

To: Ryan Tobias Date: June 18, 2021

**Jackson Dearborn Partners** 

From: Jamie Blakeman, PE, PTOE

**Job Number:** 20.5119

**RE:** The Artisan Scottsdale

Traffic Impact and Mitigation Analysis - Category I



#### INTRODUCTION

Lōkahi, LLC (Lōkahi) has prepared a Traffic Impact and Mitigation Analysis for The Artisan Scottsdale development. The proposed development is located on the southwest corner (SWC) of Indian School Road and Marshall Way in Scottsdale, Arizona. See **Figure 1** for the vicinity map.

The proposed site will be comprised of 83 multi-family units, 2,500 square feet of office space, and 2,500 square



Figure 1 - Vicinity Map

feet of retail space. Of the 83 multi-family units there are 16 studio units, 51 one-bedroom units, and 16 two-bedroom units.

See Attachment A and Figure 2 for the site plan.

The objective of this Traffic Impact Mitigation and Analysis is to analyze the proposed development's traffic related impacts to the adjacent roadway network.





#### **EXISTING CONDITIONS**

The approximate 0.81-acre site is currently vacant commercial land and comprised of six (6) parcels. This site is currently zoned as Central Business (C-2). This zoning is intended to accommodate recurring shopping and service needs for multiple neighborhoods. See **Attachment B** for Maricopa County Assessor's parcel information.

The proposed site is bordered by Indian School Road to the north, 1<sup>st</sup> Avenue to the south, and Marshall Way to the east. Located directly west of the proposed site are several commercial developments to include an insurance broker, interior designer, advertising agency, two cafés and a bar.

Indian School Road runs east-west along the northern border of the proposed development. Within the vicinity of the site, Indian School Road provides two (2) through lanes in each direction of travel with a raised landscaped center median. West of Goldwater Boulevard, Indian School Road provides three (3) in each direction of travel. There is a posted speed limit of 35 mph. The City of Scottsdale classifies Indian School Road as a minor arterial east of Goldwater Boulevard according to *The Scottsdale Master Transportation Plan*, dated July 2016. Additionally, west of Goldwater Boulevard, Indian School Road is classified as a major arterial. The City of Scottsdale's 2018 Average Daily Segment Traffic Volumes map reports an ADT of 25,500 vehicles per day along Indian School Road, between 68<sup>th</sup> Street and Goldwater Boulevard, and 19,600 vehicles per day, between Goldwater Boulevard and Scottsdale Road.

Marshall Way runs north-south along the eastern border of the proposed development and provides one (1) through lane in each direction of travel. There is an unposted speed limit of 25 mph.

1st Avenue runs east-west along the southern border of the proposed development and provides one (1) through lane for each direction of travel. There is an unposted speed limit of 25 mph. On-street parking is provided on both sides of the roadway.

Goldwater Boulevard runs north-south and in the vicinity of the site provides two (2) through lanes for northbound travel and three (3) through lanes for southbound direction of travel with a two-way-left-turn-lane (TWLTL) and intermittent landscaped median. There is a posted speed limit of 35 miles per hour (mph). The City of Scottsdale classifies Goldwater Boulevard as a couplet, according to The Scottsdale Master Transportation Plan, dated July 2016. The City of Scottsdale's 2018 Average Daily Segment Traffic (ADT) Volumes map reports an ADT of 17,700 vehicles per day along Goldwater Boulevard, between Camelback Road and Indian School Road and 11,800 vehicles per day between Indian School Road and Osborn Road.





#### **COLLISION HISTORY**

The City of Scottsdale's 2018 Traffic Volume and Collision Rate Data report provides collision rate and traffic volume information on major roadway segments and at major intersections within the City. Segment collisions are collisions that occur on a major street more than 100 feet from the segment's termini intersections, including those that occur at minor intersections within the segment. Intersection collisions are collisions that occur at or within 100 feet of the intersection.

The collision rates and city-wide rankings for the study roadway segments and intersections are shown in **Table 1** and **Table 2**, respectively.

Table 1 - Collision Rates - Study Roadway Segment

Segment	From	То	Collision Rate	Rank			
Indian School Road	Goldwater Boulevard	Scottsdale Road	5.03	13			
Goldwater Boulevard	Scottsdale Road	Indian School Road	5.43	9			
2018 City o	2018 City of Scottsdale Average Segment Collision Rate						

Table 2 – Collision Rates - Study Intersections

Intersection	Collision Rate	Rank
Scottsdale Road and Indian School Road	1.48	3
Goldwater Boulevard and Indian School Road	0.81	50
2018 Average Intersection Collision Rate	0.58	





# PROPOSED DEVELOPMENT

The proposed development will be comprised of two (2) buildings to include 83 multi-family units, 2,500 square feet of office space, and 2,500 square feet of retail space. Of the 83 multi-family units there are 16 studio units, 51 one-bedroom units, and 16 two-bedroom units.

The primary access is located along Marshall Way

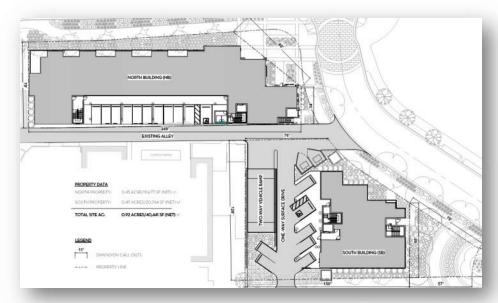


Figure 2 - Site Plan

approximately 120 feet south of Indian School Road. This driveway will be a full access, allowing all movements into and out of the proposed parking garage.

There will be in ingress and egress access located along Goldwater Boulevard, via the alley approximately 120 feet south of Indian School Road. Additionally, there will be a one-way access driveway located along 1st Avenue, approximately 230 feet west of Marshall Way.

#### **EXISTING TRAFFIC COUNTS**

A local data collection firm, Field Data Services of Arizona, Inc., was utilized to collect traffic counts. On Thursday, October 15, 2020, four (4) hours of typical weekday turning movements were counted during the AM (7:00 to 9:00 am) and PM (4:00 to 6:00 pm) at the following intersection:

• Goldwater Boulevard and 1st Avenue (1)

Additionally, traffic count data was obtained from the Southbridge Expansion Traffic Impact and Mitigation Analysis, dated May 2019. Field Data Services of Arizona, Inc. was utilized to collect traffic counts on Wednesday, August 1, 2018. Four (4) hours of typical weekday turning movement counts were counted during the AM (7:00 to 9:00 am) and PM (4:00 to 6:00 pm) at the following intersection:

Indian School Road and Marshall Way (2)





The following peak hours identified in the Southbridge Expansion Traffic Impact and Mitigation Analysis were analyzed throughout this report.

AM Peak Hour 7:30 am – 8:30 am PM Peak Hour 4:30 pm – 5:30 pm

Bi-directional tube counts were collected on Thursday, October 15, 2020, for 24-hours in 15-minute intervals along the following four (4) roadway segments:

- Indian School Road, west of Marshall Way
- Marshall Way, south of Indian School Road
- 1<sup>st</sup> Avenue, west of Marshall Way
- Goldwater Boulevard, south of Indian School Road

The traffic counts collected on Thursday, October 15, 2020, were adjusted, by a factor of 1.20 to reflect the recent decrease in traffic volumes due to COVID-19 conditions. This factor was calculated based on a comparison of the October 2020 counts to 2018 traffic counts obtained from the City of Scottsdale's Daily Traffic Volumes. See **Table 3**.

Table 3 - Daily Traffic Volume Comparison

	2018	2020	% Change
Indian School	19,600	19,966	2%
<b>Goldwater Boulevard</b>	11,800	9,777	-17%
	-8%		
A	20%		

An annual growth rate was applied through year 2021 to the 2018 and 2020 traffic counts. See **Attachment C** for detailed traffic count data. See **Figure 3** for the existing AM and PM peak hour traffic volumes.





#### EXISTING CAPACITY ANALYSIS

The existing conditions capacity analysis was completed for the two (2) existing study intersections. The capacity and level of service for the study area intersections were evaluated using the methodology presented in the 6<sup>th</sup> Edition of the Highway Capacity Manual. Traffic analysis software, Synchro Version 10.3, was used to perform the analyses using the existing Peak Hour Factor (PHF) obtained from the 2020 traffic counts Traffic count data obtained from the Southbridge Expansion Traffic Impact and Mitigation Analysis does not provide the existing PHF, therefore an assumed PHF of 0.92 was utilized for the 2018 traffic counts.

**Table 4** is from the 6<sup>th</sup> Edition of the Highway Capacity Manual Exhibit 19-8 and 20-2, which lists the Level of Service (LOS) thresholds for signalized and unsignalized intersections.

Level of Service (LOS)	Control Delay per Vehicle (s/veh)					
Level of Service (LOS)	Signalized Intersection	Unsignalized Intersection				
А	≤ 10	0 - 10				
В	> 10-20	> 10-15				
C	> 20-35	> 15-25				
D	> 35-55	> 25-35				
E	> 55-80	> 35-50				
F	> 80	> 50				

Table 4 - Level of Service Criteria

The results of the existing capacity analysis reveal that all locations operate with an existing level of service (LOS) D or better.

See **Figure 3** for the existing AM and PM peak hour capacity analysis. The detailed capacity analysis sheets can be found in **Attachment D**.





#### TRIP GENERATION

The trip generation was calculated utilizing the Institute of Transportation Engineers (ITE) publication entitled *Trip Generation*, 10<sup>th</sup> Edition. Land Use 826 – Specialty Retail Center has been removed from the most recent ITE publication. Hence, *Trip Generation*, 9<sup>th</sup> Edition of the ITE Publication was utilized for Land Use 826 – Specialty Retail Center. The ITE trip generation rates and fitted curve equations are based on studies that measure trip generation characteristics for various types of land uses. The rates are expressed in terms of trips per unit of land use type. This publication is the standard for the transportation engineering profession.

#### POTENTIAL DEVELOPMENT UNDER EXISTING ZONING

The existing site is currently zoned for Central Business (C-2) land uses. C-2 zoning is intended to permit uses for recurring shopping and service needs for multiple neighborhoods. A total lot area of 35,339 SF (0.81-acres), and a maximum floor-to-area (FAR) of 0.80, allows for 28,271 SF of developable area. A 28,271 SF retail center was assumed for potential buildout.

Utilizing ITE Land Use 826 – Specialty Retail Center, the trip generation for the potential development under existing zoning was calculated as shown in **Table 5** below. Detailed trip generation calculations are provided in **Attachment E.** 

Table 5 - Trip Generation (Existing Zoning)

Land Use	ITE Code	Qty	Unit	Weekday	A	M Peak Hou	ır	PM Peak Hour		
	IIL Code	Ÿ	o iii	Total	Total	ln	Out	Total	Total In Ou	
Specialty Retail Center	826	28.27	1000 Sq. Ft. GLA	1,248	27	17	10	90	40	50
			Total	1,248	27	17	10	90	40	50

#### PROPOSED DEVELOPMENT

The Artisan Scottsdale development will include the following land uses:

• Multi-Family Residential 83 units

16 studio units

51 one-bedroom units 16 two-bedroom units

Office 2,500 square feet

• Retail 2,500 square feet

The trip generation for The Artisan Scottsdale development was calculated utilizing ITE Land Use 221 – Multifamily Housing (Mid-Rise), ITE Land Use 826 – Specialty Retail Center, and ITE Land Use 712 – Small Office Building. Trip generation calculations are shown in **Table 6.** See **Attachment E** for detailed trip generation calculations.





Table 6 - Trip Generation (Proposed Development)

Land Use	ITE Code	Qty	Unit	Weekday	y AM Peak Hour			PM Peak Hour		
Lailu Ose	ITE Code	γ	Offic	Total	Total	ln	Out	Total	ln	Out
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	452	30	8	22	37	23	14
Specialty Retail Center	826	2.5	1000 SF GFA	145	2	1	1	28	12	16
Small Office Building	712	2.5	1000 SF GFA	40	5	4	1	6	3	3
			Total	637	37	13	24	71	38	33

The proposed development is anticipated to generate 637 weekday trips with 37 trips occurring during the AM peak hour and 71 trips during the PM peak hour.

#### EXISTING ZONING VS. PROPOSED DEVELOPMENT

A comparison between the trips generated with the buildout under the existing zoning for o.8 FAR Specialty Retail Center and The Artisan Scottsdale development is shown in **Table 7**.

Table 7 - Trip Generation Comparison
(Existing Zoning – 0.8 FAR Retail vs Proposed Development)

Land Use	ITE Code	ITE Code Qty Unit		Weekday	AM Peak Hour			PM Peak Hour		
Land OSE	TTE Code	Yış	Offic	Total	Total	ln	Out	Total	ln	Out
Specialty Retail Center	826	28.27	1000 Sq. Ft. GLA	1,248	27	17	10	90	40	50
			Total	1,248	27	17	10	90	40	50
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	452	30	8	22	37	23	14
Specialty Retail Center	826	2.5	1000 SF GFA	145	2	1	1	28	12	16
Small Office Building	712	2.5	1000 SF GFA	40	5	4	1	6	3	3
		Prop	osed - Total	637	37	13	24	71	38	33
			Difference	-611	10	-4	14	-19	-2	-17
		%	Difference	-49%	37%	-24%	140%	-21%	-5%	-34%

The buildout of The Artisan Scottsdale development is anticipated to generate 611 (49%) fewer weekday trips, with 10 (37%) additional trips during the AM peak hour, and 19 (21%) fewer trips during the PM peak hour than the build-out of under existing zoning.

#### TRIP DISTRIBUTION AND ASSIGNMENT

The trip distribution and trip assignment procedure determine the general pattern of travel for vehicles entering and leaving the proposed development. The trip distribution and assignment were generally based on proximity of each of the site driveways to the major roadway network routes, permitted turn movements, as well as ease and probability of use. The trip distribution is shown in **Figure 3**.





The trip assignment was generally based on proximity of the driveway, permitted turn movements, as well as ease and probability of use. The site generated traffic volumes for the proposed development are shown in **Figure 3**.

#### FUTURE CONDITION - YEAR 2023

The proposed Artisan Scottsdale is anticipated to be open in the year 2023. This section analyzes the effects the proposed development will have on the surrounding roadway network during the year of 2023.

#### YEAR 2023 BACKGROUND TRAFFIC VOLUMES

According to the 2019 Maricopa Associations of Governments (MAG) socioeconomic projections within the proposed study area, it is estimated that in the year 2030 the population will be approximately 79,910. MAG estimates that the 2018 population of the surrounding area to be 68,987. This results in an approximate annual growth rate of 1.23%.

As a conservative approach, a 2.0% annual growth rate was utilized. See **Attachment F** for the MAG socioeconomic projections. The 2.0% annual growth rate is applied to all existing traffic volumes through the year 2025.

Additionally, the following future development was factored into the year 2023 background traffic volumes:.

#### The Kimsey

The Kimsey is a proposed development that is located on the north side of Indian School Road, approximately 200 feet east of Marshall Way and The Artisan Scottsdale development. A Traffic Impact and Mitigation Analysis was completed for the development, dated March 8, 2021. The Kimsey development is comprised of 190 multifamily housing units, a 168-room hotel, and 4,000 square feet of restaurant space. Per the approved traffic analysis, the development generates a total of 2,888 weekday trips, with 183 AM peak hour trips and 222 PM peak hour trips and is assumed to be fully occupied during the year of 2024. At the request of City staff, the site traffic volumes attributed to The Kimsey development were included in the year 2023 background traffic volumes.

The development will have a total of five (5) access points. Three (3) will be located along Indian School Road and two (2) will be located along 3<sup>rd</sup> Avenue. Using the site traffic volumes shown in Figure 7 of The Kimsey report, the site traffic volumes for the development were included for the study intersections and are shown in **Figure 3**. See **Attachment G** for relevant portions of The Kimsey Traffic Impact and Mitigation Analysis.





#### YEAR 2023 BUILD TRAFFIC VOLUMES

When the year 2023 site traffic is added to the year 2023 background traffic, the result is the 2023 <u>build</u> traffic volumes. This represents the traffic volumes <u>with</u> the build out of the proposed development. The year 2023 <u>build</u> traffic volumes are shown in **Figure 3**.

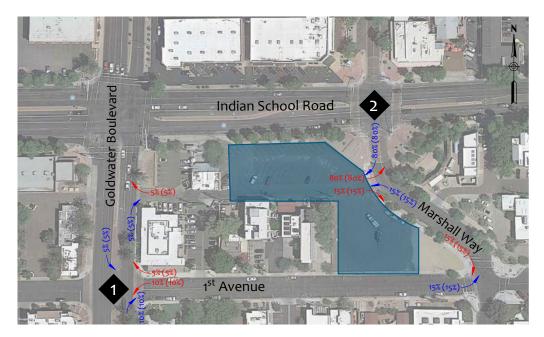
#### YEAR 2023 BUILD CAPACITY ANALYSIS

The capacity and level of service for the intersection of Goldwater Boulevard and 1<sup>st</sup> Avenue (1) and Indian School Road and Marshall Way (2) were evaluated for the year 2023 <u>build</u> traffic volumes. See **Figure 3**. The detailed capacity analysis sheets can be found in **Attachment H.** The PHF was assumed to be 0.92 for all study intersections.

