N-S Street: **Driveway "A"**Year of Existing Counts 2024

Horizon Year 2035

**Growth Rates** 0.50% 0.50% 0.50% 0.50% Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") Left Thru Right Left Thru Right Left Thru Right Left Thru Right Existing Volumes 83 0 53 Background Traffic Growth Subtotal (NO BUILD - A.M.) 88 56 Percent Residential Trips Generated(Entering) 4.50% 0.00% 0.00% 0.00% 5.00% 50.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 45.50% 0.00% 4.00% Total Trips Generated Subtotal AM Pk Hr. BUILD Volumes 91 58 16 34 Total AM Peak Hour BUILD Volumes 91 58 16

Eastbound (Woodward Rd) Westbound (Woodward Rd) Northbound (Driveway "A") Southbound (Driveway "A") Left Thru Right Left Thru Right Left Thru Right Left Existing Volumes 93 55 0 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.) 0 98 0 0 58 0 0 0 0 0 0 50.00% Percent Residential Trips Generated(Entering) 0.00% 0.00% 5.00% 0.00% 0.00% 4.50% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 45.50% 0.00% 4.00% Total Trips Generated 39 Subtotal PM Pk Hr. BUILD Volumes 100 62

62

39

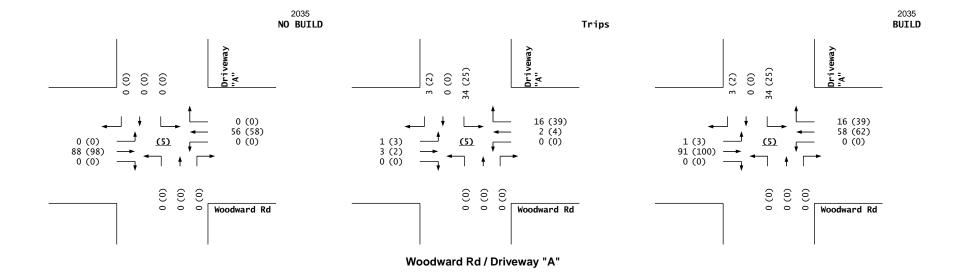
25

Entering Exiting

**Total PM Peak Hour BUILD Volumes** 

Number of Residential Trips Generated 31 75 A.M. 100% Residential Development 77 55 P.M.

100



Projected Turning Movements Worksheet

### Flightway Ave / Driveway "B"

INTERSECTION: E-W Street: Flightway Ave (6)

Driveway "B" N-S Street:

Year of Existing Counts 2024

Horizon Year 2035

Growth Rates		0.50%			0.50%			0.50%			0.50%	
	Eastbou	ınd (Flightw	ay Ave)	Westbou	and (Flightwa	ay Ave)	Northbo	und (Drivew	/ay "B")	Southbo	und (Drivewa	ay "B")
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	63	0	0	85	0	0	0	0	0	0	0
Background Traffic Growth	0	<u>3</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	0	0	<u>0</u>
Subtotal (NO BUILD - A.M.)	0	66	0	0	90	0	0	0	0	0	0	0
Percent Residential Trips Generated(Entering)	0.00%	0.00%	5.50%	40.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Residential Trips Generated(Exiting)	0.00%	3.50%	0.00%	0.00%	0.00%	0.00%	4.00%	0.00%	46.50%	0.00%	0.00%	0.00%
Total Trips Generated	0	3	2	12	1	0	3	0	35	0	0	0
Subtotal AM Pk Hr. BUILD Volumes	0	69	2	12	91	0	3	0	35	0	0	0
Pass-by Trip Adjustments	0	0	0	0	0	0	0	0	0	0	0	0
Total AM Peak Hour BUILD Volumes	0	69	2	12	91	0	3	0	35	0	0	0

Westbound (Flightway Ave) Northbound (Driveway "B") Eastbound (Flightway Ave) Thru Left Thru Right Left Thru Right Left Right Existing Volumes 94 Background Traffic Growth 0 Subtotal (NO BUILD - P.M.)
Percent Residential Trips Generated(Entering) 0 83 0 0 99 0 0 4.00% 0.00% 0.00% 0.00% 5.50% 0.00% 0.00% 40.00% 0.00% Percent Residential Trips Generated(Exiting) 0.00% 3.50% 0.00% 0.00% 0.00% 0.00% 4.00% 0.00% 46.50% Total Trips Generated 31 Subtotal PM Pk Hr. BUILD Volumes 85 31 102 Pass-by Trip Adjustments

85

4

Number of Residential Trips Generated

**Total PM Peak Hour BUILD Volumes** 

Entering Exiting 31 75

A.M. 55 P.M. 100% Residential Development

102

0

31

Southbound (Driveway "B")

Thru

0.00%

0.00%

Right

0.00%

0.00%

0

Left

0.00%

0.00%

0

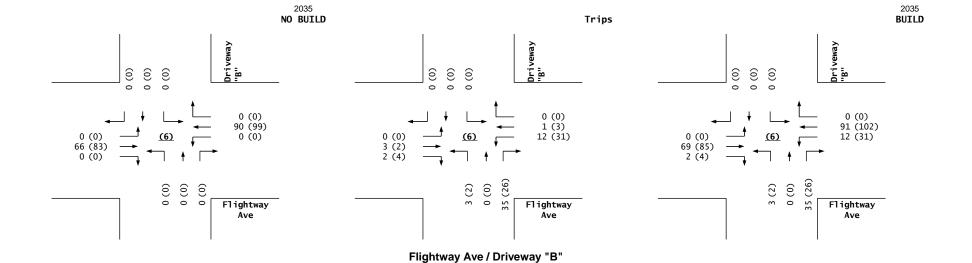
0

26

26

0

2



# Appendix 10

Intersection							
Int Delay, s/veh	1.4						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	W			ă	<b>†</b> †	<b>†</b>	02.1
Traffic Vol, veh/h	50	35	1	75	857	476	40
Future Vol, veh/h	50	35	1	75	857	476	40
Conflicting Peds, #/hr	3	3	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	-	None	-	-	None	-	None
Storage Length	0	-	_	175	-	_	-
Veh in Median Storage		_	_	-	0	0	_
Grade, %	0	_	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	2	14	0	5	1	3	5
Mymt Flow	54	38	1	82	932	517	43
IVIVIII( I IOW	07	30		02	302	017	70
	Minor2		//ajor1			/lajor2	
Conflicting Flow All	1173	283	561	561	0	-	0
Stage 1	539	-	-	-	-	-	-
Stage 2	634	-	-	-	-	-	-
Critical Hdwy	6.84	7.18	6.4	4.2	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-	-
Follow-up Hdwy	3.52	3.44	2.5	2.25	-	-	-
Pot Cap-1 Maneuver	185	679	641	986	-	-	-
Stage 1	549	-	-	-	-	-	-
Stage 2	491	-	-	-	-	-	-
Platoon blocked, %					-	-	_
Mov Cap-1 Maneuver	175	677	978	978	-	-	_
Mov Cap-2 Maneuver	310	-	-	-	-	_	-
Stage 1	520	_	_	_	_	_	_
Stage 2	491	_	_	_	_	_	_
Olago Z	- <del>1</del> 01						
Approach	EB		NB			SB	
HCM Control Delay, s.	/v 16.7		0.73			0	
HCM LOS	С						
Minor Lane/Major Mvr	nt	NBL	NPT	EBLn1	SBT	SBR	
	III					אמט	
Capacity (veh/h)		978	-		-	-	
HCM Lane V/C Ratio	1 . 1.5	0.084	-	0.231	-	-	
HCM Control Delay (s.	/ven)	9	-	16.7	-	-	
HCM Lane LOS	,	A	-	С	-	-	
HCM 95th %tile Q(veh	1)	0.3	-	0.9	-	-	

1.9 EBL						
EBL						
	EBR	NBU	NBL	NBT	SBT	SBR
M			7	<b>^</b>	<b>ተ</b> ኈ	
73	50	1	79	868	481	49
73	50	1	79	868	481	49
						0
Stop		Free	Free		Free	Free
-	None	-	-	None	-	None
0	-	-	175	-	-	-
•	-	-	-			-
0	-	-	-	0	0	-
92	92	92	92	92	92	92
2	14	0	5	1	3	5
79	54	1	86	943	523	53
Minor2	N	//aior1		ı	/laior2	
			576			0
					_	-
					-	
				-	-	-
			4.2	-	-	-
		-	-	-	-	-
		-	-	-	-	-
				-	-	-
	671	627	973	-	-	-
	-	-	-	-	-	-
482	-	-	-	-	-	-
				-	-	-
168	669	965	965	-	-	-
303	-	-	-	-	-	-
512	-	-	-	-	-	-
482	-	-	-	-	-	-
FB		NR			SB	
		0.11			U	
U						
nt		NBT E		SBT	SBR	
	965			-	-	
	0.09	-	0.343	-	-	
veh)	9.1	-	19	-	-	
	Α	-	С	-	-	
)	0.3	-	1.5	-	-	
	3 Stop - 0 9, # 1 0 92 2 79 Minor2 1198 549 6.84 5.84 3.52 178 542 482	3 3 Stop Stop - None 0 9, # 1 92 92 2 14 79 54  Minor2 N 1198 291 549 649 6.84 7.18 5.84 5.84 5.84 3.52 3.44 178 671 542 482 168 669 303 512 482  EB v18.97 C  ott NBL 965 0.09 9.1 A	3 3 0 Stop Stop Free - None - 0 9, # 1 92 92 92 2 14 0 79 54 1  Minor2 Major1 1198 291 576 549 649 6.84 7.18 6.4 5.84 5.84 5.84 5.84 5.84 482  168 669 965 303 512 482  EB NB v18.97 0.77 C  ot NBL NBT I 965 - 0.09 - veh) 9.1 - A	3 3 0 0 Stop Stop Free Free - None 175 e, # 1	Stop   Stop   Free   Free   Free   Free    - None   -   None     0	Stop Stop Free Free Free Free Free - None None - O O O O O O O O O O O O O O O O O O

Intersection							
Int Delay, s/veh	1.8						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	₩.	LDK	טמאו	INDL	<u>ND1</u>	<b>↑</b>	אמט
Traffic Vol., veh/h	<b>6</b> 2	48	2	40	<b>TT</b> 625	<b>T I</b> → 857	74
Future Vol, veh/h	62	48	2	40	625	857	74
Conflicting Peds, #/hr	6	6	0	0	025	007	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	Stop -	None	-	-	None	-	None
Storage Length	0	-	_	175	-		-
Veh in Median Storage		_		-	0	0	_
Grade, %	0	_		_	0	0	_
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	0	2	0	8	1	1	5
Mymt Flow	67	52	2	43	679	932	80
IVIVIII I IOW	-01	JZ		70	013	JUZ	00
	Minor2		//ajor1			//ajor2	
Conflicting Flow All	1409	512	1012	1012	0	-	0
Stage 1	972	-	-	-	-	-	-
Stage 2	437	-	-	-	-	-	-
Critical Hdwy	6.8	6.94	6.4	4.26	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-	-
Follow-up Hdwy	3.5	3.32	2.5	2.28	-	-	-
Pot Cap-1 Maneuver	132	507	332	646	-	-	-
Stage 1	332	-	-	-	-	-	-
Stage 2	624	-	-	-	-	-	-
Platoon blocked, %					-	-	-
Mov Cap-1 Maneuver	126	504	612	612	-	-	-
Mov Cap-2 Maneuver	241	-	-	-	-	-	-
Stage 1	316	-	-	-	-	-	-
Stage 2	624	-	-	-	-	-	-
Approach	EB		NB			SB	
HCM Control Delay, s/			0.72			0	
HCM LOS	C		V.1 Z				
1.5111 2.55	<u> </u>						
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR	
	IL		ו ו פורו			SDR	
Capacity (veh/h)		612	-	312	-	-	
HCM Central Delay (a)	\.ab\	0.075		0.384	-	-	
HCM Long LOS	ven)	11.4	-	23.6	-	-	
HCM Lane LOS	١	В	-	C	-	-	
HCM 95th %tile Q(veh	)	0.2	-	1.7	-	-	

Intersection							
Int Delay, s/veh	2.6						
•							
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	, A			7	<b>^</b>	<b>ተ</b> ኈ	
Traffic Vol, veh/h	79	59	2	51	636	869	97
Future Vol, veh/h	79	59	2	51	636	869	97
Conflicting Peds, #/hr	6	6	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	-	None	-	-	None	-	None
Storage Length	0	-	-	175	-	-	-
Veh in Median Storage		-	-	-	0	0	-
Grade, %	0	-	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	0	2	0	8	1	1	5
Mvmt Flow	86	64	2	55	691	945	105
Major/Minor I	Minor2	N	Major1		N	/lajor2	
Conflicting Flow All	1464	531	1050	1050	0	//ajuiz -	0
			1000			-	
Stage 1	997	-	-	-	-	-	-
Stage 2	467	-	- 0 4	4.00	-	-	-
Critical Hdwy	6.8	6.94	6.4	4.26	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-	-
Follow-up Hdwy	3.5	3.32	2.5	2.28	-	-	-
Pot Cap-1 Maneuver	121	493	314	624	-	-	-
Stage 1	322	-	-	-	-	-	-
Stage 2	603	-	-	-	-	-	-
Platoon blocked, %					-	-	-
Mov Cap-1 Maneuver	114	490	595	595	-	-	-
Mov Cap-2 Maneuver	228	-	-	-	-	-	-
Stage 1	301	-	-	-		-	-
Stage 2	603	-	-	-	-	-	-
<b>J</b>							
Annroach	EB		NB			SB	
Approach						<u>28</u>	
HCM Control Delay, s/			0.9			U	
HCM LOS	D						
Minor Lane/Major Mvm	nt	NBL	NBT I	EBLn1	SBT	SBR	
Capacity (veh/h)		595	-	295	-	-	
HCM Lane V/C Ratio		0.097	_	0.508	-	-	
HCM Control Delay (s/	veh)	11.7	-	29.1	-	-	
HCM Lane LOS	- /	В	_	D	_	_	
HCM 95th %tile Q(veh)	<b>\</b>	0.3	_	2.7	_	-	
TOW JOHN JUNE Q(VEIL)		0.0		2.1			