The traffic signal phases for the intersection of Indian School and Marshall Way (2) as it exists today, continues to operate with acceptable levels of service in year 2023 (with The Kimsey site volumes along with annual growth) and with the build out of The Artisan Scottsdale.

The results of the 2023 <u>build</u> capacity analysis level of service is shown in **Figure 3**. All movements operate at a LOS D or better.





# Legend AM (PM) Peak Hour Traffic Volumes AM [PM] Peak Hour Level of Service AM (PM) Inbound Trip Distribution Percentages AM (PM) Outbound Trip Distribution Percentages Intersection

A[A] — A[A]

SLOS A (A)

Indian School Rd A[A] A[A]

Indian School

**→**[a]a

31 (58)

73 (70)

Aarshall Way

670 (748)

Indian School

[a]a

Indian School

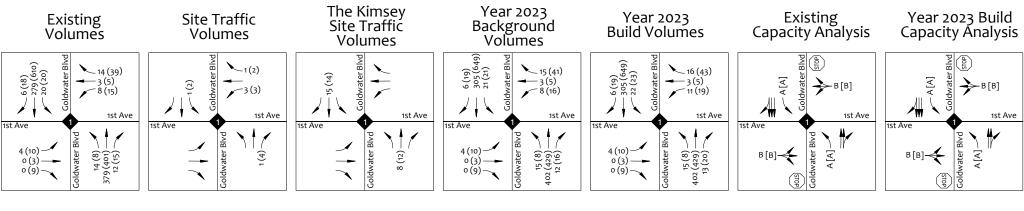
SLOS A (B)

**≜**A[A]

\_ A [A]

**→**[a]a

Marshall Way



Marshall W<sub>)</sub>

Aarshall Way

31 (58)

670 (748)

4 (18) 4 (18) 8 (31)

- 66 (56)

Indian School Rd

26 (31)

14 (39)

612 (766)

Indian School Rd

> 26 (31) -612 (766) -

12 (31)

Marshall Wy

Indian School

7 (14)

Indian School

18 (12)

Indian School

Marshall W<sub>)</sub>

arshall Wa

25 (30)

12 (30)

588 (736)

30 (56) 627 (707)

Indian School

Indian School Rd

63 (54)



#### SUMMARY

The proposed site is located on the southwest corner of Indian School Road and Marshall Way and will be comprised of two (2) buildings to include 83 multi-family units, 2,500 square feet of office space, and 2,500 square feet of retail space. Of the 83 multi-family units there are 16 studio units, 51 one-bedroom units, and 16 two-bedroom units.

There are three (3) access points to The Artisan Scottsdale development. Utilizing the existing roadway network, the ingress/egress points to the proposed development can be accessed by Marshall Way, 1<sup>st</sup> Avenue, or the existing access drive that intersects with Goldwater Boulevard.

#### **Existing Capacity Analysis**

The results of the existing capacity analysis reveal that all movements for the intersections of Goldwater Boulevard and 1<sup>st</sup> Avenue (1) and Indian School Road and Marshall Way (2) operate with an existing level of service (LOS) D or better.

#### **Trip Generation**

At full build-out, the proposed Artisan Scottsdale development is anticipated to generate 637 weekday trips, with 37 trips occurring during the AM peak hour and 71 trips during the PM peak hour.

#### **Trip Generation Comparison**

The build-out of The Artisan Scottsdale development is anticipated to generate 611 (49%) fewer weekday trips, with 10 (37%) additional trips during the AM peak hour, and 19 (21%) fewer trips during the PM peak hour than the build-out of an 28,271 SF specialty retail store.

#### Year 2023 (Build Out Year)

Year 2023 (build out year) analysis was completed <u>with</u> the build out of the proposed The Artisan Scottsdale development. The year 2023 background traffic volumes include the trips generated by The Kimsey development (which is a proposed approved development), in addition to an annual growth rate of 2.0%.

A capacity analysis was completed for both the AM and PM peak hour for year 2023, with the build out of The Artisan Scottsdale development. All movements operate at a LOS D or better for the intersections of Goldwater Boulevard and 1<sup>st</sup> Avenue (1) and Indian School Road and Marshall Way (2).

The traffic signal phases for the intersection of Indian School and Marshall Way (2) as it exists today, continues to operate with acceptable levels of service in year 2023 (with The Kimsey site volumes along with annual growth) and with the build out of The Artisan Scottsdale.





The City of Scottsdale's 2018 Average Daily Segment Traffic (ADT) Volumes map reports an ADT of 19,600 vehicles per day along Indian School Road, between Goldwater Boulevard and Scottsdale Road and an ADT of 11,800 vehicles per day along Goldwater Boulevard, between Indian School Road and Osborn Road. With the build out of the proposed development, 637 daily trips are projected to be added onto the adjacent roadway network.

Based on the trip distribution shown in Figure 3, approximately 80% of the daily traffic will utilize Indian School Road to access the proposed development. With an ADT of 19,600 vehicles per day along Indian School Road, the ADT would increase by approximately 2.6%. Similarly, Figure 3 shows approximately 20% of the daily traffic will utilize Goldwater Boulevard to access the proposed development. With an ADT of 11,800 vehicles per day along Goldwater Boulevard, the ADT would increase by approximately 1.1%.

In conclusion, the traffic generated by The Artisan Scottsdale development is anticipated to result in minimal traffic impacts to the existing roadway network and the surrounding area.



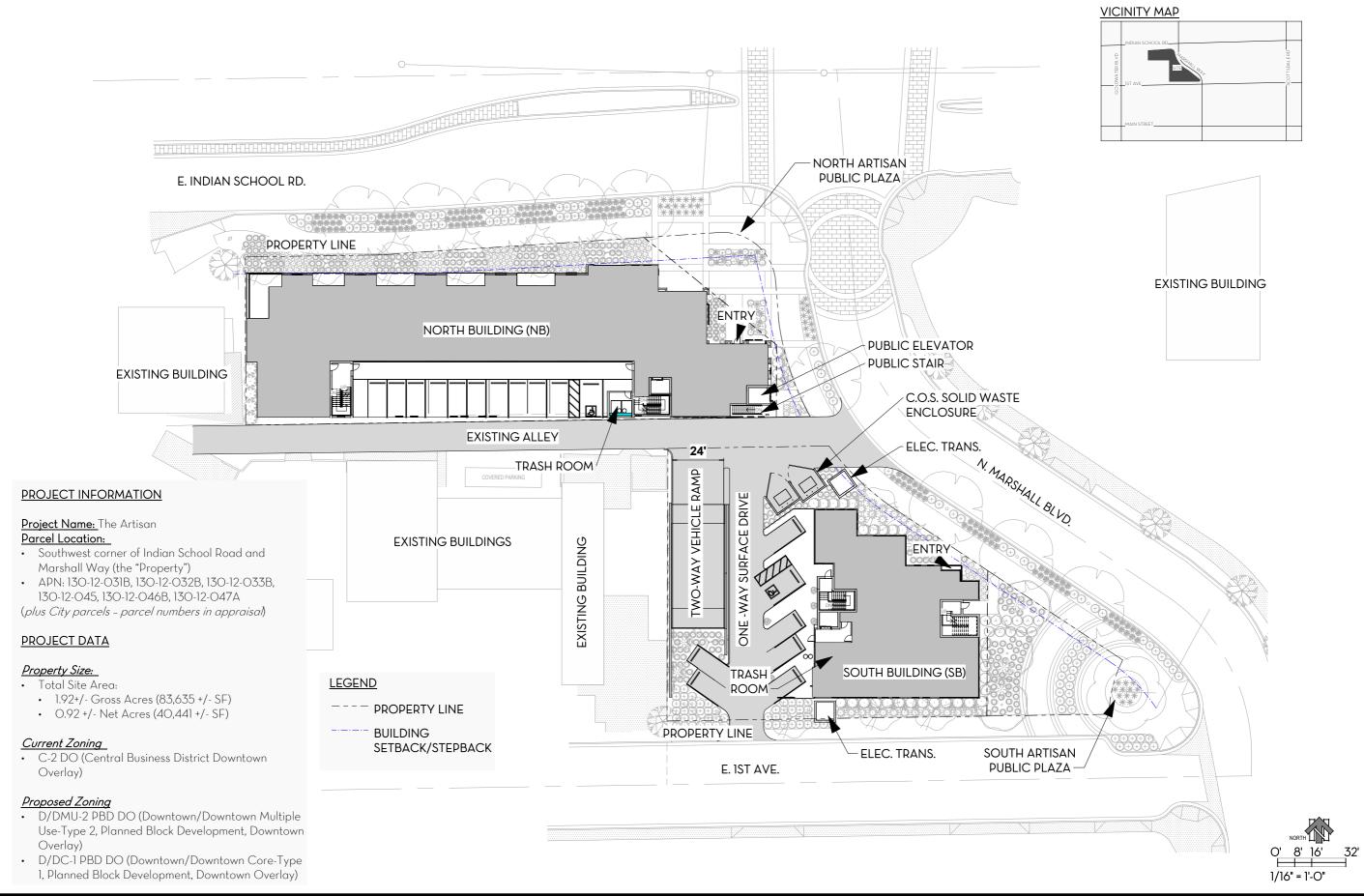


## ATTACHMENT A - PROPOSED SITE PLAN













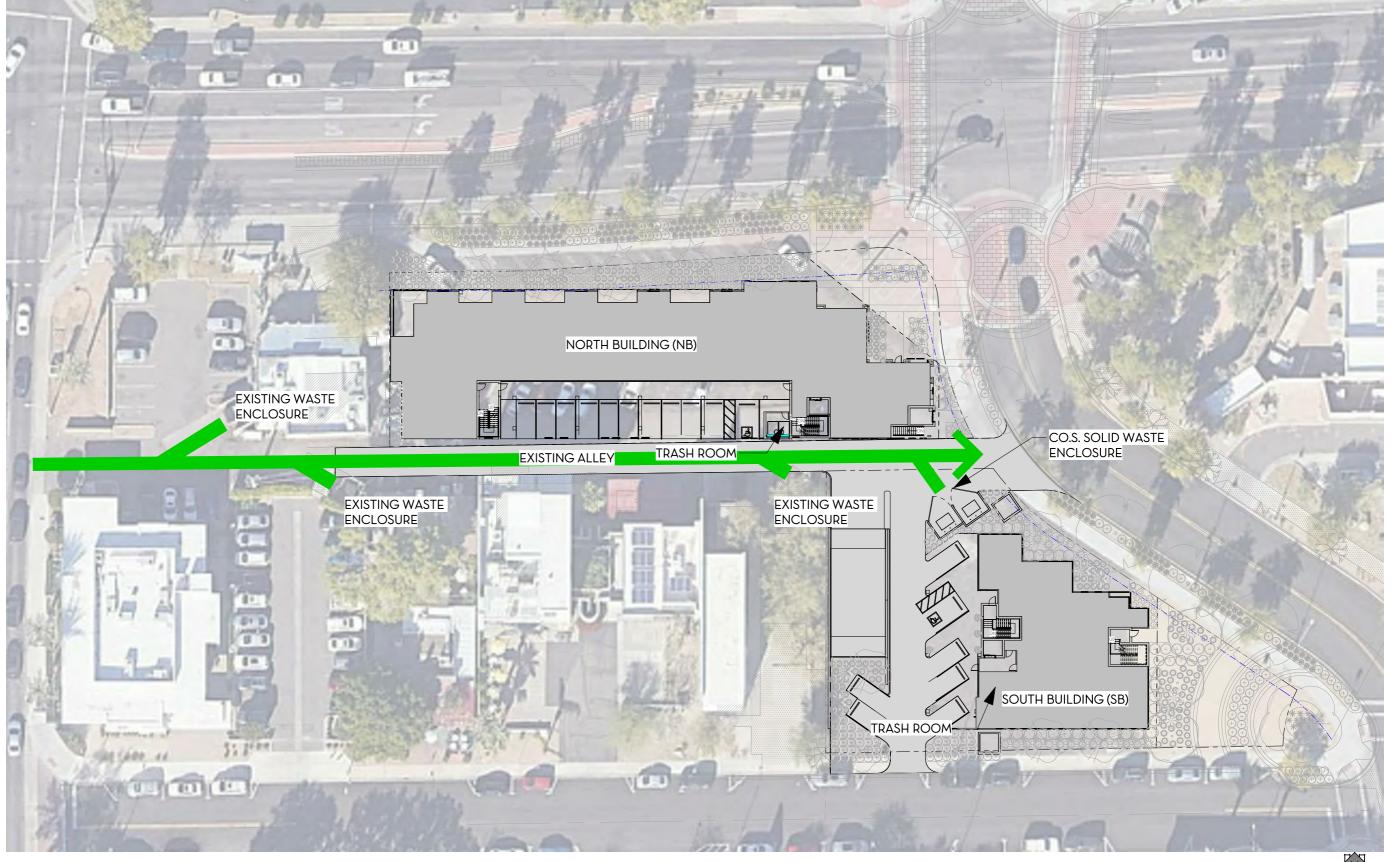
### SITE PLAN

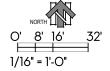
- NORTH BUILDING
   35% 4 STORIES (45' HEIGHT)
   65% 5 STORIES (66' MAX)

  - 53 UNITS
  - ARTSPACE
- 2 SOUTH BUILDING
  - 4 STORIES (100%)
  - 51' HEIGHT MAX
  - 30 UNITS 5,000 SQFT OFFICE/RETAIL
- 3 SHARED ALLEY
- NORTH ARTISAN PLAZA (~4,500 SQFT)
- SOUTH ARTISAN PLAZA (~5,500 SQFT)
- 6 SURFACE PARKING
- UNDERGROUND & SURFACE PARKING ACCESS - 209 SPACES
- ARTSPACE
- ROOF GARDEN