Intersection						
Int Delay, s/veh	4					
					05-	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	À		ሻ	<b>^</b>	ተኈ	
Traffic Vol, veh/h	66	213	119	881	495	37
Future Vol, veh/h	66	213	119	881	495	37
Conflicting Peds, #/hr	2	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	245	-	-	-
Veh in Median Storage	e, # 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	0
Mymt Flow	72	232	129	958	538	40
WWW.CT IOW	12	202	120	000	000	10
	Minor2		//ajor1		/lajor2	
Conflicting Flow All	1298	291	578	0	-	0
Stage 1	558	-	-	-	-	-
Stage 2	740	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	_	-
Pot Cap-1 Maneuver	152	702	991	_	_	_
Stage 1	534	-	-	_	_	_
Stage 2	430	_	_	_	_	_
Platoon blocked, %	-100				_	
Mov Cap-1 Maneuver	132	701	991	-	<u>-</u>	-
•					-	
Mov Cap-2 Maneuver	264	-	-	-	-	-
Stage 1	464	-	-	-	-	-
Stage 2	430	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/			1.09		0	
HCM LOS	C		1.00			
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		991	-	504	-	-
HCM Lane V/C Ratio		0.13	-	0.602	-	-
HCM Control Delay (s/	/veh)	9.2	-	22.4	-	-
HCM Lane LOS		Α	_	С	_	-
I ICIVI Lane LOS		$\overline{}$	-	U	-	-

Intersection									
Int Delay, s/veh	7								
Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBT	SBR	
Lane Configurations		W			*	<b>†</b> †	<b>†</b> %		
Traffic Vol, veh/h	1	75	164	8	166	590	840	69	
uture Vol, veh/h	1	75	164	8	166	590	840	69	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	None	
Storage Length	_	0	-	-	245	-	-	-	
/eh in Median Storage	e.# -	1	_	_		0	0	-	
Grade, %	-	0	-	_	_	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	1	2	0	2	1	1	0	
1vmt Flow	1	82	178	9	180	641	913	75	
	•	•-		•		• • •			
Acior/Minor	Minora		N	Major1			/loior?		
	Minor2	4040		Major1	000		Major2	^	
Conflicting Flow All	0	1649	494	988	988	0	-	0	
Stage 1	0	951	-	-	-	-	-	-	
Stage 2	0	699	-	-	-	-	-	-	
Critical Hdwy	-	6.82	6.94	6.4	4.14	-	-	-	
Critical Hdwy Stg 1	-	5.82	-	-	-	-	-	-	
Critical Hdwy Stg 2	-	5.82	-	-	-	-	-	-	
ollow-up Hdwy	-	3.51	3.32	2.5	2.22	-	-	-	
Pot Cap-1 Maneuver	0	91	521	344	695	-	-	-	
Stage 1	0	338	-	-	-	-	-	-	
Stage 2	0	457	-	-	-	-	-	-	
Platoon blocked, %	-					-	-	-	
Mov Cap-1 Maneuver	0	~ 72	521	635	635	-	-	-	
Mov Cap-2 Maneuver	0	185	-	-	-	-	-	-	
Stage 1	0	269	-	-	-	-	-	-	
Stage 2	0	457	-	-	-	-	-	-	
Approach	EB			NB			SB		
HCM Control Delay, s/	v45.93			2.98			0		
HCM LOS	Ε								
//inor Lane/Major Mvm	nt	NBL	NRT	EBLn1	SBT	SBR			
	ц					אמט			
Capacity (veh/h) HCM Lane V/C Ratio		635	-	•••	-	-			
	(voh)	0.298		0.784	-	-			
HCM Control Delay (s/	ven)	13.1	-		-	-			
HCM Lane LOS	\	B	-	E 6.4	-	-			
HCM 95th %tile Q(veh)	)	1.2	-	6.4	-	-			
otes									
Volume exceeds cap	pacity	\$: De	lay exc	eeds 30	)0s	+: Com	outation	Not De	fined *: All major volume in platoon

Intersection						
Int Delay, s/veh	3.1					
		EDD	NDI	NDT	ODT	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		Ť	<b>↑</b> ↑	<b>ተ</b> ኈ	
Traffic Vol, veh/h	55	187	107	877	480	32
Future Vol, veh/h	55	187	107	877	480	32
Conflicting Peds, #/hr	2	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	245	-	-	-
Veh in Median Storage	e, # 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	0
Mvmt Flow	60	203	116	953	522	35
Miller Ion	00	200	110	000	022	00
	Minor2		//ajor1		/lajor2	
Conflicting Flow All	1250	280	557	0	-	0
Stage 1	539	-	-	-	-	-
Stage 2	711	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	_	_	_	_	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	_	_
Pot Cap-1 Maneuver	163	714	1010	_	_	_
Stage 1	546	-	-	_	_	_
Stage 2	445	_	_	_	_	_
Platoon blocked, %	747		_	_	_	_
	115	710	1010	<u>-</u>	-	-
Mov Cap-1 Maneuver	145	713	1010	-	-	-
Mov Cap-2 Maneuver	277	-	-	_	-	-
Stage 1	483	-	-	-	-	-
Stage 2	445	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/			0.98		0	
HCM LOS	V 10.54		0.30		U	
TIOWI LOG	U					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1010	-		-	-
HCM Lane V/C Ratio		0.115	-	0.501	_	-
HCM Control Delay (s/	veh)	9	_		_	-
HCM Lane LOS	- /	A	_	С	_	_
HCM 95th %tile Q(veh	)	0.4	_		_	_
HOW JOHN JOHNE W(VEI)	)	0.4		2.0		_

Delay, s/veh	Intersection									
Configurations	Int Delay, s/veh	11.1								
Configurations	Movement	FRII	FRI	FRR	MRH	NRI	NRT	SRT	SBB	
Major   Majo		LDU		LDIX	NDO				ODIN	
ure Vol, veh/h    1		1		102	10				Q1	
Ifficting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
Control   Stop   Stop   Stop   Free   Free										
Channelized - None - None - None rage Length - 0 - 245 rage Length - 0 245 rage Length - 0 - 0 - 0 - 0 - rage Length - 0 - 0 - 0 - 0 - rage Length - 0 - 0 - 0 - 0 - rage Length - 1 - 1 - 0 - 0 - 0 - rage Length - 1 - 1 - 0 - 0 - 0 - rage Length - 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0										
rage Length - 0 - 245										
In Median Storage, # - 1							None			
de, % - 0 0 0 0 0 0 0 0 0 0 0							0			
Ak Hour Factor   92   92   92   92   92   92   92   9										
avy Vehicles, % 0 1 2 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0										
or/Minor         Minor2         Major1         Major2           filicting Flow All         0         1741         507         1013         1013         0         0           Stage 1         0         969         -         -         -         -         -           Stage 2         0         772         -         -         -         -         -           ical Hdwy Stg 1         -         5.82         -<										
or/Minor         Minor2         Major1         Major2           ufficting Flow All         0         1741         507         1013         1013         0         -         0           Stage 1         0         969         -         -         -         -         -         -           Iscal Hdwy         -         6.82         6.94         6.4         4.14         -         -         -           iscal Hdwy Stg 1         -         5.82         -					-					
Stage 1 0 969	IVIIIT FIOW		90	199	TT	212	053	925	δδ	
Stage 1 0 969										
Stage 1	_,	Minor2						Major2		
Stage 2	Conflicting Flow All	0		507	1013	1013	0	-	0	
ical Hdwy Stg 1	•	0		-	-	-	-	-	-	
ical Hdwy Stg 1		0			-		-	-	-	
ical Hdwy Stg 2 - 5.82	ritical Hdwy	-		6.94	6.4	4.14	-	-	-	
cow-up Hdwy       - 3.51       3.32       2.5       2.22        -         Cap-1 Maneuver       0 ~79       511       331       680        -       -         Stage 1       0 331         -       -       -       -         stage 2       0 419         - </td <td>ritical Hdwy Stg 1</td> <td>-</td> <td>5.82</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td>	ritical Hdwy Stg 1	-	5.82	-	-	-	-	-	-	
Cap-1 Maneuver       0 ~ 79       511       331       680       -<	Critical Hdwy Stg 2	-	5.82	-	-	-	-	-	-	
Stage 1 0 331	ollow-up Hdwy	-	3.51	3.32	2.5	2.22	-	-	-	
Stage 2       0       419       -	ot Cap-1 Maneuver	0	~ 79	511	331	680	-	-	-	
Coop	Stage 1	0	331	-	-	-	-	-	-	
V Cap-1 Maneuver       0       ~ 59       511       610       610       -<	Stage 2	0	419	-	-	-	-	-	-	
V Cap-2 Maneuver       0       167       -	Platoon blocked, %	-					-	-	-	
V Cap-2 Maneuver       0       167       -	Nov Cap-1 Maneuver	0	~ 59	511	610	610	-	-	-	
Stage 1       0       247       -	Nov Cap-2 Maneuver	0	167	-	-	-	-	-	-	
Stage 2         0         419         -	•	0	247	-	-	-	-	-	-	
M Control Delay, s/v72.32 3.63 0  M LOS F  or Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  pacity (veh/h) 610 - 311  M Lane V/C Ratio 0.365 - 0.93  M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1		0	419	-	-	-	-	-	-	
M Control Delay, s/v72.32 3.63 0  M LOS F  or Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  pacity (veh/h) 610 - 311  M Lane V/C Ratio 0.365 - 0.93  M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1										
M Control Delay, s/v72.32 3.63 0  M LOS F  or Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  pacity (veh/h) 610 - 311  M Lane V/C Ratio 0.365 - 0.93  M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1	Approach	FB			NB			SB		
M LOS F  or Lane/Major Mvmt	• •									
or Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  pacity (veh/h) 610 - 311  M Lane V/C Ratio 0.365 - 0.93  M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1	1CM LOS				0.00			- 0		
Dacity (veh/h) 610 - 311	10171 200	'								
Dacity (veh/h) 610 - 311	dinor Long/Major Mayer	.4	NDI	NDT	EDI 51	CDT	CDD			
M Lane V/C Ratio 0.365 - 0.93  M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1		ı					SDK			
M Control Delay (s/veh) 14.3 - 72.3  M Lane LOS B - F  M 95th %tile Q(veh) 1.7 - 9.1							-			
M Lane LOS B - F M 95th %tile Q(veh) 1.7 - 9.1 es							-			
M 95th %tile Q(veh) 1.7 - 9.1 es		ven)								
es · · · ·										
	10M 95th %tile Q(veh)		1./	-	9.1	-	-			
olume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon	lotes									
	: Volume exceeds car	pacity	\$: De	elay exc	eeds 30	00s	+: Com	outation	n Not De	efined *: All major volume in platoor

Intersection												
Int Delay, s/veh	7.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	0	0	1	0	52	0	1	12	71	0	0
Future Vol, veh/h	0	0	0	1	0	52	0	1	12	71	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	2	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	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	6	6	6	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	1	0	57	0	1	13	77	0	0
Major/Minor	Minor2			Minor1			Major1		<u> </u>	Major2		
Conflicting Flow All	157	172	2	164	166	10	2	0	0	16	0	0
Stage 1	156	156	-	10	10	-	-	-	-	-	-	-
Stage 2	1	16	-	154	156	-	-	-	-	-	-	-
Critical Hdwy	7.16	6.56	6.26	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.16	5.56	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.16	5.56	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.554	4.054	3.354	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	800	714	1071	805	730	1078	1634	-	-	1615	-	-
Stage 1	837	761	-	1017	892	-	-	-	-	-	-	-
Stage 2	1012	874	-	853	772	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	720	677	1069	765	693	1076	1631	-	-	1611	-	-
Mov Cap-2 Maneuver	720	677	-	765	693	-	-	-	-	-	-	-
Stage 1	795	723	-	1015	890	-	-	-	-	-	-	-
Stage 2	958	872	-	812	734	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/				8.56			0			7.35		
HCM LOS	A			A								
5 5	- ' '											
Minor Lane/Major Mvm	nt	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1631	-	-		1068	1611	-	-			
HCM Lane V/C Ratio		-	-	-		0.054		_	_			
HCM Control Delay (s/	veh)	0	_	_	0	8.6	7.3	0	_			
HCM Lane LOS		A	-	-	A	Α	Α	A	-			
HCM 95th %tile Q(veh	)	0	-	-	-	0.2	0.2	-	-			
	,											

Intersection												
Int Delay, s/veh	7.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	0	0	1	0	57	0	1	12	75	0	0
Future Vol, veh/h	0	0	0	1	0	57	0	1	12	75	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	2	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	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	6	6	6	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	1	0	62	0	1	13	82	0	0
Major/Minor	Minor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	166	181	2	173	175	10	2	0	0	16	0	0
Stage 1	165	165		1/3	1/5	10	۷	U	U	10	U	
Stage 1 Stage 2	1	165	-	163	165		_	-	-	_	-	-
•	7.16	6.56	6.26	7.1	6.5	6.2	4.1	_	-	4.1	-	-
Critical Hdwy	6.16	5.56	0.20	6.1	5.5	0.2	4.1	_	-	4.1	-	_
Critical Hdwy Stg 1	6.16	5.56		6.1	5.5			_	-	-	-	-
Critical Hdwy Stg 2	3.554	4.054	3.354	3.5	5.5 4	3.3	2.2	-	-	2.2	-	
Follow-up Hdwy								-	<del>-</del>		-	-
Pot Cap-1 Maneuver	789	706	1071	795	722	1078	1634	-	-	1615	-	-
Stage 1	828	754	-	1017	892	-	-	-	-	-	-	-
Stage 2	1012	874	-	844	766	-	-	-	-	-	-	-
Platoon blocked, %	705	667	1000	750	600	1076	1624	-	-	1611	-	-
Mov Cap-1 Maneuver	705	667	1069	753	683	1076	1631	-	-	1611	-	-
Mov Cap-2 Maneuver	705	667	-	753	683	-	-	-	-	-	-	-
Stage 1	784	715	-	1015	890	-	-	-	-	-	-	-
Stage 2	953	872	-	801	725	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	/v 0			8.58			0			7.35		
HCM LOS	A			A								
NA: 1		ND	NOT	NIDD 1	-DI 414	VDL 4	051	ODT	000			
Minor Lane/Major Mvn	nt	NBL	NBT	NBK [	EBLn1V		SBL	SBT	SBR			
Capacity (veh/h)		1631	-	-		1068	1611	-	-			
HCM Lane V/C Ratio		-	-	-			0.051	-	-			
HCM Control Delay (sa	/veh)	0	-	-	0	8.6	7.4	0	-			
HCM Lane LOS		Α	-	-	Α	Α	Α	Α	-			
HCM 95th %tile Q(veh	1)	0	-	-	-	0.2	0.2	-	-			