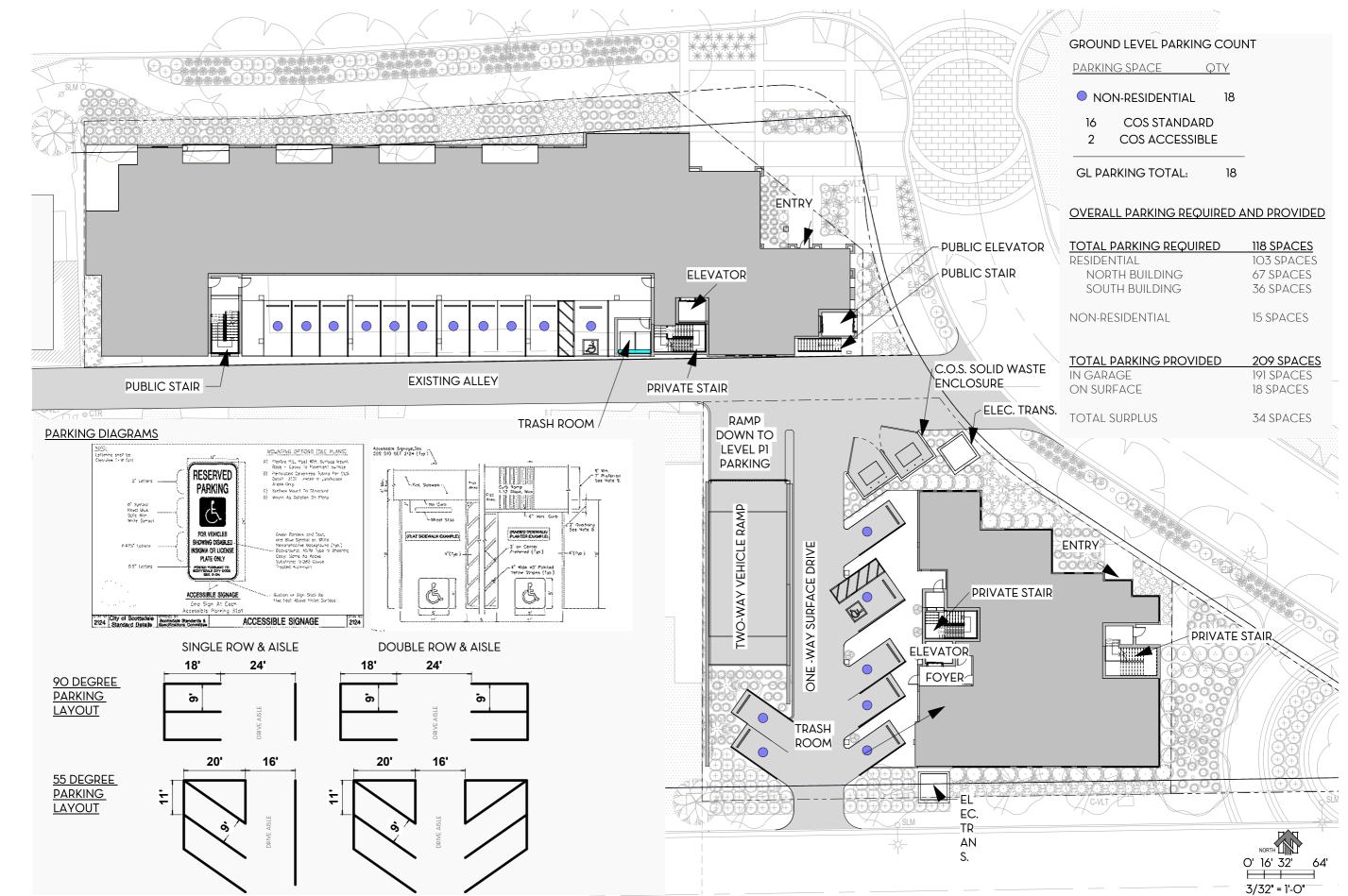






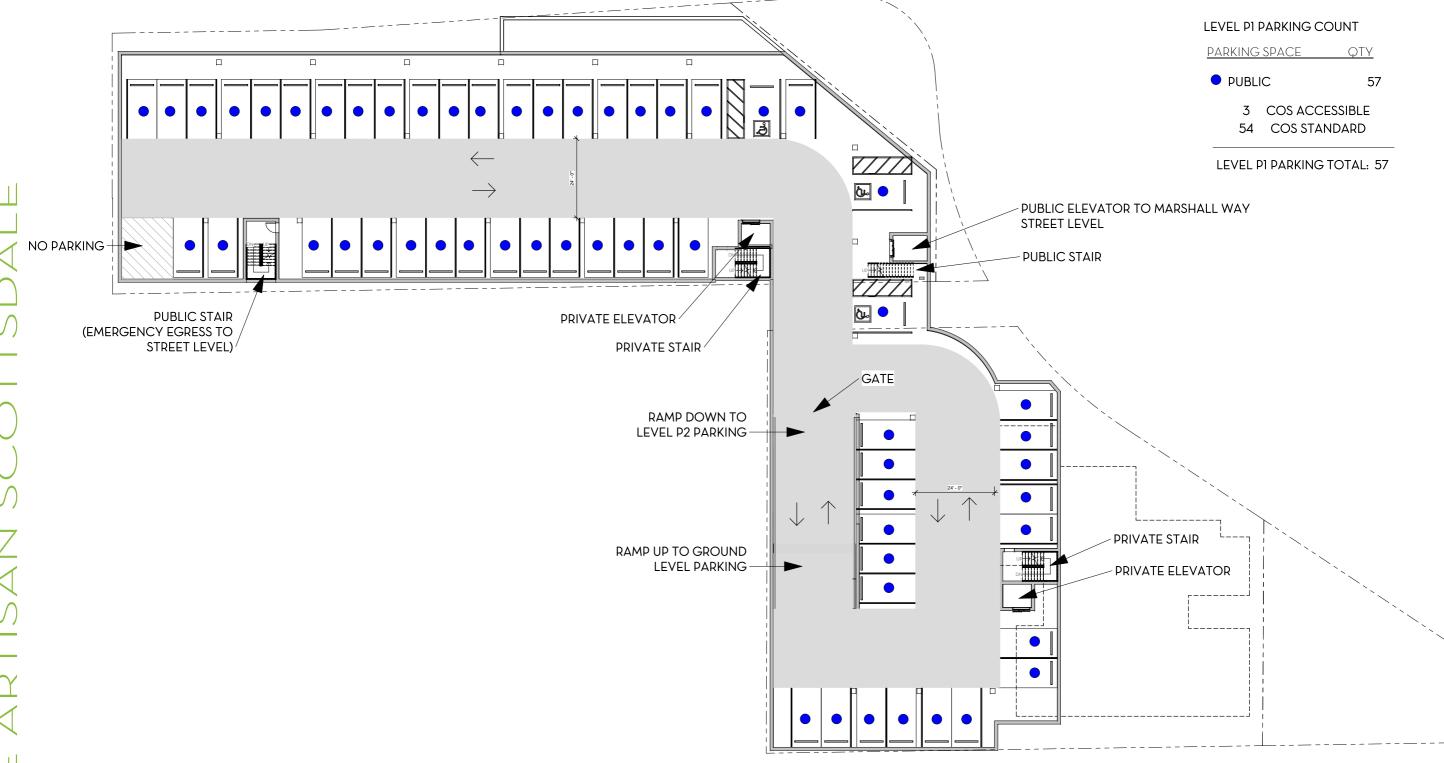








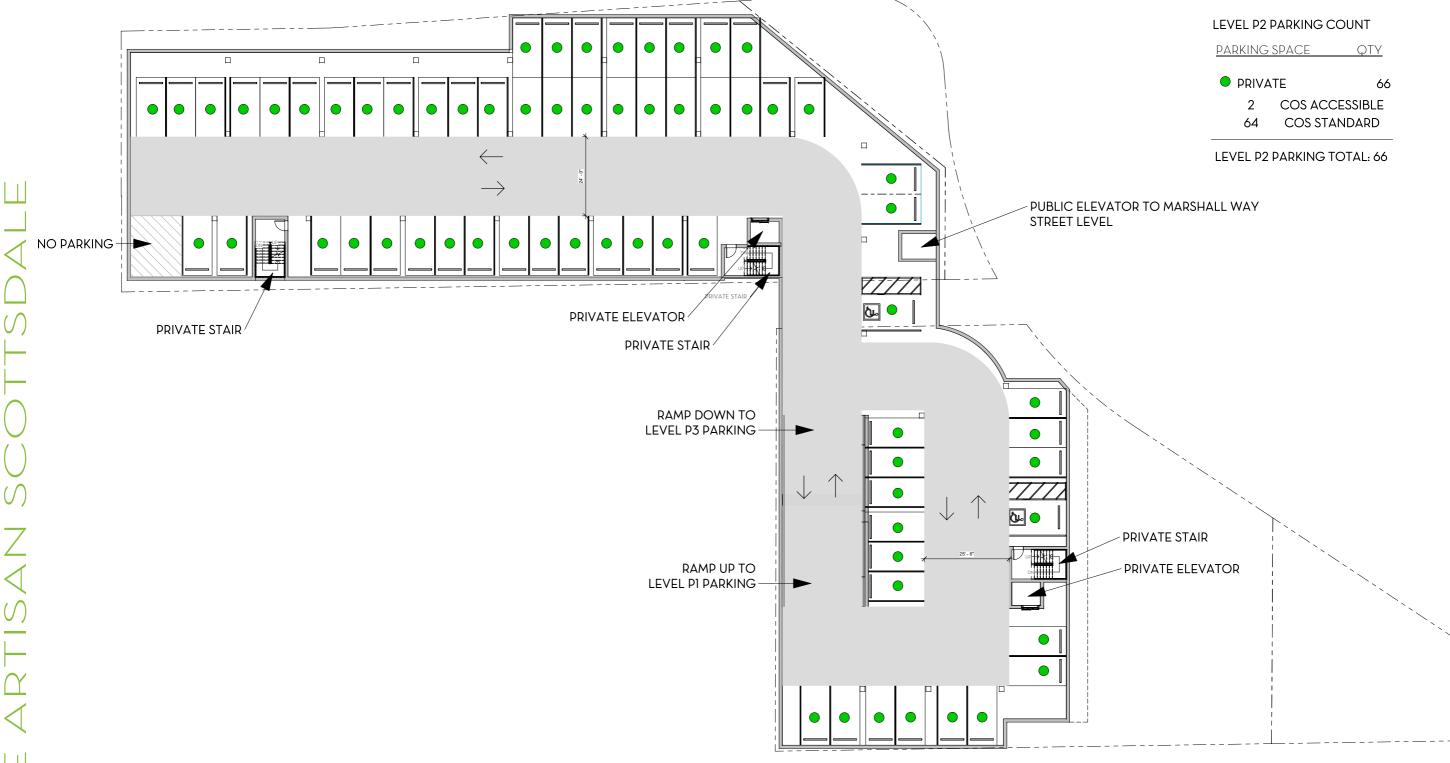








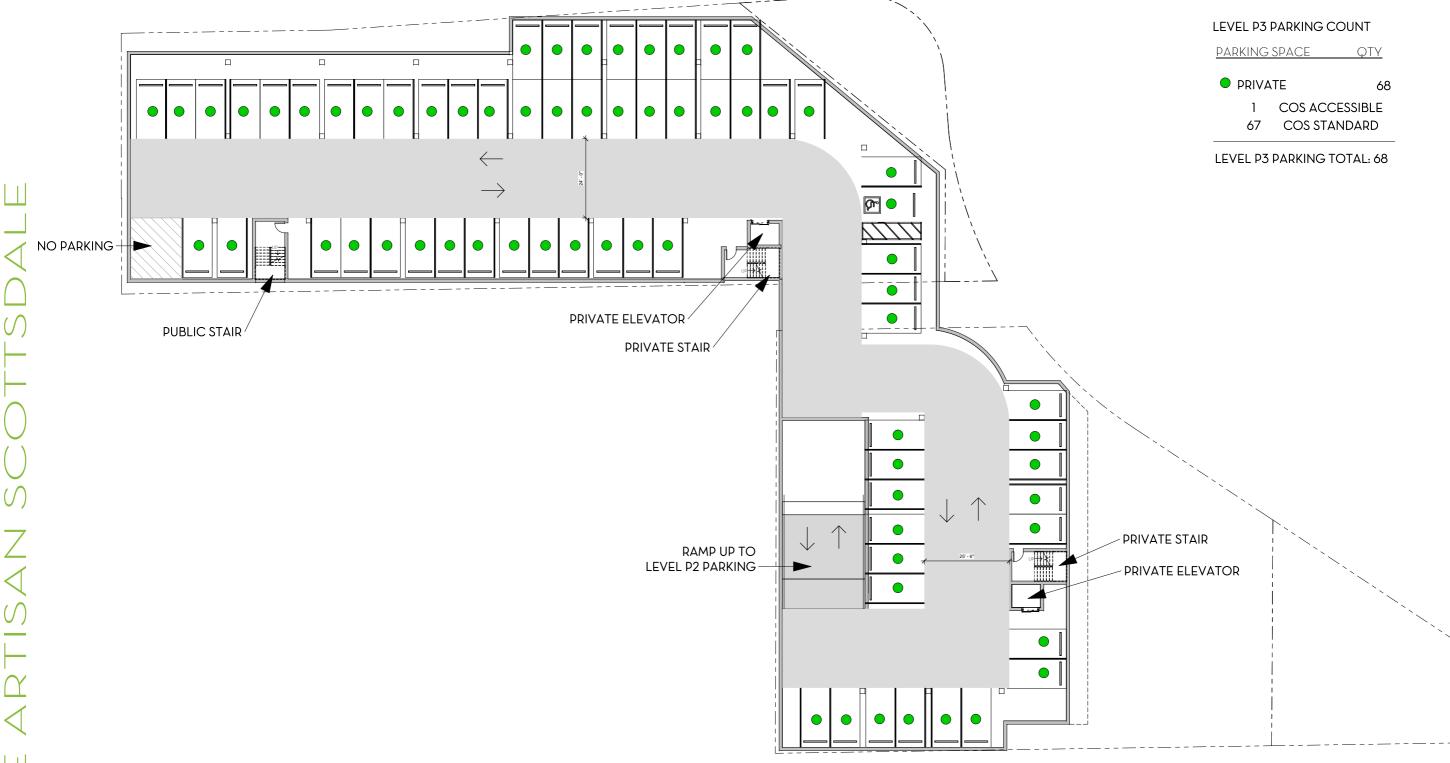
0' 16' 32' 64' 3/32" = 1'-0"







O' 16' 32' 64' 3/32" = 1'-0"







O' 16' 32' 64' 3/32" = 1'-0"



# ATTACHMENT B – MARICOPA COUNTY ASSESSOR



#### 130-12-031B Commercial Parcel

This is a commercial parcel located at 7033 E INDIAN SCHOOL RD SCOTTSDALE 85251. and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$396,600.

#### **Property Information**

#### 7033 E INDIAN SCHOOL RD SCOTTSDALE 85251

MCR# 626

WEST SCOTTSDALE MCR 6-26 LOTS 5 & 6 BLK 2 EX ANY PT LY W/IN FOLL DES

PROP BEG NE COR SD LOT 5 TH S 96.20F N 50D 59M W 80.40F TH S 86D 12M W Description:

87.24F N 49.12F E 149.85F TO POB P/F 99-0400199 & EX S 3F TH/OF DKT 10057 PG

1100

Lat/Long 33.49458599 | -111.92917602

Lot Size 6,722 sq ft.

C-2 Zoning Lot#

High School

SCOTTSDALE UNIFIED #48 District

**Elementary School** 

District

SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction **SCOTTSDALE** 

S/T/R 27 2N 4E

Market

Area/Neighborhood 19/005

Subdivision (118

Parcels)

WEST SCOTTSDALE

#### **Owner Information**

#### BENJAMIN M FUNKE BENEFICIARY TRUST

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number 190899090 Last Deed Date 11/07/2019

Sale Date n/a Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$396,600	\$350,300	\$333,600	\$316,500	\$335,495
Limited Property Value	\$283,202	\$269,716	\$256,872	\$196,230	\$323,148
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	, AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$50,976	\$48,549	\$46,237	\$29,435	\$48,472
Property Use Code	1074	1074	1074	0021	0021
PU Description	Associated Commercial	Associated Commercial	Associated Commercial	Vacant Commercial Land	Vacant Commercial Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

#### 130-12-032B Commercial Parcel

This is a commercial parcel located at 7029 E INDIAN SCHOOL RD SCOTTSDALE 85251. and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$233,600.

#### **Property Information**

#### **7029 E INDIAN SCHOOL RD SCOTTSDALE 85251**

MCR# 626

WEST SCOTTSDALE MCR 6-26 LOT 7 BLK 2 EX ANY PT LY W/IN FOLL DES PROP

BEG NE COR LOT 5 BLK 2 TH S 96.20F TH N 50D 59M W 80.40F TH S 86D 12M W

Description: 87.24F TH N 49.12F TH E 149.85F TO POB P/F 99-0400199 & EX S 3F TH/OF DKT

10057 PG 1100

Lat/Long 33.49458100 | -111.92942102

Lot Size 3,959 sq ft.

C-2 Zoning Lot#

High School

SCOTTSDALE UNIFIED #48 District

**Elementary School** 

District

SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction **SCOTTSDALE** 

S/T/R 27 2N 4E

Market Area/Neighborhood 19/005

Subdivision (118

Parcels)

WEST SCOTTSDALE

#### **Owner Information**

#### BENJAMIN M FUNKE BENEFICIARY TRUST

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number 190899090 Last Deed Date 11/07/2019

Sale Date n/a Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$233,600	\$206,300	\$196,500	\$186,400	\$204,007
Limited Property Value	\$166,814	\$158,870	\$151,305	\$115,568	\$204,007
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAI / OTHER R/P	. AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$30,027	\$28,597	\$27,235	\$17,335	\$30,601
Property Use Code	1074	1074	1074	0021	0021
PU Description	Associated Commercial	Associated Commercial	Associated Commercial	Vacant Commercial Land	Vacant Commercial Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

#### 130-12-033B Commercial Parcel

This is a commercial parcel located at 7017 E INDIAN SCHOOL RD SCOTTSDALE 85251. and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$505,800.

#### **Property Information**

#### 7017 E INDIAN SCHOOL RD SCOTTSDALE 85251

MCR# 626

WEST SCOTTSDALE MCR 6-26 PT LOTS 8 9 & 10 DAF COM NE COR SD LOT 8 TH

S 49.12F TPOB TH CONT S 81.03F TO SE COR SD LOT 8 TH W 99.76F TO SW COR Description:

SD LOT 9 TH N 29.15F TH W 0.19F TH N 49.99F TH E 63.50F TH N 86D 12M E 36.73F

**TPOB** 

Lat/Long 33.49457401 | -111.92966602

Lot Size 7,945 sq ft.

C-2 Zoning Lot#

High School

SCOTTSDALE UNIFIED #48 District

**Elementary School** 

District

SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction **SCOTTSDALE** 

S/T/R 27 2N 4E

Market Area/Neighborhood 19/005

Subdivision (118

Parcels)

WEST SCOTTSDALE

#### **Owner Information**

#### BENJAMIN M FUNKE BENEFICIARY TRUST

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number 190899090 Last Deed Date 11/07/2019

Sale Date n/a Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$505,800	\$450,300	\$429,200	\$393,400	\$393,400
Limited Property Value	\$364,358	\$347,008	\$330,484	\$393,225	\$374,500
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$65,584	\$62,461	\$59,487	\$58,984	\$56,175
Property Use Code	2630	2630	2630	0021	0021
PU Description	Parking	Parking	Parking	Vacant Commercial Land	Vacant Commercial Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

#### **Additional Property Information**

Additional commercial property data.