Intersection													
Int Delay, s/veh	7.1												
		EDT	EDD	MOLL	MAIDI	MOT	MDD	NDI	NDT	NDD	ODI	ODT	000
Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4				4			4			4	_
Traffic Vol, veh/h	0	0	0	2	2	0	51	0	1	11	82	4	0
Future Vol, veh/h	0	0	0	2	2	0	51	0	1	11	82	4	0
Conflicting Peds, #/hr	2	0	2	1	1	0	1	2	0	2	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	2	0	0	0	6	0	0
Mvmt Flow	0	0	0	2	2	0	55	0	1	12	89	4	0
Major/Minor N	/linor2		1	Minor1			N	Major1		1	Major2		
Conflicting Flow All	188	200	8	0	194	194	11	6	0	0	15	0	0
Stage 1	185	185	-	0	9	9	- ' '	_	-	-	-	-	_
Stage 2	3	15	_	0	185	185	_	_	_	_	_	_	_
Critical Hdwy	7.1	6.5	6.2	-	7.1	6.5	6.22	4.1	_		4.16	_	
Critical Hdwy Stg 1	6.1	5.5	0.2	_	6.1	5.5	0.22	4.1	_	-	4.10	_	_
Critical Hdwy Stg 2	6.1	5.5	_	-	6.1	5.5		_	-	_	-	_	_
Follow-up Hdwy	3.5	4	3.3	_	3.5	4	3.318	2.2	_	_	2.254	_	_
Pot Cap-1 Maneuver	777	700	1079	0	770	705	1070	1628	-	_	1577	_	_
	822	751	1079	0	1017	892	1070	1020	-	-	1377	_	_
Stage 1 Stage 2	1025	887		0	822	751	-	<u>-</u>	-	-	-		_
•	1025	007	_	U	022	751	-	-	_	_	-	_	-
Platoon blocked, %	602	GE O	1075	-	704	cco	1066	1605	-	-	1571		-
Mov Cap-1 Maneuver	692	658	1075	0	724	663	1066	1625	-	-	1574	-	-
Mov Cap-2 Maneuver	692	658	-	0	724	663	-	-	-	-	-	-	-
Stage 1	774	707	-	0	1015 774	890	-	-	-	-	-	-	-
Stage 2	970	885	-	0	774	707	-	-	-	-	-	-	-
Approach	EB			WB				NB			SB		
HCM Control Delay, s/v	/ 0			8.65				0			7.08		
HCM LOS	Α			Α									
Minor Lane/Major Mvm	t	NBL	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1625	-	-		1047	1570	-	-				
HCM Lane V/C Ratio		-	_	_		0.057		_	_				
HCM Control Delay (s/\	/eh)	0	_	-	0	8.6	7.4	0	-				
HCM Lane LOS	<i>y</i>	A	_	-	A	A	A	A	_				
HCM 95th %tile Q(veh)		0	-	_	-	0.2	0.2	-	_				
		J				0.2	J.2						

Intersection												
Int Delay, s/veh 7.2												
Movement EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	4				4			4			4	
Traffic Vol, veh/h 0	0	0	2	2	0	57	0	1	11	87	4	0
Future Vol, veh/h 0	0	0	2	2	0	57	0	1	11	87	4	0
Conflicting Peds, #/hr 2	0	2	1	1	0	1	2	0	2	0	0	0
Sign Control Stop	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized -	-	None	-	-	-	None	_	_	None	_	-	None
Storage Length -	-	-	-	_	-	-	-	-	-	-	_	-
Veh in Median Storage, # -	0	-	-	-	0	-	-	0	-	-	0	-
Grade, %	0	-	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor 92	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, % 0	0	0	0	0	0	2	0	0	0	6	0	0
Mvmt Flow 0	0	0	2	2	0	62	0	1	12	95	4	0
Major/Minor Minor2		<u> </u>	Minor1			N	Major1		N	Major2		
Conflicting Flow All 199	211	8	0	205	205	11	6	0	0	15	0	0
Stage 1 195	195	-	0	9	9	-	-	-	-	-	-	-
Stage 2 3	15	-	0	195	195	-	-	-	-	-	-	-
Critical Hdwy 7.1	6.5	6.2	-	7.1	6.5	6.22	4.1	-	-	4.16	-	-
Critical Hdwy Stg 1 6.1	5.5	-	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2 6.1	5.5	-	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy 3.5	4	3.3	-	3.5	4	3.318	2.2	-	-	2.254	-	-
Pot Cap-1 Maneuver 765	690	1079	0	758	695	1070	1628	-	-	1577	-	-
Stage 1 811	743	-	0	1017	892	-	-	-	-	-	-	-
Stage 2 1025	887	-	0	811	743	-	-	-	-	-	-	-
Platoon blocked, %			-					-	-		-	-
Mov Cap-1 Maneuver 674	646	1075	0	709	651	1066	1625	-	-	1574	-	-
Mov Cap-2 Maneuver 674	646	-	0	709	651	-	-	-	-	-	-	-
Stage 1 761	697	-	0	1015	890	-	-	-	-	-	-	-
Stage 2 963	885	-	0	761	697	-	-	-	-	-	-	-
Approach EB			WB				NB			SB		
HCM Control Delay, s/v 0			8.67				0			7.11		
HCM LOS A			A				•					
,												
Minor Lane/Major Mvmt	NBL	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)	1625	-	-		1048	1570	-	-				
HCM Lane V/C Ratio	-	_	-		0.063	0.06	_	_				
HCM Control Delay (s/veh)	0	_	-	0	8.7	7.4	0	_				
HCM Lane LOS	A	-	-	A	Α	Α	A	-				
HCM 95th %tile Q(veh)	0	-	-	-	0.2	0.2	-	-				

Intersection						
Int Delay, s/veh	1.8					
Movement	SBL	SBR	NEL	NET	SWT	SWR
Lane Configurations	¥			सी	Þ	
Traffic Vol, veh/h	34	3	1	86	55	16
Future Vol, veh/h	34	3	1	86	55	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	37	3	1	93	60	17
	•		•			• • •
	Minor2		/lajor1		Major2	
Conflicting Flow All	164	68	77	0	-	0
Stage 1	68	-	-	-	-	-
Stage 2	96	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	_	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	_	-	_
Pot Cap-1 Maneuver	831	1000	1534	_	_	_
Stage 1	959	-	-	_	_	_
Stage 2	933	_	_	_	_	_
Platoon blocked, %	300			_	_	_
Mov Cap-1 Maneuver	831	1000	1534		_	
	831					
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	959	-	-	-	-	-
Stage 2	933	-	-	-	-	-
Approach	SB		NE		SW	
HCM Control Delay, s/\			0.08		0	
HCM LOS	A		0.00		v	
TIOW LOO						
Minor Lane/Major Mvm	t	NEL	NET:	SBLn1	SWT	SWR
Capacity (veh/h)		21	_	842	_	-
HCM Lane V/C Ratio		0.001	-	0.048	-	-
HCM Control Delay (s/v	veh)	7.3	0	9.5	-	-
HCM Lane LOS		A	A	Α	-	-
HCM 95th %tile Q(veh)		0	-	0.2	_	-
Sivi ootii 70tiio Q(Voii)		U		J.L		

Intersection						
Int Delay, s/veh	1.3					
Movement	SBL	SBR	NEL	NET	SWT	SWR
Lane Configurations	¥			सी	Þ	
Traffic Vol, veh/h	25	2	3	95	59	39
Future Vol, veh/h	25	2	3	95	59	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	27	2	3	103	64	42
		_		_		
	/linor2		//ajor1		Major2	
Conflicting Flow All	195	85	107	0	-	0
Stage 1	85	-	-	-	-	-
Stage 2	110	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	798	979	1497	-	-	-
Stage 1	943	-	-	-	-	-
Stage 2	920	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	796	979	1497	_	_	-
Mov Cap-2 Maneuver	796	-	-	_	_	_
Stage 1	941	_	_	_	_	_
Stage 2	920	_	_	_	_	_
Olago Z	320					
Approach	SB		NE		SW	
HCM Control Delay, s/v	9.63		0.23		0	
HCM LOS	Α					
Minor Long/Major Mymt		NIEL	NICT	CDL 51	CMT	CMD
Minor Lane/Major Mvmt		NEL		SBLn1	SWT	SWR
Capacity (veh/h)		55	-		-	-
HCM Lane V/C Ratio		0.002		0.036	-	-
HCM Control Delay (s/v	eh)	7.4	0	9.6	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)		0	-	0.1	-	-

Intersection						
Int Delay, s/veh	2.1					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			4	- XX	
Traffic Vol, veh/h	66	2	12	86	3	35
Future Vol, veh/h	66	2	12	86	3	35
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	_	-
Veh in Median Storage,	# 0	_	_	0	0	_
Grade, %	0	<u>-</u>	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	72	2	13	93	3	38
IVIVIIIL FIOW	12	2	13	93	3	30
Major/Minor Ma	ajor1	N	//ajor2		Minor1	
Conflicting Flow All	0	0	74	0	192	73
Stage 1	-	-	-	-	73	-
Stage 2	_	_	_	_	120	_
Critical Hdwy	_	-	4.1	_	6.4	6.2
					5.4	
Critical Hdwy Stg 1	-	-	-	-		-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1538	-	801	995
Stage 1	-	-	-	-	955	-
Stage 2	-	-	-	-	911	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1538	-	794	995
Mov Cap-2 Maneuver	-	-	-	-	794	-
Stage 1	-	-	-	-	955	-
Stage 2	_	_	_	_	902	_
Glago Z					002	
Approach	EB		WB		NB	
HCM Control Delay, s/v	0		0.9		8.85	
HCM LOS					Α	
N.C. 1 (N.C.) N.A. (		IDL 4	БРТ	EDD	MOL	MOT
Minor Lane/Major Mvmt	- 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		975	-	-	220	-
HCM Lane V/C Ratio		0.042	-		0.008	-
HCM Control Delay (s/ve	eh)	8.9	-	-	7.4	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0.1	-	-	0	-

Intersection						
Int Delay, s/veh	2					
		EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	7		0.4	4	¥	00
Traffic Vol, veh/h	81	4	31	97	2	26
Future Vol, veh/h	81	4	31	97	2	26
Conflicting Peds, #/hr	0	0	0	0	0	0
	ree	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	ŧ 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	88	4	34	105	2	28
Majay/Minay Ma	:1		4-:0		Nin au 1	
	ijor1		Major2		Minor1	
Conflicting Flow All	0	0	92	0	263	90
Stage 1	-	-	-	-	90	-
Stage 2	-	-	-	-	173	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1515	-	730	973
Stage 1	-	-	-	-	938	-
Stage 2	-		-	-	862	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1515	-	713	973
Mov Cap-2 Maneuver	_	_	-	_	713	-
Stage 1	_	_	_	_	938	_
Stage 2	_	_	_	_	842	_
Jugo 2					U-12	
Approach	EB		WB		NB	
HCM Control Delay, s/v	0		1.8		8.92	
HCM LOS					Α	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
	- 1					
Capacity (veh/h)		948	-	-		-
HCM Lane V/C Ratio	. \	0.032	-		0.022	-
HCM Control Delay (s/ve	n)	8.9	-	-		0
HCM Lane LOS		A	-	-	A	Α
HCM 95th %tile Q(veh)		0.1	-	-	0.1	-

1: Flightway Ave./University Blvd

2025\_Conditions

Flightway Ave.

**University Blvd.** 

Signalized

Flightway Ave. / University Blvd.	EB (F	lightway	Ave.)	NB (U	niversity	Blvd.)	SB (University Blvd.)		
2025_Conditions	L	Т	R	L	Т	R	L	Т	R
Existing Lane Geometry	1>	0	0	<1	2	0	0	2>	0
AM Peak Hour									
2025_NO BUILD Volumes	50		35	76	857			476	40
V/C Ratio	0.23			80.0					
Level-of-Service	С			Α					
Control Delay (Seconds)	16.7		0.0	9.0	0.0			0.0	0.0
Intersection LOS					TWSC				
95th Percentile Queue (veh)	0.9		0.0	0.3	0.0			0.2	0.0
2025_BUILD Volumes	73		50	80	868			481	49
V/C Ratio	0.34			0.09					
Level-of-Service	С			Α					
Control Delay (Seconds)	19.0		0.0	9.1	0.0			0.0	0.0
Intersection LOS		-	-	-	TWSC			-	-
95th Percentile Queue (veh)	1.5		0.0	0.3	0.0			0.0	0.0

### **PM Peak Hour**

2025_NO BUILD Volumes	62	48	42	625		857	74
V/C Ratio	0.38		0.08				
Level-of-Service	С		В				
Control Delay (Seconds)	23.6	0.0	11.4	0.0		0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	1.7	0.0	0.2	0.0		0.0	0.0
2025_BUILD Volumes	79	59	53	636		869	97
V/C Ratio	0.51		0.10				
Level-of-Service	D		В				
Control Delay (Seconds)	29.1	0.0	11.7	0.0		0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	2.7	0.0	0.3	0.0		0.0	0.0

2: Woodward Rd./University Blvd.

2025\_Conditions

Woodward Rd.

**University Blvd.** 

Signalized

Woodward Rd. / University Blvd.	EB (V	Voodwar	d Rd.)	NB (U	niversity	Blvd.)	SB (U	niversity	Blvd.)
2025_Conditions	L	T	R	L	Т	R	L	T	R
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0
AM Peak Hour									
2025_NO BUILD Volumes	55		187	107	877			480	32
V/C Ratio	0.50			0.12					
Level-of-Service	С			Α					
Control Delay (Seconds)	18.5		0.0	9.0				0.0	0.0
Intersection LOS					TWSC				
95th Percentile Queue (veh)	2.8		0.0	0.4	0.0			0.0	0.0
2025_BUILD Volumes	66		213	119	881			495	37
V/C Ratio	0.60			0.13					
Level-of-Service	С			Α					
Control Delay (Seconds)	22.4		0.0	9.2				0.0	0.0
Intersection LOS	TWSC							=	
95th Percentile Queue (veh)	3.9		0.0	0.4	0.0			0.0	0.0

PM	Pea	kΗ	our

2025_NO BUILD Volumes	76		164	174	590		840	69
V/C Ratio	0.78			0.30				
Level-of-Service	Е			В				
Control Delay (Seconds)	45.9		0.0	13.1			0.0	0.0
Intersection LOS					TWSC	-		
95th Percentile Queue (veh)	6.4		0.0	1.2	0.0		0.0	0.0
2025_BUILD Volumes	84		183	205	601		851	81
V/C Ratio	0.93			0.37				
Level-of-Service	F			В				
Control Delay (Seconds)	72.3		0.0	14.3			0.0	0.0
Intersection LOS	TWSC							
95th Percentile Queue (veh)	9.1		0.0	1.7	0.0		0.0	0.0

3: Woodward Rd./Transport St.

2025\_Conditions

Woodward Rd.

Transport St.