Description Imp # Occupancy Rank CCI Age Sq Ft.

Site Improvements 000101 163 2 D 9 1

#### 130-12-045 Commercial Parcel

This is a commercial parcel and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$413,700.

#### **Property Information**

MCR # <u>626</u>

Description: W SCOTTSDALE

Lat/Long

Lot Size 6,400 sq ft.

Zoning C-2 Lot # 20

High School District SCOTTSDALE UNIFIED #48

Elementary School District SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction SCOTTSDALE

S/T/R 27 2N 4E Market Area/Neighborhood 19/005

Subdivision (118 Parcels) WEST SCOTTSDALE

#### **Owner Information**

#### **BENJAMIN M FUNKE BENEFICIARY TRUST**

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number <u>190899090</u> Last Deed Date <u>11/07/2019</u>

Sale Date n/a
Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$413,700	\$367,000	\$349,900	\$321,000	\$321,000
Limited Property Value	\$297,039	\$282,894	\$269,423	\$321,000	\$311,432
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$53,467	\$50,921	\$48,496	\$48,150	\$46,715
Property Use Code	2630	2630	2630	0011	0011
PU Description	Parking	Parking	Parking	Vacant Residential Land	Vacant Residential Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

#### **Additional Property Information**

Additional commercial property data.

Description Imp # Occupancy Rank CCI Age Sq Ft.

Site Improvements 000101 163 2 D 9 1

#### 130-12-046B Commercial Parcel

This is a commercial parcel and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$360,200.

#### **Property Information**

MCR # <u>626</u>

Description: WEST SCOTTSDALE MCR 6-26 LOT 21 BLK 2 EX TH PT CONV P/F 97-

0682785

Lat/Long

Lot Size 6,054 sq ft.

Zoning C-2 Lot # 21

High School District SCOTTSDALE UNIFIED #48

19/005

Elementary School District SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction SCOTTSDALE

S/T/R 27 2N 4E

Market

Area/Neighborhood

Subdivision (118 Parcels) WEST SCOTTSDALE

#### **Owner Information**

#### **BENJAMIN M FUNKE BENEFICIARY TRUST**

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number <u>190899090</u> Last Deed Date <u>11/07/2019</u>

Sale Date n/a
Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$360,200	\$316,600	\$301,500	\$304,600	\$304,600
Limited Property Value	\$255,951	\$243,763	\$232,155	\$304,600	\$297,079
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	, AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$46,071	\$43,877	\$41,788	\$45,690	\$44,562
Property Use Code	1074	1074	1074	0021	0021
PU Description	Associated Commercial	Associated Commercial	Associated Commercial	Vacant Commercial Land	Vacant Commercial Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

#### 130-12-047A Commercial Parcel

This is a commercial parcel and the current owner is BENJAMIN M FUNKE BENEFICIARY TRUST. It is located in the West Scottsdale subdivision and MCR 626. Its current year full cash value is \$253,400.

#### **Property Information**

MCR # <u>626</u>

Description: WEST SCOTTSDALE MCR 6-26 LOT 22 BLK 2 EX TH PT CONV P/F 97-

0682785

Lat/Long

Lot Size 4,259 sq ft.

Zoning C-2 Lot # 22

High School District SCOTTSDALE UNIFIED #48

19/005

Elementary School District SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction SCOTTSDALE

S/T/R 27 2N 4E

Market

Area/Neighborhood

Subdivision (118 Parcels) WEST SCOTTSDALE

#### **Owner Information**

#### **BENJAMIN M FUNKE BENEFICIARY TRUST**

Mailing Address 810 W HOWE ST, TEMPE, AZ 85281

Deed Number <u>190899090</u> Last Deed Date <u>11/07/2019</u>

Sale Date n/a
Sale Price n/a

#### **Valuation Information**

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our <u>data sales</u>.

The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL

Tax Year	2021	2020	2019	2018	2017
Full Cash Value	\$253,400	\$222,700	\$212,100	\$218,800	\$218,800
Limited Property Value	\$180,057	\$171,483	\$163,317	\$218,800	\$218,800
Legal Class	1.12	1.12	1.12	2.R	2.R
Description	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	COMMERCIAL / OTHER R/P	AG / VACANT LAND / NON-PROFIT R/P	AG / VACANT LAND / NON-PROFIT R/P
Assessment Ratio	18%	18%	18%	15%	15%
Assessed LPV	\$32,410	\$30,867	\$29,397	\$32,820	\$32,820
Property Use Code	1074	1074	1074	0021	0021
PU Description	Associated Commercial	Associated Commercial	Associated Commercial	Vacant Commercial Land	Vacant Commercial Land
Tax Area Code	481400	481400	481400	481400	481400
Valuation Source	Notice	Notice	Notice	Notice	Notice

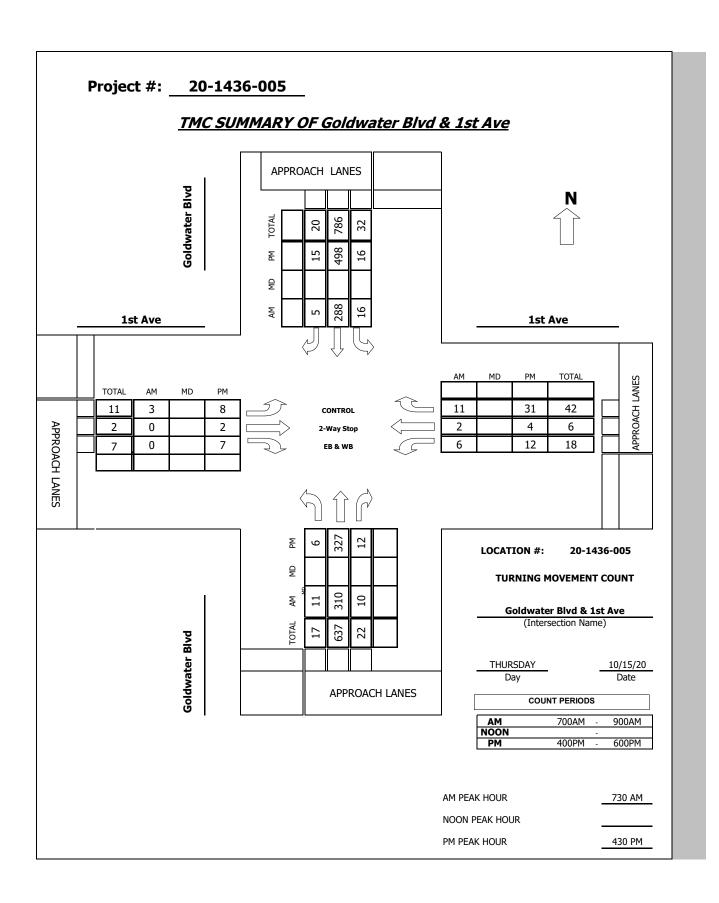


# **ATTACHMENT C - TRAFFIC COUNTS**



### Intersection Turning Movement Prepared by:





#### **Intersection Turning Movement** Prepared by:





N-S STREET: Goldwater Blvd DATE: 10/15/20 LOCATION: Scottsdale

E-W STREET: 1st Ave DAY: THURSDAY PROJECT# 20-1436-005

	NORTHBOUND			SC	OUTHBO	UND	E	ASTBOL	JND	W	/ESTBOL	JND	
LANES:	NL 0	NT 2	NR 0	SL 0	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	0	49	0	4	55	0	0	0	0	2	0	2	112
7:15 AM	4	72	1	1	76	1	0	1	2	1	0	2	161
7:30 AM	2	70	3	3	67	0	2	0	0	2	0	5	154
7:45 AM	1	65	3	4	77	2	0	0	0	1	0	5	158
8:00 AM	1	94	4	4	56	1	1	0	0	0	1	1	163
8:15 AM	7	81	0	5	88	2	0	0	0	3	1	0	187
8:30 AM	0	75	3	2	81	3	1	0	0	1	0	3	
8:45 AM	0	61	3	5	66	2	0	1	0	0	1	2	141
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
ΓΟΤΑL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL

TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	l
Volumes	15	567	17	28	566	11	4	2	2	10	3	20	1245	ı
Approach %	2.50	94.66	2.84	4.63	93.55	1.82	50.00	25.00	25.00	30.30	9.09	60.61		l
App/Depart	599	/	591	605	/	578	8	/	47	33	/	29		l

AM Peak Hr Begins at: 730 AM

PEAK

310 10 16 288 Volumes 3.32 93.66 3.02 5.18 93.20 1.62 100.00 0.00 0.00 31.58 10.53 57.89 Approach %

PEAK HR.

0.836 0.813 0.885 FACTOR: 0.375 0.679

CONTROL: 2-Way Stop (EB & WB)

COMMENT 1: GPS:

33.493977, -111.930437

### **Intersection Turning Movement**



N-S STREET: Goldwater Blvd DATE: 10/15/20 LOCATION: Scottsdale

PROJECT# 20-1436-005 E-W STREET: 1st Ave DAY: THURSDAY

	NO	DTUDO	INID		LITUDO	INID		ACTROLL	ND	147	INID		
	NO	RTHBOU	טאנ	SO	UTHBOL	טאנ	E	ASTBOU	ND	W	ESTBOU	טאינ	
LANES:	NL 0	NT 2	NR 0	SL 0	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
1:00 PM 1:15 PM 1:30 PM 1:45 PM 2:00 PM 2:15 PM 2:30 PM 3:15 PM 3:30 PM 3:15 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM 6:30 PM	4 4 1 2 0 3 1 1	67 65 62 98 91 76 85 78	3 3 4 3 2 3 2	7 4 4 6 2 4 5 5 5	121 96 101 119 148 130 110	2 3 1 2 8 4 3 0	3 2 0 4 4 0 1 1	0 0 0 0 1 1 0	0 2 1 3 1 2 0	4 1 2 4 3 0 5	0 1 1 1 0 2 1 1	6 11 10 4 10 7 7 6	217 192 186 247 271 234 212
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
Volumes	16	622	23	37	936	23	15	3	10	22	7	61	1775
Approach %	2.42	94.10	3.48	3.71	93.98	2.31	53.57	10.71	35.71	24.44	7.78	67.78	
App/Depart	661		698	996	1	968	28		63	90	1	46	
	ak Hr Be	gins at:	430	ΡM									
PEAK Volumes Approach %	6 1.74	327 94.78	12 3.48	16 3.02	498 94.14	15 2.84	8 47.06	2 11.76	7 41.18	12 25.53	4 8.51	31 65.96	938
PEAK HR. FACTOR:	l	0.829	I		0.837			0.607	I		0.904	I	0.865
CONTROL: COMMENT 1:	2-Way 9	Stop (EB	& WB)										

33.493977, -111.930437 GPS:



### Pedestrian & Bicycle Study

N-S STREET: Goldwater Blvd Date: 10/15/20 City: Scottsdale E-W STREET: 1st Ave Day: THURSDAY Project #: 20-1436-005

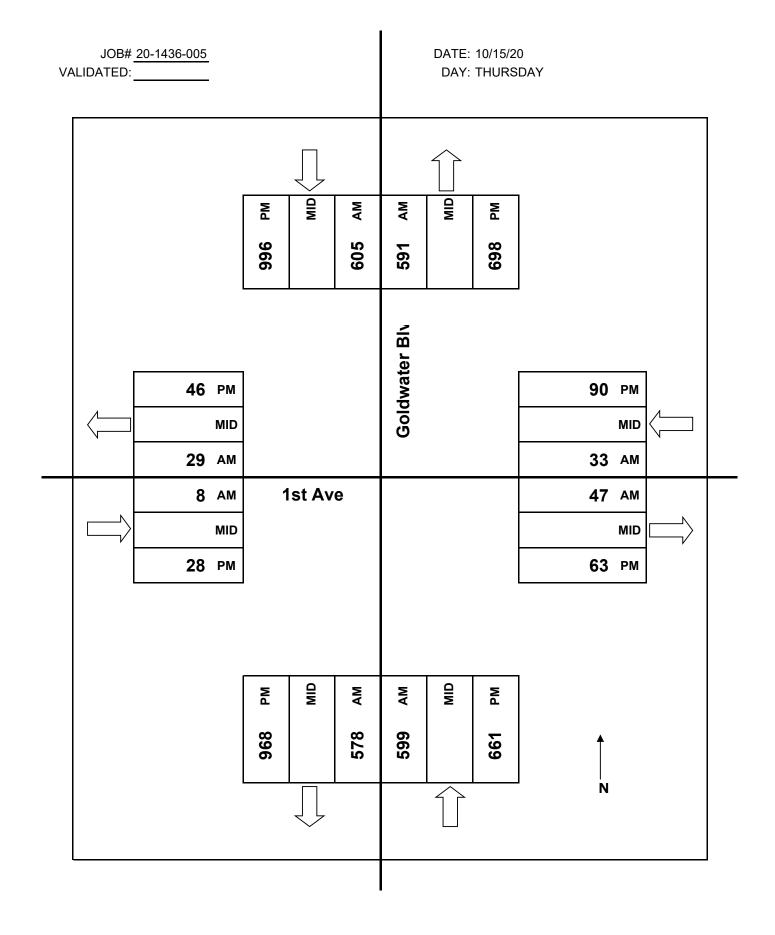
		PEDES	TRIANS	
	N-LEG	S-LEG	E-LEG	W-LEG
7:00 AM	0	0	0	3
7:15 AM	0	0	0	4
7:30 AM	0	1	1	3
7:45 AM	0	0	2	0
8:00 AM	0	2	0	1
8:15 AM	0	1	0	6
8:30 AM	4	3	0	5
8:45 AM	0	0	1	1
TOTAL	4	7	4	23

_												
		PEDES	TRIANS									
	N-LEG	S-LEG	E-LEG	W-LEG								
4:00 PM	0	0	1	1								
4:15 PM	0	0	1	1								
4:30 PM	0	0	1	0								
4:45 PM	0	0	2	0								
5:00 PM	0	1	4	0								
5:15 PM	0	0	8	4								
5:30 PM	0	1	2	3								
5:45 PM	0	4	3	0								

Ī		BICY	CLES	
ľ	N-LEG	S-LEG	E-LEG	W-LEG
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	2	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	1	0	2
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
TOTAL	0	1	2	2

ſ		BICY	CLES	
	N-LEG	S-LEG	E-LEG	W-LEG
4:00 PM	0	0	0	0
4:15 PM	0	0	0	0
4:30 PM	0	0	0	0
4:45 PM	0	0	0	0
5:00 PM	0	0	0	0
5:15 PM	0	0	0	0
5:30 PM	0	0	0	0
5:45 PM	0	0	1	0
TOTAL	0	0	1	0

	North Leg	
West Leg		East Leg
	South Leg	



P.H.F.

0.88

0.96

0.91

0.93

0.86

0.89

Volumes for: Thursday, October 15, 2020 City: Scottsdale Project #: 20-1436-002

Location: Marshall Way south of Indian School Rd	Location:	Marshall	Way	south	of	Indian	School	Rd
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P.H.F.

0.87

0.91

AM Period			SB		EB	WB		PM Period	NB		SB		EB	WB	
00:00	0		2					12:00	15		19				
00:15	2		0					12:15	5		16				
00:30	0		0					12:30	16		12				
00:45	0	2	2	4			6	12:45	17	53	11	58			111
01:00	1		2					13:00	11		7				
01:15	1		0					13:15	12		10				
01:30	2		0					13:30	14		4				
01:45	0	4	0	2			6	13:45	13	50	13	34			84
02:00	0		1					14:00	15		6				
02:15	0		2					14:15	10		12				
02:30	0		1					14:30	18		13				
02:45	0	0	0	4			4	14:45	14	57	10	41			98
03:00	1		0					15:00	18		11				
03:15	0		1					15:15	8		8				
03:30	0		0					15:30	9		7				
03:45	0	1	0	1			2	15:45	12	47	7	33			80
04:00	1		0					16:00	14	<u> </u>	9				
04:15	0		0					16:15	8		5				
04:30	1		3					16:30	11		11				
04:45	0	2	0	3			5	16:45	9	42	7	32			74
05:00	2		1					17:00	12		4				
05:00	0		0					17:15	7		7				
05:30	2		0					17:13	10		8				
05:45	0	4	2	3			7	17:45	6	35	9	28			63
06:00	2		1				,	18:00	5	- 55	6	20			- 03
06:00	1		0					18:15	5		7				
06:30	1		4					18:30	11		10				
06:45	2	6	1	6			12	18:45	5	26	6	29			55
07:00	2		3					19:00	7		1				
07:00	3		5					19:00	2		4				
07:13	3		11					19:30	7		8				
07:45	3	11	6	25			36	19:45	6	22	6	19			41
	7		4						6		9	-17			
08:00 08:15	5		6					20:00 20:15	5		2				
08:30	4		8					20:13	4		2				
08:45	8	24	10	28			52	20:45	7	22	2	15			37
		21		20			32					13			37
09:00	6 7		13					21:00	1		1				
09:15	7		9					21:15	5		0				
09:30 09:45	6 11	30	7 9	38			68	21:30 21:45	0 4	10	2 2	5			15
		50		20			00			10		J			13
10:00	8		11					22:00	2		0				
10:15	9 17		13					22:15	0		2				
10:30	17 17	E1	17 24	65			116	22:30	1	2	0 1	2			6
10:45		51	24	65			116	22:45	0	3		3			Ü
11:00	16		12					23:00	0		2				
11:15	14		14					23:15	1		0				
11:30	19 17	66	15 19	60			126	23:30	1 0	ว	2 1	F			7
11:45	1/	66	13	60			120	23:45	U	2	Т	5			
Total Vol.		201		239			440			369		302			671
CDC Coord													Daily T		

 GPS Coordinates:
 33.494385, -111.928739
 Daily Totals

 NB
 SB
 EB
 WB
 Combined

				570	541		1111
			AM			PM	
Split %	45.7%	54.3%	39.6%	55.0%	45.0%		60.4%
Peak Hour	10:45	11:30	11:15	14:15	12:00		12:00
Volume	66	69	132	60	58		111

0.83

0.76

0.82

0.92

**Volume** 

P.H.F.