Signalized

Woodward Rd. / Transport St.	EB (V	Voodwar	d Rd.)	WB (V	Voodwar	d Rd.)	NB (	Transpo	rt St.)	SB (	Transpor	rt St.)
2025_Conditions	L	Т	R	L	Т	R	L	T	R	L	Т	R
Existing Lane Geometry	0	<1>	0	0	<1>	0	0	<1>	0	0	<1>	0
AM Peak Hour												
2025_NO BUILD Volumes	0	0	0	1	0	52	0	1	12	71	0	0
V/C Ratio	0.00			0.05			0.00			0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0
Intersection LOS		•	•			TW	SC		•			
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
2025_BUILD Volumes	0	0	0	1	0	57	0	1	12	75	0	0
V/C Ratio	0.00			0.06						0.05		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS	TWSC											
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0

FIVI FEAR FIGURE	PM	Peak	Hour
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2025_NO BUILD Volumes	0	0	0	4	0	51	0	1	11	82	4	0
V/C Ratio	0.00			0.06			0.00			0.06		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS						TW	SC					
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
2025_BUILD Volumes	0	0	0	4	0	57	0	1	11	87	4	0
V/C Ratio	0.00			0.06			0.00			0.06		
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS						TW	SC					
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0

4: DaVita Access & Transport St.

2025\_Conditions

**DaVita Access** 

Transport St.

Signalized

DaVita Access / Transport St.	EB (C	aVita Ac	cess)	NB (	Transpo	rt St.)	SB (	Transpoi	t St.)
2025_Conditions	L	Т	R	L	Т	R	L	T	R
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0
AM Peak Hour									
2025_NO BUILD Volumes									
V/C Ratio									
Level-of-Service									
Control Delay (Seconds)									
Intersection LOS					TWSC				
95th Percentile Queue (veh)									
2025_BUILD Volumes									
V/C Ratio									
Level-of-Service									
Control Delay (Seconds)									
Intersection LOS		-	-	-	TWSC	-	-	-	
95th Percentile Queue (veh)									

PM Peak Hour					
2025_NO BUILD Volumes					
V/C Ratio					
Level-of-Service					
Control Delay (Seconds)					
Intersection LOS		TWSC			
95th Percentile Queue (veh)					
2025_BUILD Volumes					
V/C Ratio					
Level-of-Service					
Control Delay (Seconds)					
Intersection LOS	•	TWSC		-	
95th Percentile Queue (veh)					

5: Driveway "A" & Woodward Rd.

2025\_Conditions

Woodward Rd.

Driveway "A"

Unsignalized

Woodward Rd. / Driveway "A"	EB (V	Voodwar	d Rd.)	WB (V	Voodwar	d Rd.)	SB (	Driveway	"A")
2025_Conditions	L	Т	R	L	Т	R	L	Т	R
Proposed Lane Geometry	0	<1	0	0	1>	0	1>	0	0
AM Peak Hour									
2025_BUILD Volumes	1	86	0	0	55	16	34	0	3
V/C Ratio	0.00						0.05		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.3	0.0			0.0		9.5		0.0
Intersection LOS			-		TWS	С		-	
95th Percentile Queue (veh)	0.0	0.0			0.0		0.2		0.0

### **PM Peak Hour**

2025_BUILD Volumes	3	95	0	0	59	39	25	0	2
V/C Ratio	0.00						0.04		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.4	0.0			0.0		9.6		0.0
Intersection LOS					TWS	С			
95th Percentile Queue (veh)	0.0	0.0			0.0		0.1		0.0

6:Driveway "B" & Flightway Ave.

2025\_Conditions

Flightway Ave

Driveway "B"

Unsignalized

Flightway Ave / Driveway "B"	EB (F	lightway	/ Ave)	WB (	Flightway	Ave)	NB (I	Driveway	/ "B")
2025_Conditions	L	Т	R	L	T	R	L	Т	R
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
AM Peak Hour									
2025_BUILD Volumes		66	2	12	86		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)		0.0	0.0	7.4	0.0		8.9		0.0
Intersection LOS			-		TWSC	-			-
95th Percentile Queue (veh)		0.0	0.0	0.0	0.0		0.1		0.0

### **PM Peak Hour**

2025_BUILD Volumes	81	4	31	97	2	26
V/C Ratio			0.02		0.03	
Level-of-Service			Α	Α	Α	
Control Delay (Seconds)	0.0	0.0	7.4	0.0	8.9	0.0
Intersection LOS				TWSC		
95th Percentile Queue (veh)	0.0	0.0	0.1	0.0	0.1	0.0

# **Appendix 11**

Intersection							
Int Delay, s/veh	1.4						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	*/	LDI	INDO	À	<b>^</b>	<b>↑</b> ⊅	ODIT
Traffic Vol, veh/h	53	37	1	79	900	500	42
Future Vol, veh/h	53	37	1	79	900	500	42
Conflicting Peds, #/hr	3	3	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	-	None	_		None		None
Storage Length	0	-	-	175	-	-	-
Veh in Median Storage		-	_	_	0	0	_
Grade, %	0	_	-	_	0	0	-
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	2	14	0	5	1	3	5
Mvmt Flow	58	40	1	86	978	543	46
			•				
Major/Minor	Minor		laier1			/oicr2	
	Minor2		Major1	E00		//ajor2	^
Conflicting Flow All	1232	298	589	589	0	-	0
Stage 1	566	-	-	-	-	-	-
Stage 2	666	- 7.40	-	-	-	-	-
Critical Hdwy	6.84	7.18	6.4	4.2	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-	-
Critical Hdwy Stg 2	5.84		-	-	-	-	-
Follow-up Hdwy	3.52	3.44	2.5	2.25	-	-	-
Pot Cap-1 Maneuver	169	664	616	962	-	-	-
Stage 1	531	-	-	-	-	-	-
Stage 2	472	-	-	-	-	-	-
Platoon blocked, %					-	-	-
Mov Cap-1 Maneuver	160	662	954	954	-	-	-
Mov Cap-2 Maneuver	295	-	-	-	-	-	-
Stage 1	501	-	-	-	-	-	-
Stage 2	472	-	-	-	-	-	-
Approach	EB		NB			SB	
HCM Control Delay, s			0.75			0	
HCM LOS	C		0.10			U	
TIOWI LOO	J						
					05-	055	
Minor Lane/Major Mvr	nt	NBL	NBT I	EBLn1	SBT	SBR	
Capacity (veh/h)		954	-		-	-	
HCM Lane V/C Ratio		0.091	-	0.256	-	-	
HCM Control Delay (s.	/veh)	9.2	-		-	-	
HCM Lane LOS		Α	-	С	-	-	
HCM 95th %tile Q(veh	1)	0.3	-	1	-	-	

Horizon Year Volume
Existing Geometry
Synchro 12 Report
E- AM Peak

Intersection							
Int Delay, s/veh	2						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	₩.	LDIX	טמאו	NDL			אופט
Traffic Vol, veh/h	76	52	1	83	<b>††</b> 911	<b>†1</b>	51
Future Vol, veh/h	76	52	1	83	911	505	51
Conflicting Peds, #/hr	3	3	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	- -	None	-	-	None	-	None
Storage Length	0	-	_	175	-	<u>-</u>	-
Veh in Median Storage		_	_	-	0	0	_
Grade, %	0	-	_		0	0	
Peak Hour Factor	92	92	92	92	92	92	92
	92	14				3	
Heavy Vehicles, %	83		0	5 90	1	549	5 55
Mvmt Flow	83	57		90	990	549	55
Major/Minor	Minor2	N	Major1		N	//ajor2	
Conflicting Flow All	1257	305	604	604	0	-	0
Stage 1	577	-	-	-	-	_	-
Stage 2	681	_	_	_	_	_	_
Critical Hdwy	6.84	7.18	6.4	4.2	_	_	_
Critical Hdwy Stg 1	5.84	-	-	- 1.2	_	_	_
Critical Hdwy Stg 2	5.84	_	_	_			_
Follow-up Hdwy	3.52	3.44	2.5	2.25			_
Pot Cap-1 Maneuver	163	656	602	949	-	-	
	525	- 000	002	343		-	
Stage 1	464		-	-	-	-	
Stage 2	404	-	-	-	-	-	-
Platoon blocked, %	450	055	044	0.14	-	-	-
Mov Cap-1 Maneuver	153	655	941	941	-	-	-
Mov Cap-2 Maneuver	288	-	-	-	-	-	-
Stage 1	493	-	-	-	-	-	-
Stage 2	464	-	-	-	-	-	-
Approach	EB		NB			SB	
HCM Control Delay, s/			0.78			0	
	V20.29		0.70			U	
HCM LOS	U						
Minor Lane/Major Mvn	nt	NBL	NBT I	EBLn1	SBT	SBR	
Capacity (veh/h)		941	-		-	-	
HCM Lane V/C Ratio		0.097		0.373	_	_	
HCM Control Delay (s/	veh)	9.2	_	20.3	_	_	
HCM Lane LOS	. 0.11)	Α.Δ	_	C	<u>-</u>	_	
HCM 95th %tile Q(veh	\	0.3	_	1.7	_	_	
HOW JULY WILL W(VEH	1	0.5	-	1.7			

Horizon Year Volume
Synchro 12 Report
F- AM Peak

Intersection							
Int Delay, s/veh	2						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
	THE STATE OF THE S	LDK	טמאו				אמט
Lane Configurations Traffic Vol, veh/h		51	2	40	<b>^</b>	<b>†</b> ‡	78
Future Vol, veh/h	65 65	51	2	40 40	659 659	900	78 78
<u> </u>							
Conflicting Peds, #/hr		6 Cton	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	-	None	-	475	None	-	None
Storage Length	0	-	-	175	-	-	-
Veh in Median Storag		-	-	-	0	0	-
Grade, %	0	-	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	0	2	0	8	1	1	5
Mvmt Flow	71	55	2	43	716	978	85
Major/Minor	Minor	N	Major1			/aior2	
Major/Minor	Minor2		Major1	4000		//ajor2	
Conflicting Flow All	1476	538	1063	1063	0	-	0
Stage 1	1021	-	-	-	-	-	-
Stage 2	455	-	-	-	-	-	-
Critical Hdwy	6.8	6.94	6.4	4.26	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-	-
Follow-up Hdwy	3.5	3.32	2.5	2.28	-	-	-
Pot Cap-1 Maneuver	119	488	308	617	-	-	-
Stage 1	313	-	-	-	-	-	-
Stage 2	611	-	-	-	-	-	-
Platoon blocked, %					-	_	-
Mov Cap-1 Maneuver	113	485	582	582	-	-	-
Mov Cap-2 Maneuver		-	-	-	_	_	_
Stage 1	297	_	_	_	_	_	_
Stage 2	611	_			_		
Staye 2	011	<u>-</u>	<u>-</u>	_	<del>-</del>	-	-
Approach	EB		NB			SB	
HCM Control Delay, s	/v25.98		0.7			0	
HCM LOS	D					-	
Minor Lane/Major Mvi	nt	NBL	NBT I	EBLn1	SBT	SBR	
Capacity (veh/h)		582	-	295	-	-	
HCM Lane V/C Ratio		0.078	-	0.427	-	-	
HCM Control Delay (s	/veh)	11.7	-	26	-	-	
HCM Lane LOS		В	_	D	_	_	
HCM 95th %tile Q(vel	1)	0.3	_	2	_	_	
3111 0041 70410 04 101	.,	3.0		_			

Horizon Year Volume
Existing Geometry
Synchro 12 Report
G- PM Peak

Intersection							
Int Delay, s/veh	2.9						
Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDIX	טמאו	NDL T		<b>↑</b> 13-	אופט
Traffic Vol, veh/h	<b>"1"</b> 82	62	3		<b>↑</b> ↑ 667	<b>T №</b> 912	101
Future Vol, veh/h	82	62	3	50 50	667	912	101
		6					
Conflicting Peds, #/hr			0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free
RT Channelized	-	None	-	475	None	-	None
Storage Length	0	-	-	175	-	-	-
Veh in Median Storag	-	-	-	-	0	0	-
Grade, %	0	-	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92	92
Heavy Vehicles, %	0	2	0	8	1	1	5
Mvmt Flow	89	67	3	54	725	991	110
Major/Minor	Minor2		Major1			//ajor2	
Conflicting Flow All	1530	557	1101	1101	0	-	0
Stage 1	1046	-	-	-	-	-	-
Stage 2	484	-	-	-	-	-	-
Critical Hdwy	6.8	6.94	6.4	4.26	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-	-
Follow-up Hdwy	3.5	3.32	2.5	2.28	-	-	-
Pot Cap-1 Maneuver	110	474	291	596	-	-	-
Stage 1	304	-	-	-	-	-	-
Stage 2	591	_	-	-	-	-	-
Platoon blocked, %	501				<u>-</u>	_	_
Mov Cap-1 Maneuver	102	471	552	552	_	_	_
Mov Cap-1 Maneuver			- 552	UUZ	<u> </u>	_	_
Stage 1	283			-	-		
			-			-	
Stage 2	591	-	-	-	-	-	-
Approach	EB		NB			SB	
HCM Control Delay, s			0.9			0	
HCM LOS	7V33.07		0.0			U	
I IOW LOG	U						
Minor Lane/Major Mvi	nt	NBL	NBT I	EBLn1	SBT	SBR	
Capacity (veh/h)		552	-	280	-	-	
HCM Lane V/C Ratio		0.104	_	0.56	_	_	
HCM Control Delay (s	/veh)	12.3	_	33.1	_	_	
HCM Lane LOS	, 7011)	12.5 B	_	D	<u>-</u>	_	
HCM 95th %tile Q(vel	2)	0.3		3.2	-		
	1)	0.5	-	J.Z	-	-	

Horizon Year Volume
Synchro 12 Report
H- PM Peak

Intersection						
Int Delay, s/veh	3.4					
Mayamant	EDI	EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	4	7	<b>^</b>	ħβ	
Traffic Vol, veh/h	58	196	112	921	504	34
Future Vol, veh/h	58	196	112	921	504	34
Conflicting Peds, #/hr	2	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	245	-	-	-
Veh in Median Storage	e, # 1	-	-	0	0	-
Grade, %	0	_	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	0
Mymt Flow	63	213	122	1001	548	37
IVIVIII I IOW	03	210	122	1001	J <del>1</del> 0	51
Major/Minor	Minor2	N	Major1	<u> </u>	/lajor2	
Conflicting Flow All	1312	294	585	0		0
Stage 1	566		_	-	-	-
Stage 2	746	_	_	_	_	_
Critical Hdwy	6.86	6.96	4.14	_	_	_
Critical Hdwy Stg 1	5.86	-	7.17	<u>-</u>	<u>-</u>	_
Critical Hdwy Stg 2	5.86	_	_	_	_	
	3.53			-		
Follow-up Hdwy		3.33	2.22	-	-	-
Pot Cap-1 Maneuver	149	699	986	-	-	-
Stage 1	529	-	-	-	-	-
Stage 2	427	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		698	986	-	-	-
Mov Cap-2 Maneuver	262	-	-	-	-	-
Stage 1	463	-	-	-	-	-
Stage 2	427	-	-	_	-	-
0 -						
Approach	EB		NB		SB	
HCM Control Delay, sa	v20.34		0.99		0	
HCM LOS	С					
Minor Long/Major Mars	o.t	NDI	NDT	EDI -1	CDT	CDD
Minor Lane/Major Mvn	TIC .	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		986	-		-	-
HCM Lane V/C Ratio		0.123	-	0.546	-	-
HCM Control Delay (s.	/veh)	9.2	-	20.3	-	-
HCM Lane LOS		Α	-	С	-	-
HCM 95th %tile Q(veh	1)	0.4	-	3.2	-	-