0.73

0.78

0.74

0.75

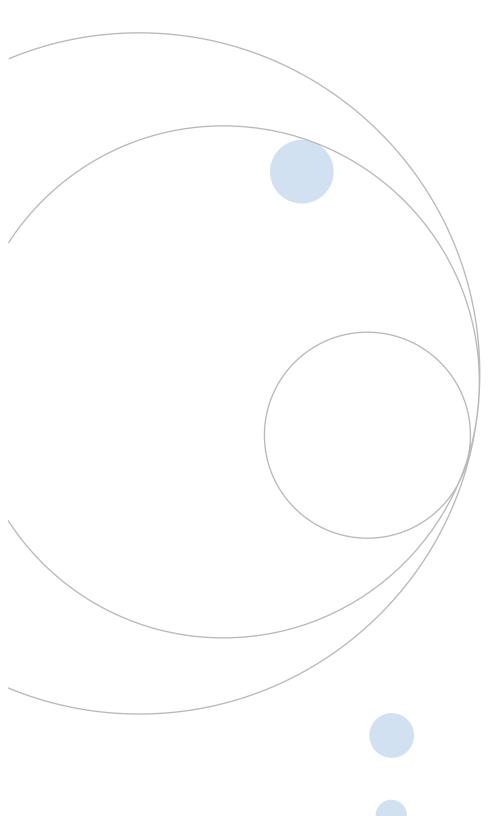
0.92

0.99

Volumes for: Thursday, October 15, 2020 City: Scottsdale Project #: 20-1436-004

Location: Goldwater Blvd south of Indian School Rd

AM Period	NB		SB		EB	WB		PM Period	NB		SB		EB	WB	
00:00	1		13					12:00	58		69				
00:15	3		14					12:15	65		76				
00:30	3		11					12:30	60		74				
00:45	2	9	2	40			49	12:45	69	252	87	306			558
01:00	3		6					13:00	76		98				
01:15	4		8					13:15	74		103				
01:30	1		11					13:30	77		101				
01:45	4	12	5	30			42	13:45	81	308	101	403			711
02:00	3		3					14:00	76		103				
02:15	5		5					14:15	69		88				
02:30	4		5					14:30	87		117				
02:45	1	13	3	16			29	14:45	89	321	110	418			739
03:00	3		0					15:00	76		67				
03:15	2		1					15:15	76		134				
03:30	2	0	3 6	10			19	15:30	76 100	220	86	402			730
03:45	2	9		10			19	15:45	100	328	115	402			730
04:00	6		3					16:00	74		125				
04:15	4		8					16:15	72 66		99 104				
04:30 04:45	11 8	29	3 7	21			50	16:30 16:45	104	316	104 126	454			770
		23		21			30			310		דנד			770
05:00	7		11					17:00	94		152				
05:15 05:30	17 11		13 31					17:15 17:30	81 89		135 110				
05:45	26	61	25	80			141	17:45	81	345	117	514			859
06:00	13	01	37	- 00			111		78	3 13	117	311			033
06:00	24		29					18:00 18:15	65		106				
06:30	40		36					18:30	57		78				
06:45	35	112	57	159			271	18:45	54	254	94	395			649
07:00	49		57					19:00	66		89				
07:00	77		79					19:15	51		78				
07:30	75		69					19:30	48		68				
07:45	69	270	78	283			553	19:45	48	213	66	301			514
08:00	99		56					20:00	31		52				
08:15	88		91					20:15	35		73				
08:30	78		82					20:30	31		58				
08:45	64	329	66	295			624	20:45	41	138	50	233			371
09:00	57		65					21:00	26		50				
09:15	64		66					21:15	30		54				
09:30	63		65					21:30	15		35				
09:45	66	250	58	254			504	21:45	18	89	37	176			265
10:00	60		57					22:00	23		39				
10:15	65		74					22:15	15		36				
10:30	58		75					22:30	17		31				
10:45	54	237	59	265			502	22:45	15	70	27	133			203
11:00	74		63					23:00	12		20				
11:15	75		66					23:15	8		20				
11:30	58		60					23:30	8		17				
11:45	59	266	65	254			520	23:45	5	33	14	71			104
Total Vol.		1597		1707			3304			2667		3806			6473
GPS Coordi	nates	:	33	.494256, -	111.930448								Daily Totals		
				,						NB		SB	EB	WB	Combined
										4264		5513			9777
					AM								PM		
Split %		48.3%		51.7%			33.8%	o		41.2%		58.8%			66.2%
Peak Hour		07:45		07:45			07:45			16:45		16:45			16:45
Volume		334		307			641			368		523			891
P.H.F.		0.84		0.84			0.90			0.88		0.86			0.91



### Southbridge Expansion

Traffic Impact Study

North of 5th Avenue and West of Scottsdale Road in Scottsdale, Arizona

May 2019 Project No. 18-1110

Prepared For: **Spring Creek Development** 7134 East Stetson Drive, Fourth Floor Scottsdale, AZ 85251

For Submittal to: **City of Scottsdale** 

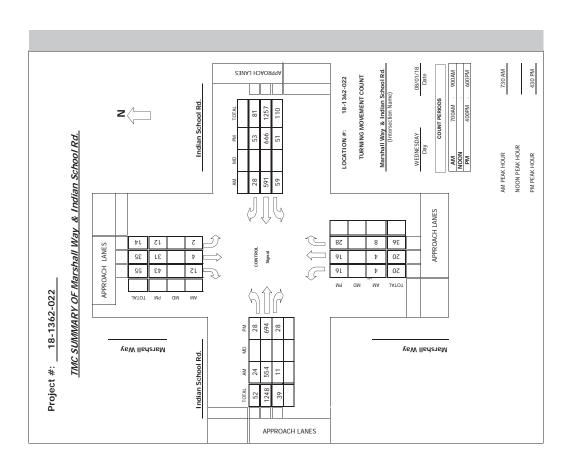
Prepared By:



10605 North Hayden Road Suite 140 Scottsdale, Arizona 85260 480-659-4250

# Intersection Turning Movement Prepared by:







# 520.316.6745 8 VET 21 Pedestrian & Bicycle Study

Date: 08/01/18 Day: WEDNESDAY

N-S STREET: Marshall Way E-W STREET: Indian School Rd.

City: Scottsdale
Project #: 18-1362-022
BICYDLES

	W-LEG	0	0	0	0	0	0	0	1	+	
:LES	E-LEG	0	0	0	0	0	0	0	0	0	
BICYCI	S-LEG	0	0	0	0	0	0	0	0	0	
	N-LEG	0	0	0	0	0	0	0	0	0	
	z	ı					ı			H	
	2	7:00 AM	7:15 AM	7:30 AM	7:45 AM	8:00 AM	8:15 AM	8:30 AM	8:45 AM	TOTAL	
	W-LEG	0 7:00 AM	2 7:15 AM	0 7:30 AM	1 7:45 AM	0 8:00 AM	1 8:15 AM	0 8:30 AM	0 8:45 AM	4 TOTAL	

7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM

BIC	G S-LEG	-	0	0	0	0	0	0	0	-
	N-LEG	0	0	0	1	0	0	0	0	1
		4:00 PM	4:15 PM	4:30 PM	4:45 PM	5:00 PM	5:15 PM	5:30 PM	5:45 PM	TOTAL
	W-LEG	0	2	1	0	2	1	0	1	7
TRIANS	E-LEG	1	0	1	2	1	0	1	- 1	7
PEDESTRIAN	S-LEG	0	- 1	- 1	0	2	- 1	0	- 1	9
	N-LEG	1	0	1	2	0	1	1	0	9
		4:00 PM	4:15 PM	4:30 PM	4:45 PM	5:00 PM	5:15 PM	5:30 PM	5:45 PM	TOTAL

	East Leg	
North Leg		South Leg
	West Leg	



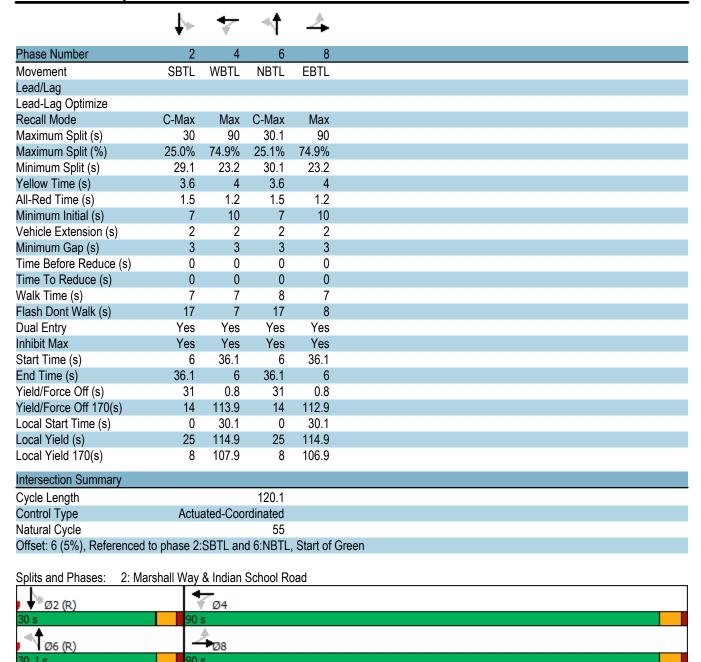
# ATTACHMENT D – EXISTING CAPACITY ANALYSIS



Intersection													
Int Delay, s/veh	0.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	LDL		LDIX	WDL		WDIX	NDL	<b>↑</b>	INDIX	ODL	<b>↑</b> ↑	ODIN	
Traffic Vol, veh/h	4	<b>4</b>	0	8	<b>♣</b>	14	14	<b>T →</b> 379	12	20	279	6	
Future Vol, veh/h	4	0	0	8	3	14	14	379	12	20	279	6	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	Slop -	Stop	None		Stop -	None			None			None	
Storage Length	-	-	None	-	-	None -	- 55	-	None -	80	-	None	
Veh in Median Storage,		0	-		0		-	0	_	-	0	_	
Grade, %	, # - -	0	_	_	0	-	-	0	_		0	_	
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mymt Flow	4	0	0	9	3	16	16	426	13	22	313	7	
INIVITIL FIOW	4	U	U	9	J	10	10	420	13	22	313	I	
	/linor2			Minor1			Major1		N	Major2			
Conflicting Flow All	608	832	160	634	829	220	320	0	0	439	0	0	
Stage 1	361	361	-	465	465	-	-	-	-	-	-	-	
Stage 2	247	471	-	169	364	-	-	-	-	-	-	-	
Critical Hdwy	6.99	6.54	7.14	6.99	6.54	6.94	5.34	-	-	4.14	-	-	
Critical Hdwy Stg 1	7.34	5.54	-	6.54	5.54	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.54	5.54	-	6.74	5.54	-	-	-	-	-	-	-	
Follow-up Hdwy	3.67	4.02	3.92	3.67	4.02	3.32	3.12	-	-	2.22	-	-	
Pot Cap-1 Maneuver	534	381	*867	*512	383	784	1006	-	-	1117	-	-	
Stage 1	771	752	-	*529	561	-	-	-	-	-	-	-	
Stage 2	708	558	-	*926	749	-	-	-	-	-	-	-	
Platoon blocked, %	1	1	1	1	1		1	-	-		-	-	
Mov Cap-1 Maneuver	506	367	*867	*498	369	784	1006	-	-	1117	-	-	
Mov Cap-2 Maneuver	506	367	-	*498	369	-	-	-	-	-	-	-	
Stage 1	759	737	-	*521	552	-	-	-	-	-	-	-	
Stage 2	679	549	-	*908	734	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	12.2			11.4			0.3			0.5			
HCM LOS	В			В									
Minor Lane/Major Mvmt	1	NBL	NBT	NRR	EBLn1V	VRI n1	SBL	SBT	SBR				
Capacity (veh/h)		1006	-	-	506	595	1117	-	-				
HCM Lane V/C Ratio		0.016	_		0.009		0.02	_	_				
HCM Control Delay (s)		8.6	_		12.2	11.4	8.3						
HCM Lane LOS		Α	_	_	12.2 B	В	0.5 A	_	_				
HCM 95th %tile Q(veh)		0	_	_	0	0.1	0.1	_	_				
` ′						J. 1	J. 1						
Notes													
~: Volume exceeds cap	acity	\$: De	lay exc	eeds 30	)()s -	+: Comp	outation	Not De	tined	*: All	major v	olume ir	n platoon

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>ተ</b> ኈ		ሻ	<b>∱</b> β			4			4	
Traffic Volume (veh/h)	24	554	11	59	591	28	4	4	8	2	4	12
Future Volume (veh/h)	24	554	11	59	591	28	4	4	8	2	4	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	26	602	12	64	642	30	4	4	9	2	4	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	550	2518	50	583	2443	114	106	111	203	54	101	265
Arrive On Green	0.71	0.71	0.71	0.71	0.71	0.71	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	766	3563	71	808	3457	161	291	471	856	89	428	1121
Grp Volume(v), veh/h	26	300	314	64	330	342	17	0	0	19	0	0
Grp Sat Flow(s),veh/h/ln	766	1777	1858	808	1777	1841	1617	0	0	1639	0	0
Q Serve(g_s), s	1.5	7.2	7.2	3.6	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	9.6	7.2	7.2	10.8	8.0	8.0	0.9	0.0	0.0	1.1	0.0	0.0
Prop In Lane	1.00		0.04	1.00	0.0	0.09	0.24	0.0	0.53	0.11	0.0	0.68
Lane Grp Cap(c), veh/h	550	1256	1313	583	1256	1301	420	0	0	421	0	0
V/C Ratio(X)	0.05	0.24	0.24	0.11	0.26	0.26	0.04	0.00	0.00	0.05	0.00	0.00
Avail Cap(c_a), veh/h	550	1256	1313	583	1256	1301	420	0	0	421	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.1	6.2	6.2	8.1	6.3	6.3	35.3	0.0	0.0	35.4	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.4	0.4	0.4	0.5	0.5	0.2	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.6	2.7	0.7	2.9	3.0	0.4	0.0	0.0	0.5	0.0	0.0
Unsig. Movement Delay, s/veh	0.0	2.0	2.1	0.7	2.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	8.2	6.7	6.6	8.5	6.8	6.8	35.5	0.0	0.0	35.6	0.0	0.0
LnGrp LOS	Α	Α	Α	Α	Α	Α	D	Α	Α	D	Α	Α
Approach Vol, veh/h		640			736			17			19	
		6.7			7.0			35.5			35.6	
Approach LOS		Α										
Approach LOS		А			Α			D			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		33.6		90.0		33.6		90.0				
Change Period (Y+Rc), s		5.1		* 5.2		5.1		* 5.2				
Max Green Setting (Gmax), s		24.9		* 85		25.0		* 85				
Max Q Clear Time (g_c+I1), s		3.1		12.8		2.9		11.6				
Green Ext Time (p_c), s		0.0		3.0		0.0		2.5				
Intersection Summary												
HCM 6th Ctrl Delay			7.6									
HCM 6th LOS			Α									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



1.1												
	EDT	EDD	WDI	WDT	WDD	NDI	NDT	NDD	CDI	CDT	CDD	
FRF		EBK	WBL		WBK			NRK	SBL		SBK	
40		^	45		20			4 =	<b>1</b>		40	
	•			•								
	-		-	-						-	ivone	
	_		-	-						0	-	
											-	
										-	- 06	
IZ	3	10	17	O	45	9	400	17	23	709	21	
/linor2		N	Minor1			Major1		N	/lajor2			
1020	1267	365	824	1269	242	730	0	0	483	0	0	
766	766	-	493	493	-	-	-	-	-	-	-	
254	501	-	331	776	-	-	-	-	-	-	-	
		7.14	6.99	6.54	6.94	5.34	-	-	4.14	-	-	
		-		5.54	-	-	-	-	-	-	-	
		-			-	-	-	-	-	-	-	
							-	-		-	-	
		*778			759	922	-	-	1076	-	-	
		-			-	-	-	-	-	-	-	
		-		681	-	-	-	-	-	-	-	
	-	1	•	1		•	-	-		-	-	
		*778			759	922	-	-	1076	-	-	
		-			-	-	-	-	-	-	-	
		-			-	-	-	-	-	-	-	
647	536	-	*799	666	-	-	-	-	-	-	-	
EB			WB			NB			SB			
12.8												
						V.=			0.0			
	NDI	NDT	NDD I	TDL 414	VDL 4	CDI	CDT	CDD				
								SRK				
								-				
								-				
	U	-	-	0.2	0.4	0.1	-	-				
acity	A D	la., a., a.	eeds 30	10-	·· Comi	outation	Not Do	fined	*· ΔII	maior w	olume ir	n platoon
	1020 766 254 6.99 7.34 6.54 3.67 714 702 1 422 422 707 647 EB 12.8 B	EBL EBT  10 3 10 3 0 0 Stop Stop 0 86 86 2 2 12 3  1020 1267 766 766 254 501 6.99 6.54 7.34 5.54 6.54 5.54 3.67 4.02 467 311 714 688 702 541 1 1 422 301 422 301 707 674 647 536  EB  12.8 B  NBL 922 0.01 8.9 A 0	EBL EBT EBR  10 3 9 10 3 9 0 0 0 0 Stop Stop Stop - None None 0 - 86 86 86 2 2 2 2 12 3 10  1020 1267 365 766 766 - 254 501 - 6.99 6.54 7.14 7.34 5.54 - 6.54 5.54 - 3.67 4.02 3.92 467 311 *778 714 688 - 702 541 - 1 1 1 422 301 *778 422 301 - 707 674 - 647 536 -  EB  12.8 B  NBL NBT 922 - 0.01 - 8.9 - A - 0 -	EBL EBT EBR WBL  10 3 9 15 10 3 9 15 0 0 0 0 0 Stop Stop Stop Stop - None None 86 86 86 86 2 2 2 2 2 12 3 10 17  1020 1267 365 824 766 766 - 493 254 501 - 331 6.99 6.54 7.14 6.99 7.34 5.54 - 6.54 6.54 5.54 - 6.74 3.67 4.02 3.92 3.67 467 311 *778 *653 714 688 - *510 702 541 - *832 1 1 1 1 1 422 301 *778 *623 422 301 - *623 707 674 - *505 647 536 - *799  EB WB 12.8	BBL   BBT   BBR   WBL   WBT	BBL   BBR   WBL   WBT   WBR	BBL   BBT   BBR   WBL   WBT   WBR   NBL	BBL   BBR   BBR   WBL   WBR   WBR   NBL   NBT	BBL   BBT   BBR   WBL   WBT   WBR   NBL   NBT   NBR	BBL   BBT   BBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL	The color   The	The color   The

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>/</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ħβ		*	ħβ			- 4			4	
Traffic Volume (veh/h)	30	736	30	54	707	56	17	17	30	13	33	45
Future Volume (veh/h)	30	736	30	54	707	56	17	17	30	13	33	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	10-0	No	10-0	10=0	No	10-0	10-0	No	10-0	10=0	No	10=0
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	33	800	33	59	768	61	18	18	33	14	36	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	505	2603	107	504	2496	198	88	90	128	54	120	137
Arrive On Green	0.75	0.75	0.75	0.75	0.75	0.75	0.17	0.17	0.17	0.17	0.17	0.17
Sat Flow, veh/h	661	3478	143	659	3335	265	300	543	773	121	725	829
Grp Volume(v), veh/h	33	409	424	59	409	420	69	0	0	99	0	0
Grp Sat Flow(s),veh/h/ln	661	1777	1845	659	1777	1823	1616	0	0	1675	0	0
Q Serve(g_s), s	2.1	9.0	9.0	3.9	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	11.1	9.0	9.0	12.9	9.0	9.0	4.2	0.0	0.0	6.1	0.0	0.0
Prop In Lane	1.00		0.08	1.00		0.15	0.26		0.48	0.14		0.49
Lane Grp Cap(c), veh/h	505	1330	1380	504	1330	1364	306	0	0	312	0	0
V/C Ratio(X)	0.07	0.31	0.31	0.12	0.31	0.31	0.23	0.00	0.00	0.32	0.00	0.00
Avail Cap(c_a), veh/h	505	1330	1380	504	1330	1364	306	0	0	312	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.8	4.9	4.9	7.0	4.9	4.9	43.5	0.0	0.0	44.3	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.6	0.6	0.5	0.6	0.6	1.7	0.0	0.0	2.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.0	3.1	0.6	3.0	3.1	2.0	0.0	0.0	2.9	0.0	0.0
Unsig. Movement Delay, s/veh	7.0	5.5	5.5	7.5	F F	5.5	45.2	0.0	0.0	47.0	0.0	0.0
LnGrp Delay(d),s/veh	7.0			7.5	5.5			0.0	0.0	47.0 D	0.0	
LnGrp LOS	A	A	A	A	A	A	D	A	A	U	A	A
Approach Vol, veh/h		866			888			69			99	
Approach Delay, s/veh		5.6			5.7			45.2			47.0	
Approach LOS		А			Α			D			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.0		95.0		25.0		95.0				
Change Period (Y+Rc), s		5.1		* 5.2		5.1		* 5.2				
Max Green Setting (Gmax), s		19.9		* 90		19.9		* 90				
Max Q Clear Time (g_c+l1), s		8.1		14.9		6.2		13.1				
Green Ext Time (p_c), s		0.2		4.0		0.2		3.8				
Intersection Summary												
HCM 6th Ctrl Delay			9.2									
HCM 6th LOS			Α									

#### Notes

User approved pedestrian interval to be less than phase max green.

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	-4	*	<1	<u></u>	
Phase Number	2	4	6	8	
Movement	SBTL	WBTL	NBTL	EBTL	
Lead/Lag	_				
Lead-Lag Optimize					
Recall Mode	C-Max	Max	C-Max	Max	
Maximum Split (s)	25	95	25	95	
Maximum Split (%)	20.8%	79.2%	20.8%	79.2%	
Minimum Split (s)	29.1	23.2	30.1	23.2	
Yellow Time (s)	3.6	4	3.6	4	
All-Red Time (s)	1.5	1.2	1.5	1.2	
Minimum Initial (s)	7	10	7	10	
Vehicle Extension (s)	2	2	2	2	
Minimum Gap (s)	3	3	3	3	
Time Before Reduce (s)	0	0	0	0	
Time To Reduce (s)	0	0	0	0	
Walk Time (s)	7	7	8	7	
Flash Dont Walk (s)	17	7	17	8	
Dual Entry	Yes	Yes	Yes	Yes	
Inhibit Max	Yes	Yes	Yes	Yes	
Start Time (s)	112	17	112	17	
End Time (s)	17	112	17	112	
Yield/Force Off (s)	11.9	106.8	11.9	106.8	
Yield/Force Off 170(s)	114.9	99.8	114.9	98.8	
Local Start Time (s)	0	25	0	25	
Local Yield (s)	19.9	114.8	19.9	114.8	
Local Yield 170(s)	2.9	107.8	2.9	106.8	
Intersection Summary					
Cycle Length			120		
Control Type	Actua	ated-Coo			
Natural Cycle			55		
Offset: 112 (93%), Referen	ced to phas	e 2:SBTL	and 6:NE	BTL, Start	t of Green
Splits and Phases: 2: Ma	arshall Way	& Indian	School Ro	oad	
Ø2 (R)	₩ Ø4				
25 s	95 s				
<b>⋖</b> †	A				
Ø6 (R)	<b>→</b> Ø8	<u> </u>			



### ATTACHMENT E - TRIP GENERATION





Trip Generation Calculations - 10th Edition

826 - Specialty Retail Center - ITE Trip Generation 9th Edition																						1
Land Use	ITE	Qty	Unit	Weekday			AM Peak H	our*		PM Peak Hou	r		,	Weekday		Al	M Peak H	our*	P	M Peak H	lour	i .
Land Ose	Code	Qty	Offic	Rate	% In	% Out	Rate	% In	% Out	Rate	% In	% Out	Total	In	Out	Total	In	Out	Total	In	Out	ı
Specialty Retail Center	826	28.27	1000 Sq. Ft. GLA	44-32	50%	50%	0.94	62%	38%	2.71	44%	56%	1,253	627	626	27	17	10	77	34	43	Average
Specialty Retail Center	826	28.27	1001 Sq. Ft. GLA	21.3	50%	50%	0.18	62%	38%	2.03	44%	56%	603	302	301	5	3	2	58	26	32	Minimun
Specialty Retail Center	826	28.27	1002 Sq. Ft. GLA	64.21	50%	50%	23.74	62%	38%	5.16	44%	56%	1,816	908	908	671	416	255	146	65	81	Maximun
Land Use	ITE	Qty	Unit	Weekday			AM Peak I	lour		PM Peak Hou	r			Weekday		А	M Peak H	our	P.	M Peak H	lour	1
Land OSE	Code	QLy	Offic	Equation		% Out	Equation	% In	% Out	Equation	% In	% Out	Total		Out	Total	In	Out	Total	In	Out	1
Specialty Retail Center	826	28.27	1000 Sq. Ft. GLA	T=42.78(X)+37.66	50%	50%	N/A	N/A	N/A	T=2.40(X)+21.48	44%	56%	1,248	624	624	N/A	N/A	N/A	90	40	50	Equation
																						_
	S	tandard De	viation	15.52			-			1.83												1
Specialty Retail Center	1	Number of 5	Studies	4						5												1
Specialty Retail Center		Average	Size	25						69												1
*Pates and Distribution taken From ITE Trip Congration (Operation)		R <sup>2</sup>		0.69						0.98												ı

\*Rates and Distribution taken From ITE Trip Generation 10th Edition Land Use 820 - Shopping Center

Existing Toning of A EAR Shanning - Ros

opping Center																					
Land Use	ITE	Qty	Unit	Weekday			AM Peak H	lour		PM Peak Hou	r			Weekday		A	M Peak H	our	PN	Peak Ho	ur
Land Ose	Code	Qty	Offic	Rate	% In	% Out	Rate	% In	% Out	Rate	% In	% Out	Total	In	Out	Total	In	Out	Total	In	Out
Shopping Center	820	14.14	1000 SF GLA	37-75	50%	50%	0.94	62%	38%	3.81	48%	52%	534	267	267	13	9	4	54	26	28
Shopping Center	820	14.14	1000 SF GLA	7-42	50%	50%	0.18	62%	38%	0.74	48%	52%	105	53	52	3	2	1	10	6	4
Shopping Center	820	14.14	1000 SF GLA	207.98	50%	50%	23.74	62%	38%	18.69	48%	52%	2,941	1,471	1,470	336	209	127	264	127	137
Land Use	ITE	Qty	Unit	Weekday			AM Peak H	lour		PM Peak Hou	r			Weekday		A	M Peak H	our	PN	Peak Ho	ur
Land O3e	Code	qty	Offic	Equation	% In	% Out	Equation	% In	% Out	Equation	% In	% Out	Total	In	Out	Total	In	Out	Total	In	Out
Shopping Center	820	14.14	1000 SF GLA	Ln(T)=0.68Ln(X)+5.57	50%	50%	T=0.50(X)+151.78	62%	38%	Ln(T)=0.74Ln(X)+2.89	48%	52%	1,590	795	795	159	99	60	128	62	66
	St	andard Dev	iation	16.41			0.87			2.04											
Shopping Center	N	umber of St	udies	147			84			261											
anopping center		Average Si	ize	453			351			327											
		R <sup>2</sup>		0.76			0.50			0.82											



#### Trip Generation Calculations

Multifamily Housing (Mid-Rise) (Three to Ten Levels)

Proposed Development

Land Use	ITE	Qty	Unit	Weekda	у		AM Peak H	our		PM Peak Ho	ur		٧	Veekday			Peak H	lour	Р	M Peak H	lour	
Land Ose	Code	Qty		Rate	% In	% Out	Rate	% In	% Out	Rate	% In	% Out	Total	In	Out	Total	In	Out	Total	In	Out	1
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	5-44	50%	50%	0.36	26%	74%	0.44	61%	39%	452	226	226	30	8	22	37	23	14	Averag
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	1.27	50%	50%	0.06	26%	74%	0.15	61%	39%	105	53	52	5	1	4	12	7	5	Minimu
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	12.50	50%	50%	1.61	26%	74%	1.11	61%	39%	1,038	519	519	134	35	99	92	56	36	Maximu
Land Use	ITE	Qty	Unit	Weekda	у		AM Peak H	our		PM Peak Ho	ur		٧	Veekday		AM	Peak H	lour	P	M Peak H	lour	1
Land use	Code	Qty	Offic	Equation	% In	% Out	Equation	% In	% Out	Equation	% In	% Out	Total	In	Out	Total	In	Out	Total	In	Out	1
Multifamily Housing (Mid-Rise)	221	83	Dwelling Units	T=5.45(X)-1.75	50%	50%	Ln(T)=0.98Ln(X)-0.98	26%	74%	Ln(T)=0.96Ln(X)-0.63	61%	39%	451	226	225	29	8	21	37	23	14	Equatio
	1 -	tandard I																				
		tandard i lumber o		2.03			0.19			0.19												ŧ
Multifamily Housing (Mid-Rise)	-	Averag		27			53			60 208												ł
		Averag		205			207 0.67															ı
		K		0.77			0.6/			0.72												I
- Specialty Retail Center - ITE Trip Generation 9th Edition																						1
· · · · · · · · · · · · · · · · · · ·	ITE			Weekda	v		AM Peak H	nur*		PM Peak Ho	ur	_	V	Veekdav		AM	Peak H	our*	Р	'M Peak H	lour	1
Land Use	Code	Qty	Unit	Rate	% In	% Out	Rate		% Out	Rate	% In	% Out	Total	In	Out	Total		Out		In	Out	1
Specialty Retail Center	826	2.50	1000 Sq. Ft. GLA	44.32	50%	50%	0.94	62%	38%	2.71	44%	56%	111	56	55	2	1	1	7	4	3	Averag
Specialty Retail Center	826	2.50	1001 Sq. Ft. GLA	21.3	50%	50%	0.18	62%	38%	2.03	44%	56%	54	27	27	0	0	0	6	3	3	Minimu
																						1
Specialty Retail Center	826	2.50	1002 Sq. Ft. GLA	64.21	50%	50%	23.74	62%	38%	5.16	44%	56%	161	81	80	59	37	22	13	6	7	Maximu
	ITE	-	GLA	64.21 Weekda		50%	23.74 AM Peak H	our		5.16 PM Peak Ho				81 Veekday		AM	37 Peak I			6 PM Peak H		Maximu
Specialty Retail Center  Land Use		2.50 Qty	GLA Unit	•			7 7 7	our	38% % Out			56%			80 Out				Р	M Peak H		Maximu
	ITE	-	GLA	Weekda	у		AM Peak H	our		PM Peak Ho	ur		٧	Veekday		AM	Peak I	lour	Р	M Peak H	lour	
Land Use	ITE Code 826	Qty 2.50	Unit  1000 Sq. Ft. GLA	Weekda Equation T=42.78(X)+37.66	y % In	% Out	AM Peak H Equation	our % In	% Out	PM Peak Ho Equation T=2.40(X)+21.48	ur % In	% Out	V Total	Veekday In	Out	AM Total	Peak I	lour	P	M Peak H	lour Out	
Land Use	ITE Code 826	Qty 2.50	GLA Unit 1000 Sq. Ft. GLA Deviation	Weekda Equation T=42.78(X)+37.66	y % In	% Out	AM Peak H Equation	our % In	% Out	PM Peak Ho Equation	ur % In	% Out	V Total	Veekday In	Out	AM Total	Peak I	lour	P	M Peak H	lour Out	
Land Use  Specialty Retail Center	ITE Code 826	Qty 2.50 tandard I	GLA Unit 1000 Sq. Ft. GLA  Deviation f Studies	Weekda Equation T=42.78(X)+37.66	y % In	% Out	AM Peak H Equation	our % In	% Out	PM Peak Ho Equation T=2.40(X)+21.48  1.83 5	ur % In	% Out	V Total	Veekday In	Out	AM Total	Peak I	lour	P	M Peak H	lour Out	
Land Use	ITE Code 826	Qty 2.50	GLA  Unit  1000 Sq. Ft. GLA  Deviation f Studies e Size	Weekda Equation T=42.78(X)+37.66	y % In	% Out	AM Peak H Equation N/A	our % In	% Out	PM Peak Ho Equation T=2.40(X)+21.48	ur % In	% Out	V Total	Veekday In	Out	AM Total	Peak I	lour	P	M Peak H	lour Out	Maximui Equation