Horizon Year Volume
Synchro 12 Report
Existing Geometry
E- AM Peak

Intersection						
Int Delay, s/veh	4.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			<b>^</b>	ተኈ	
Traffic Vol, veh/h	69	222	124	925	519	39
Future Vol, veh/h	69	222	124	925	519	39
Conflicting Peds, #/hr	2	2	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	245	-	-	-
Veh in Median Storage	e, # 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	0
Mvmt Flow	75	241	135	1005	564	42
		_				
	Minor2		Major1		/lajor2	
Conflicting Flow All	1360	305	607	0	-	0
Stage 1	585	-	-	-	-	-
Stage 2	774	-	-	-	-	-
Critical Hdwy	6.86	6.96	4.14	-	-	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	2.22	-	-	-
Pot Cap-1 Maneuver	138	688	968	-	_	-
Stage 1	517	-	-	_	_	-
Stage 2	413	-	-	-	-	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	119	686	968	_	_	_
Mov Cap-2 Maneuver	250	-	-	_	_	_
Stage 1	445					
Stage 2	413	_	_	_	_	_
Staye 2	413	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/	v25.26		1.1		0	
HCM LOS	D					
Minor Lone /Maior M.	a.t	NDI	NDT	ΓDI4	CDT	CDD
Minor Lane/Major Mvn	II(	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		968	-		-	-
HCM Lane V/C Ratio		0.139		0.652	-	-
HCM Control Delay (sa	/veh)	9.3	-		-	-
HCM Lane LOS		Α	-	D	-	-
HCM 95th %tile Q(veh		0.5		4.6		

Horizon Year Volume
Synchro 12 Report
F- AM Peak

Intersection									
Int Delay, s/veh	9.1								
Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBT	SBR	
Lane Configurations		W			75	<b>^</b>	<b>∱</b> ∱		
Traffic Vol, veh/h	1	79	172	8	175	619	882	73	
Future Vol, veh/h	1	79	172	8	175	619	882	73	
Conflicting Peds, #/hr		0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	_	-	None	-	None	
Storage Length	-	0	_	-	245	-	-	-	
Veh in Median Storage	e.# -	1	_	-	_	0	0	_	
Grade, %	-	0	_	-	_	0	0	_	
Peak Hour Factor	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	1	2	0	2	1	1	0	
Mvmt Flow	1	86	187	9	190	673	959	79	
Major/Minor	Minor2		ı	Major1		N	/lajor2		
Conflicting Flow All	0	1733	519	1038	1038	0	- najoiz	0	
Stage 1	0	998	-	-	-	-	_	-	
Stage 2	0	734	<u>-</u>	_	_	_	_	_	
Critical Hdwy	-	6.82	6.94	6.4	4.14	_	_	_	
Critical Hdwy Stg 1	_	5.82	-	- 0.4	T. IT	_	_	_	
Critical Hdwy Stg 2	_	5.82	_	_	_	_	_	_	
Follow-up Hdwy	_	3.51	3.32	2.5	2.22	_	_	_	
Pot Cap-1 Maneuver	0	~ 80	502	319	665	_	_	_	
Stage 1	0	319	-	-	-	_	_	_	
Stage 2	0	438	_	_	_	_	_	_	
Platoon blocked, %		.00				_	_	<u>-</u>	
Mov Cap-1 Maneuver	0	~ 61	502	604	604	_	_	_	
Mov Cap-2 Maneuver		169	-	-	-	_	_	_	
Stage 1	0	246	-	-	-	-	-	-	
Stage 2	0	438	_	-	_	-	_	-	
U -									
Approach	EB			NB			SB		
HCM Control Delay, s	/v62.65			3.16			0		
HCM LOS	F								
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR			
Capacity (veh/h)		604	-	310	-				
HCM Lane V/C Ratio		0.329	_	0.88	_	_			
HCM Control Delay (s	/veh)	13.9	_	62.7	_	_			
HCM Lane LOS	,, 7011)	В	<u>-</u>	62.7 F	_	_			
HCM 95th %tile Q(veh	າ)	1.4	-	8.1	-	-			
,	1								
Notes	'1	Ф.Б	la		20-		4 - 1'	NI-1 D	Const. * All or do .
~: Volume exceeds ca	apacity	\$: D6	elay exc	eeds 30	JUS	+: Com	outation	Not De	efined *: All major volume in platoon

Horizon Year Volume
Synchro 12 Report
Existing Geometry
G- PM Peak

Intersection									
Int Delay, s/veh	15.5								
Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBT	SBR	
Lane Configurations		¥			7	<b>^</b>	<b>ተ</b> ኈ		
Traffic Vol, veh/h	1	87	191	14	200	630	893	85	
Future Vol, veh/h	1	87	191	14	200	630	893	85	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Free	Free	Free	Free	Free	
RT Channelized	_	_	None	-	_	None	_	None	
Storage Length	-	0	-	-	245	-	-	-	
Veh in Median Storage	e,# -	1	-	-	-	0	0	-	
Grade, %	-	0	-	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	1	2	0	2	1	1	0	
Mvmt Flow	1	95	208	15	217	685	971	92	
Major/Minor	Minor2		1	Major1		N	/lajor2		
Conflicting Flow All	0	1824	532	1063	1063	0	-	0	
Stage 1	0	1017	-	-	-	-	_	-	
Stage 2	0	808	-	-	_	-	_	-	
Critical Hdwy	-	6.82	6.94	6.4	4.14	-	-	-	
Critical Hdwy Stg 1	_	5.82	-	-	-	_	_	_	
Critical Hdwy Stg 2	_	5.82	-	_	_	_	_	_	
Follow-up Hdwy	_	3.51	3.32	2.5	2.22	_	_	_	
Pot Cap-1 Maneuver	0	~ 69	492	308	651	-	-	-	
Stage 1	0	312	-	-	-	-	-	-	
Stage 2	0	402	_	-	_	-	-	-	
Platoon blocked, %						_	_	_	
Mov Cap-1 Maneuver	. 0	~ 50	492	555	555	-	-	-	
Mov Cap-2 Maneuver		152	-	-	-	-	-	-	
Stage 1	0	225	-	-	-	-	-	-	
Stage 2	0	402	_	-	_	-	_	-	
0									
Approach	EB			NB			SB		
HCM Control Delay, s.				4.08			0		
HCM LOS	F								
Minor Lane/Major Mvr	nt	NBL	NRT	EBLn1	SBT	SBR			
Capacity (veh/h)		555	-	290	-	-			
HCM Lane V/C Ratio		0.419		1.043	_	_			
HCM Control Delay (s	/veh)	16.1		104.2	_	_			
HCM Lane LOS	, 7011)	C	_	F	_	_			
HCM 95th %tile Q(veh	າ)	2.1	_		_	_			
·	.,								
Notes		ф. D	day	d- 0/	10-	0 - :-	o da ti -	Not D	fined * All made loss is at t
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 30	JUS	+: Com	outation	n Not De	efined *: All major volume in platoon

Horizon Year Volume
Synchro 12 Report
H- PM Peak

Intersection												
Int Delay, s/veh	7.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	0	0	1	0	55	0	1	13	75	0	0
Future Vol, veh/h	0	0	0	1	0	55	0	1	13	75	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	2	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	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	6	6	6	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	1	0	60	0	1	14	82	0	0
Major/Minor	Minor2		1	Minor1		ľ	Major1		ľ	Major2		
Conflicting Flow All	166	182	2	173	175	10	2	0	0	17	0	0
Stage 1	165	165	-	10	10	-	_	-	-	_	-	-
Stage 2	1	17	-	163	165	_	_	_	_	_	_	_
Critical Hdwy	7.16	6.56	6.26	7.1	6.5	6.2	4.1	-	_	4.1	_	_
Critical Hdwy Stg 1	6.16	5.56	-	6.1	5.5	-	-	-	-	-	-	_
Critical Hdwy Stg 2	6.16	5.56	_	6.1	5.5	_	-	-	_	-	_	_
Follow-up Hdwy	3.554	4.054	3.354	3.5	4	3.3	2.2	-	-	2.2	-	_
Pot Cap-1 Maneuver	789	705	1071	794	722	1077	1634	-	-	1613	-	-
Stage 1	828	754	-	1016	891	-	-	-	_	-	-	_
Stage 2	1012	873	-	844	766	-	_	-	-	_	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	706	666	1069	753	683	1075	1631	-	-	1610	-	-
Mov Cap-2 Maneuver	706	666	-	753	683	-	-	-	-	-	-	-
Stage 1	784	715	-	1014	889	-	-	-	-	-	-	-
Stage 2	955	871	-	801	725	-	-	-	-	-	-	-
Ŭ												
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v 0			8.58			0			7.36		
HCM LOS	Α			А								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1631	-	-	-	1067	1610	-	-			
HCM Lane V/C Ratio		-	-	-		0.057		-	_			
HCM Control Delay (s/	veh)	0	-	-	0	8.6	7.4	0	-			
HCM Lane LOS	,	A	-	-	A	Α	Α	A	-			
HCM 95th %tile Q(veh	)	0	-	-	-	0.2	0.2	-	-			

Horizon Year Volume
Synchro 12 Report
Existing Geometry
E- AM Peak

Intersection												
Int Delay, s/veh	7.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	0	0	1	0	60	0	1	13	79	0	0
Future Vol, veh/h	0	0	0	1	0	60	0	1	13	79	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	2	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	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	6	6	6	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	1	0	65	0	1	14	86	0	0
Major/Minor	Minor2		ı	Minor1		_	Major1		N	/lajor2		
Conflicting Flow All	175	191	2	182	184	10	2	0	0	17	0	0
Stage 1	173	174	-	102	104	-	-	-	-	11	-	-
Stage 2	1/4	174	_	172	174		_	_	_	-	_	_
Critical Hdwy	7.16	6.56	6.26	7.1	6.5	6.2	4.1	_	_	4.1	_	_
Critical Hdwy Stg 1	6.16	5.56	-	6.1	5.5	-	-	_	_	-	_	<u>-</u>
Critical Hdwy Stg 2	6.16	5.56	_	6.1	5.5	_	_	_	_	_	_	_
Follow-up Hdwy	3.554	4.054	3.354	3.5	4	3.3	2.2	_	_	2.2	_	_
Pot Cap-1 Maneuver	779	697	1071	784	714	1077	1634	-	_	1613	_	-
Stage 1	819	748	-	1016	891	-	-	-	_	-	-	-
Stage 2	1012	873	_	835	759	_	-	-	-	-	_	_
Platoon blocked, %								-	_		-	-
Mov Cap-1 Maneuver	691	657	1069	741	673	1075	1631	-	-	1610	-	-
Mov Cap-2 Maneuver	691	657	-	741	673	-	-	-	-	-	-	-
Stage 1	774	706	-	1014	889	-	-	-	-	-	-	-
Stage 2	950	871	-	790	717	-	-	-	-	-	-	-
Annragah	ED			WD			ND			CD		
Approach	EB			WB			NB			SB		
HCM Control Delay, s/				8.6			0			7.36		
HCM LOS	Α			Α								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR E	EBLn1V	VBL <sub>n1</sub>	SBL	SBT	SBR			
Capacity (veh/h)		1631	-	-		1067	1610	-	-			
HCM Lane V/C Ratio		-	-	-	-	0.062	0.053	-	-			
HCM Control Delay (s/	veh)	0	-	-	0	8.6	7.4	0	-			
HCM Lane LOS		Α	-	-	Α	Α	Α	Α	-			
HCM 95th %tile Q(veh	)	0	-	-	-	0.2	0.2	-	-			

Horizon Year Volume
Synchro 12 Report
F- AM Peak

Intersection													
Int Delay, s/veh	7.1												
Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4				4			4			4	
Traffic Vol. veh/h	0	0	0	2	2	0	54	0	1	12	87	4	0
Future Vol, veh/h	0	0	0	2	2	0	54	0	1	12	87	4	0
Conflicting Peds, #/hr	2	0	2	1	1	0	1	2	0	2	0	0	0
Sign Control	Stop	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, %	, <i>''</i>	0	_	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	2	0	0	0	6	0	0
Mvmt Flow	0	0	0	2	2	0	59	0	1	13	95	4	0
IVIVIIIL I IOW	U	U	U			U	33	U		13	90	4	U
Major/Minor N	Minor2			Minor1			<u> </u>	Major1			Major2		
Conflicting Flow All	199	212	8	0	205	205	12	6	0	0	16	0	0
Stage 1	195	195	-	0	10	10	-	-	-	-	-	-	-
Stage 2	3	16	-	0	195	195	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	-	7.1	6.5	6.22	4.1	-	-	4.16	-	-
Critical Hdwy Stg 1	6.1	5.5	-	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	_	3.5	4	3.318	2.2	_	-	2.254	-	_
Pot Cap-1 Maneuver	765	689	1079	0	757	695	1069	1628	_	-	1576	_	-
Stage 1	811	743	-	0	1017	892	-	-	_	_	_	-	_
Stage 2	1025	886	-	0	811	743	-	-	-	-	_	-	_
Platoon blocked, %				_					_	_		_	_
Mov Cap-1 Maneuver	676	645	1075	0	709	651	1065	1625	_	_	1573	-	_
Mov Cap-2 Maneuver	676	645	-	0	709	651	-	_	_	_	-	_	_
Stage 1	761	697	_	0	1015	890	_	_	_	_	_	-	_
Stage 2	966	884	_	0	761	697	_	_	_	_	_	_	_
	- • •	- • .			. •	- • .							
Approach	EB			WB				NB			SB		
HCM Control Delay, s/v				8.66				0			7.11		
HCM LOS	A			Α				U			7.11		
TIOW LOS													
Minor Lane/Major Mvm	t	NBL	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1625	-	-	-	1046	1569	-	-				
HCM Lane V/C Ratio		-	_	_	_	0.06	0.06	_	_				
HCM Control Delay (s/	veh)	0	-	-	0	8.7	7.4	0	_				
HCM Lane LOS	,	A	_	_	A	A	A	A	_				
HCM 95th %tile Q(veh)		0	-	-	-	0.2	0.2	-	_				
70410 ((1011)		_				7.2	7						