<sup>\*</sup>Rates and Distribution taken From ITE Trip Generation 10th Edition Land Use 820 - Shopping Center

712 Small Office Building																						
Land Use	ITE	Qty	Unit	Weel	kday		AM Peak	Hour		PM Peak Ho	ur		,	Veekday		AM	Peak F	lour	PI	И Peak H	our	
Edild Use	Code	Qty	Offic	Rate	% In	% Out	Rate	% In	% Out	Rate	% In	% Out	Total	ln	Out	Total	In	Out	Total	In	Out	
Small Office Building	712	2.5	1000 SF GFA	16.19	50%	50%	1.92	83%	17%	2.45	48%	52%	40	20	20	5	4	1	6	3	3	Average
Small Office Building	712	2.5	1000 SF GFA	4.44	50%	50%	0.78	83%	17%	0.56	48%	52%	11	6	5	2	2	0	1	0	1	Minimum
Small Office Building	712	2.5	1000 SF GFA	50.91	50%	50%	4.12	83%	17%	5-5	48%	52%	127	64	63	10	8	2	14	7	7	Maximum
Land Use	ITE	Qty	Unit	Weel	kday		AM Peak	Hour		PM Peak Ho	ur			Neekday		AM	Peak F	lour	PI	M Peak H	our	
Land Use	Code	Qty	Offic	Equation	% In	% Out	Equation	% In	% Out	Equation	% In	% Out	Total	ln	Out	Total	In	Out	Total	ln	Out	
Small Office Building	712	2.5	1000 SF GFA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Equation
	•				•	•			•					•							•	
	S	tandard	Deviation	11.03			0.97			1.38												
Small Office Building	N	lumber c	of Studies	17			17			17												
Small office building		Averag	ge Size	2			2			3												
		R	1 <sup>2</sup>	N/A			N/A			N/A												



# ATTACHMENT F - MAG SOCIOECONOMIC PROJECTIONS



# Socioeconomic Projections

### **Population and Employment**

by Municipal Planning Area, Jurisdiction, and Regional Analysis Zone

June 2019





302 North 1st Avenue, Suite 300 Phoenix, Arizona 85003 (602) 254-6300

#### Maricopa Association of Governments

### Table 1: Total Population by Municipal Planning Area July 1, 2018 and Projections July 1, 2020 to July 1, 2055

			Total Po	pulation		
Municipal Planning Area	2018	2020	2030	2040	2050	2055
Apache Junction	59,000	60,800	70,000	92,000	117,100	132,600
Avondale	84,200	86,700	101,800	111,900	119,000	122,100
Buckeye	89,000	97,700	186,600	305,400	409,900	459,300
Carefree	3,700	3,800	4,100	4,200	4,200	4,300
Cave Creek	5,900	6,000	6,500	7,000	7,200	7,300
Chandler	270,300	279,500	309,100	321,100	329,000	332,400
El Mirage	34,300	35,100	36,500	36,900	37,200	37,200
Florence	79,400	85,500	120,300	160,500	209,900	231,400
Fort McDowell Yavapai Native Nation	1,000	1,100	1,100	1,100	1,100	1,100
Fountain Hills	24,000	24,700	26,200	26,600	26,900	27,000
Gila Bend	2,500	2,700	3,700	3,700	3,900	4,200
Gila River Indian Native Nation	12,000	12,200	12,300	12,300	12,300	12,300
Gilbert	256,500	265,900	293,500	308,800	318,100	321,400
Glendale	272,200	279,100	306,400	323,400	333,200	338,800
Goodyear	87,300	92,100	140,300	192,200	228,600	247,900
Guadalupe	6,300	6,400	6,700	6,800	6,800	6,800
Litchfield Park	13,300	14,000	15,400	15,700	16,100	16,400
Maricopa	59,800	67,000	90,800	106,400	121,600	128,900
Mesa	533,400	552,800	607,500	649,400	680,000	690,300
Paradise Valley	14,000	14,100	14,700	15,100	15,200	15,300
Peoria	188,500	196,600	232,400	273,700	312,600	329,900
Phoenix	1,653,500	1,697,700	1,881,900	2,019,300	2,117,400	2,155,300
Queen Creek	58,700	65,000	90,900	109,000	120,900	128,500
Salt River Pima-Maricopa Native Nation	6,800	6,100	5,700	5,800	5,800	5,800
Scottsdale	245,500	253,800	281,900	299,400	311,400	316,700
Surprise	144,000	150,300	216,700	307,500	383,300	417,200
Tempe	185,300	190,000	217,100	247,000	272,400	282,200
Tolleson	7,000	7,100	8,600	10,300	11,400	11,800
Unicorporated Pinal County	66,800	68,600	79,100	93,700	110,800	122,700
Unincorporated Maricopa County	97,900	101,200	110,500	116,800	137,000	152,600
Wickenburg	8,200	8,500	9,400	9,500	9,800	10,000
Youngtown	6,600	6,800	7,300	7,700	7,800	7,800

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), June 2019

# Maricopa Association of Governments Table 2: Total Employment by Municipal Planning Area July 1, 2018 and Projections July 1, 2020 to July 1, 2055

			Total Em	ployment		
Municipal Planning Area	2018	2020	2030	2040	2050	2055
Apache Junction	7,800	8,800	13,100	17,800	26,400	30,500
Avondale	22,400	23,200	30,400	36,200	42,800	45,400
Buckeye	21,600	26,900	42,900	64,500	98,000	128,900
Carefree	1,600	1,600	2,100	2,400	2,500	2,600
Cave Creek	2,200	2,400	2,700	2,900	3,000	3,200
Chandler	145,500	154,700	182,300	202,100	215,200	222,000
El Mirage	5,000	5,100	6,500	7,200	8,000	8,900
Florence	11,000	12,100	17,000	26,400	40,900	51,100
Fort McDowell Yavapai Native Nation	2,200	2,400	2,400	2,500	2,600	2,600
Fountain Hills	7,100	7,700	9,100	9,800	10,200	10,300
Gila Bend	900	900	1,200	1,300	1,500	1,700
Gila River Indian Native Nation	10,500	10,700	11,500	13,100	14,800	15,500
Gilbert	92,800	98,600	120,200	135,900	146,600	152,200
Glendale	103,800	111,400	134,000	153,100	168,900	175,900
Goodyear	35,900	37,200	50,600	69,000	92,600	102,500
Guadalupe	1,300	1,300	1,500	1,600	1,600	1,600
Litchfield Park	3,800	4,400	5,200	5,900	6,400	6,700
Maricopa	6,200	7,100	11,400	18,200	28,200	33,500
Mesa	197,200	205,900	249,000	296,000	333,700	351,000
Paradise Valley	6,300	6,300	6,800	7,100	7,500	7,700
Peoria	58,200	62,400	73,100	84,800	91,900	96,300
Phoenix	897,700	937,600	1,084,000	1,189,200	1,264,900	1,298,900
Queen Creek	15,500	16,400	19,900	24,000	28,900	31,100
Salt River Pima-Maricopa Native Nation	21,200	22,900	28,200	33,900	35,900	36,400
Scottsdale	197,200	207,400	235,500	252,000	261,700	267,000
Surprise	33,600	36,400	59,500	86,400	113,400	130,500
Tempe	190,000	200,500	231,200	257,700	280,000	290,900
Tolleson	17,700	18,300	21,200	23,900	26,000	26,700
Unicorporated Pinal County	3,500	3,900	6,000	8,900	13,500	17,800
Unincorporated Maricopa County	28,600	31,500	35,500	41,100	51,200	58,400
Wickenburg	4,400	4,600	5,200	5,600	6,000	6,200
Youngtown	1,500	1,800	2,200	2,700	2,800	3,100

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), June 2019

### Maricopa Association of Governments Table 4: Population by Regional Analysis Zone (RAZ) by MPA July 1, 2018 and Projections July 1, 2020 to July 1, 2055

				Total Pop	ulation		
RAZ	County	2018	2020	2030	2040	2050	2055
	Total	1,653,469	1,697,722	1,881,876	2,019,269	2,117,427	2,155,333
Queen	Creek MPA						
339	Maricopa County	49,781	53,579	72,670	82,172	87,155	89,586
422	Pinal County	13	13	300	437	564	638
423	Pinal County	1,286	1,410	3,714	6,136	7,457	8,686
424	Pinal County	7,642	10,003	14,200	20,287	25,759	29,586
	Total	58,722	65,005	90,884	109,032	120,935	128,496
Salt Ri	ver Pima-Maricopa Native N	Nation MPA					
264	Maricopa County	6,798	6,073	5,708	5,820	5,820	5,820
	Total	6,798	6,073	5,708	5,820	5,820	5,820
Scotts	dale MPA						
209	Maricopa County	12,188	12,605	13,961	14,512	14,984	15,255
210	Maricopa County	6,013	6,591	10,463	12,339	13,491	13,961
229	Maricopa County	20,542	21,269	25,221	27,864	29,698	30,229
230	Maricopa County	32,232	33,028	38,882	43,580	46,789	48,510
247	Maricopa County	13,549	13,858	15,420	16,342	16,871	17,019
248	Maricopa County	36,178	37,227	38,468	38,807	39,048	39,143
249	Maricopa County	20,903	21,410	22,543	22,768	22,839	22,848
263	Maricopa County	34,908	35,814	37,002	37,252	37,584	37,773
272	Maricopa County	68,987	71,970	79,910	85,942	90,054	91,927
	Total	245,500	253,772	281,870	299,406	311,358	316,665
Surpris	se MPA						
211	Maricopa County	863	884	4,471	23,112	36,704	40,737
212	Maricopa County	10,265	11,365	37,615	69,296	85,862	93,806
232	Maricopa County	29,296	30,200	34,506	37,144	37,927	38,313
233	Maricopa County	87,834	91,276	111,822	119,384	123,777	126,523
234	Maricopa County	8,969	9,467	10,460	10,878	11,335	11,488
371	Maricopa County	342	344	434	734	2,584	4,316
504	Maricopa County	6,460	6,718	17,425	46,912	85,127	102,004
	Total	144,029	150,254	216,733	307,460	383,316	417,187
Tempe	MPA						
288	Maricopa County	73,442	76,444	100,651	129,202	150,094	157,410
297	Maricopa County	53,146	54,092	56,336	57,432	61,780	64,273
308	Maricopa County	58,756	59,473	60,120	60,348	60,476	60,559
	Total	185,344	190,009	217,107	246,982	272,350	282,242

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), May 2019

### Maricopa Association of Governments Table 5: Employment by Regional Analysis Zone (RAZ) by MPA July 1, 2018 and Projections July 1, 2020 to July 1, 2055

				Total Emp	loyment		
RAZ	County	2018	2020	2030	2040	2050	2055
	Total	897,713	937,622	1,083,980	1,189,209	1,264,941	1,298,903
Queen	Creek MPA						
339	Maricopa County	13,933	14,696	16,482	18,825	20,733	21,151
422	Pinal County	9	8	18	22	31	39
423	Pinal County	89	109	351	620	1,068	1,639
424	Pinal County	1,435	1,576	3,073	4,571	7,020	8,309
	Total	15,466	16,389	19,924	24,038	28,852	31,138
Salt Riv	ver Pima-Maricopa Native N	lation MPA					
264	Maricopa County	21,160	22,869	28,215	33,871	35,903	36,442
	Total	21,160	22,869	28,215	33,871	35,903	36,442
Scotts	dale MPA						
209	Maricopa County	4,488	4,659	4,851	5,174	5,161	5,344
210	Maricopa County	2,386	3,018	2,759	3,091	3,139	3,191
229	Maricopa County	9,604	10,005	11,231	11,962	12,193	12,896
230	Maricopa County	23,272	24,919	32,112	36,968	40,834	42,136
247	Maricopa County	44,254	47,089	52,652	54,822	55,679	56,105
248	Maricopa County	29,603	30,901	33,285	34,001	34,234	34,548
249	Maricopa County	7,409	7,692	8,179	8,684	8,906	9,045
263	Maricopa County	26,351	26,961	28,903	30,245	30,919	31,381
272	Maricopa County	49,833	52,185	61,540	67,039	70,676	72,330
	Total	197,200	207,429	235,512	251,986	261,741	266,976
Surpris	se MPA						
211	Maricopa County	60	53	1,560	3,172	4,766	7,017
212	Maricopa County	2,008	2,338	5,821	9,965	13,362	15,709
232	Maricopa County	8,349	9,228	11,297	12,187	12,875	13,116
233	Maricopa County	19,943	21,079	32,661	44,032	52,007	57,402
234	Maricopa County	2,588	2,711	3,354	3,922	4,239	4,386
371	Maricopa County	nty         2,008         2,338         5,821         9,965           nty         8,349         9,228         11,297         12,187           nty         19,943         21,079         32,661         44,032           nty         2,588         2,711         3,354         3,922           nty         18         20         327         423		ty 2,588 2,711 3,354 3,922 ty 18 20 327 423		2,381	2,937
504	Maricopa County	677	1,020	4,460	12,695	23,763	29,886
	Total	33,643	36,449	59,480	86,396	113,393	130,453
Tempe	e MPA						
288	Maricopa County	88,927	94,229	111,010	128,894	144,714	152,703
297	Maricopa County	44,730	47,069	53,149	57,125	60,725	62,552
308	Maricopa County	56,380	59,208	67,052	71,701	74,542	75,596
	Total	190,037	200,506	231,211	257,720	279,981	290,851

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), May 2019



# ATTACHMENT G - THE KIMSEY TRAFFIC IMPACT AND MITIGATION ANALYSIS





Traffic Impact & Mitigation Analysis



### Prepared for:



**PEG Development** 180 N. University Avenue Suite 200 Provo, UT 84601



Prepared by:

Project Number: 20.5108 March 08, 2021



Lōkahi, LLC 4657 E. Cotton Gin Loop, Suite 102 Phoenix, AZ 85040



#### 2. PROPOSED DEVELOPMENT

The study area is located in the City of Scottsdale, Arizona, approximately 2 ¼ miles west of State Route Loop 101 (SR 101L) and 4 miles north of State Route Loop 202 (SR 202L). The proposed development is located on the north side of Indian School Road approximately 300 feet west of Scottsdale Road.

The proposed development will include the following land uses:

Multi-Family Residential 190 unitsHotel 168-rooms

Restaurant
 4,000 square feet

See Figure 2 and Appendix A for the proposed site plan.

There are five (5) access points to the proposed site, three (3) located along Indian School Road and two (2) located along  $3^{rd}$  Avenue.

3<sup>rd</sup> Avenue and Alley (2) is located approximately 175 feet west of Craftsman Court and will allow all movements into and out of the existing alley connecting to the site.

**3<sup>rd</sup> Avenue and Driveway A (4)** is located approximately 130 feet east of Craftsman Court and will allow all movements into and out of the site. This driveway provides direct access to the hotel dropoff area.

**Indian School Road and Alley (8)** is located approximately 200 feet east of Marshall Way and will allow right in and right out movements to the existing alley connecting to the site.

**Indian School Road and Driveway B (9)** is located approximately 475 feet west of Scottsdale Road and will allow right out movements only out of the site

**Indian School Road and Driveway C (10)** is located approximately 350 feet west of Scottsdale Road and will allow right in and left in movements only into the site.

See Figure 3 for study area.



FIGURE 1 | VICINITY MAP



### FIGURE 2 | SITE PLAN



#### PROPOSED DEVELOPMENT

The Kimsey development will include the following land uses:

Multi-Family Residential 190 unitsHotel 168-rooms

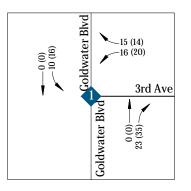
Restaurant
 4,000 square feet

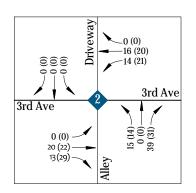
The trip generation for The Kimsey development was calculated utilizing ITE Land Use 221 – Multifamily Housing (Mid-Rise), Land Use (310) – Hotel, and Land Use (932) – High-Turnover (Sit-Down) Restaurant. Trip generation calculations are shown in **Table 10** below. Detailed trip generation calculations are provided in **Appendix G**.

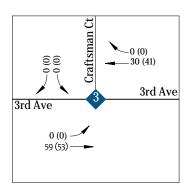
Table 10 – Trip Generation – Proposed Development

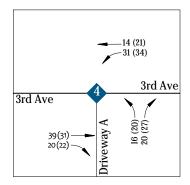
Land Use	ITE Code	Qty	Unit	Weekday	Αl	И Peak Ho	our	PN	M Peak Ho	ur
Lailu OSe	TTE Code	Υιγ	Offic	Total	Total	In	Out	Total	ln	Out
Multifamily Housing (Mid-Rise)	221	190	Dwelling Units	1,034	64	17	47	82	50	32
Hotel	310	168	Rooms	1405	79	47	32	101	52	49
High-Turnover (Sit-Down) Restaurant	932	4.0	1000 SF GFA	449	40	22	18	39	24	15
		Total	- Proposed	2,888	183	86	97	222	126	96

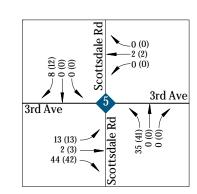
The proposed development is anticipated to generate 2,888weekday trips with 183 occurring during the AM peak hour and 222 trips during the PM peak hour.



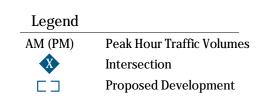


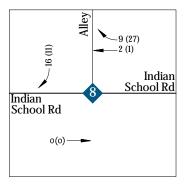


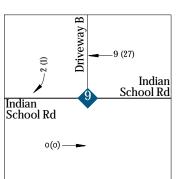


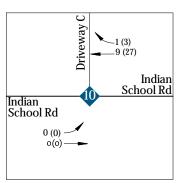




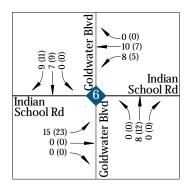


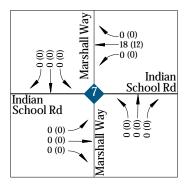


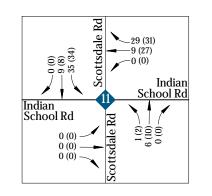


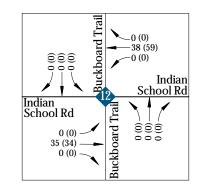


NOTE: Site Traffic Volumes Have Since Been Reduced By 7%









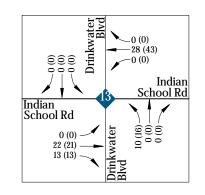


FIGURE 7 | SITE TRAFFIC VOLUMES



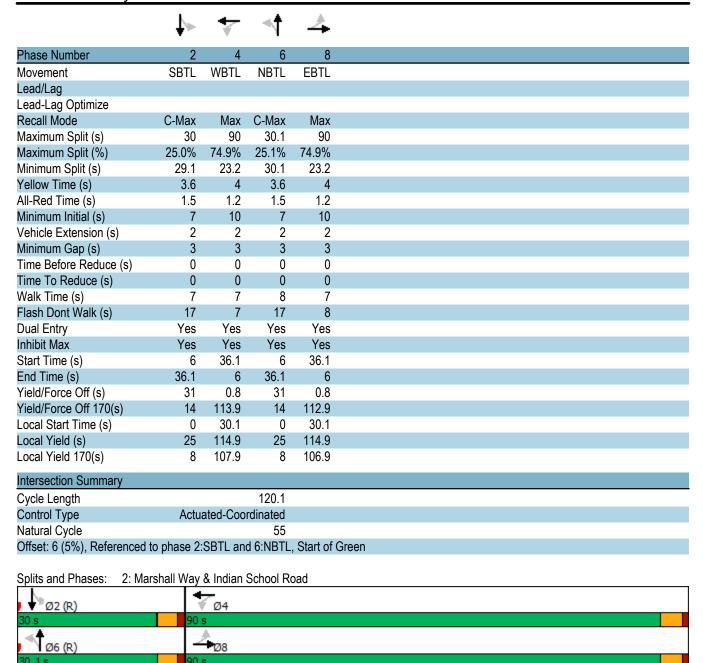
# ATTACHMENT H – YEAR 2023 BUILD CAPACITY ANALYSIS



Intersection													
Int Delay, s/veh	0.9												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		*	<b>†</b> \$		*	<del>ተ</del> ተጉ		
Traffic Vol, veh/h	4	0	0	11	3	16	15	402	13	22	305	6	
Future Vol, veh/h	4	0	0	11	3	16	15	402	13	22	305	6	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	_	_	None	_	_	None	_	_	None	_	-	None	
Storage Length	-	-	-	-	_	-	55	-	-	80	-	-	
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	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	4	0	0	12	3	17	16	437	14	24	332	7	
Major/Minor N	Minor2		N	Minor1			Major1		N	//ajor2			
Conflicting Flow All	636	867	170	657	863	226	339	0	0	451	0	0	
Stage 1	384	384	-	476	476	-	-	-	-	-	-	-	
Stage 2	252	483	_	181	387	_	_	_	_	_	_	_	
Critical Hdwy	6.99	6.54	7.14	6.99	6.54	6.94	5.34	_	_	4.14	_	_	
Critical Hdwy Stg 1	7.34	5.54	-	6.54	5.54	- 0.01	- 0.01	_	_	-	_	_	
Critical Hdwy Stg 2	6.54	5.54	_	6.74	5.54	_	_	_	_	_	_	_	
Follow-up Hdwy	3.67	4.02	3.92	3.67	4.02	3.32	3.12	_	_	2.22	_	_	
Pot Cap-1 Maneuver	511	363	*867	*494	365	777	985	_	_	1106	_	_	
Stage 1	743	734	-	*521	555	-	-	_	_	-	_	_	
Stage 2	704	551	_	*926	731	_	_	_	_	_	_	_	
Platoon blocked, %	1	1	1	1	1		1	_	_		_	_	
Mov Cap-1 Maneuver	482	349	*867	*480	351	777	985	_	_	1106	_	_	
Mov Cap-2 Maneuver	482	349	-	*480	351	-	-	_	_	-	_	_	
Stage 1	731	718	_	*513	546	_	_	_	_	_	_	_	
Stage 2	673	542	-	*906	715	-	_	_	_	_	_	-	
<u>-</u>		- · <b>-</b>											
Approach	EB			WB			NB			SB			
HCM Control Delay, s	12.5			11.6			0.3			0.6			
HCM LOS	В			В			3.0			3.3			
				_									
Minor Lane/Major Mvmt	t	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		985	-	_	482	576	1106	-	_				
HCM Lane V/C Ratio		0.017	_	_			0.022	_	_				
HCM Control Delay (s)		8.7	_	_	12.5	11.6	8.3	_	_				
HCM Lane LOS		Α	-	_	12.3 B	В	Α	_	_				
HCM 95th %tile Q(veh)		0.1	_	_	0	0.2	0.1	_	_				
		<b>J</b> .,				V.E	<b>J</b> .,						
Notes	00:4.	¢. D	lov:	00d= 00	)Oc	Carr	o.u.t.=1:-	Net D	fin a a	*. AU	mala	oluves e !	n pleta - :-
~: Volume exceeds cap	acity	⊅: De	lay exc	eeus 30	JUS .	+: Com	outation	NOT DE	iinea	: All	major v	oiume ir	n platoon

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>∱</b> ∱		ሻ	<b>∱</b> ∱			4			4	
Traffic Volume (veh/h)	26	612	14	73	670	31	9	9	17	2	5	14
Future Volume (veh/h)	26	612	14	73	670	31	9	9	17	2	5	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	28	665	15	79	728	34	10	10	18	2	5	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	503	2511	57	546	2443	114	118	122	181	49	107	265
Arrive On Green	0.71	0.71	0.71	0.71	0.71	0.71	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	704	3553	80	760	3457	161	337	514	766	70	453	1121
Grp Volume(v), veh/h	28	332	348	79	374	388	38	0	0	22	0	0
Grp Sat Flow(s),veh/h/ln	704	1777	1856	760	1777	1841	1617	0	0	1644	0	0
Q Serve(g_s), s	1.8	8.1	8.1	5.0	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	11.2	8.1	8.1	13.1	9.4	9.4	2.1	0.0	0.0	1.2	0.0	0.0
Prop In Lane	1.00		0.04	1.00		0.09	0.26		0.47	0.09		0.68
Lane Grp Cap(c), veh/h	503	1256	1312	546	1256	1301	421	0	0	422	0	0
V/C Ratio(X)	0.06	0.26	0.26	0.14	0.30	0.30	0.09	0.00	0.00	0.05	0.00	0.00
Avail Cap(c_a), veh/h	503	1256	1312	546	1256	1301	421	0	0	422	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.6	6.4	6.4	8.7	6.5	6.5	35.7	0.0	0.0	35.4	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.5	0.5	0.6	0.6	0.6	0.4	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.9	3.0	0.9	3.4	3.5	0.9	0.0	0.0	0.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.8	6.9	6.8	9.3	7.1	7.1	36.2	0.0	0.0	35.7	0.0	0.0
LnGrp LOS	Α	Α	Α	Α	Α	Α	D	Α	Α	D	Α	Α
Approach Vol, veh/h		708			841			38		_	22	
Approach Delay, s/veh		6.9			7.3			36.2			35.7	
Approach LOS		Α			Α.			D			00.7 D	
• •					Λ.	0					D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		33.6		90.0		33.6		90.0				
Change Period (Y+Rc), s		5.1		* 5.2		5.1		* 5.2				
Max Green Setting (Gmax), s		24.9		* 85		25.0		* 85				
Max Q Clear Time (g_c+l1), s		3.2		15.1		4.1		13.2				
Green Ext Time (p_c), s		0.0		3.6		0.1		2.9				
Intersection Summary												
HCM 6th Ctrl Delay			8.2									
HCM 6th LOS			Α									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Intersection													
Int Delay, s/veh	1.1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		1100	4	TTD.T.	ሻ	<b>†</b>	HEIT	<u> </u>	<b>4†</b>	OBIT	
Traffic Vol, veh/h	10	3	9	19	5	43	8	429	20	23	649	19	
Future Vol, veh/h	10	3	9	19	5	43	8	429	20	23	649	19	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	_	_	None	_	_	None	
Storage Length	-	-	-	-	-	-	55	-	-	80	-	-	
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, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	11	3	10	21	5	47	9	466	22	25	705	21	
Major/Minor	Minor2		N	Minor1			Major1		N	Major2			
Conflicting Flow All	1020	1272	363	829	1271	244	726	0	0	488	0	0	
Stage 1	766	766	-	495	495	244	120	-	-	400	-	-	
Stage 2	254	506	_	334	776		_	_	_	_	_		
Critical Hdwy	6.99	6.54	7.14	6.99	6.54	6.94	5.34	_		4.14	_	_	
Critical Hdwy Stg 1	7.34	5.54	7.17	6.54	5.54	0.54	J.J <del>.</del>	_	_		_	_	
Critical Hdwy Stg 2	6.54	5.54	_	6.74	5.54	_	_	_	_	_	_	_	
Follow-up Hdwy	3.67	4.02	3.92	3.67	4.02	3.32	3.12	<u>-</u>	_	2.22	<u>-</u>	_	
Pot Cap-1 Maneuver	467	308	*778	*648	309	757	926	_	_	1071	_	_	
Stage 1	714	688	-	*508	544	-	-	_	_	-	_	_	
Stage 2	702	538	_	*832	681	_	_	_	_	_	_	_	
Platoon blocked, %	1	1	1	1	1		1	_	_		_	_	
Mov Cap-1 Maneuver	421	298	*778	*618	299	757	926	_	_	1071	_	_	
Mov Cap-2 Maneuver	421	298	-	*618	299	-	-	_	_	-	_	_	
Stage 1	707	672	_	*503	539	-	_	_	_	_	_	-	
Stage 2	646	533	-	*798	665	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	12.8			11.3			0.2			0.3			
HCM LOS	12.0 B			11.3 B			U.Z			0.5			
IOW LOO	U			U									
\A'   /b & ' . b &		MDI	NET	NDD	-DL 4	A/DL 4	051	ODT	000				
Minor Lane/Major Mvm	π	NBL	NBT		EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		926	-	-	485	643	1071	-	-				
HCM Lane V/C Ratio		0.009	-	-		0.113		-	-				
HCM Control Delay (s)		8.9	-	-	12.8	11.3	8.4	-	-				
HCM Lane LOS	١	A	-	-	В	В	Α	-	-				
HCM 95th %tile Q(veh)	)	0	-	-	0.2	0.4	0.1	-	-				
Notes													
~: Volume exceeds cap	pacity	\$: De	lay exc	eeds 30	00s -	+: Com	outation	Not De	fined	*: All	major v	olume ir	n platoon

	•	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>/</b>	ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ħβ		ሻ	<b>∱</b> ∱			4			4	
Traffic Volume (veh/h)	31	766	39	70	748	58	25	25	43	14	42	48
Future Volume (veh/h)	31	766	39	70	748	58	25	25	43	14	42	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	4070	No	4070	4070	No	4070	4070	No	4070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	34	833	42	76	813	63	27	27	47	15	46	52
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	482	2576	130	483	2501	194	90	92	126	53	132	128
Arrive On Green	0.75	0.75	0.75	0.75	0.75	0.75	0.17	0.17	0.17	0.17	0.17	0.17
Sat Flow, veh/h	633	3442	174	634	3342	259	314	556	757	115	794	775
Grp Volume(v), veh/h	34	430	445	76	432	444	101	0	0	113	0	0
Grp Sat Flow(s),veh/h/ln	633	1777	1839	634	1777	1824	1627	0	0	1684	0	0
Q Serve(g_s), s	2.3	9.6	9.6	5.4	9.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.0	9.6	9.6	15.1	9.7	9.7	6.2	0.0	0.0	7.0	0.0	0.0
Prop In Lane	1.00	1220	0.09	1.00	1220	0.14	0.27	0	0.47	0.13	٥	0.46
Lane Grp Cap(c), veh/h V/C Ratio(X)	482 0.07	1330	1376 0.32	483	1330	1365	308	0.00	0.00	313	0.00	0.00
	482	0.32 1330	1376	0.16 483	0.33 1330	0.33 1365	0.33 308	0.00	0.00	0.36 313		0.00
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.0	5.0	5.0	7.5	5.0	5.0	44.3	0.00	0.00	44.7	0.00	0.00
Incr Delay (d2), s/veh	0.3	0.6	0.6	0.7	0.7	0.6	2.8	0.0	0.0	3.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.2	3.3	0.8	3.3	3.3	2.9	0.0	0.0	3.3	0.0	0.0
Unsig. Movement Delay, s/veh	0.0	0.2	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	7.3	5.7	5.6	8.2	5.7	5.7	47.2	0.0	0.0	47.9	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	D	A	A	D	A	A
Approach Vol, veh/h		909			952			101			113	
Approach Delay, s/veh		5.7			5.9			47.2			47.9	
Approach LOS		A			A			D			D	
Timer - Assigned Phs		2		4		6		8				
				95.0		25.0		95.0				
Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s		25.0 5.1		* 5.2		25.0 5.1		* 5.2				
Max Green Setting (Gmax), s		19.9		* 90		19.9		* 90				
Max Q Clear Time (g c+l1), s		9.0		17.1		8.2		14.0				
Green Ext Time (p_c), s		0.3		4.4		0.2		4.0				
		0.0		7.7		0.2		4.0				
Intersection Summary			16.1									
HCM 6th Ctrl Delay			10.1									
HCM 6th LOS			В									

#### Notes

User approved pedestrian interval to be less than phase max green.

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	\$⊳	*	- ◆1	4
Phase Number	2	4	6	8
Movement	SBTL	WBTL	NBTL	EBTL
Lead/Lag				
Lead-Lag Optimize				
Recall Mode	C-Max	Max	C-Max	Max
Maximum Split (s)	25	95	25	95
Maximum Split (%)	20.8%	79.2%	20.8%	79.2%
Minimum Split (s)	29.1	23.2	30.1	23.2
Yellow Time (s)	3.6	4	3.6	4
All-Red Time (s)	1.5	1.2	1.5	1.2
Minimum Initial (s)	7	10	7	10
Vehicle Extension (s)	2	2	2	2
Minimum Gap (s)	3	3	3	3
Time Before Reduce (s)	0	0	0	0
Time To Reduce (s)	0	0	0	0
Walk Time (s)	7	7	8	7
Flash Dont Walk (s)	17	7	17	8
Dual Entry	Yes	Yes	Yes	Yes
Inhibit Max	Yes	Yes	Yes	Yes
Start Time (s)	112	17	112	17
End Time (s)	17	112	17	112
Yield/Force Off (s)	11.9	106.8	11.9	106.8
Yield/Force Off 170(s)	114.9	99.8	114.9	98.8
Local Start Time (s)	0	25	0	25
Local Yield (s)	19.9	114.8	19.9	114.8
Local Yield 170(s)	2.9	107.8	2.9	106.8
Intersection Summary				
Cycle Length		_	120	_
Control Type	Actu	ated-Coo	rdinated	
Natural Cycle			60	
Offset: 112 (93%), Referen	ced to phas	e 2:SBTL	and 6:NE	BTL, Start
Splits and Phases: 2: Ma	arshall Way	& Indian	School Ro	oad
I Norman	-			
▼ Ø2 (R)	₩ Ø4			
25 s	95 s			