Horizon Year Volume
Synchro 12 Report
Existing Geometry
G- PM Peak

Intersection													
Int Delay, s/veh	7.2												
• ·	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Movement	EDL		EDK	VVDU	VVDL		WDK	INDL		NDK	SDL		SBK
Lane Configurations	^	- ♣	^	•	^	4	00	^	4	40	00	4	•
Traffic Vol, veh/h	0	0	0	2	2	0	60	0	1	12	92	4	0
Future Vol, veh/h	0	0	0	2	2	0	60	0	1	12	92	4	0
Conflicting Peds, #/hr	2	0	2	1	1	0	1	_ 2	0	_ 2	_ 0	_ 0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	2	0	0	0	6	0	0
Mvmt Flow	0	0	0	2	2	0	65	0	1	13	100	4	0
Major/Minor N	Minor2			Minor1			N	Major1		ı	Major2		
Conflicting Flow All	209	222	8	0	216	216	12	6	0	0	16	0	0
Stage 1	206	206	-	0	10	10	-	U	U	U	10	-	U
Stage 2	3	16	_	0	206	206	_	_	_	_	_	_	_
Critical Hdwy	7.1	6.5	6.2	-	7.1	6.5	6.22	4.1	-		4.16	_	_
•	6.1	5.5	0.2		6.1	5.5	0.22	4.1	_	_			_
Critical Hdwy Stg 1				-					-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	-	6.1	5.5	-	-	-	-	- 0.054	-	-
Follow-up Hdwy	3.5	4	3.3	-	3.5	4	3.318	2.2	-	-	2.254	-	-
Pot Cap-1 Maneuver	752	680	1079	0	745	685	1069	1628	-	-	1576	-	-
Stage 1	800	735	-	0	1017	892	-	-	-	-	-	-	-
Stage 2	1025	886	-	0	800	735	-	-	-	-	-	-	-
Platoon blocked, %	050	00.4	4075	-	005	000	4005	4005	-	-	4570	-	-
Mov Cap-1 Maneuver	659	634	1075	0	695	639	1065	1625	-	-	1573	-	-
Mov Cap-2 Maneuver	659	634	-	0	695	639	-	-	-	-	-	-	-
Stage 1	748	687	-	0	1015	890	-	-	-	-	-	-	-
Stage 2	960	884	-	0	748	687	-	-	-	-	-	-	-
Approach	EB			WB				NB			SB		
HCM Control Delay, s/v				8.68				0			7.13		
HCM LOS	A			A									
110111 200	,,			,,									
Minor Lane/Major Mvm	+	NBL	NBT	NDD	EBLn1V	/DI 51	SBL	SBT	SBR				
	l								אמט				
Capacity (veh/h)		1625	-	-		1047	1569	-	-				
HCM Lane V/C Ratio	1.	-	-	-			0.064	-	-				
HCM Control Delay (s/\	/en)	0	-	-	0	8.7	7.4	0	-				
HCM Lane LOS		A	-	-	Α	A	A	Α	-				
HCM 95th %tile Q(veh)		0	-	-	-	0.2	0.2	-	-				

Horizon Year Volume
Synchro 12 Report
H- PM Peak

Intersection						
Int Delay, s/veh	1.8					
Movement	SBL	SBR	NEL	NET	SWT	SWR
Lane Configurations	SDL ₩	אומט	INLL	- NET	\$W1	OVVIX
Traffic Vol, veh/h	34	3	1	91	58	16
Future Vol, veh/h	34	3	1	91	58	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Slop -	None		None		None
	-	NOHE -	-	None	-	None
Storage Length	# 0			_		-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0		-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	37	3	1	99	63	17
Major/Minor M	linor2	N	//ajor1	N	Major2	
Conflicting Flow All	173	72	80	0	-	0
Stage 1	72	-	-	_	-	-
Stage 2	101	_	_	_	_	_
Critical Hdwy	6.4	6.2	4.1	_	_	_
Critical Hdwy Stg 1	5.4	-		_	_	_
Critical Hdwy Stg 2	5.4	_	_	_	_	_
Follow-up Hdwy	3.5	3.3	2.2	_	_	_
Pot Cap-1 Maneuver	822	996	1530	_	_	_
Stage 1	956	-	-	_	_	_
Stage 2	928	_	_	_	_	_
Platoon blocked, %	320	_	-	_	_	-
	001	006	1530			
Mov Cap-1 Maneuver	821	996		-		-
Mov Cap-2 Maneuver	821	-	-	-	-	-
Stage 1	956	-	-	-	-	-
Stage 2	928	-	-	-	-	-
Approach	SB		NE		SW	
HCM Control Delay, s/v	9.54		0.08		0	
HCM LOS	A					
5 5						
Minor Long/Major M.		NITI	NICT	CDI n4	CMT	CM/D
Minor Lane/Major Mvmt		NEL		SBLn1	SWT	SWR
Capacity (veh/h)		20	-	833	-	-
HCM Lane V/C Ratio		0.001		0.048	-	-
HCM Control Delay (s/v	eh)	7.4	0	9.5	-	-
HCM Lane LOS		Α	Α	0.2	-	-
HCM 95th %tile Q(veh)		0	_		_	

Horizon Year Volume
Synchro 12 Report
F- AM Peak

Intersection						
Int Delay, s/veh	1.2					
Movement	SBL	SBR	NEL	NET	SWT	SWR
Lane Configurations	N/	אומט	INLL	NE I	3W1	OWIX
Traffic Vol., veh/h	25	2	2	100	62	39
,	25	2	3		62	39
Future Vol, veh/h				100		
Conflicting Peds, #/hr	O Ctop	O Ctop	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	27	2	3	109	67	42
Major/Minor N	linor2	N	Major1	N	Major2	
		89		0		0
Conflicting Flow All	204		110		-	0
Stage 1	89	-	-	-	-	-
Stage 2	115	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	789	975	1493	-	-	-
Stage 1	940	-	-	-	-	-
Stage 2	915	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	787	975	1493	-	-	-
Mov Cap-2 Maneuver	787	-	-	-	-	-
Stage 1	938	-	-	-	-	-
Stage 2	915	-	-	-	-	-
	-				014	
Approach	SB		NE		SW	
HCM Control Delay, s/v			0.22		0	
HCM LOS	Α					
Minor Lane/Major Mvmt		NEL	NFT:	SBLn1	SWT	SWR
Capacity (veh/h)		52	-	799	-	-
HCM Lane V/C Ratio		0.002		0.037		
HCM Control Delay (s/v	oh)	7.4	0	9.7	-	-
	GII)	7.4	U		-	-
	•	٨	٨	Λ		
HCM Lane LOS HCM 95th %tile Q(veh)		A 0	A -	0.1	-	-

Horizon Year Volume
Synchro 12 Report
H- PM Peak

Intersection						
Int Delay, s/veh	2					
		ED5	14/51	MAIDT	NE	NES
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			4	¥	
Traffic Vol, veh/h	69	2	12	91	3	35
Future Vol, veh/h	69	2	12	91	3	35
Conflicting Peds, #/hr	0	0	0	0	0	0
	ree	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	ŧ 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	75	2	13	99	3	38
N.A. '. (N.A.)			4 : 0		P 4	
	ijor1		Major2		Minor1	
Conflicting Flow All	0	0	77	0	201	76
Stage 1	-	-	-	-	76	-
Stage 2	-	-	-	-	125	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1534	-	792	991
Stage 1	-	-	-	-	952	-
Stage 2	-	-	-	-	906	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	1534	-	785	991
Mov Cap-2 Maneuver	_	-	-	_	785	-
Stage 1	_	-	_	-	952	-
Stage 2	_	_	_	_	897	_
Olugo Z					001	
Approach	EB		WB		NB	
HCM Control Delay, s/v	0		0.86		8.87	
HCM LOS					Α	
Minor Lane/Major Mvmt	ı	NBLn1	EBT	EDD	WBL	WBT
Capacity (veh/h)				EBR		
L SUSCITY (VON/N)		971 0.043	-	-	210	-
		0.04.3	-	-	0.009	-
HCM Lane V/C Ratio	LV				7 4	^
HCM Lane V/C Ratio HCM Control Delay (s/vel	h)	8.9	-	-	7.4	0
HCM Lane V/C Ratio	h)				7.4 A 0	0 A

Horizon Year Volume
Synchro 12 Report
F- AM Peak

Intersection						
Int Delay, s/veh	1.9					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>			4	¥	
Traffic Vol. veh/h	85	4	31	102	2	26
Future Vol, veh/h	85	4	31	102	2	26
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	_	-	_	-
Veh in Median Storage, #	# 0	-	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	92	4	34	111	2	28
WWW.CTION	02	•	01	• • • •	_	20
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	97	0	273	95
Stage 1	-	-	-	-	95	-
Stage 2	-	-	-	-	178	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1509	-	721	968
Stage 1	-	-	-	-	934	-
Stage 2	_	-	_	-	857	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	1509	_	704	968
Mov Cap-2 Maneuver	_	_	-	_	704	-
Stage 1	_	_	_	_	934	_
Stage 2	_	_	_	_	837	<u>-</u>
Olage 2					001	
Approach	EB		WB		NB	
HCM Control Delay, s/v	0		1.73		8.95	
HCM LOS					Α	
Minor Lano/Major Mymt	N	JDI 51	EDT	EDD	\\/DI	\M/DT
Minor Lane/Major Mvmt	ſ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		942	-	-	420	-
HCM Lane V/C Ratio	LV	0.032	-		0.022	-
HCM Control Delay (s/ve	en)	8.9	-	-	7.4	0
HCM Lane LOS		A	-	-	A	Α
HCM 95th %tile Q(veh)		0.1	-	-	0.1	-

Horizon Year Volume
Synchro 12 Report
H- PM Peak

1: Flightway Ave./University Blvd

2035\_Conditions

Flightway Ave.

University Blvd.

Signalized

Flightway Ave. / University Blvd.	EB (F	lightway	Ave.)	NB (U	niversity	Blvd.)	SB (University Blvd.)			
2035_Conditions	L	Т	R	L	Т	R	L	Т	R	
Existing Lane Geometry	1>	0	0	<1	2	0	0	2>	0	
AM Peak Hour										
2035_NO BUILD Volumes	53		37	80	900			500	42	
V/C Ratio	0.26			0.09						
Level-of-Service	С			Α						
Control Delay (Seconds)	17.6		0.0	9.2	0.0			0.0	0.0	
Intersection LOS					TWSC					
95th Percentile Queue (veh)	1.0		0.0	0.3	0.0			0.0	0.0	
2035_BUILD Volumes	76		52	84	911			505	51	
V/C Ratio	0.37			0.10						
Level-of-Service	С			Α						
Control Delay (Seconds)	20.3		0.0	9.2	0.0			0.0	0.0	
Intersection LOS					TWSC					
95th Percentile Queue (veh)	1.7		0.0	0.3	0.0			0.0	0.0	

#### **PM Peak Hour**

2035_NO BUILD Volumes	65	51	42	659		900	78
V/C Ratio	0.43		0.08				
Level-of-Service	D		В				
Control Delay (Seconds)	26.0	0.0	11.7	0.0		0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	2.0	0.0	0.3	0.0		0.0	0.0
2035_BUILD Volumes	82	62	53	667		912	101
V/C Ratio	0.56		0.10				
Level-of-Service	D		В				
Control Delay (Seconds)	33.1	0.0	12.3	0.0		0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	3.2	0.0	0.3	0.0		0.0	0.0

2: Woodward Rd./University Blvd.

2035\_Conditions

Woodward Rd.

**University Blvd.** 

Signalized

Woodward Rd. / University Blvd.	EB (V	Voodwar	d Rd.)	NB (U	niversity	Blvd.)	SB (U	niversity	Blvd.)
2035_Conditions	L	T	R	L	T	R	L	T	R
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0
AM Peak Hour									
2035_NO BUILD Volumes	58		196	112	921			504	34
V/C Ratio	0.55			0.12					
Level-of-Service	С			Α					
Control Delay (Seconds)	20.3		0.0	9.2				0.0	0.0
Intersection LOS					TWSC				
95th Percentile Queue (veh)	3.2		0.0	0.4	0.0			0.0	0.0
2035_BUILD Volumes	69		222	124	925			519	39
V/C Ratio	0.65			0.14					
Level-of-Service	D			Α					
Control Delay (Seconds)	25.3		0.0	9.3				0.0	0.0
Intersection LOS	TWSC							-	
95th Percentile Queue (veh)	4.6		0.0	0.5	0.0			0.0	0.0

PM Peak H	lour
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2035_NO BUILD Volumes	80	172	183	619		882	73
V/C Ratio	0.88		0.33				
Level-of-Service	F		В				
Control Delay (Seconds)	62.7	0.0	13.9			0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	8.1	0.0	1.4	0.0		0.0	0.0
2035_BUILD Volumes	88	191	214	630		898	85
V/C Ratio	1.04		0.42				
Level-of-Service	F		С				
Control Delay (Seconds)	104.2	0.0	16.1			0.0	0.0
Intersection LOS				TWSC			
95th Percentile Queue (veh)	11.5	0.0	2.1	0.0		0.0	0.0

3: Woodward Rd./Transport St.

2035\_Conditions

Woodward Rd.

Transport St.

Signalized

Woodward Rd. / Transport St.	EB (V	Voodwar	d Rd.)	WB (V	Voodwai	rd Rd.)	NB (	Transpo	rt St.)	SB (	Transpor	rt St.)
2035_Conditions	L	Т	R	L	Т	R	L	T	R	L	Т	R
Existing Lane Geometry	0	<1>	0	0	<1>	0	0	<1>	0	0	<1>	0
AM Peak Hour												
2035_NO BUILD Volumes	0	0	0	1	0	55	0	1	13	75	0	0
V/C Ratio	0.00			0.06			0.00			0.05	0.00	
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS		•	•		•	TW	SC		•			
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
2035_BUILD Volumes	0	0	0	1	0	60	0	1	13	79	0	0
V/C Ratio	0.00			0.06						0.05	0.00	
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS		-	•	•	-	TW	SC		-	•		•
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0

PM Peak Hour												
2035_NO BUILD Volumes	0	0	0	4	0	54	0	1	12	87	4	0
V/C Ratio	0.00			0.06			0.00			0.06	0.00	
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS						TW	SC					
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
2035_BUILD Volumes	0	0	0	4	0	60	0	1	12	92	4	0
V/C Ratio	0.00			0.07			0.00			0.06	0.00	
Level-of-Service	Α			Α			Α			Α	Α	
Control Delay (Seconds)	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
Intersection LOS						TW	SC					
95th Percentile Queue (veh)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0

4: DaVita Access & Transport St.

2035\_Conditions

**DaVita Access** 

**Transport St.** 

Signalized

DaVita Access / Transport St.	EB (D	aVita Ac	cess)	NB (	Transpo	rt St.)	SB (Transport St.)			
2035_Conditions	L	Т	R	L	Т	R	L	T	R	
Existing Lane Geometry	1>	0	0	1	2	0	0	2>	0	
AM Peak Hour										
2035_NO BUILD Volumes										
V/C Ratio										
Level-of-Service										
Control Delay (Seconds)										
Intersection LOS					TWSC					
95th Percentile Queue (veh)										
2035_BUILD Volumes										
V/C Ratio										
Level-of-Service										
Control Delay (Seconds)										
Intersection LOS	TWSC							•		
95th Percentile Queue (veh)										

PM Peak Hour				
2035_NO BUILD Volumes				
V/C Ratio				
Level-of-Service				
Control Delay (Seconds)				
Intersection LOS		TWSC		
95th Percentile Queue (veh)				
2035_BUILD Volumes				
V/C Ratio				
Level-of-Service				
Control Delay (Seconds)				
Intersection LOS		<b>TWSC</b>	-	

95th Percentile Queue (veh)

5: Driveway "A" & Woodward Rd.

2035\_Conditions

Woodward Rd.

Driveway "A"

Unsignalized

Woodward Rd. / Driveway "A"	EB (V	EB (Woodward Rd.)			Voodwar	d Rd.)	SB (Driveway "A")			
2035_Conditions	L	Т	R	L	Т	R	L	T	R	
Proposed Lane Geometry	0	<1	0	0	1>	0	1>	0	0	
AM Peak Hour										
2035_NO BUILD Volumes	1	91	0	0	58	16	34	0	3	
V/C Ratio	0.00						0.05			
Level-of-Service	Α	Α					Α			
Control Delay (Seconds)	7.4	0.0			0.0		9.5		0.0	
Intersection LOS	TWSC									
95th Percentile Queue (veh)	0.0	0.0			0.0		0.2		0.0	

#### **PM Peak Hour**

2035_BUILD Volumes	3	100	0	0	62	39	25	0	2
V/C Ratio	0.00						0.04		
Level-of-Service	Α	Α					Α		
Control Delay (Seconds)	7.4	0.0			0.0		9.7		0.0
Intersection LOS					TWS	С			
95th Percentile Queue (veh)	0.0	0.0			0.0		0.1		0.0

6: Flightway Ave. & Driveway "B"

2035\_Conditions

Flightway Ave

Driveway "B"

Unsignalized

Flightway Ave / Driveway "B"	EB (F	EB (Flightway Ave)			Flightway	NB (Driveway "B")			
2035_Conditions	L	Т	R	L	T	R	L	Т	R
Proposed Lane Geometry	0	1>	0	0	<1	0	1>	0	0
AM Peak Hour									
2035_NO BUILD Volumes		69	2	12	91		3		35
V/C Ratio				0.01			0.04		
Level-of-Service				Α	Α		Α		
Control Delay (Seconds)		0.0	0.0	7.4	0.0		8.9		0.0
Intersection LOS	TWSC								
95th Percentile Queue (veh)		0.0	0.0	0.0	0.0		0.1		0.0

#### **PM Peak Hour**

2035_BUILD Volumes	85	4	31	102	2	26
V/C Ratio			0.02		0.03	
Level-of-Service			Α	Α	Α	
Control Delay (Seconds)	0.0	0.0	7.4	0.0	8.9	0.0
Intersection LOS				TWSC		
95th Percentile Queue (veh)	0.0	0.0	0.1	0.0	0.1	0.0

# **Appendix 12**

## **Transport Apartments**

#### **Crash Data from IPRA**

CDACLITYDE			Year			CUDTOTAL	PERCENTAGE
CRASH TYPE	2018	2019	2020	2021	2022	SUBTOTAL	CRASH TYPE
ALCOHOL INVOLVED	0	0	1	0	1	2	3.1%
CURVE	1	1	0	0	1	3	4.6%
DARK-LIGHTING	1	1	2	0	2	6	9.2%
DARK-NOT LIGHTING	0	1	0	0	1	2	3.1%
FATALITY	0	0	0	0	0	0	0.0%
HEAVY TRUCK	1	1	0	0	0	2	3.1%
HILL CREST	1	0	0	0	1	2	3.1%
HIT-AND-RUN	1	3	3	2	2	11	16.9%
INJURY	3	0	2	1	2	8	12.3%
PROPERTY DAMAGE	5	7	4	5	6	27	41.5%
RAINING	1	0	0	0	0	1	1.5%
WORK ZONE	0	0	0	0	1	1	1.5%
SUBTOTAL	14	14	12	8	17	65	100.0%

#### **Transport Apartments**

(Flightway Ave /University Blvd)

Crash Analysis Summary Table

Crash Data from (IPRA) Internal Request

CRASH TYPE	Direction				PERCENTAGE			Year			SUBTOTAL	PERCENTAGE	
CRASH TTPE	E	W	N	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
BACKING UP	1	0	0	0	0	3%	0	0	1	0	2	3	9%
FIXED OBJECT	1	0	1	3	1	18%	0	2	1	2	0	5	16%
LEFT-TURN ANGLE	0	1	0	0	0	3%	1	0	0	0	0	1	3%
PARKED VEHICLE	1	0	1	3	0	15%	2	0	2	0	0	4	13%
RIGHT-TURN-ANGLED	0	0	0	1	0	3%	1	2	0	0	0	3	9%
HEAD-ON COLLISION	1	2	0	1	1	15%	2	0	0	1	0	3	9%
REAR-END	0	0	1	0	0	3%	1	0	0	0	1	2	6%
SIDESWIPE LL	1	0	0	0	0	3%	0	0	1	0	1	2	6%
SIDESWIPE RL	3	0	2	1	0	18%	0	1	1	2	2	6	19%
T-BONE	0	2	0	1	0	9%	0	0	0	0	1	1	3%
OTHER	1	0	0	1	0	6%	1	0	0	1	1	3	9%
UNKNOWN	0	0	0	0	3	9%	0	2	0	0	0	2	6%
SUBTOTAL	8	5	5	11	5	100%	8	7	5	6	6	35	100.00%

#### **Transport Apartments**

(Flightway Ave /University Blvd)

# Crash Data from (IPRA) Internal Request Intersection #1:

CDACH TVDF	CRASH TYPE Direction			PERCENTAGE			Year			SUBTOTAL	PERCENTAGE	
CRASH TTPE	E	N	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
FIXED OBJECT		1	2	1	29%		2	1	1		4	29%
PARKED VEHICLE	1				7%	1					1	7%
RIGHT-TURN-ANGLED			1		7%	1					1	7%
HEAD-ON COLLISION				1	7%				1		1	7%
REAR-END		1			7%					1	1	7%
SIDESWIPE RL		2	1		21%		1		1	1	3	21%
T-BONE			1		7%					1	1	7%
OTHER	1				7%	1					1	7%
UNKNOWN				1	7%		1				1	7%
SUBTOTAL	2	4	5	3	100%	3	4	1	3	3	14	100.00%

#### **Transport Apartments**

(Woodward Rd. /University Blvd)

# Crash Data from (IPRA) Internal Request Intersection #2:

CRACH TVDF	Direction		PERCENTAGE			Year			SUBTOTAL	PERCENTAGE		
CRASH TYPE	E	W	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
BACKING UP	1				11%					1	1	11%
LEFT-TURN ANGLE			3		33%	1		2			3	33%
PARKED VEHICLE	1	1			22%	2					2	22%
SIDESWIPE LL	1				11%			1			1	11%
T-BONE			1		11%					1	1	11%
UNKNOWN				1	11%		1				1	11%
SUBTOTAL	3	1	4	1	100%	3	1	3		1 1	9	100.00%

#### **Transport Apartments**

(Woodward Rd./Transport St.-Sunport)

Crash Data from (IPRA) Internal Request Intersection #1:

CRASH TYPE		Direction			PERCENTAGE			Yea	r		SUBTOTAL	PERCENTAGE	
CRASH TYPE	E	W	N	S	UNK	DIRECTION	2018	2019	2020	2021	2022	SUBTUTAL	CRASH TYPE
FIXED OBJECT	1			1		17%			1		1	2	17%
HEAD-ON COLLISION		1				8%				1		1	8%
LEFT-TURN ANGLE			1			8%	1					1	8%
PARKED VEHICLE		1		1		17%		2				2	17%
RIGHT-TURN-ANGLED	1					8%	1					1	8%
SIDESWIPE LL	2					17%			1		1	2	17%
SIDESWIPE RL		2				17%				1	1	. 2	17%
UNKNOWN					1	. 8%					1	1	8%
SUBTOTAL	4	4	1	2	1	100%	2	2	2	2	4	12	100.00%

CRASH YEAR	MONTH	TIME OF CRASH	HOUR OF CRASH	DAY OF WEEK	LAW ENFORCEMENT AGENCY	COUNTY	CITY	PRIMARY STREET
2018	January	10:37	10 a.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	FLIGHTWAY AVE SE
2018	November	4:55	4 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	SUNPORT PL SE
2018	September	9:50	9 a.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2018	January	15:50	3 p.m.	Tuesday	Station Report	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2018	October	11:04	<b>11</b> a.m.	Wednesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BLVD SE
2018	May	9:53	9 a.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2018	August	9:57	9 a.m.	Thursday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2018	September	7:29	7 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2019	December	0:30	12 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	3003 TRANSPORT ST SE
2019	December	18:42	6 p.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2019	May	9:52	9 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	TRANSPORT SE
2019	February	21:30	9 p.m.	Saturday	Station Report	Bernalillo	Albuquerque	UNIVERSITY BLVD NE
2019	November	14:48	2 p.m.	Wednesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BLVD SE
2019	March	20:30	8 p.m.	Monday	Station Report	Bernalillo	Albuquerque	UNIVERSITY BLVD.
2019	October	15:00	3 p.m.	Wednesday	Station Report	Bernalillo	Albuquerque	UNIVERSITY SE
2020	June	21:30	9 p.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	3003 TRANSPORT ST SE
2020	June	22:39	10 p.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	3003 TRANSPORT ST SE
2020	February	14:33	2 p.m.	Wednesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2020	June	16:08	4 p.m.	Thursday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2020	January	16:40	4 p.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BLVD SE
2020	August	10:47	10 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2021	October	6:00	6 a.m.	Thursday	Station Report	Bernalillo	Albuquerque	3041 UNIVERSITY BLVD SE
2021	March	9:13	9 a.m.	Tuesday	Albuquerque Police Department	Bernalillo	Albuquerque	SUNPORT BLVD SE
2021	August	9:22	9 a.m.	Monday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BL SE
2021	February	13:00	1 p.m.	Monday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BLVD SE
2021	November	15:37	3 p.m.	Monday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BLVD SE
2021	January	9:24	9 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2022	July	6:34	6 a.m.	Friday	Albuquerque Police Department	Bernalillo	Albuquerque	3003 TRANSPORT ST SE
2022	January	23:04	11 p.m.	Saturday	Albuquerque Police Department	Bernalillo	Albuquerque	3003 TRANSPORT ST SE
2022	July	20:17	8 p.m.	Saturday	Albuquerque Police Department	Bernalillo	Albuquerque	FLIGHTWAY AVE SE
2022	July	10:14	10 a.m.	Thursday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERISTY BLVD SE
2022	August	8:44	8 a.m.	Thursday	Albuquerque Police Department	Bernalillo	Albuquerque	UNIVERSITY BL SE
2022	April	20:13	8 p.m.	Thursday	Albuquerque Police Department	Bernalillo	Albuquerque	WOODWARD RD SE
2022	October	14:30	2 p.m.	Saturday	Station Report	Bernalillo	Albuquerque	WOODWARD RD SE
2022	April	Invalid Code	Invalid Code	Thursday	Bernalillo County Sheriffs Department	Bernalillo	Albuquerque	WOODWARD RD.

SECONDARY STREET	LANDMARK/LOCATION	GIS-DERIVED ROUTE NAME	GIS-DERIVED MILEPOST	CRASH DIRECTION	DIRECTION FROM INTERSECTION OR LANDMARK	DISTANCE FROM LANDMARK	DISTANCE FROM LANDMARK MEASUREMENT UNIT
UNIVERISTY BLVD SE				E			
WOODWARD RD SE				N			
WOODWARD RD SE	UNIVERSITY BLVD SE/WOODWARD RD SE			S	S		
FLIGHTWAY AVE SE				E			
FLIGHTWAY AVE SE				S			
SUNPORT PL SE				Е			
UNIVERSITY BLVD SE				W			
UNIVERSITY BLVD SE				Е			
				W			
FLIGHTWAY AVE SE				S			
	WOODWARD			S	S	100	FT
FLIGHTWAY AVE SE				N			
FLIGHTWAY AVE SE				N			
FLIGHTWAY AVE SE				_			
WOODWARD SE				E			
3003 TRANSPORT ST SE				E			
WOODWARD RD SE				E			
WOODWARD RD SE WOODWARD RD SE	WOODWARD RD SE			S S			
FLIGHTWAY AVE SE	WOODWARD RD SE			S N			
1300 WOODWARD RD SE				IN E			
FLIGHTWAY AVE SE							
WOODWARD RD SE				W	W	90	FT
FLIGHTWAY AVE SE	FLIGHTWAY AVE SE			S	N	25	FT
FLIGHTWAY AVE SE	TEIOTHWAT AVE OF			S	14	25	1.1
WOODWARD RD SE				S			
SUNPORT BLVD SE				W			
N/A				S			
				F			
WOODWARD RD SE				N	N		
FLIGHTWAY AVE SE				N			
FLIGHTWAY AV SE				S	S		
SUNPORT LP SE				W	W		
TRANSPORT							
UNIVERSITY BLVD				Е	Е		

CRASH SEVERITY	NUMBER OF PEOPLE KILLED IN CRASH	NUMBER OF PEOPLE WITH SUSPECTED SERIOUS INJURIES (CLASS A) IN CRASH	NUMBER OF PEOPLE WITH SUSPECTED MINOR INJURIES (CLASS B) IN CRASH	NUMBER OF PEOPLE WITH POSSIBLE INJURIES (CLASS C) IN CRASH	NUMBER OF PEOPLE INJURED (CLASS A+B+C) IN CRASH	NUMBER OF PEOPLE NOT INJURED (CLASS O) IN CRASH	TOTAL NUMBER OF PEOPLE IN CRASH
Property Damage Only Crash	0	0	0	0	0	2	2
Injury Crash	0	0	0	2	2	1	3
Injury Crash	0	0	1	1	2	2	4
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	1	1
Property Damage Only Crash	0	0	0	0	0	3	3
Injury Crash	0	0	0	1	1	3	4
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	1	1
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	1	1
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	3	3
Injury Crash	0	0	0	1	1	1	2
Property Damage Only Crash	0	0	0	0	0	1	1
Injury Crash	0	0	0	1	1	1	2
Property Damage Only Crash	0	0	0	0	0	3	3
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	2	2
Property Damage Only Crash	0	0	0	0	0	1	1
Property Damage Only Crash	0	0	0	0	0	2	2
Injury Crash	0	0	2	0	2	2	4
Property Damage Only Crash	0	0	0	0	0	1	1
Property Damage Only Crash	0	0	0	0	0	3	3
Property Damage Only Crash	0	0	0	1	1	2	2
Injury Crash	0	0	0		1	1	2
Injury Crash Property Damage Only Crash	0	0	2	0	2	0	2
	0	0	0	0	0		
Property Damage Only Crash	0	0	0	0	0	4	2
Property Damage Only Crash	0	0	0	0	0	2	2

NUMBER OF VEHICLES, BICYCLES, AND PEDESTRIANS INVOLVED	NUMBER OF PEOPLE IN MOTOR VEHICLES	NUMBER OF PEOPLE NOT IN MOTOR VEHICLES	NUMBER OF MOTOR VEHICLES INVOLVED	FIRST HARMFUL EVENT OCCURRED	CRASH CLASSIFICATION
2	2	0	2	On Roadway	Other Vehicle
3	1	2	3	On Roadway	Other Vehicle
3	4	0	3	On Roadway	Other Vehicle
2	2	0	2	On Roadway	Other (Object)
2	2	0	2	On Roadway	Other Vehicle
1	1	0	1	On Roadway	Other Vehicle
3	1	2	3	On Roadway	Parked Vehicle
3	2	2	3	On Roadway	Other Vehicle
2	1	1	2	Off Roadway	Other Vehicle
1	1	0	1	On Roadway	Fixed Object
2	1	1	2	On Roadway	Parked Vehicle
1	2	0	1	On Roadway	Fixed Object
2	2	0	2	On Roadway	Other Vehicle
2	2	0	2	Left Blank	Left Blank
2	2	0	2	Left Blank	Other Vehicle
1	1	0	1	On Roadway	Fixed Object
2	2	0	2	Off Roadway	Other Vehicle
2	3	0	2	On Roadway	Other Vehicle
2	2	0	2	On Roadway	Other Vehicle
1	1	0	1	On Roadway	Fixed Object
2	2	0	2	On Roadway	Left Blank
3	3	0	3	On Roadway	Other Vehicle
2	1	1	2	On Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
1	1	0	1	On Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
4	3	1	4	On Roadway	Left Blank
1	1	0	1	On Roadway	Left Blank
3	1	2	3	Off Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
2	2	0	2	On Roadway	Left Blank
2	4	0	2	On Roadway	Vehicle on Other Road
2	2	0	2	On Roadway	Other Vehicle

CRASH ANALYSIS	FIRST HARMFUL EVENT	FIRST HARMFUL EVENT - ANALYSIS
Other Vehicle - Both Turn Right/Entering At Angle	Collision with Motor Vehicle	MV in Transport
Other Vehicle - One Stopped/Entering At Angle	Collision with Motor Vehicle	MV in Transport
Other Vehicle - One Left Turn/Entering At Angle	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Other Non-Fixed Object	Not Available
Other Vehicle - From Opposite Direction/Both Going Straight	Collision with Motor Vehicle	MV in Transport
Other Vehicle - One Right Turn/Entering At Angle	Collision with Motor Vehicle	MV in Transport
Vehicle Parked in Proper Location	Collision with Motor Vehicle	Parked MV
Other Vehicle - One Vehicle/Enter Parked Position	Collision with Motor Vehicle	MV in Transport
Other Vehicle - One Vehicle/Enter Parked Position	Collision with Motor Vehicle	MV in Transport
Fixed Object - Unknown/Not Stated	Collision with Fixed Object	Unknown
Vehicle Parked in Proper Location	Collision with Motor Vehicle	Parked MV
Left Blank	Collision with Fixed Object	Not Available
Other Vehicle - From Same Direction/Sideswipe Collision	Collision with Motor Vehicle	MV in Transport
Left Blank	Not Available	Not Available
Left Blank	Collision with Motor Vehicle	Not Available
Fixed Object - Fence (Wood, Brick, Stone)	Collision with Fixed Object	Fence
Other Vehicle - From Opposite Direction	Collision with Motor Vehicle	MV in Transport
Other Vehicle - One Left Turn/Entering At Angle	Collision with Motor Vehicle	MV in Transport
Other Vehicle - From Opposite Direction/One Left Turn	Collision with Motor Vehicle	MV in Transport
Fixed Object - Unknown/Not Stated	Collision with Fixed Object	Unknown
Left Blank	Collision with Motor Vehicle	MV in Transport
Other Vehicle - From Opposite Direction	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	Parked MV
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Other Non-Fixed Object	Other Non-fixed Object
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Fixed Object	Tree (standing)
Left Blank	Collision with Motor Vehicle	Parked MV
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	MV in Transport
Left Blank	Collision with Motor Vehicle	Left Blank
Other Vehicle - From Same Direction/Vehicle Backing	Collision with Motor Vehicle	MV in Transport

FIRST HARMFUL EVENT – LOCATION	FIRST HARMFUL EVENT – MANNER OF IMPACT	FIRST HARMFUL EVENT – MANNER OF CRASH	WEATHER	ADDITIONAL WEATHER	LIGHTING	HIT AND RUN CRASH	ALCOHOL INVOLVEMENT	DRUG INVOLVEMENT
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Dark-Lighted	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Raining	Not Available	Daylight	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	Yes	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Dawn	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Dark-Not Lighted	Yes	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Dark-Lighted	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Other	Yes	Not Involved	Not Involved
Not Available	Not Available	Not Available	Left Blank	Not Available	Left Blank	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	Yes	Not Involved	Not Involved
Not Available	Not Available	Not Available	Left Blank	Not Available	Left Blank	No	Not Involved	Not Involved
Not Available	Not Available	Not Available	Clear	Not Available	Daylight	No	Not Involved	Not Involved
Off Roadway - Location Unknown	Left Blank	Left Blank	Clear	Left Blank	Dark-Lighted	Yes	Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Dark-Lighted	Yes	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Front-to-Side	From Opposite Direction	Left Blank	Left Blank	Daylight	Yes	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Yes	Not Involved	Not Involved
On Shoulder	Sideswipe	From Same Direction	Clear	Left Blank	Daylight	Yes	Not Involved	Not Involved
On Roadway	Front-to-Side	From Same Direction	Cloudy	Left Blank	Daylight	No	Not Involved	Not Involved
On Median	Left Blank	Left Blank	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Front-to-Side	Intersecting Path (T-bone)	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Front-to-Front	From Opposite Direction	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Left Blank	Left Blank	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
Outside Trafficway	Front-to-Side	From Opposite Direction	Clear	Left Blank	Dark-Lighted	No	Involved	Not Involved
On Roadway	Front-to-Side	From Same Direction	Clear	Left Blank	Dark-Lighted	No	Not Involved	Not Involved
On Roadway	Front-to-Rear	From Same Direction	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Front-to-Side	Intersecting Path (T-bone)	Clear	Left Blank	Daylight	No	Not Involved	Not Involved
On Roadway	Sideswipe	From Same Direction	Clear	Left Blank	Dark-Not Lighted	No	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Daylight	Yes	Not Involved	Not Involved
Left Blank	Left Blank	Left Blank	Clear	Left Blank	Daylight	Yes	Not Involved	Not Involved

PEDESTRIAN INVOLVEMENT	MOTORCYCLE INVOLVEMENT	PEDALCYCLE INVOLVEMENT	HEAVY TRUCK INVOLVEMENT	COMMERICAL MOTOR VEHICLE INVOLVEMENT	SCHOOL BUS DIRECT INVOLVEMENT	HAZARDOUS MATERIAL INVOLVEMENT	INVOLVEMENT OF NON-LOCAL DRIVER	STATE HIGHWAY DEPT. PROPERTY
Not Involved	Not Involved	Not Involved	Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Both Local and Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Available	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Available	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Involved	Not Involved	Not Involved	Not Involved	Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Both Local and Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	All Othe
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Available	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Available	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Both Local and Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Both Local and Out Of State	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	
Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Not Involved	Local Drivers	

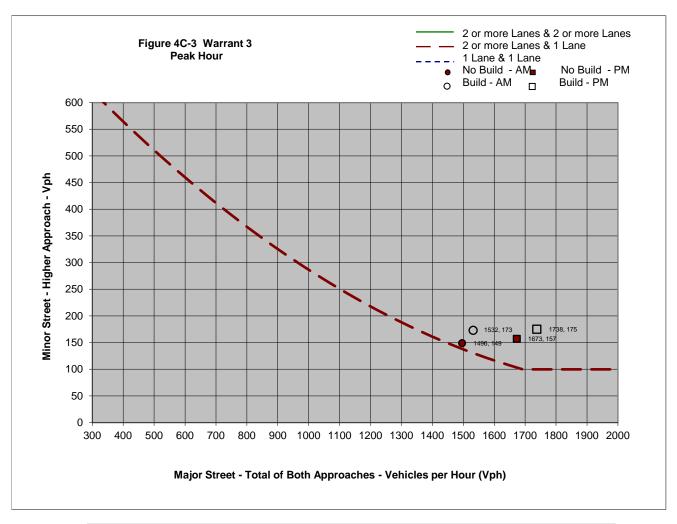
ROAD SYSTEM: URBAN, RURAL OR RURAL INTERSTATE	MAXIMUM VEHICLE DAMAGE	WORK ZONE	WORK ZONE - TYPE	WORK ZONE – LOCATION	ROAD CHARACTER	ROAD GRADE	INTERSECTION TYPE	RELATION TO JUNCTION	SECONDARY CRASH	TRIBAL JURISDICTION
Urban	Not Available	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Curve	On Grade	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Functional	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Functional	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Straight	Hillcrest	Not Available	Not Available	Not Available	No
Urban	Appearance	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Curve	Level	Not Available	Not Available	Not Available	No
Urban	Appearance	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Functional	Not Available	Not Available	Not Available	Left Blank	Left Blank	Not Available	Not Available	Not Available	No
Urban	Disabling	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Not Available	Not Available	Not Available	Not Available	Left Blank	Left Blank	Not Available	Not Available	Not Available	No
Urban	Functional	Not Available	Not Available	Not Available	Straight	Level	Not Available	Not Available	Not Available	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Straight	Level	Left Blank	Left Blank	No	No
Urban	Appearance	Left Blank	Left Blank	Left Blank	Straight	Level	Left Blank	Left Blank	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Straight	Level	Left Blank	Left Blank	No	No
Urban	Appearance	Left Blank	Left Blank	Left Blank	Straight	Level	Left Blank	Left Blank	No	No
Urban	Not Available	Left Blank	Left Blank	Left Blank	Straight	On Grade	Left Blank	Left Blank	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Through Roadway	No	No
Rural Non-Interstate	Appearance	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Non-Junction	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	T-Intersection	Intersection	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	T-Intersection	Intersection	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Four-Way	Intersection	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Through Roadway	Yes	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Non-Junction	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Non-Junction	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Non-Junction	No	No
Urban	Not Available	rk Zone – Construction	Lane Closure	Activity Area	Left Blank	Left Blank	Four-Way	Intersection	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Four-Way	Intersection	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Left Blank	Left Blank	Not an Intersection	Non-Junction	No	No
Urban	Disabling	Left Blank	Left Blank	Left Blank	Curve	Hillcrest	Left Blank	Left Blank	No	No
Urban	Functional	Left Blank	Left Blank	Left Blank	Straight	Level	Left Blank	Left Blank	No	No

GIS-DERIVED RESERVATION	GIS-DERIVED STATE HIGHWAY TRANSPORTATION DISTRICT	GIS-DERIVED STATE POLICE DISTRICT	GIS-DERIVED STATE HIGHWAY MAINTENANCE DISTRICT	GIS-DERIVED UTM X COORDINATE	GIS-DERIVED UTM Y COORDINATE	GIS-DERIVED LATITUDE COORDINATE	GIS-DERIVED LONGITUDE COORDINATE	ORIGINAL LATITUDE	ORIGINAL LONGITUDE	ORIGINAL UCR NUMBER
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	350984.0206	3879758.939	35.049555	-106.633932			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	350984.0206	3879758.939	35.049555	-106.633932			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	350868.508	3879870.144	35.05054	-106.635218			
	3	5	3	351272.7639	3879948.507	35.051306	-106.630801			
	3	5	3	350867.3925	3879713.068	35.049124	-106.635202			
	3	5	3	351272.7639	3879948.507	35.051306	-106.630801			
	3	5	3	351272.7639	3879948.507	35.051306	-106.630801			
	3	5	3	351275.2194	3879814.116	35.050095	-106.63075			
	3	5	3	351267.6146	3879812.132	35.050076	-106.630833			
	3	5	3	350868.5282	3879870.155	35.05054	-106.635218			
	3	5	3	350868.5282	3879870.155	35.05054	-106.635218			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	350867.3928	3879713.115	35.049124	-106.635202			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	350984.0206	3879758.939	35.049555	-106.633932			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801	35.051377	-106.63086	
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			
	3	5	3	350984.0206	3879758.939	35.049555	-106.633932			
	3	5	3	350868.5283	3879870.156	35.05054	-106.635218			
	3	5	3	350868.1498	3879817.809	35.050068	-106.635213			
	3	5	3	350868.5282	3879909.016	35.05089	-106.635225			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	351272.7631	3879948.497	35.051306	-106.630801			
	3	5	3	351163.1597	3879812.623	35.050065	-106.631978			
	3	5	3	350867.3928	3879713.115	35.049124	-106.635202			
	3	5	3	351267.6287	3879812.08	35.050076	-106.630833			

CASE NUMBER	STATION REPORT	TRACS DATA
710454620	Left Blank	Yes
710444688	Left Blank	Yes
710549496	Left Blank	Yes
180010437	Yes	No
710550759	Left Blank	Yes
710542753	Left Blank	Yes
710541719	Left Blank	Yes
710549548	Left Blank	Yes
710579988	Left Blank	Yes
710577593	Left Blank	Yes
710552833	Left Blank	Yes
190018454	Yes	No
710577544	Left Blank	Yes
190021513	Yes	No
190099945	Yes	No
710573680	Left Blank	Yes
710759923	Left Blank	Yes
710583972	Left Blank	Yes
710564860	Left Blank	Yes
710581898	Left Blank	Yes
200062701	Left Blank	Yes
AP210086298	Yes	No
210018353	Left Blank	Yes
210060487	Left Blank	Yes
210014229	Left Blank	Yes
210087143	Left Blank	Yes
AP210007647	Left Blank	Yes
220053955	Left Blank	Yes
220003939	Left Blank	Yes
220056393	Left Blank	Yes
220051731	Left Blank	Yes
220065677	Left Blank	Yes
220028313	Left Blank	Yes
220088077	Yes	No
SO22040005413	No	No

# Appendix 13

Project Name		Analysis Year Traffic Volumes								
Opus Transport Apartments	AM	Major	Minor	PM	Major	Minor				
Intersection	No Build	1496	149	No Build	1673	157				
Woodward Rd. at University Blvd.										
Analysis Year										
2025										
•	Build	1532	173	Build	1738	175				
Number of Lanes										
Major St. 2										
Minor St. 1										



C	comments -			

